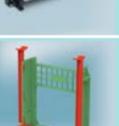


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COMBICON control

Connection technology for measurement and control technology and I/O modules: PCB terminal blocks and plug-in connectors with 2.54 to 7.62 mm pitch, screw, spring-cage, and insulation displacement connection, wave soldering.
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COMBICON high density & data

Plug-in connectors in miniature format - fast insulation displacement, spring, and pierce connection technology, T-branches for easy bus connections.
From page 45



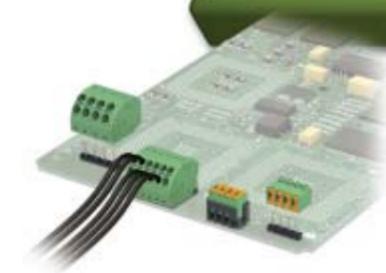
COMBICON power

Connection technology for power electronics: PCB terminal blocks and plug-in connectors for currents up to 125 A, screw and spring-cage connection, panel feed-throughs.
From page 439



COMBICON compact

Device connections for building technology and LED applications: PCB terminal blocks and plug-in connectors with 2.5 to 7.5 mm pitch, screw and spring-cage connection as well as pin strips.
From page 385



Housing

Plastic and aluminum electronics housing: component housing and panel mounting bases for industrial electronics, component housing for building installation, innovative bus connections between housing.
From page 647



PLUSCON data

Plug-in connectors, panel feed-throughs, and cables for fieldbuses and networks.
See Catalog 2



PLUSCON circular

Flush-type plug-in connectors, plug-in connectors for assembly, and cables from M5 to M58 for signals, data, and power.
See Catalog 2



PLUSCON power

Plug-in charging systems for electromobility up to 400 A and plug-in connectors for power electronics up to 150 A.
See Catalog 2



PLUSCON device

Rectangular plug-in connectors with modular contact system for signals, power, and fiber optics with IP67 protection and available in various sizes.
See Catalog 2



PLUSCON solar

AC and DC connection systems for photovoltaic modules, inverters, and micro inverters.
See Catalog 2



Individual connection solutions for your application



Customer-specific adaptation of standard products

Found a product in our catalogs that meets your technical requirements, but you'd prefer a tailored solution? No problem – our Solution Center will be happy to provide you with support in implementing your requirements. Whether it's individual colors, special printing, a specific number of contacts or complete cable assembly – just let us know what you want.



New customer-specific product developments

Phoenix Contact has been producing high-quality products for worldwide use for over 85 years.

Benefit from our extensive development, manufacturing, and process expertise for your individual solution. Together with you, we can transform great ideas into innovative products.

Intelligent solutions in housing and connection technology increasingly require custom concepts.

As a manufacturer, you can develop products with us that meet the requirements of today's markets, such as high quality, individual design, and great customer benefits at a reasonable price.

You will have the entire expertise of the Phoenix Contact Group at your disposal. From our own tool shop and machine building through plastic injection molding and metal production to expertise in electronics production, we offer a depth of manufacturing that enables us to implement even demanding projects and complex products within a short development period.

Our own laboratory carries out testing throughout the process, handles the necessary qualifications and, of course, international approvals.

As a manufacturer, you can focus on your core competencies and benefit from our expertise as specialists in connection and housing technology.

Great products need great ideas and experience. Together with the expertise of Phoenix Contact, you can implement your individual solution - right from the initial idea to cost-effective series production.

Our products and services range from customer-specific PCB connection technology with screw, spring or IDC fast connection, in all conceivable designs and colors...

...through corresponding electronics housing in special designs in the color and size of your choice, together with the appropriate connection technology...

...individual field cabling, with plug-in connectors with shielding for high data transmission speeds, splash-proof housing for harsh industrial environments...

...to complete solutions consisting, for example, of splash-proof housing including the appropriate connection technology for signal, data, and power transmission, plus the ideal PCB connection.



Our service – added value for you

Phoenix Contact doesn't just offer the right products, it also provides a professional service for all aspects of device development. Wherever you are in the world, Phoenix Contact's global network means that you can rely on our service. Being at home all over the world and speaking the language of the user is what we understand by customer proximity. Proximity that ensures the best service for our partners. We live up to this with more than 40 customer-oriented subsidiaries and around 30 representatives in other countries.

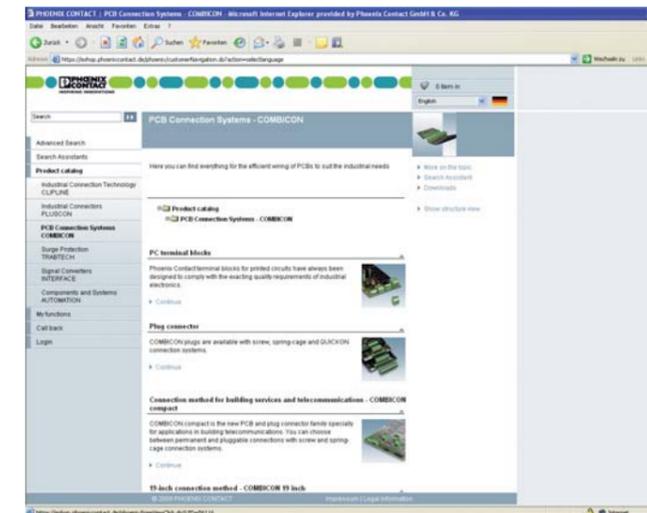


Online catalog

The online catalog provides comprehensive, up-to-date information in 7 languages for more than 22,000 products from Phoenix Contact. Here you can find product-specific information such as technical data, notes on approvals, dimensional drawings, 3D data, etc. At the click of the mouse, you can easily generate a product data sheet in PDF format.

In over 15 countries, e-shop functions complete the online catalog. Following successful registration, you can therefore access your prices and delivery schedules at any time and you also have the option of placing orders directly online.

www.phoenixcontact.net/products



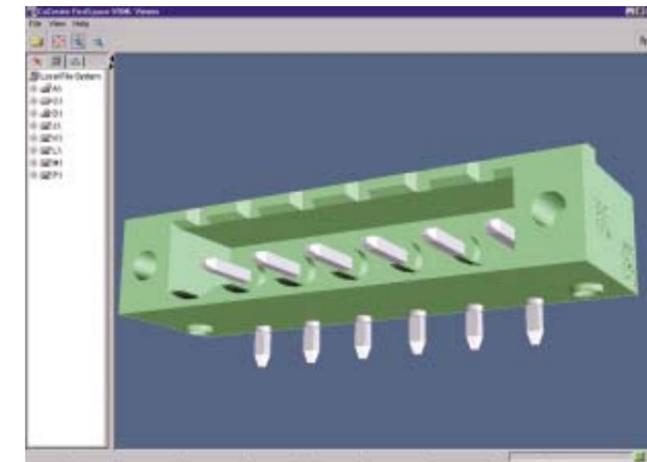
Quickly find product-specific information in the online catalog

Online search assistants

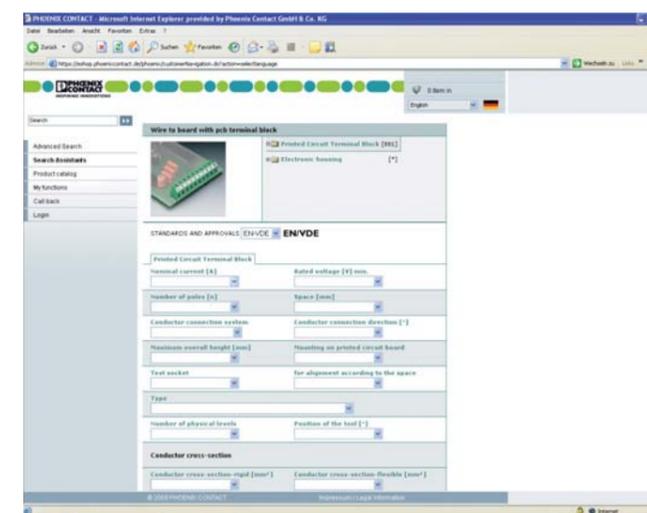
Online search assistants help you to search systematically and quickly for products from our extensive range of plug-in connectors. By selecting electrical values and other product properties, you are taken directly to the products that meet your requirements.

- COMBICON select
PCB connection and electronics housing
- PLUSCON field select
Flush-type plug-in connectors for sensor/ actuator applications
- PLUSCON data select
Device plug-in connectors for fieldbuses and networks
- PLUSCON circular select
M17 to M58 device plug-in connectors

www.phoenixcontact.net/products



Easy download of 3D data



User-friendly product search with COMBICON select

Personal consultation and support

As our customer, you are always the focus of attention at Phoenix Contact, whether during consultation or as part of after sales support. Expert and personal consultation forms the basis of this approach. Even though we live in the age of the Internet, personal interaction with our customers is of great importance to us.

Our team of highly motivated staff are available to you at locations around the world.

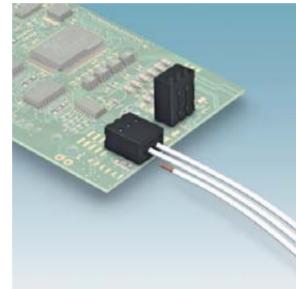
Reliable delivery service

It goes without saying that our products are delivered reliably and on time. In addition to our optimized delivery service, we offer numerous options for making the purchasing process more efficient and transparent.

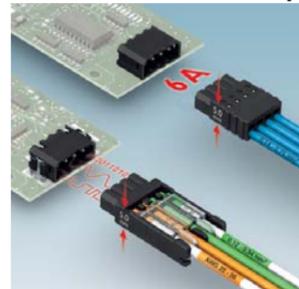
With warehouses in key industrial locations throughout the world, we ensure that you receive your products from Phoenix Contact cost-effectively and within the required delivery time.



COMBICON HD - miniature PCB terminal blocks and plug-in connectors with high contact density



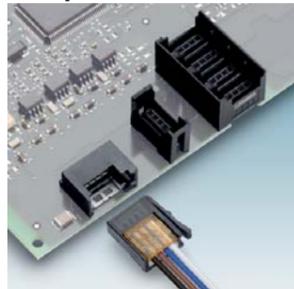
Miniature THR/SMD PCB terminal blocks and plug-in connectors with 2.5 mm pitch
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PTSM 0,5...SMD Page 53



Miniature plugs and headers with 2.5 mm pitch
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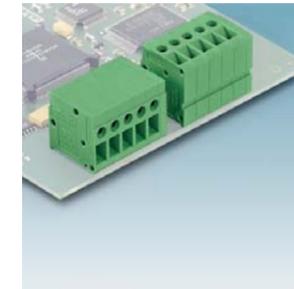


Miniature PCB terminal block with displacement connection with 2.5 mm pitch
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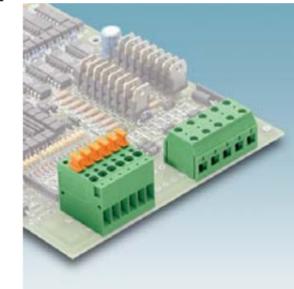


Plug-in connectors with displacement connection and headers with 2.0 mm pitch
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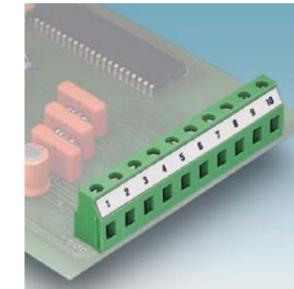
COMBICON control – Multi-position PCB terminal blocks with screw connection



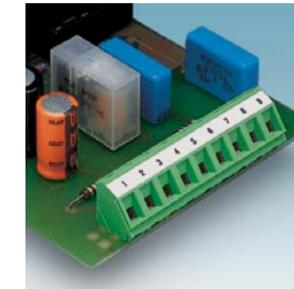
Horizontal and vertical PCB terminal blocks with front connection with 5.0 mm pitch, 2.5 mm² connection cross section
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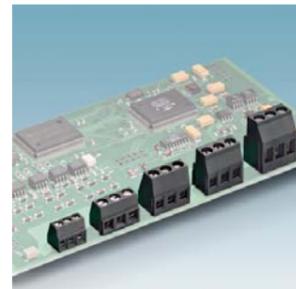


7.5/7.62 mm pitch
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GMKDS 1,5; 1,5 mm² Page 121

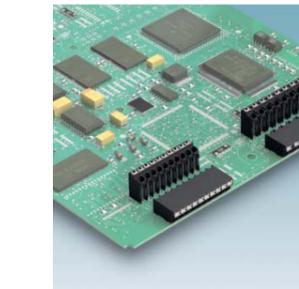


7.5/7.62 mm pitch
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GSMKDSP 1,5; 1,5 mm² Page 121
GSMKDS 3; 2,5 mm² Page 123

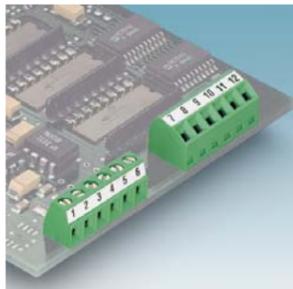
COMBICON control – multi-position and multi-level PCB terminal blocks



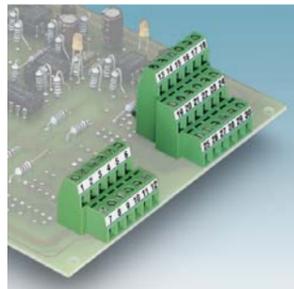
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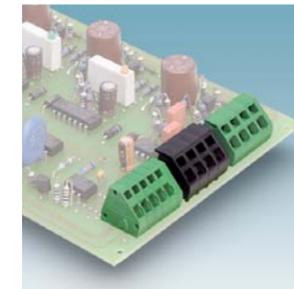


Multi-position PCB terminal blocks
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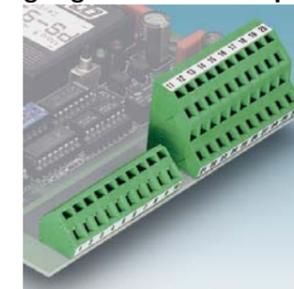


Double and three-level PCB terminal blocks with 3.5/3.81 mm pitch
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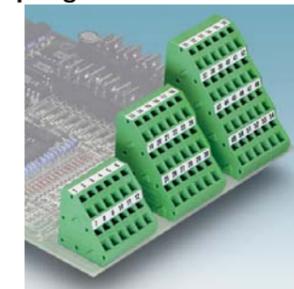
PCB terminal blocks with spring-cage connection or push-in spring connection



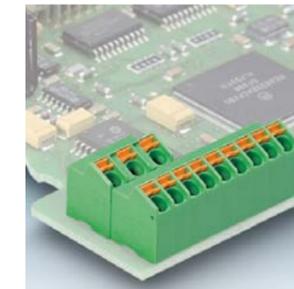
Angled PCB terminal blocks with spring-cage connection
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Compact design, 5.0 mm pitch, 1.5 mm² connection cross section
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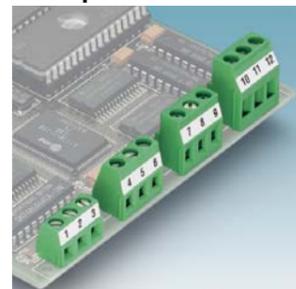


Two, three, and four-level PCB terminal blocks with 5.08 mm pitch, 2.5 mm² connection cross section Page 133

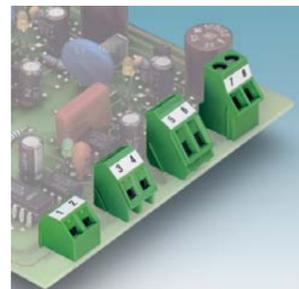


Angled PCB terminal blocks with push-in spring connection
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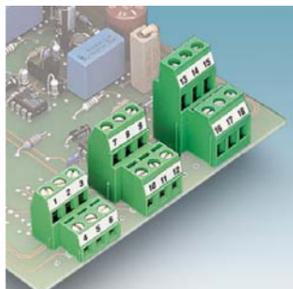
Multi-position and multi-level PCB terminal blocks with screw connection



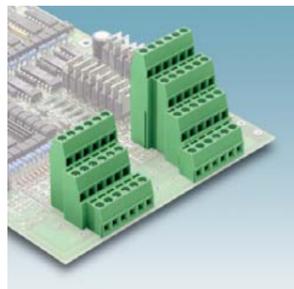
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SMKDSN 1,5; 1,5 mm² Page 91
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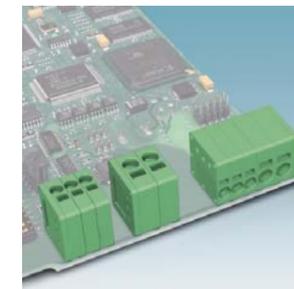


Double-level PCB terminal blocks
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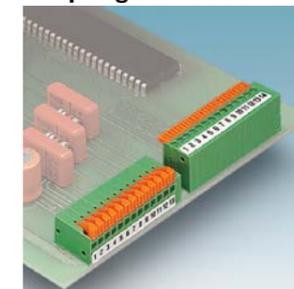


Multi-level PCB terminal blocks
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MK4DS 1,5/...-5,08 Page 101
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PCB terminal blocks with push-in spring connection or displacement connection



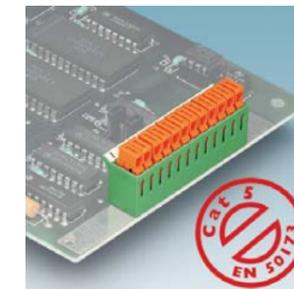
Horizontal and vertical push-in spring connection, 3.5/5.0 mm pitch
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Horizontal and vertical push-in spring connection, 2.54/3.81/5.08/7.62 mm pitch
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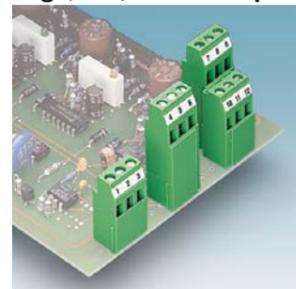


Orthogonal push-in spring connection
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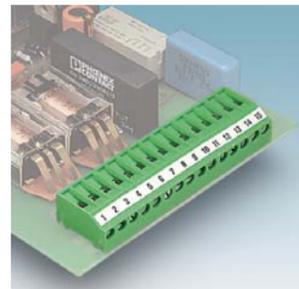


Displacement connection with 3.81 mm pitch, 0.5 mm² connection cross section
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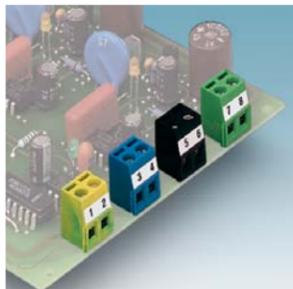
High, flat, and multi-position PCB terminal blocks with screw connection



High PCB terminal blocks with 5.0/5.08 mm pitch
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Horizontal design with 3.5/5.0 mm pitch
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With internal bridging
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Orthogonal PCB terminal blocks
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MKDSO 2,5/...-5,0 Page 113
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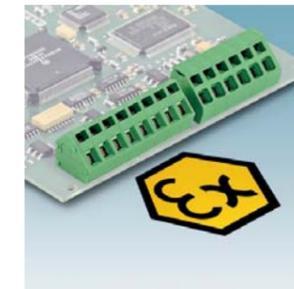
PCB terminal blocks with screw connection or spring connection for the Ex area



High PCB terminal blocks with 5.0/5.08 mm pitch
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Horizontal and vertical PCB terminal blocks with front connection with 5.0 mm pitch, 2.5 mm² connection cross section
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Spring-cage connection with 5.0/5.08 mm pitch
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Horizontal and vertical push-in spring connection with 3.5/5.0 mm pitch
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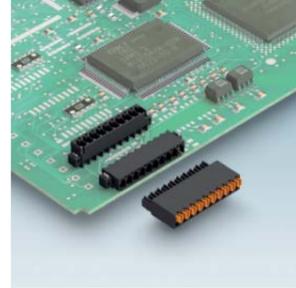
Product range overview

Product range overview

COMBICON control - plug-in connector systems with 2.5/2.54/3.5/3.81 mm pitch



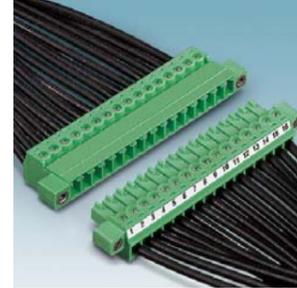
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Push-in plugs and headers for THR and SMD processes with 2.54 mm pitch
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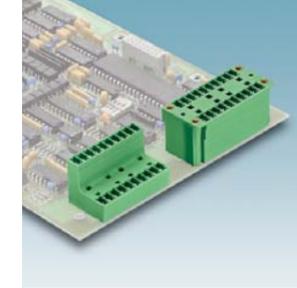


Double-row plug-in connector with push-in spring connection, 3.5 mm pitch
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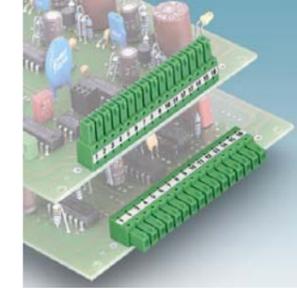


Inverted plugs with screw connection, 3.81 mm pitch
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COMBICON control - headers with 3.81 mm pitch



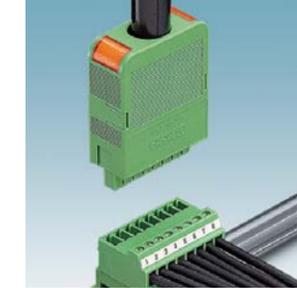
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Inverted headers, 3.81 mm pitch, horizontal and vertical plug-in direction
IMC(V) 1,5/...-G(F)-3,81 Page 238

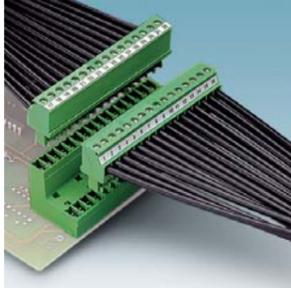


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Cable housing for screw plugs, 2-to-16-pos., 3.81 mm pitch
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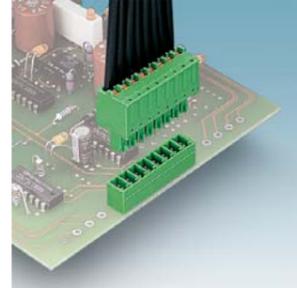
Plug-in connectors with 3.5/3.81 mm pitch with screw or push-in spring connection



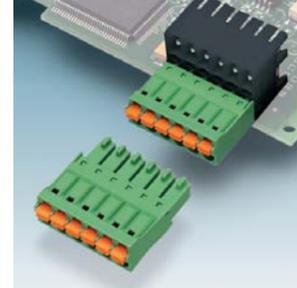
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Plugs with front connection, 3.81 mm pitch
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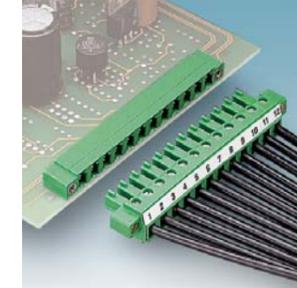


Plugs with push-in spring connection, 3.5/3.81 mm pitch
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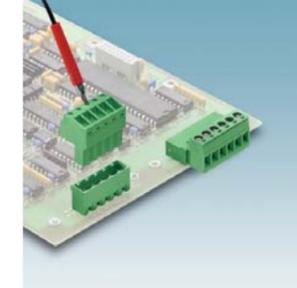


Plugs with push-in spring connection, 3.5/3.81 mm pitch, flat, compact design
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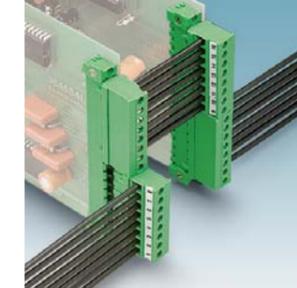
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Plugs with screw connection and headers, 5.08 mm pitch
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Plugs with screw connection, 5.0/5.08 mm pitch, with/without test connection
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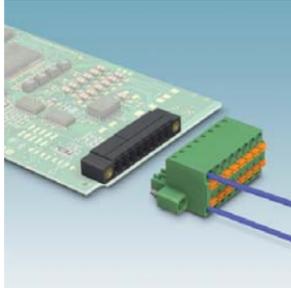


Plugs with screw connection, 5.0/5.08 mm pitch, plug-in direction 90° to the conductor axis
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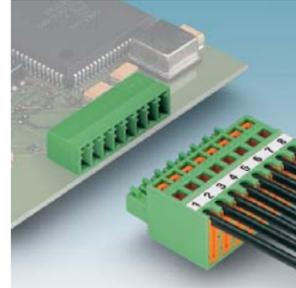


Plugs with front screw connection, 5.0/5.08 mm pitch
FRONT-MSTB 2,5/...-ST(F)-... Page 269

Plug-in connectors with 3.5/3.81 mm pitch and headers for reflow and wave soldering processes



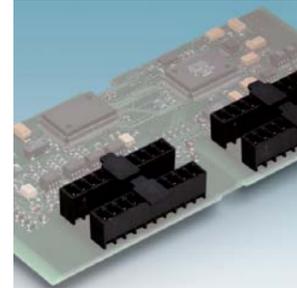
TWIN plugs with push-in spring-cage connection, 3.5/3.81 mm pitch, for potential distribution
TFMC 1,5/...-ST(F)-... Page 202



Plugs with IDC displacement connection, 3.81 mm pitch, connection cross section 0.5 mm²
QC 0,5/...-ST(F)-3,81 Page 204

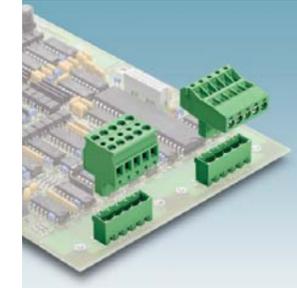


Plugs with crimp connection, 3.81 mm pitch, 1.0 mm² connection cross section
MCC 1/...-STZ(F)-3,81 Page 206

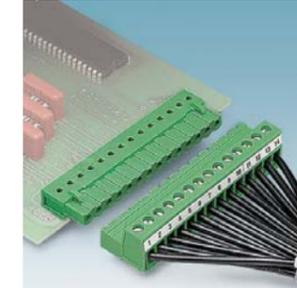


Reflow solderable headers, 3.5/3.81 mm pitch, horizontal and vertical plug-in direction
Page 208

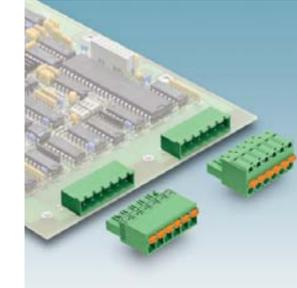
Plug-in connectors with 5.0/5.08 mm pitch with screw and push-in spring connection



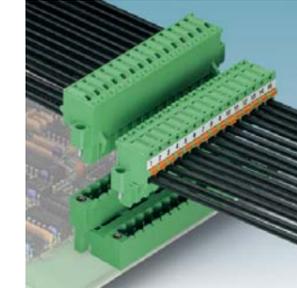
TWIN plugs, 5.08 mm pitch, for potential distribution
TMSTBP 2,5/...-ST(F)-5,08 Page 270



Inverted plug with screw connection, 5.08 mm pitch
IC 2,5/...-ST(F)-5,08 Page 272

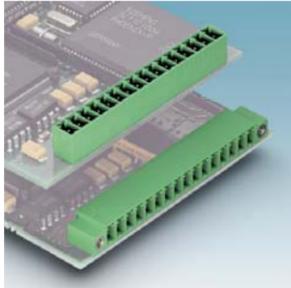


Plugs with push-in spring connection, 5.0/5.08 mm pitch
FKC(T) 2,5/...-ST(F)-... Page 274

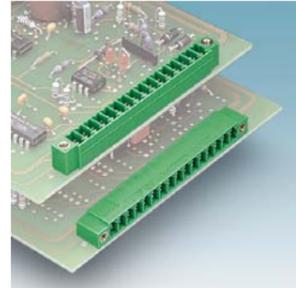


Plugs with push-in spring connection, 5.0/5.08 mm pitch, plug-in direction 90° to the conductor axis
FKCVR(W) 2,5/...-ST(F)-... Page 280

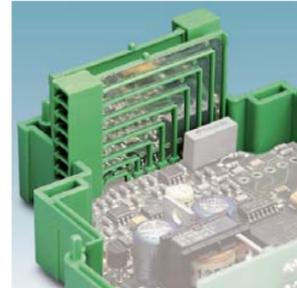
Headers with 3.5/3.81 mm pitch for press-in technology and wave soldering processes



Headers for press-in technology, 3.5/3.81 mm pitch, horizontal and vertical plug-in direction
EMC(V) 1,5/...-G(F)-... Page 222



Headers for wave soldering process, 3.5/3.81 mm pitch, horizontal and vertical plug-in direction
MC(V) 1,5/...-G(F)-... Page 224



Headers with 3.81 mm pitch with orthogonal plug-in direction
MCO 1,5/...-G-3,81 Page 231



Headers with 3.5 mm pitch with orthogonal plug-in direction
MCO 1,5/...-G1...-3,5 Page 232

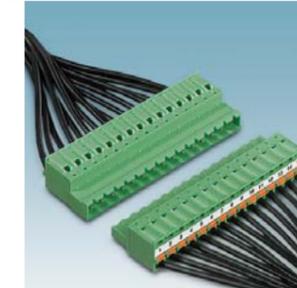
Plug-in connectors with 5.0/5.08 mm pitch with push-in spring or insulation displacement connection



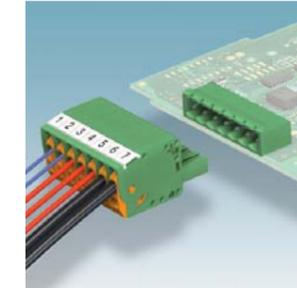
TWIN plugs with push-in spring connection, 5.0 mm pitch, for potential distribution
TVFKC 1,5/...-ST-5,0 Page 282



TWIN plugs with push-in spring connection, 5.08 mm pitch, for potential distribution
TFKC 2,5/...-ST-5,08 Page 284



Inverted plug with push-in spring connection, 5.0/5.08 mm pitch
FKIC 2,5/...-ST(F)-... Page 286

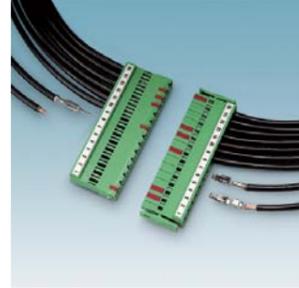


Plugs with IDC displacement connection, 5.0/5.8 mm pitch
QC 1,0/...-ST(F)-5,08 Page 290
QC 1,5/...-ST(F) Page 292

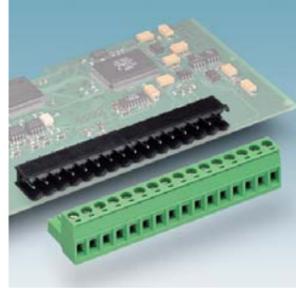
COMBICON control – plug-in connectors with 5.0/5.08 mm pitch with crimp connection and header



Plugs with crimp connection, 5.08 mm pitch
MSTBC 2,5/...-ST(Z)(F)-5,08 Page 294



Inverted plugs with crimp connection, 5.08 mm pitch
ICC 2,5/...-STZ(F)-5,08 Page 296

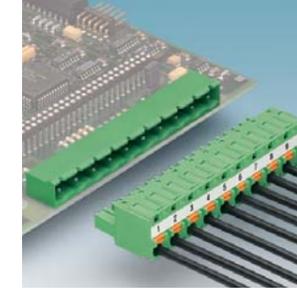


Reflow solderable headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction
CCA(V) 2,5/...-G(F)-... THR Page 298

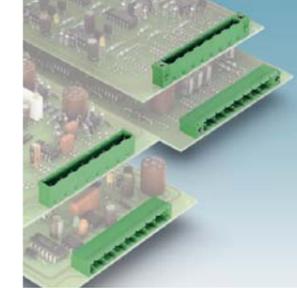


Reflow solderable headers, 5.0 mm pitch, with orthogonal plug-in direction
MSTBO 2,5/...-G1-5,0 THR Page 308

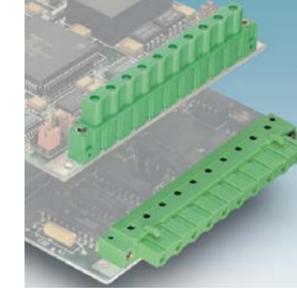
Plug-in connectors with 7.5/7.62 mm pitch with push-in spring-cage connection and headers with 7.5/7.62 mm pitch



Plugs with push-in spring connection, 7.5/7.62 mm pitch, plug-in direction parallel to the conductor axis
GFKC 2,5/...-ST(F)-... Page 340



Headers with 7.5/7.62 mm pitch, horizontal and vertical plug-in direction
GMSTB(V) 2,5/...-G(F)-... Page 342

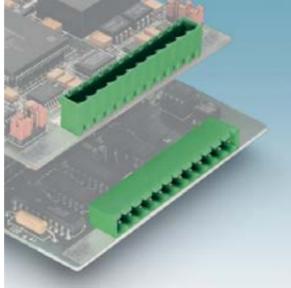


Inverted headers with 7.5/7.62 mm pitch, horizontal and vertical plug-in direction
GIC(V) 2,5/...-G(F)-... Page 346

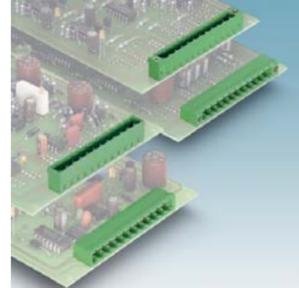


Cable housing for plugs with screw connection, 2- to 24-pos., 5.0/5.08/7.5/7.62 mm pitch
Page 348

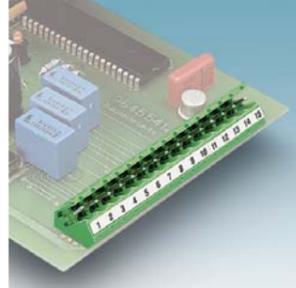
Headers with 5.0/5.08 mm pitch for press-in technology and wave soldering processes



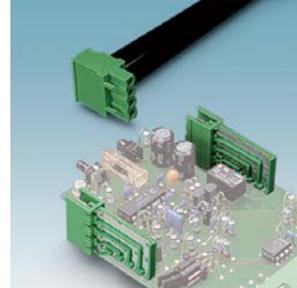
Headers for press-in technology, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction
EMSTB(V) 2,5/...-G(F)-... Page 310



Headers for wave soldering processes, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction
MSTB(V) 2,5/...-G(F)-... Page 312



Headers with 5.0/5.08 mm pitch, angled plug-in direction, with/without side panel
SMSTB(A) 2,5/...-G(F)-... Page 318

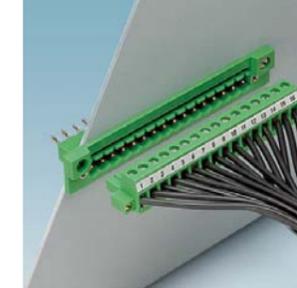


Headers with 5.08 mm pitch orthogonal plug-in direction
MSTBO 2,5/...-G-5,08 Page 320

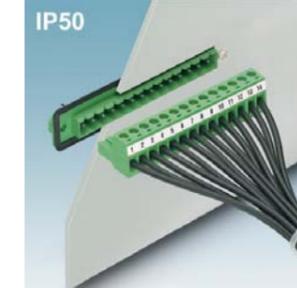
Plug-in connectors for panel feed-throughs and for direct mounting



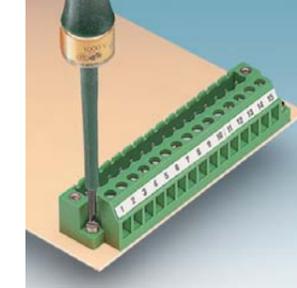
Feed-through assembly frames for inverted plug-in connectors, 5.08 mm pitch, with/without threaded flange
IC-DFR ? Page 350



Headers for panel feed-through, 5.0/5.08 mm pitch, with spade connection
DFK-MSTB 2,5/...-G(F)-... Page 352



Headers for panel feed-through, 5.08 mm pitch, with spade connection
DFK-MSTB(A) 2,5/...-G(F)-... Page 354

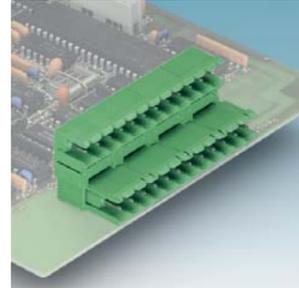


Plugs/headers with screw connection and screw flange for direct mounting
MSTBU 2,5/... Page 356

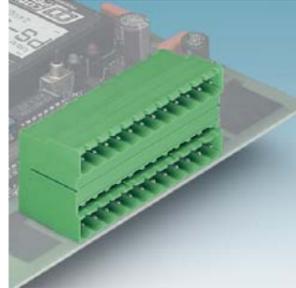
Headers with 5.0/5.08 mm pitch



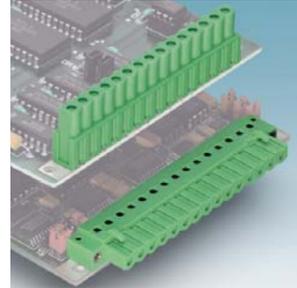
Headers with 5.0 mm pitch orthogonal plug-in direction, wave/reflow soldering processes
MSTBO 2,5/...-G1...-5,0 Page 322



Double-level headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction, with level offset
MDSTB(V) 2,5/...-G(F)-... Page 326

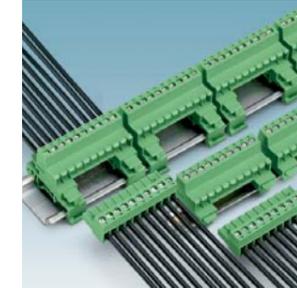


Double-level headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction, with level offset
MDSTB(V) 2,5/...-G1(F)-... Page 329



Inverted headers, 5.08 mm pitch, horizontal and vertical plug-in direction
IC(V) 2,5/...-G(F)-5,08 Page 332

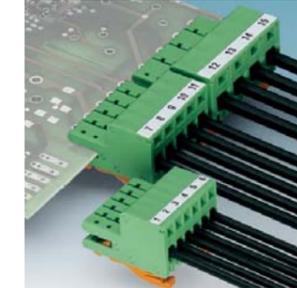
Plug-in connectors for DIN rail mounting, for direct contacting with PCBs and special designs



Inverted plugs for mounting on DIN rails, 5.0/5.08 mm pitch
Page 358



Plugs and headers for mounting on DIN rails, 5.08 mm pitch
Page 360

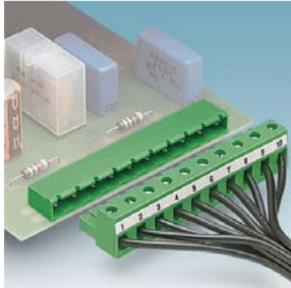


Direct plug-in connectors with spring-cage connection
ZEC 1,0/...-ST-3,5 Page 365
ZEC 1,5/...-ST-5,0 Page 365

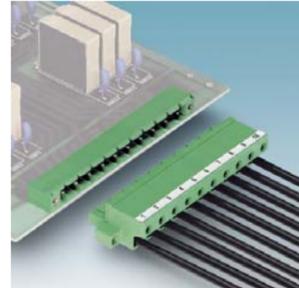


Plugs with screw connection, for D-SUB panel feed-throughs and headers
PSC 1,5/... Page 251

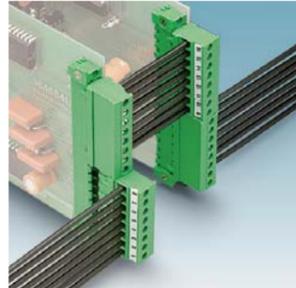
Plug-in connectors with 7.5/7.62 mm pitch with screw and push-in spring connection



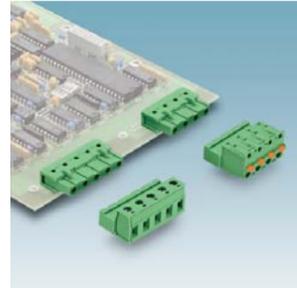
Plugs with screw connection, 7.5/7.62 mm pitch, plug-in direction parallel to the conductor axis
GMSTB 2,5/...-ST(F)-... Page 334



Plugs with front screw connection, 7.5/7.62 mm pitch
FRONT-GMSTB 2,5/...-ST(F)-... Page 335

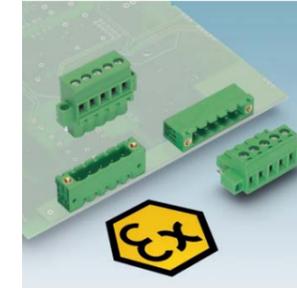


Plugs with screw connection, 7.5/7.62 mm pitch, plug-in direction 90° to the conductor axis
GMVSTBR(W) 2,5/...-ST(F)-... Page 336

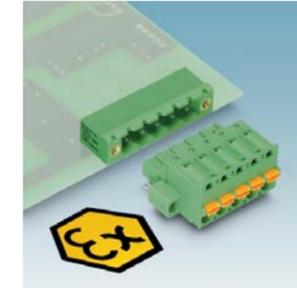


Inverted plug with screw and spring connection, 7.62 mm pitch
GIC 2,5/...-ST(GF)-7,62 Page 338
GFKIC 2,5/...-ST-7,62 Page 341

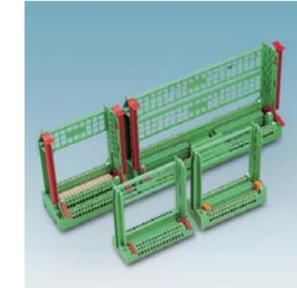
Plug-in connectors for the Ex area and plug-in card blocks



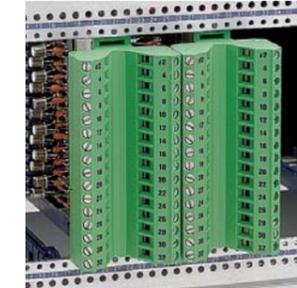
Plugs with screw connection and headers for the Ex area
Page 368



Plugs with push-in spring connection for the Ex area, 5.08/7.62 mm pitch
FKC 2,5/...-STF5,08 EX Page 371
GFKC 2,5/ 2-STF-7,62 EX Page 381



Plug-in card blocks for European-format cards with indirect connection
Page 776

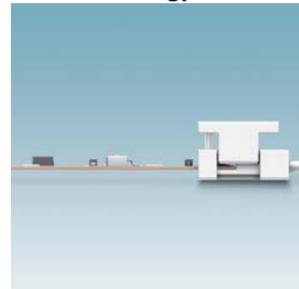


Socket strips with screw and spring-cage connection
Page 788

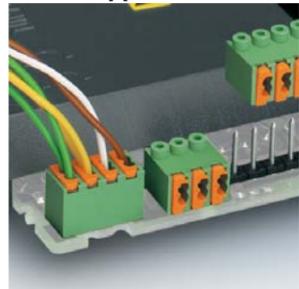
COMBICON compact - connection technology for buildings and LED applications



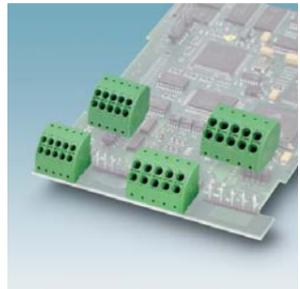
Miniature PCB terminal blocks and plugs
PTSM 0,5...THR Page 391
PTSM 0,5...SMD Page 53



Plug-in connectors for flexible PCBs
PTF 0,3... Page 401
PTPM Page 55



PCB terminal blocks and plugs with spring-cage double connection up to 2 x 0,5 mm²
FK-MPT 0,5-3,5 series Page 403

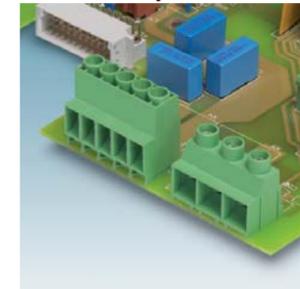


Angled pin strip plugs with spring-cage connection of 2 x 1,5 mm² and 2 x 2,5 mm²
PTDA series Page 407

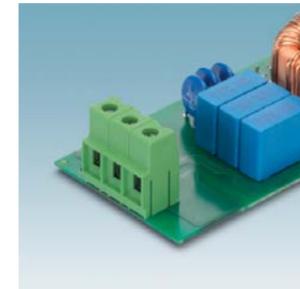
COMBICON power PCB terminal blocks up to 16 mm² with screw connection



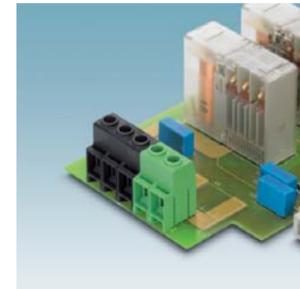
MKDS 5 series: screw connection, up to 32 A, 6.35/7.62/9.52 mm pitch
MKDS 5... Page 443



MKDS 5 HV series: screw connection, up to 41 A, 6.35 mm/9.52 mm pitch for 600 V UL
MKDS 5 HV... Page 445



MKDSP 10 series: screw connection, up to 76 A, 10.16/12.7 mm pitch with test connection
MKDSP 10... Page 451

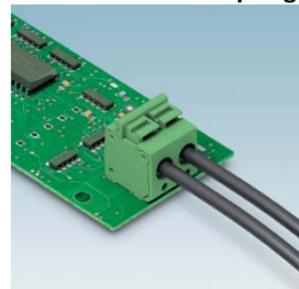


MKDS 10 HV series: screw connection, up to 76 A, 10.16 mm pitch for 600 V UL
MKDS 10... Page 451

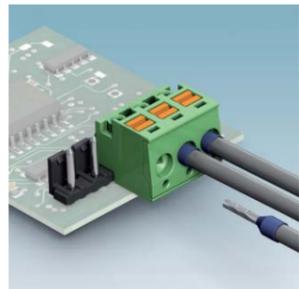
PCB terminal blocks and plug-in connectors with spring/screw connection



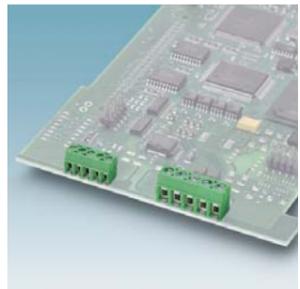
Angled PCB terminal block with spring-cage connection, 1,5 mm²
PTSA series Page 413



PCB terminal block with horizontal spring-cage connection
PTS series Page 415



Pin-strip plugs with spring connection
PTS 1,5/...-PH-5,0 Page 417

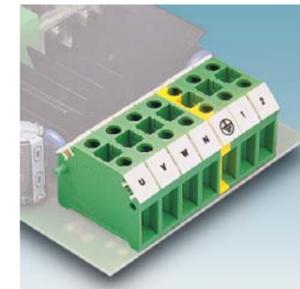


PCB terminal blocks with horizontal screw connection and conductor protection, 1,5 or 2,5 mm²
PT 1,5 series Page 419

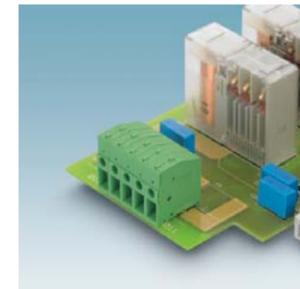
PCB terminal blocks up to 35 mm² with screw connection



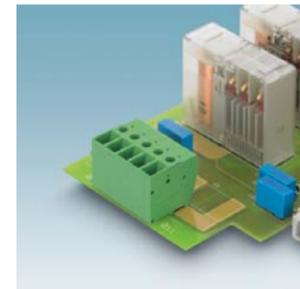
MKDSP 25 series: screw connection, up to 125 A, 15 mm pitch
MKDSP 25... Page 455



KDS 10 series: feed-through terminal block with screw connection, up to 76 A, 10 mm pitch
KDS 10/... Page 457

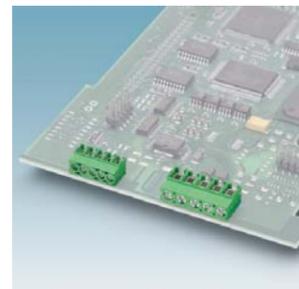


FRONT 4 series: front screw connection, up to 32 A, connection: horizontal, 6.35/7.62 mm pitch
FRONT 4 H... Page 459

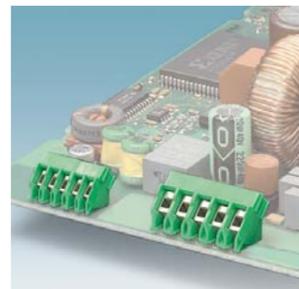


FRONT 4 series: front screw connection, up to 32 A, connection: vertical, 6.35/7.62 mm pitch
FRONT 4 V... Page 459

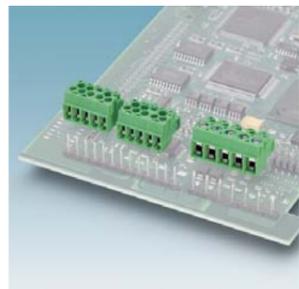
PCB terminal blocks and plug-in connectors with screw connection



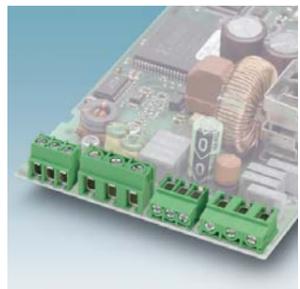
PCB terminal blocks with vertical screw connection and conductor protection, 3,5 mm pitch
PT 1,5 series Page 419



PCB terminal blocks with angled screw connection and conductor protection, 5,0 mm pitch
PTA 1,5 series Page 419

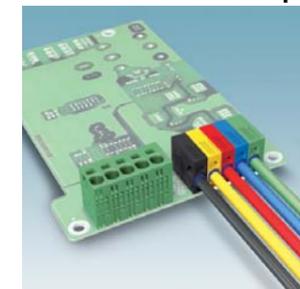


Pin strip plugs with screw connection and conductor protection clips, 1,5 or 2,5 mm²
PT 1,5/-PVH/PH series Page 423



PCB terminal blocks with screw connection and conductor protection clips, 4 mm²
PT 2,5 series Page 427

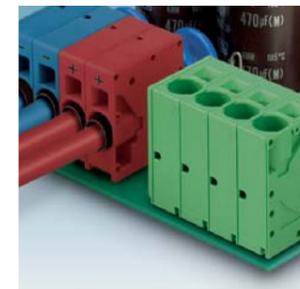
PCB terminal blocks up to 16 mm² with push-in spring connection



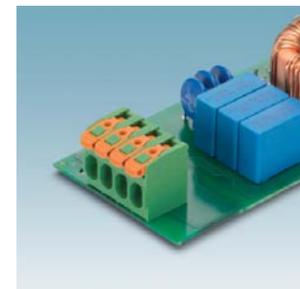
SPT 5 series: push-in spring connection, up to 41 A, connection: vertical and horizontal, 7,5 mm pitch
SPT 5... Page 463



PTSP 6 series: push-lock spring connection, up to 41 A, without insulating body
PTSP 6... Page 475

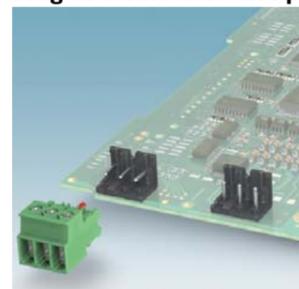


SPT 16 series: push-in spring connection, 10 mm pitch, up to 76 A, connection: vertical and horizontal
SPT 16... Page 467

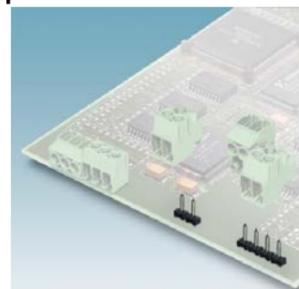


PLH-5 series: push-lock spring connection, Pitch 7,5 mm, up to 41 A connection: horizontal
PLH 5... Page 470

Plug-in connectors and pin strips



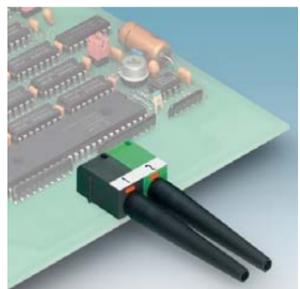
Multi-plug-in system with screw connection and base strips, up to 4 mm²
PT 2,5/...-PVH series Page 431



Vertical and horizontal pin strips for COMBICON compact plugs, reflow solderable
PST family Page 432

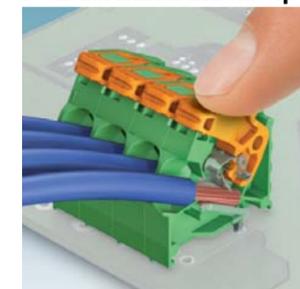


Reflow solderable pin strips in machine-capable tape-on-reel packing
PST tape-on-reel packing Page 433

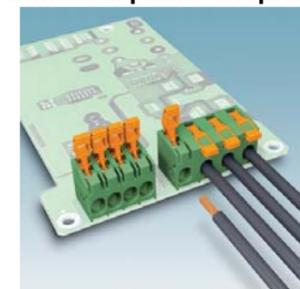


FO fast connection PCB terminal blocks for polymer fibers
FOPT 2,2-T/R Page 436

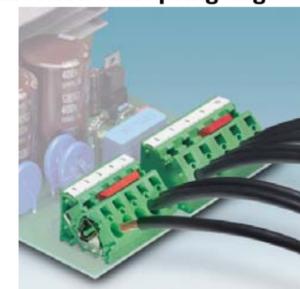
PCB terminal blocks up to 16 mm² with push-lock spring connection and spring-cage connection



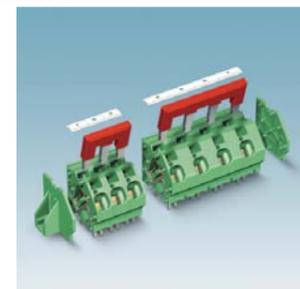
PLH 5 series: push-lock spring connection, 7,5 mm pitch, up to 41 A, connection: 30° to PCB
PLH/A 5... Page 470



PLH 16 series: push-lock spring connection, 10/15 mm pitch, up to 76 A, connection: horizontal
PLH 16... Page 473

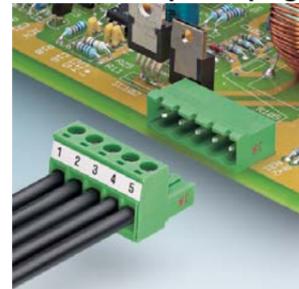


ZFKDS 4 series: spring-cage connection, up to 32 A, 7,5/10 mm pitch
ZFKDS 4... Page 477

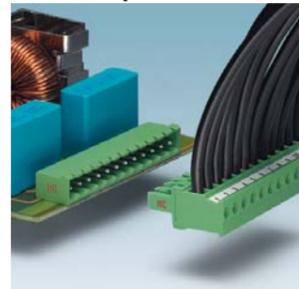


ZFKDS 10 series: spring-cage connection, up to 76 A, 10/15 mm pitch
ZFKDS 10... Page 479

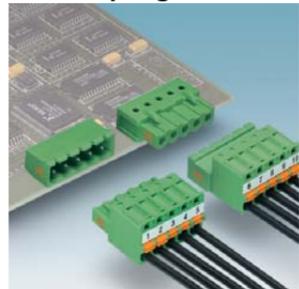
COMBICON power plug-in connectors up to 2.5 mm² with screw and spring connection



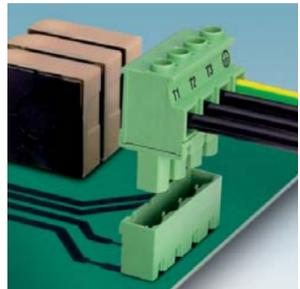
HC series: screw connection, up to 16 A, 5/5.08 mm pitch
MSTB 2,5 HC... Page 490



HC series: screw connection, vertical connection direction, up to 16 A, 5/5.08 mm pitch
MVSTBR(W) 2,5 HC... Page 492

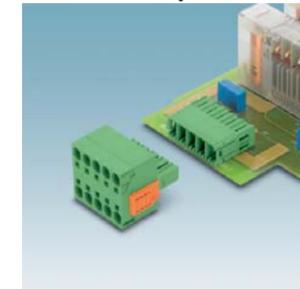


HC series: spring connection, up to 16 A, 5/5.08 mm pitch
FKC 2,5 HC... Page 494

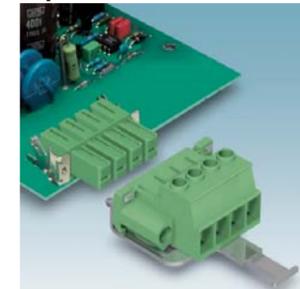


HV series: vertical connection direction, screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GMVSTBR/W 2,5 HV... Page 500

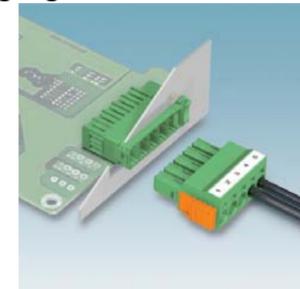
COMBICON power connectors up to 6 mm² screw and spring-cage connection



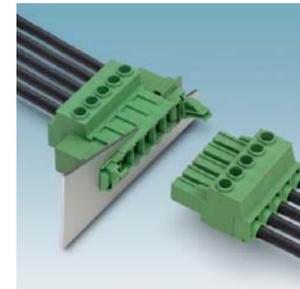
PC 5 series: plugs with double spring connection, up to 41 A, 7.62 mm pitch
TSPC 5... Page 532



PC 5 series: plugs/headers with EMC shield connection, up to 41 A
PC 5...SH... Page 525

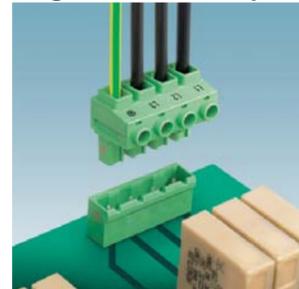


PC 5 series: feed-through headers, solder connection, up to 41 A
DFK-PC 5... Page 544



PC 5 series: feed-through headers, screw connection, up to 41 A
DFK-PC 5... Page 544

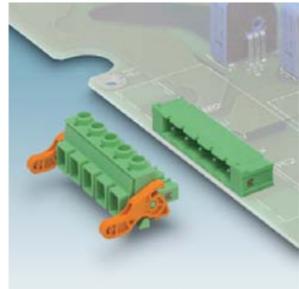
Plug-in connectors up to 2.5 mm² with screw and spring connection



HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GMSTB 2,5 HCV... Page 502



HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GIC 2,5 HCV... Page 503



HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GMSTB 2,5 HCV L&R... Page 503

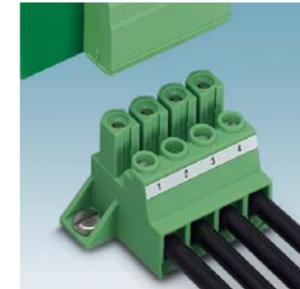


HC series: screw connection, up to 16 A, housing terminal, 600 V UL
GMSTBT 2,5 HV... Page 508

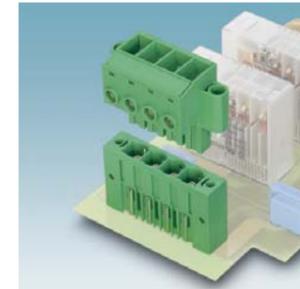
Plugs up to 16 mm² screw connection



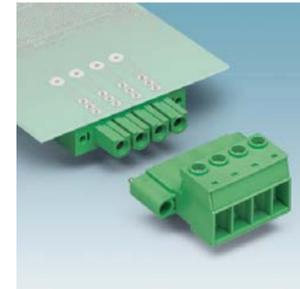
PC 6 series: plugs/headers screw connection, up to 41 A, 10.16 mm pitch
PC 6/... Page 550



PC 6 series: plugs for direct mounting, screw connection, up to 41 A, 10.16 mm pitch
PCU 6/... Page 552

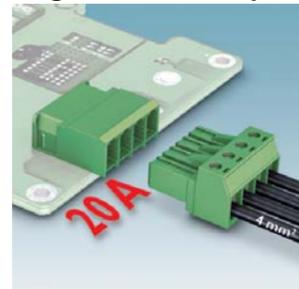


PC 16 series: plugs/headers screw connection, up to 76 A, 10.16 mm pitch
PC 16/... Page 554

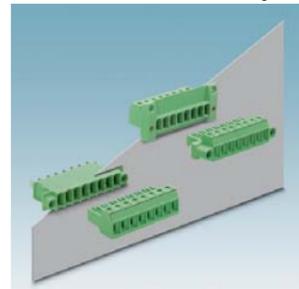


PC 16 series: inverted plugs/headers with screw connection, up to 76 A, pitch 10.16 mm
IPC 16/... Page 558

Plug-in connectors up to 4 mm² with screw and crimp connection



PC 4 series: plugs/headers, screw connection, up to 20 A, 7.62 mm pitch
PC 4... Page 512



PC 4 series: feed-through plug screw or solder connection, up to 20 A, 7.62 mm pitch
DFK-PC 4... Page 518

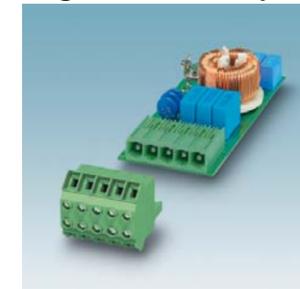


PC 4 series: plugs, crimp connection, up to 20 A
PCC 4... Page 514

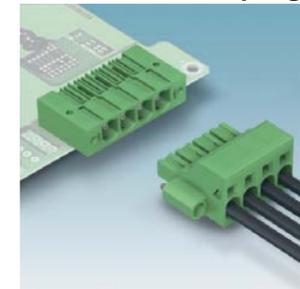


PC 4 series: cable housing for PC 4 plugs
KGG-PC 4/KGS-PC 4... Page 522

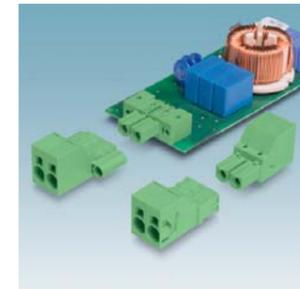
Plug-in connectors up to 16 mm² with screw and spring connection



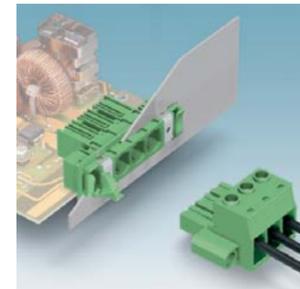
PC 16 series: plugs with double screw connection, up to 76 A, 10.16 mm pitch
TPC 16... Page 556



PC 16 series: plugs/headers with spring connection, up to 76 A, 10.16 mm pitch
SPC 16... Page 562

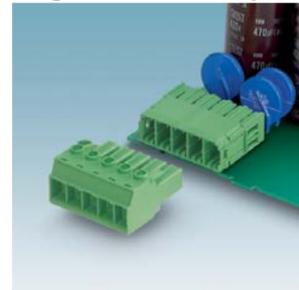


PC 16 series: inverted plugs/headers with spring connection, up to 76 A, 10.16 mm pitch
ISPC 16... Page 564

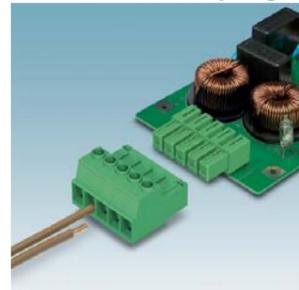


PC 16 series: feed-through headers, solder and screw connection, up to 76 A, 10.16 mm pitch
DFK-PC 16... Page 574

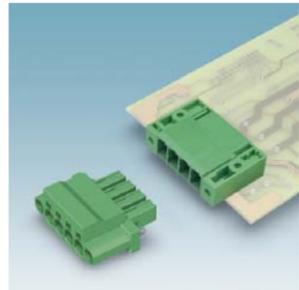
Plug-in connectors up to 6 mm² with screw and spring connection



PC 5 series: plugs/headers, screw connection, up to 41 A, 7.62 mm pitch, also Click & Lock
PC 5... Page 524



PC 5 series: inverted plugs/headers screw connection, up to 41 A, 7.62 mm pitch
IPC 5/... Page 526

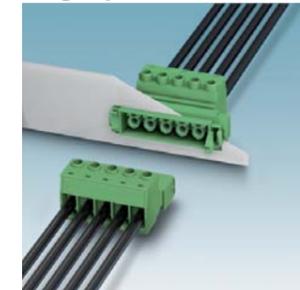


PC 5 series: plugs/headers, spring connection, up to 41 A, 7.62 mm pitch
SPC 5/... Page 530

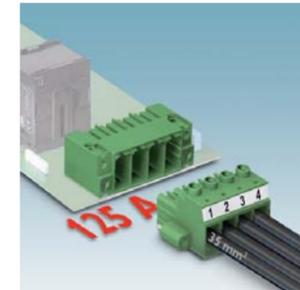


PC 5 series: inverted plugs/headers, spring connection, up to 41 A, 7.62 mm pitch
ISPC 5/... Page 544

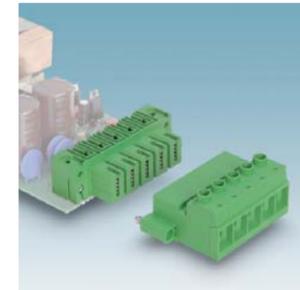
Plugs up to 35 mm² screw connection



PC 16 series: inverted feed-through headers, solder and screw connection, up to 76 A, 10.16 mm pitch
DFK-IPC 16... Page 578



PC 35 series: plugs/headers screw connection, up to 125 A
PC 35... Page 586



PC 35 series: inverted plugs/headers screw connection, up to 125 A
IPC 35... Page 588



PC 35 series: feed-through headers, solder connection, up to 125 A
DFK-PC 35... Page 593

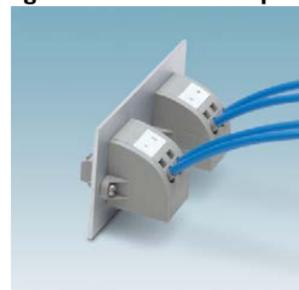
Product range overview

Product range overview

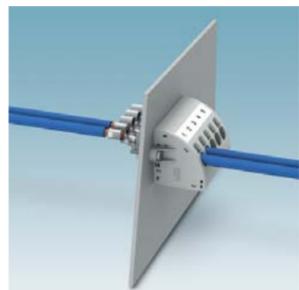
COMBICON power - feed-through terminal blocks up to 16 mm² with fast connection technology



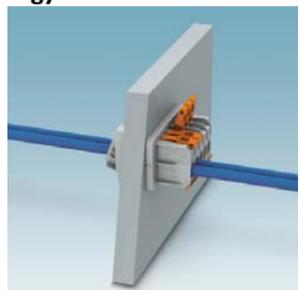
PW 4-POT series: push-in connection, up to 32 A with orange latch
PW 4-POT... Page 601



PWO 4-POT series: push-in connection, up to 32 A, without orange latch
PWO 4-POT... Page 603



PWO 16-POT series: push-in connection, up to 76 A, without orange latch
PWO 16-POT... Page 604



PLW 16 series: push-lock spring connection, up to 76 A outside lever, inside push-in spring
PLW 16... Page 605

Feed-through terminal blocks up to 35 mm² with screw connection



UW 4 series: screw connection, up to 41 A, connection: vertical and horizontal
UW 4... Page 607



UW 10 series: screw connection, up to 76 A, connection: vertical and horizontal
UW 10... Page 610



UW 16 series: screw connection, up to 101 A, connection: vertical and horizontal
UW 16... Page 612

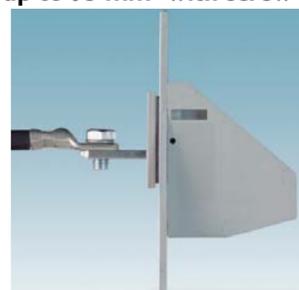


UW 25 series: screw connection, up to 125 A, connection: vertical and horizontal
UW 25... Page 614

Feed-through terminal blocks up to 95 mm² with screw connection



HDFK 50 series: screw connection, up to 150 A, connection: vertical and horizontal
HDFK 50... Page 617



HDFK 50-VP/HDFK 95-VP series: screw connection, up to 232 A, molded terminal blocks
HDFK 50...VP... Page 619



HDFK 95 series: screw connection, up to 232 A, connection: vertical and horizontal
HDFK 95... Page 619



HDFK..TWIN series: screw connection, up to 125 A, two conductors - one potential
HDFK...TWIN Page 623

High-current feed-through terminal blocks up to 150 mm² with bolt connection



RW 5 series: bolt connection, up to 76 A, connection: vertical and horizontal
RW 5... Page 624



RW 8 series: bolt connection, up to 125 A, connection: vertical and horizontal
RW 8... Page 626



RWO 10 series: bolt connection, up to 150 A, terminal open
RWO 10... Page 636

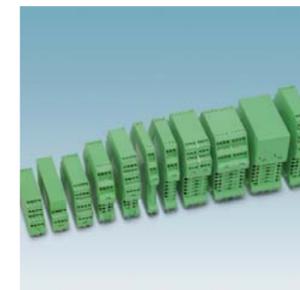


RWO 10-TC series: bolt connection, up to 150 A, terminal transparent cover
RWO 10-TC... Page 637

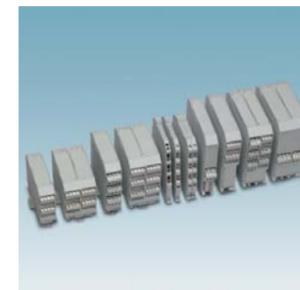
Housing



Customer-specific housing solutions including connection technology Page 648



ME... component housings, Space-saving design with many additional functions Page 652



ME MAX... component housings Large PCB surface yet compact dimensions Page 678



BC... installation component housings, Housings for installation distributors according to DIN 43880 Page 694

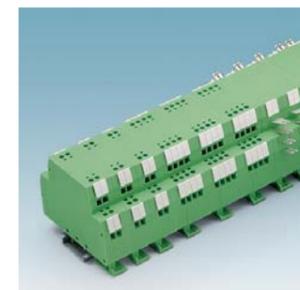
Housing



EMG.... component housings DIN rail-mountable housings in fine type scaling Page 708



EG... component housings Receptacle housings for multiple PCB arrangements Page 718

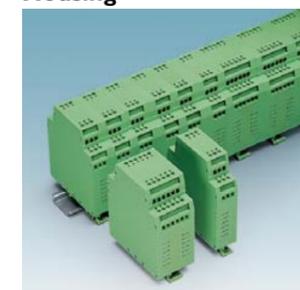


UEG... component housings Shell housing with variable connection methods Page 722



UEGM... component housings Shell housing with variable connection methods Page 724

Housing



UEGH... component housings Shell housings with two levels and variable connection technologies Page 726



ME PLC... component housings Multifunctional housings for intelligent electronics Page 732



CM... component housings Rugged housing range for rail-mountable power electronics Page 736



EFG 45 component housings Half-shell housing with front plates for complex electronics Page 738

Housing



UM-ALU... panel mounting bases Rugged profile housings for the control cabinet Page 742



UM-PRO... panel mounting bases Profile housings for flexible electronics development Page 748



UM... panel mounting bases Profile housings for individual PCB dimensions Page 754



HC-ALU... Dust-tight and watertight handheld housings Page 766

Connection of your choice

Whether you choose screw, spring or insulation displacement connection technology, Phoenix Contact always provides the highest level of quality.

You can choose the worldwide standard: the versatile screw connection. This connection method combines a large contact surface with high contact force and is a completely maintenance-free, easy, and gentle conductor connection.

Alternatively, you can also choose modern spring connection technology. Whether spring-cage or leg spring, both concepts ensure a high level of clamping reliability. In particular, leg spring systems with their short wiring times enable quick and easy connection without additional tools based on the push-in principle.

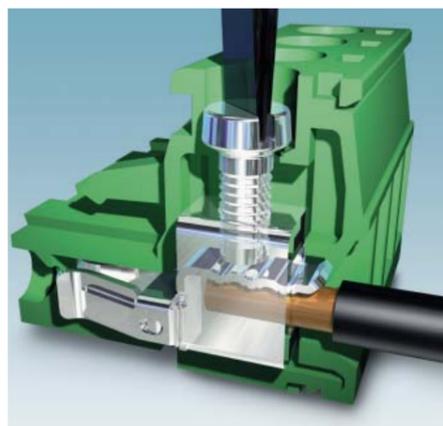
Looking for even faster wiring? Then choose the insulation displacement connection (IDC) method. The sophisticated insulation displacement or pierce connection technology ensures optimum and durable contacting.

Irrespective of whether you require a connection for signal, data or power cables, the COMBICON range offers the right terminal block for every application.

Furthermore, Phoenix Contact clamping parts are designed so that all Class 5 copper conductor types can be clamped without pretreatment.

The following pages provide an overview of the existing connection technologies and their advantages.

Screw connection with tension sleeve



Screw connection with tension sleeve technology is the most widely used connection method. Maximum contact force per contact surface can be achieved irrespective of the conductor cross section. Long-term stable connections can be achieved using special high-grade copper alloys, even under difficult conditions (e.g., in aggressive atmospheres). This ensures a gas-tight contact point and permanently low contact resistance. The integrated screw locking system (Reakdyn principle) prevents the loosening of the connection.

Customer benefits:

- The flat clamping part base ensures that even the thinnest connecting conductors are safely clamped (zero clamping).
- Transverse grooves in the current bar ensure that oxide film on the conductor is broken, and they provide a wrench-proof connection, which ensures good contact conditions.

Areas of application:

- Applications that require high contact reliability in industrial environments

Push-in connection



The leg spring enables quick, tool-free connection of conductors. The solid conductor or a fine-strand conductor with ferrule is simply inserted into the push-in terminal point and pressed against the current bar by the leg spring.

It is only when fine-strand conductors without ferrules are connected and when this connection is released that it is necessary to actuate the opening lever, which is a feature of these terminal blocks.

Customer benefits:

- Fast connection by means of direct plug-in technology - "push-in"
- Easy operation thanks to color-coded actuating lever
- No tools required
- Compact design

Areas of application:

- Fast wiring in the field where intuitive operation is an advantage

Spring-cage connection



Spring-cage technology enables easy connection without the need for special tools and conductor pretreatment. This spring is opened via the actuation shaft using a screwdriver and the conductor is inserted into the spring-cage via the separate conductor shaft. When the tool is removed, the spring then pulls the conductor against the power rail. This connection can be released in the same way.

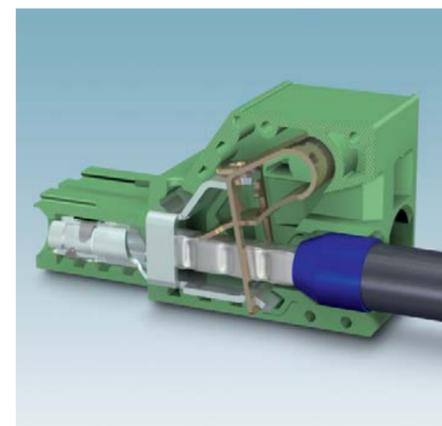
Customer benefits:

- No conductor pretreatment required
- High level of contact reliability for industrial applications
- Universally used connection technology
- Time savings compared to screw connection

Areas of application:

- Fast connection technology for electronic devices

Push-in spring connection



The push-in spring combines the advantages of the leg spring with those of spring-cage technology, thereby enabling conductor connection without additional tools by means of direct plug-in technology. In addition, the fixed, predefined cage of the combined springs prevents the conductor from slipping sideways.

Therefore, the push-in spring enables, in particular, the tool-free connection of large conductor cross sections with moderate force.

Customer benefits:

- Fast connection by means of tool-free direct plug-in technology - "push-in"
- User-friendly thanks to the protection against operating errors
- Large conductor cross sections can be connected with moderate force

Areas of application:

- Compact device connection of large conductor cross sections for fast wiring in the field.

Push-lock spring connection



The push-lock spring enables easy and tool-free conductor connection with or without ferrules by means of the "one-hand tilting lever principle".

Simply insert the solid or stranded conductor in the open terminal point and connect it reliably by actuating the tilting lever via the push-lock spring. Alternatively, conductors can also be inserted directly when the lever is closed by means of the push-in method.

Customer benefits:

- Quick and easy connection by means of the "one-hand tilting lever principle" or direct plug-in technology - "push-in"
- No conductor pretreatment required
- Intuitive operation thanks to color-coded actuating lever
- Tool-free

Areas of application:

- Fast, easy-maintenance connection technology for the internal wiring of electronic devices and in the field.

Front screw connection



COMBICON front screw connection with pressure clip technology is a space-saving connection system from Phoenix Contact.

In the case of the COMBICON front connection, cable routing and actuation of the terminal block screw are on the same level.

Reliable clamping of the conductor is ensured by the force-increasing swiveling movement of the angled pressure plate, which is supported in the robust clamping part pocket such that it can swing freely and presses the conductor against the power rail.

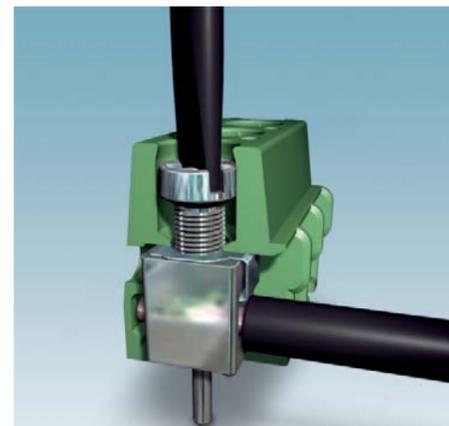
Customer benefits:

- Cable routing and actuation of the terminal block screw are on the same level
- Flush cover for installation on the front of devices

Areas of application:

- Particularly suitable for PCB racks and narrow device fronts

Screw connection with wire protector



COMBICON compact with wire protector technology is the PCB terminal block and plug-in connector range from Phoenix Contact for semi-industrial applications. Therefore, the same quality requirements are placed on the COMBICON compact product range as those for the industrial COMBICON product range.

However, the PCB connection technology of COMBICON compact has been greatly simplified in some areas and adapted to the conditions of building automation.

Customer benefits:

- Highly flexible wire protector
- Large rectangular clamping spaces
- Suitable for terminal connections up to a conductor cross section of 4 mm²

Areas of application:

- Building automation, safety technology, telecommunications, etc.

Insulation displacement connection (IDC)



Reliable contacting using IDC (insulation displacement connection) connection technology is achieved by inserting the conductor into the specially designed cutting metal.

This method centers the conductor and cuts open the insulation in the cutting zone, thereby creating a reliable connection between the conductor and cutting metal. This connection technology is suitable for cables with PVC and PE insulation.

Eliminating cable preparation, such as stripping and the fitting of splicing protection, results in significant time savings of up to 60% compared to conventional connection technologies.

Customer benefits:

- Particularly time-saving connection technology
- Stripping and the fitting of splicing protection is not required
- No special tools required

Areas of application:

- Installation applications where a variety of conductors with similar cross sections must be connected in a short amount of time.
- Field installation, since only minimal tools are needed for connection and conductor pretreatment is not required.

Crimp connection



The crimp connection method enables fast, cost-effective connection for cables that have to be assembled in large volumes.

The wire/crimp contact connection is established using crimping pliers or a crimping machine.

Taped crimp contacts are available for fully automated processing.

The crimp plugs in the various plug-in connector series can be used in combination with virtually all headers.

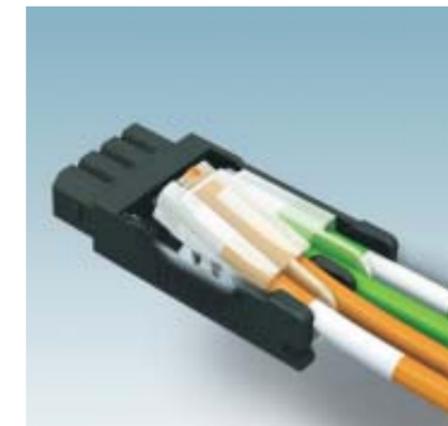
Customer benefits:

- Variable production run startup thanks to fully or semi-automatic machine
- High tensile strength for the connection
- Low contact resistance
- Easy production monitoring
- High resistance to ambient conditions, vibration, and shock

Areas of application:

- Crimp connections are the ideal connection system for harsh ambient conditions, such as extreme temperature change, vibration and shock, and aggressive atmospheres.

Pierce connection



Pierce connection is a reliable connection technology that does not require conductor pretreatment. Contact is made by inserting the conductors in the corresponding guide in the transparent cover of the plug-in connector. When the cover is closed, the pierce contacts pierce through the conductor insulation and so ensure a durable conductor connection.

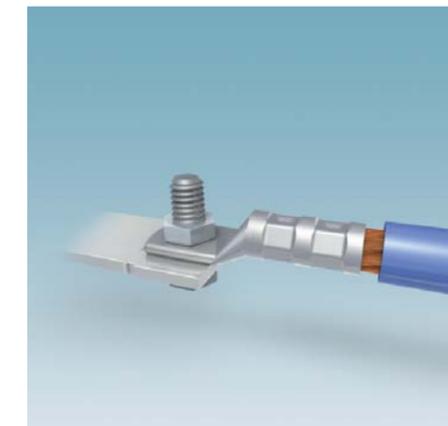
Customer benefits:

- Time-saving connection technology
- Stripping and the fitting of ferrules is not required
- No special tools required
- Conductors can be easily released by opening the cover

Areas of application:

- Easy field installation, since conductor pretreatment and special tools are not required.

Bolt connection



Bolt connection technology has been developed with a robust design and for the convenient wiring of ring cable lugs.

The ring cable lug is simply placed on the bolt and secured in place with the nut. The captive nut is connected to a hinged cover flap. This means that ring cable lugs can be connected quickly and easily.

The integrated screw locking in the form of a spring retainer guarantees safe use, even in applications which are subject to shock and vibration.

Customer benefits:

- Quick and easy ring cable lug wiring
- Conductors up to 150 mm² can be wired securely and with long-term stability
- Easy multi-conductor connection, up to four cable lugs can be connected per bolt

Areas of application:

- Applications which require ring cable lugs to be connected quickly and easily

Corrosion-resistant metal parts

We believe that high-quality terminal blocks must be designed to enable the consistent use of corrosion-resistant materials and surface systems. Naturally, Phoenix Contact uses high-grade corrosion-resistant copper alloys and high-grade Cr(VI)-free processed steel parts as standard for its PCB terminal blocks and plug-in connectors. This eliminates the possibility of electrolytic corrosion due to humidity and the risk of rusting and its consequences, i.e., unreliable electrical contacts and/or jammed screws.

Metallic contact surfaces are used to protect components against corrosion and environmental influences and to ensure their mechanical and electrical function. In order to achieve this, the layers must comply with the RoHS and WEEE EC Directives. The selection of the contact system surface must balance the technical requirements, such as the current carrying capacity, contact resistance, resistance to environmental influences, with the cost-effectiveness of the solution.

Tin-plated contact system



Tin layers are the most commonly used surfaces in contact systems for PCB connections from Phoenix Contact. They are used for the soldering and/or contact surface. For plug-in contacts, reliable

contacting can be achieved at higher voltages and currents (> 20 mV; > 100 mA). Tin-plated plug-in connections have a slightly higher contact force than gold-plated contact systems. This results in gas-tight contact zones with low contact resistance in combination with the relatively soft tin.

With regard to solder contacts, tin surfaces are particularly suitable for soldering applications due to the relatively low melting point of tin and its compatibility with tin-based solders. Phoenix Contact uses a nickel resistive layer to prevent the normal tendency of tin to initiate an intermetallic reaction with base materials such as brass or bronze. This ensures the long-term quality of the surface (soldering capability after storage) and also prevents whisker growth in the long term.

Silver-plated contact system



Due to their very high level of conductivity even at higher currents, silver layers are particularly suitable for use as contact surfaces. Phoenix Contact uses this surface system accordingly in plug-in

connectors, e.g., for high-current applications (COMBICON power). Silver-plated surfaces are also characterized by their low contact force and high insertion/withdrawal cycles.

Gold-plated contact system



Due to their noble electrochemical characteristics, gold layers are especially resistant to corrosion from a wide range of aggressive substances. This means that gold surfaces are not affected by oxidization, which allows low contact-normal forces to be applied to ensure electrical function. With these characteristics, gold surfaces are ideal for low voltages and currents (< 3 mA; < 20 mV) and durable surfaces with > 100 insertion/withdrawal cycles.

COMBICON direct plug-in technology

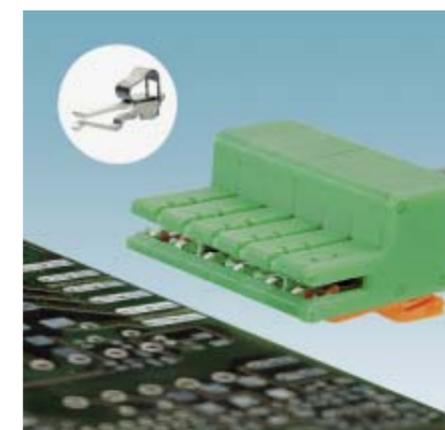
Plug-in contact directly with the PCB

Direct plug-in connectors in the ZEC 1, ZEC 1,5, and ZEC LPV product ranges make contact directly on the PCB without the need for additional pin strips. The plug-in connectors are simply inserted in the contact pads located on the edge of the 1.6 mm thick PCB. The pads have been integrated into the top and bottom of the PCB in the layout.

Direct plug-in connectors have a modular design. The plug-in connectors are therefore keyed by adding corresponding segments with a fixed side panel at any position. A slot is created in the PCB according to this position. This reliably prevents mismatching and polarity reversal of the plug.

Two spring-loaded engagement catches lock the plug-in connectors in place on the PCB. The interlocks engage in the correspondingly positioned holes on the PCB. Direct plug-in connectors are divided into two types:

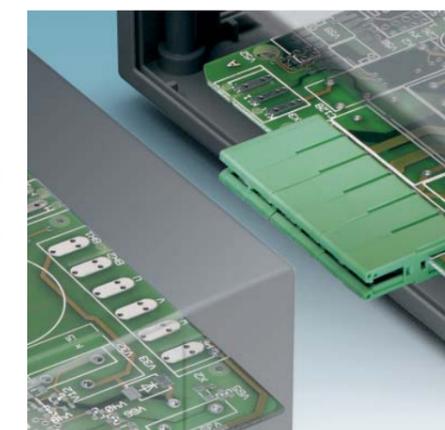
Conductor/PCB connection



The plug-in connectors in this product range are available with 3.5 mm, 5 mm, and 7.5 mm pitch (see page 365) for nominal voltages up to 400 V. Currents of up to 10 A can be transmitted via the solid contact springs.

The conductor connection uses spring-cage technology and is operated from the front by means of a screwdriver. The clamping space supports solid and stranded conductors up to 1.5 mm² (1 mm² with 3.5 mm pitch) with or without ferrules. The plugs are marked using SK 3,5/2,8, SK 5/3,8, and SK 7,5/3,8 self-adhesive marker cards (see page 796).

PCB/PCB connection



These plug-in connectors enable the direct connection of two PCBs. For example, if you want to connect a motor filter to a frequency converter, you just insert it. The external connection - the ZEC direct plug - then changes over to the add-on device. The device housing design must ensure that mechanical forces are absorbed.

Like the conductor/PCB connectors, PCB/PCB connectors are also available with 3.5 mm, 5 mm, and 7.5 mm pitch (see page 365) for nominal voltages up to 400 V and for currents up to 10 A. A modular housing structure combined with direct plug-in technology provides maximum flexibility.

Wave soldering

Wave soldering is the traditional mounting method for all push-through components on the PCB.

The method is described in detail in standards; for lead-free processes, the process requirements have since been redefined.

The user therefore has the task of harmonizing their process with the varied requirements of the respective assembly and bringing it in line with standards.

Standards

The qualification profiles described in the standards refer to limit profiles. These limit profiles are used to qualify the component; the requirements specified here are therefore always more demanding than the real conditions experienced in practice. PCB connection elements must usually be processed in accordance with: DIN EN 61760-1: surface mounting technology
Standard method for the specification of surface mounting components (SMDs) International version: IEC 61760-1: SURFACE MOUNTING TECHNOLOGY

Standard method for the specification of surface mounting components (SMDs)

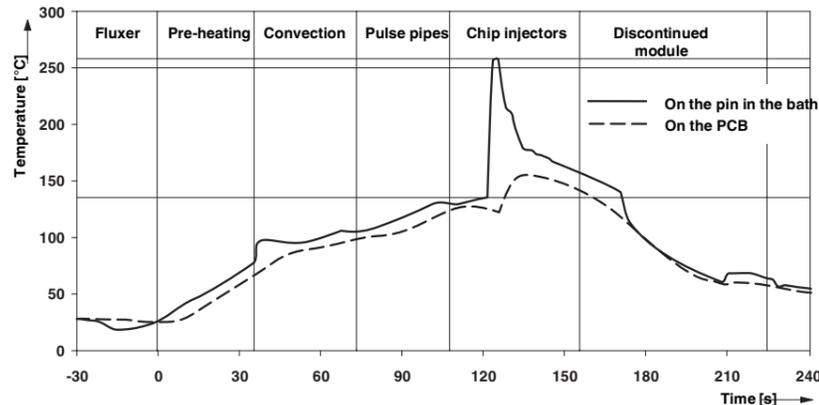
According to the profile, the maximum load on a solder pin is 260°C for 10 s in a double wave arrangement, however, it does not go into further detail regarding the geometrical conditions of the assembly. The heat input on the test object at a bath temperature of 260°C and 10 s depends on various factors, such as the thickness of the PCB, the number of layers, and the Cu content of the layers.

The area of application of the standards relates to SMD components; "push-through components" can therefore only be specified in accordance with these standards. However, the main advantage of these standards is that an adequate description of a wave soldering profile is provided, as used in standard modern soldering machines. This can also be used as a basis. In addition, PCB connection components must be soldered to SMD components, so that compliance with the requirements can be transferred.

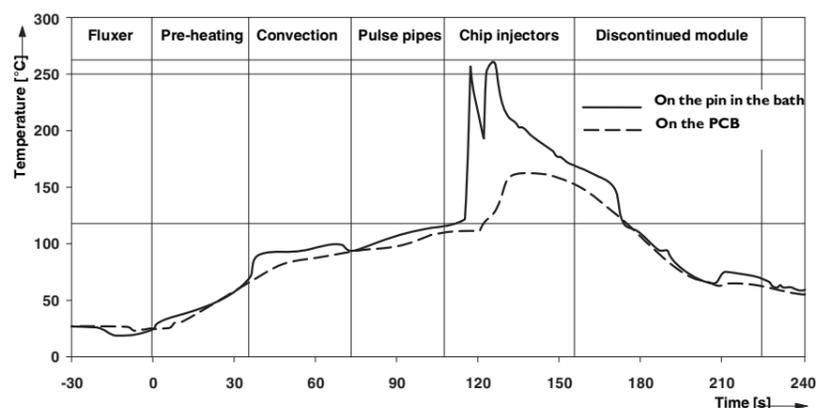
Practical implementation and recommendations

In practice, one would always try to solder at the lower limit of thermal loads. Solder bath temperatures are usually set to 265°C, however, for 95% of applications the maximum contact temperature and solder time are far below the values specified in the maximum profile above.

Below are two recommendations for practical profiles, which are used to qualify PCB connection elements from Phoenix Contact:



This profile is limited to a laminar wave at temperatures > 250°C for 3 seconds.

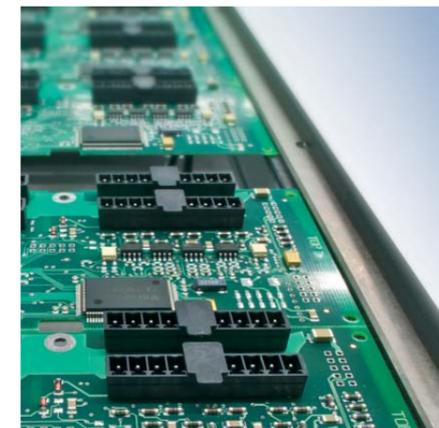


For this double wave, the maximum loads for both waves are > 250°C for 5 seconds in total.

The processability of lead-free wave-solderable components can be confirmed in accordance with the latest versions of standards DIN EN 61760-1 and IEC 61760-1. According to the profile, maximum soldering temperatures of

260°C for a maximum of 10 seconds apply. In exceptional cases, restricted temperatures and soldering times apply in the maximum peak range.

Through hole reflow soldering



The trend toward SMD components (surface mount devices) has continued in recent years.

Thanks to the use of cost-effective, fully automated processes with regard to solder paste printing, mounting components, and soldering, production on SMT lines represents a cost-effective and fast production process. This has directly resulted in a growing desire to integrate as many of the remaining wired components as possible into this production process.

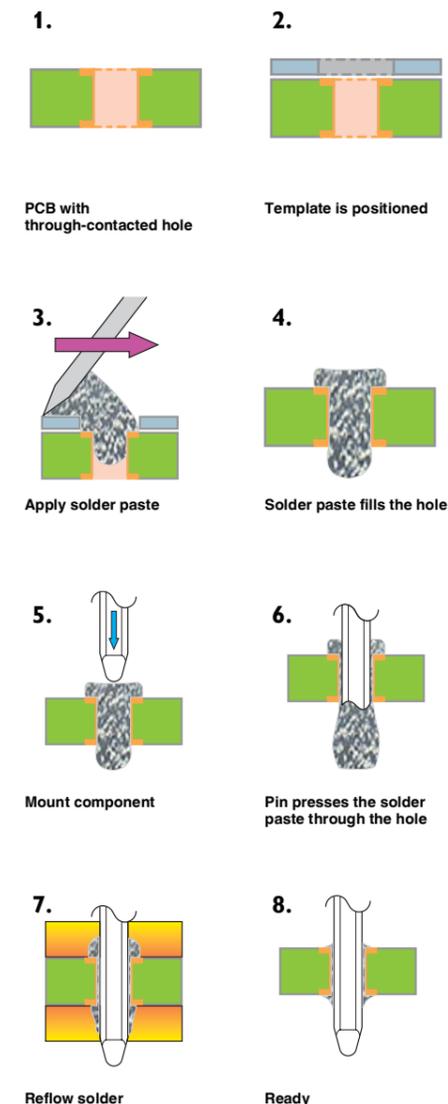
This trend-setting technology is known as through hole reflow (THR) technology and describes a method for mounting wired components on the PCB. It involves the through hole mounting of components within the mounting process in conjunction with the reflow soldering process. This is a technology developed for fully automated processes in SMT production.

The aim of this technology is to integrate through hole components into the SMT process. Both SMD and THR components should be processed using the same process equipment, the same method, under the same conditions.

The "pin-in-paste" method

The "pin-in-paste" method takes the typical steps of an SMT production process and applies them to a PCB with through-contacted holes. The functional principle of this procedure is now considered an acknowledged method. With the right component geometry, soldering material, and process parameters the results that can be achieved are very favorable.

Basic method of operation: sequence of the "pin-in-paste" method.



Requirements for THR components

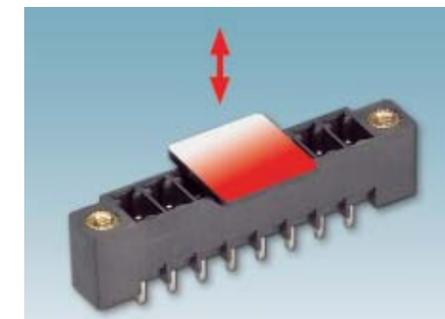
The integration of THR components in the SMT process requires the appropriate selection of materials (plastics as well as metal parts/surfaces) as well as adaptation of the geometry (e.g., suction surfaces, clearance around the soldering spot). In addition, machine-capable packaging (tape/tray) is required. The key requirements are described below:

It should be possible for THR components to be picked up by the mounting head of a machine without the use of any special grippers or special pipettes.



Component on the mounting head

Smooth and even suction areas are required for this. If these are not present or are too small, the component must be fitted with special pick-and-place pads.



Suction areas

Mounting types

Mounting types

Requirements for THR components

THR components must have sufficient clearance around the solder pins on the bottom of the component. In addition, stand-offs must be used. These ensure that contact is prevented in the soldering process with the solder paste prior to soldering as well as between the solder meniscus and housing parts. In addition, the heat supply is not impeded during soldering.



Clearance around pins

The soldering method and the type of soldering process should also be taken into consideration when selecting the right solder pin lengths. In general, shorter pins are recommended in lead-free processes and especially in the vapor phase process due to the significant change in solder paste parameters. Paste loss is thereby prevented. This means that pins that protrude only slightly from the base of the PCB must be used. Alternatively, very short pins should be used that no longer fully penetrate the PCB.

Pin length (standards)	THR convection/THR vapor phase
1.4 mm	Optimum soldering. No projecting pin on 1.6 mm PCBs. Limited inspection.
2.0 mm	Optimum soldering. 0.4 mm projecting pin on 1.6 mm PCB.
2.6 mm	Optimum soldering. 1 mm projecting pin on 1.6 mm PCB.

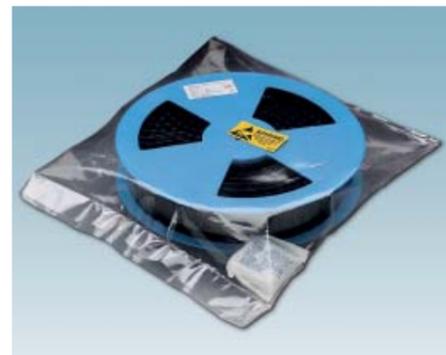
Qualification of THR components according to J-STD-020

The focus of qualification standard IPC/JEDEC J-STD-020 (Moisture/Reflow Sensitivity Classification for Non-Hermetic Solid State Surface Mount Devices) is the basic moisture absorption in plastics, which under the influence of the temperature of the reflow process can ultimately destroy the component through blistering, delamination or deformation.

Levels are defined which determine the type of packaging (e.g., dry bag) and processing in atmospheres typical for SMT processes depending on the component geometry and indirectly on the plastic selected.

The aim of this testing is to determine a moisture sensitive level (MSL) for each component, which is linked to corresponding specifications for processing in the SMT process.

For lead-free reflow solderable components, Phoenix Contact confirms processability in accordance with IPC/JEDEC J-STD 020 with specification of the relevant moisture sensitive levels for the product range.



Components in standard bag - MSL 1



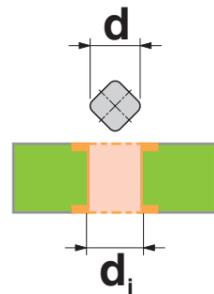
Components in dry bag - MSL 3

PCB layout

The use of THR technology requires modifications to the PCB layout. Choosing the right hole diameter ensures the return flow of the solder in the reflow process and that machine mounting is supported. If a suitable hole size is used, production tolerances are compensated and reliable mounting is possible.

As a rule of thumb, the following applies when determining a suitable hole diameter:

$$d_i = d + 0.3 \text{ mm}$$

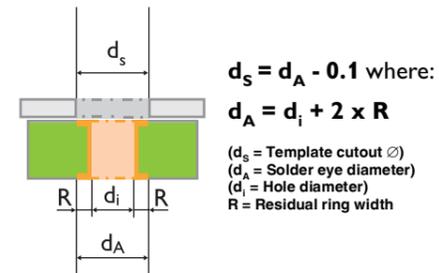


d = Diagonal of the square pin used
d_i = Inside diameter of hole

With regard to dimensioning the residual ring, the same requirements as for wave-soldered pads largely apply. Taking into consideration the air and creepage distances and the clearance below the component around the pin, the ring width should be between 0.2 and 0.5 mm. The potentially larger volume of paste on wider rings can have a positive effect on the soldering quality (meniscus formation).

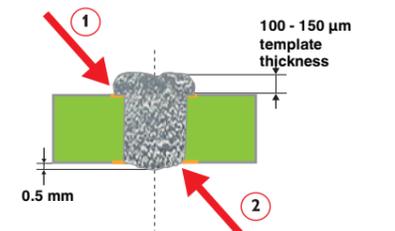
Solder paste printing

In the printing process, the solder paste is applied simultaneously for SMD components (surface mounting) and THR components (through hole mounting) to the pads/residual rings using a template. Templates with a thickness of 100 - 150 µm are currently used. The cutout in the template is usually calculated according to the following diagram:



The overprinting of solder paste on the solder resist is thereby avoided.

Under ideal conditions, paste printing yields the following results:



No overprinting required (1)
The solder paste is intentionally pushed through by up to 0.5 mm below the PCB (2)

Solder paste printing determines the appearance and quality of the soldering spot. When conditions are not ideal, there are various ways of controlling the quantity of solder paste:

- Spreader angle and spreader speed control the filling degree and amount of solder pushed through.
- The paste volume can be increased by means of overprint over the residual ring.
- Ridges in the template holes reduce the filling degree and amount of solder pushed through.

Mounting

There are significant cost advantages associated with integrating THR components in automated mounting with reflow processes.

However, due to their size and weight, THR components can usually only be mounted using pick and place machines. On the one hand this reduces mounting speeds (no loss of components) and on the other hand, a height of 25 - 40 mm is required for mounting components. Components are therefore picked up using standard vacuum pipettes.

The component is picked up at defined positions, it is then measured via the camera, and then placed on the PCB.



Component picked from the tape



Camera recording for component measurement



Component placed on the PCB

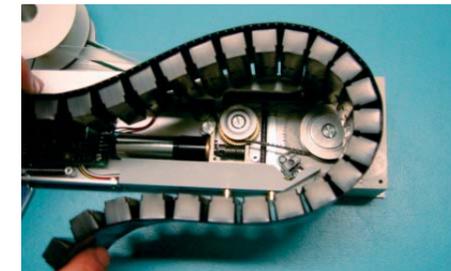
Mounting

Tape-on-reel packing is the most common way of supplying SMT and THR components.

For THR components, reels with the usual standard widths of 24/32/44/56/72 and 88 mm are used. Due to the component size, especially in the case of tall components, it must be ensured that the radius of the feeder is sufficient and there is enough space for input and output of the tape in the machine.



Tape-on-reel packing



Component too large for feeder system



Special type of pin strip in a tube



High-volume THR component in a tray

Mounting types

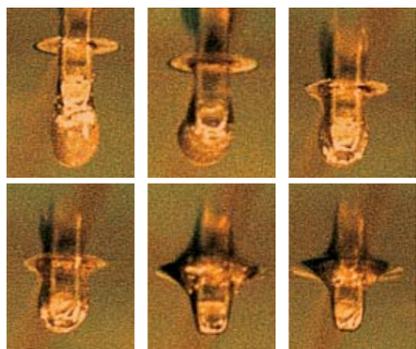
Mounting types

Reflow soldering process

After mounting the components, the solder in the form of a paste drop (matchstick head) is ready at the pin tip below the hole.



In the subsequent soldering process, the paste melts when the liquid temperature is reached and passes through the hole along the pin flank with the help of the capillary effect. In the subsequent cooling phase, part of the solder sinks below once again and forms the characteristic solder globule.



Modern SMD production mainly uses convection ovens with modern heat management with adjustable heating from above and below.

With regard to the THR technology, there are just a few model-specific limitations.

As a result vapor phase soldering ovens have been further developed in recent years. With its higher production bandwidth, this oven technology is gaining importance thanks to its "inline" production. One particular point should be noted when using THR components: the condensate that settles on the paste drop can make it run. This can be counteracted by selecting a shorter solder pin length.

Standards and soldering profile

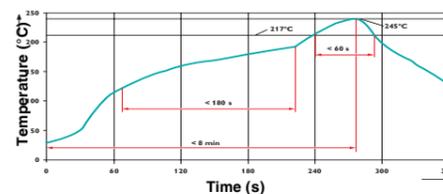
DIN EN 61760-3 applies for THR components. The reflow process is also described with temperature profiles according to standard DIN EN 61760-1 or also according to IEC 60058-2-58.

Standard IPC/JEDEC J-STD 20, previously described in the context of qualification, also contains corresponding profiles, which can be used as the basis for the relevant process profile.

Since the heat management of each individual board depends on a large number of factors (e.g., size and thickness of the board, component size, etc.), a direct profile cannot be specified for the use of THR components. Therefore recommendations can only be made based on the above standard profiles.

In practice, one would always try to solder at the lower limit of thermal loads. For widely used SnAgCu soldering alloys, common peak temperatures are between 235°C and 240°C.

Below is a recommended practical profile (component upper side):

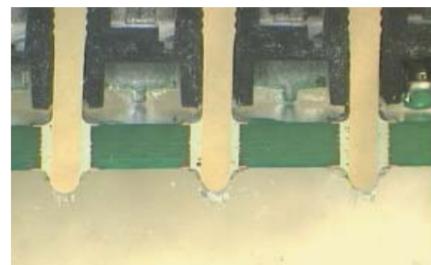


Lead-free reflow soldering profile (SnAgCu)

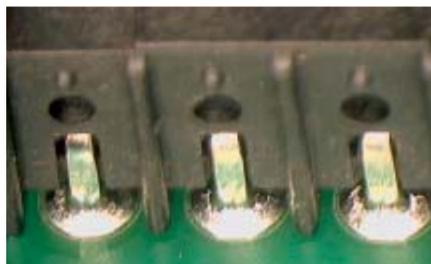
For lead-free reflow solderable components, Phoenix Contact confirms processability in accordance with IPC/JEDEC J-STD 020 with specification of the relevant moisture sensitive levels for the product range. In some cases, reduced maximum permissible "peak body temperature" is specified.

Inspection

Standard IPC-A-610 can be used for the inspection of THR soldering spots. The above parameters allow implementation of Class 3 soldering spots - products for maximum reliability. Through-contacting fill as well as the wetting of the solder globule surrounding are assessed:



Filling degree of at least 75% achieved. Small solder globules form on both sides.



Wetting of surrounding (at least 75%) on solder destination and solder source side both 360° or 100% (typical for THR process).

THR soldering spots have a shape that is very similar to that of soldering spots created during wave or selective soldering. The main difference is the shape of the solder globule. Since less solder is available for the process, the solder globules that are formed are smaller or not fully developed.

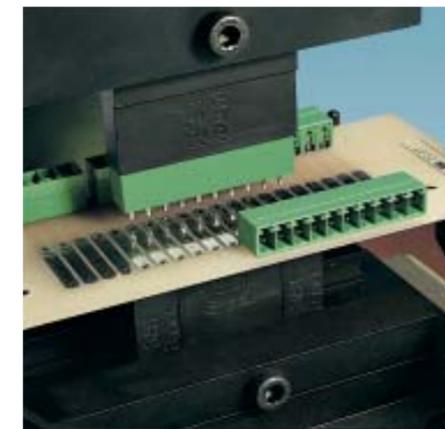
This special appearance must be discussed with the Quality Assurance department or taken into account when using automatic inspection systems (AOI).

COMBICON press-in technology

Solder-free PCB connection

This mounting type, which does not involve soldering, is characterized by low press-in and high holding forces. It is used in applications where PCBs must not be subjected to thermal loads or where ready-soldered SMD components are not permitted on the PCB. The elastic press-in zone ensures reliable contacting and low contact resistance.

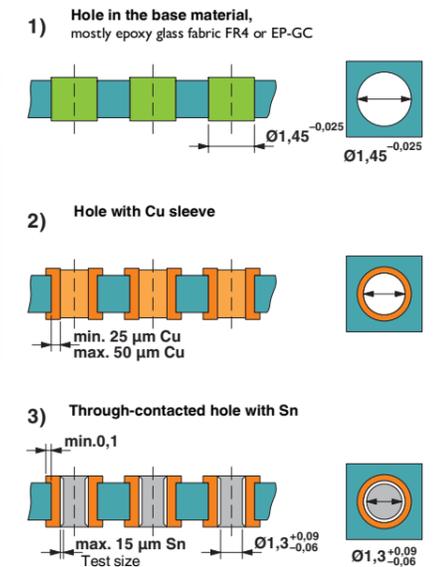
Headers in the EMC and EMSTB product ranges are equipped with the ERNIPRESS press-in technology contact system. They are suitable for PCBs with a thickness of 1.5 mm or more and meet the applicable requirements of standard DIN EN 60352-5: 1995-9. According to this standard, a special through-contacted hole is required, whose structure depends on the design type used.



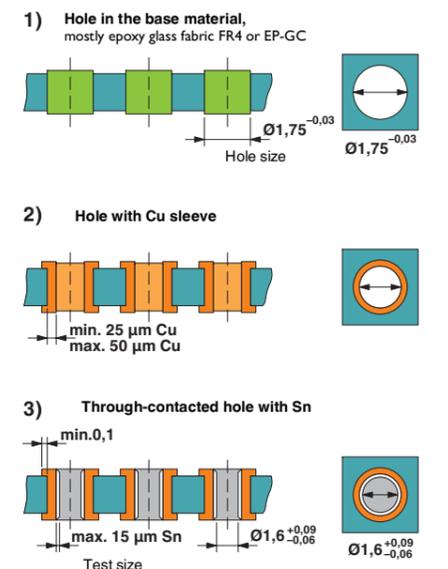
In the simplest case, the press-in method is implemented using a toggle press; pneumatic presses are used for automated mounting methods. The horizontal headers can be pressed into the PCB using a flat press-in stamp. Contact-supporting tools are not required. Contact-supporting lower stamps are available for vertical headers. Stamp sets consisting of an upper and lower stamp are available on request.

The high quality and reliability of press-in plug-in connectors are complemented by their easy handling and user-friendly repair (just press out).

Structure of the metal-plated hole for EMC 1,5/...-G(F)-..., EMCV 1,5/...-G(F)-...



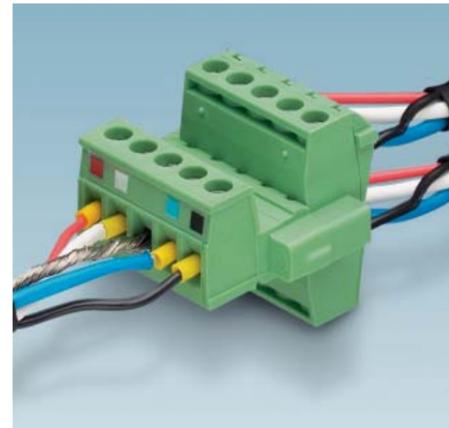
Structure of the metal-plated hole for EMSTB(A) 2,5/...-G(F)-... and EMSTB(A) 2,5/...-G(F)-...



COMBICON TWIN plugs

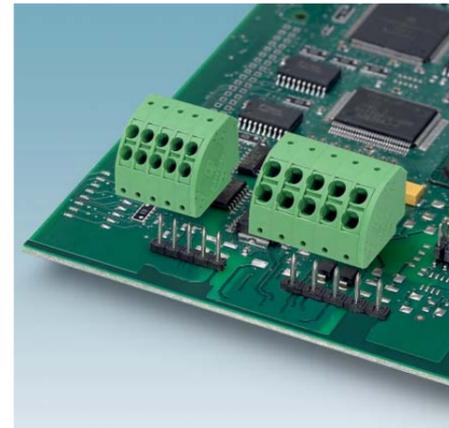
COMBICON TWIN plugs

Double conductor connection



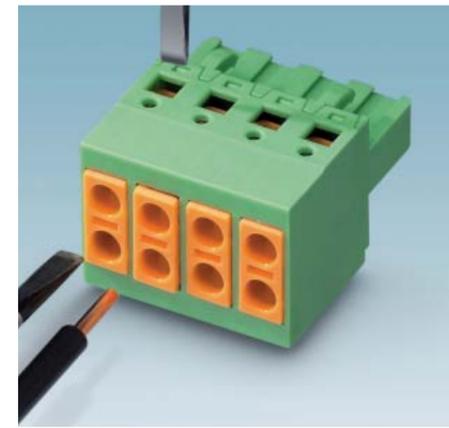
TWIN plug-in connector types are characterized by the connection of two conductors on one connection terminal. Depending on the size, TWIN plugs are used to loop through the signals or to distribute potential or power. A key feature is that the function of the subsequent devices is retained when removing individual plugs in a device series.

PTDA 1,5 TWIN plugs with spring connection, 3.5 or 5.0 mm pitch



- With push-in spring connection
- Symmetrical, rounded design
- 45° angled connection direction
- Contacting on pin strips with 1 mm Ø or 1.3 mm Ø pins
- Conductor cross section: up to 1.5 or 2.5 mm²
- Rated current: 8 or 13.5 A
- Rated voltage: 240 or 400 V
- Open the clamping space via the release button using a screwdriver

TVFKC 1,5 TWIN plugs with spring connection, 5.0 mm pitch



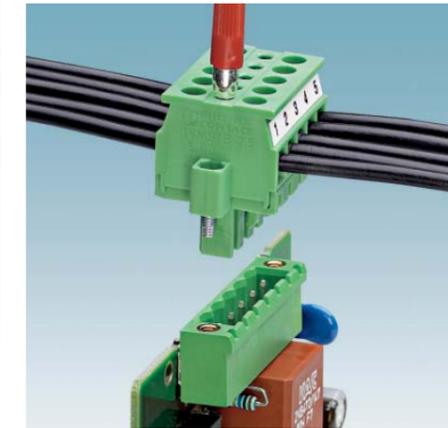
- With push-in spring connection
- Front conductor connection
- Conductor cross section: up to 1.5 mm²
- Rated current: 10 A
- Rated voltage: 320 V
- Low design height of just 15 mm
- Open the clamping space via the orange release button or the actuation shaft on the side using a screwdriver

QC 1-BUS TWIN plugs with displacement connection, 5.0 mm pitch



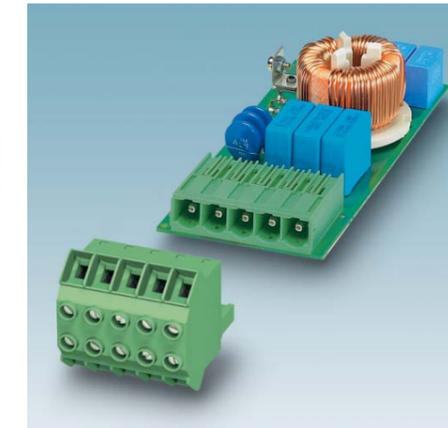
- With displacement connection
- No conductor pretreatment required
- Conductor cross section: up to 1 mm²
- Rated current: 10 A
- Rated voltage: 630 V
- Conductor connection: insert insulated conductor in the orange slide and press down using a screwdriver
- The conductor can also be released using a screwdriver

TVMSTB 2,5 TWIN plugs with screw connection, 5.08 mm pitch



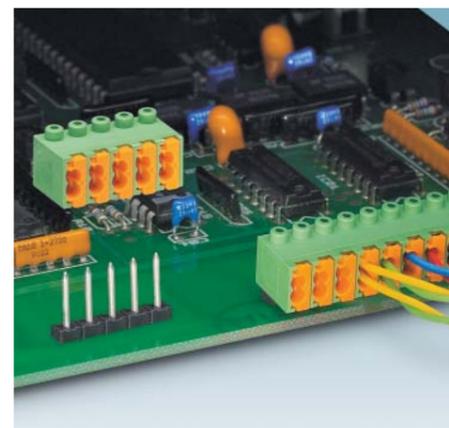
- With screw connection
- Conductor connection perpendicular to the plug-in direction
- Conductor cross section: up to 2.5 mm²
- Rated current: 12 A
- Rated voltage: 400 V
- With test connection for 2.3 mm Ø test plugs

TPC 16 TWIN plugs with screw connection, 10.16 mm pitch



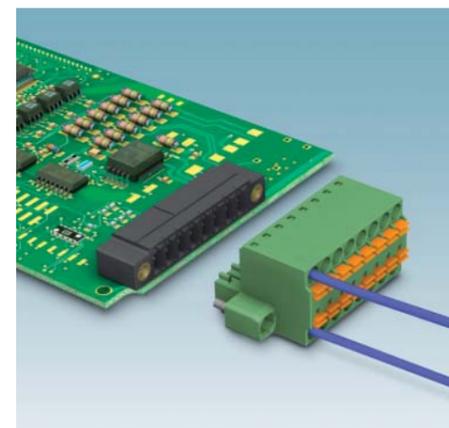
- With screw connection
- Compact design height of just 51.4 mm
- Conductor cross section: up to 16 mm²
- Rated current: 76 A
- Rated voltage: 1000 V

FK-MPT 0,5 TWIN plugs with spring connection, 3.5 mm pitch



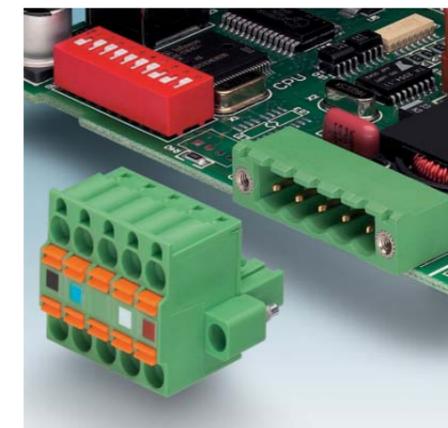
- With push-in spring connection
- Front conductor connection
- Contacting on pin strips with 1 mm Ø pins
- For solid conductors
- Conductor cross section: up to 0.5 mm²
- Rated current: 4 A
- Rated voltage: 250 V
- Open the clamping space via the orange release button using a screwdriver

TFMC 1,5 TWIN plugs with spring connection, 3.5 mm pitch



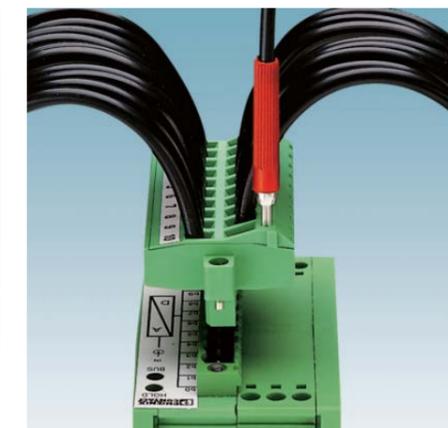
- With push-in spring connection
- Front conductor connection
- Conductor cross section: up to 1.5 mm²
- Rated current: 8 A
- Rated voltage: 160 V
- With touch connection for voltage testing using a 1 mm Ø test pin
- Open the clamping space via the orange spring lever using a screwdriver

TFKC 2,5 TWIN plugs with spring connection, 5.08 mm pitch



- With push-in spring-cage connection
- Conductor cross section: up to 2.5 mm²
- Rated current: 12 A
- Rated voltage: 320 V
- With test connection for 2.3 mm Ø test plugs
- Version for DeviceNet™ with gold-plated contact system
- Marker strips available for DeviceNet™ color coding
- Open the clamping space via the orange spring lever using a screwdriver

TMSTBP 2,5 TWIN plugs with screw connection, 5.08 mm pitch



- With screw connection
- Conductor connection parallel to the plug-in direction
- Conductor cross section: up to 2.5 mm²
- Rated current: 12 A
- Rated voltage: 320 V
- With test connection for 2.3 mm Ø test plugs
- Version for DeviceNet™ with gold-plated contact system
- Marker strips available for DeviceNet™ color coding

TSPC 5 TWIN plugs with spring connection, 7.62 mm pitch



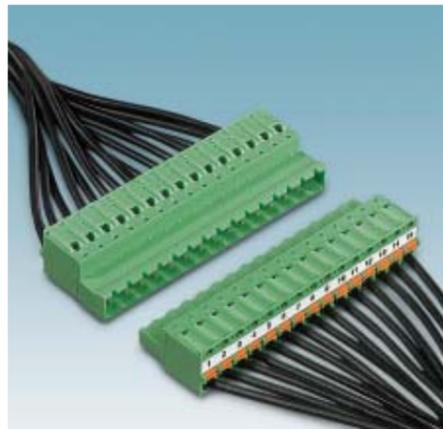
- With push-in spring connection
- Front conductor connection
- Conductor cross section: up to 6 mm²
- Rated current: 41 A
- Rated voltage: 1000 V
- Open the clamping space via the actuation shaft using a screwdriver

Numerous possible combinations

Inverted plug-in connector systems are mainly used wherever shock protection is required for the plug-in connector on the PCB. Compared to the standard system, a feature of inverted contact systems is the swapped position of the socket and pin contacts. The IMC 1,5, IC 2,5, and FKIC 2,5 as well as the GIC 2,5, IPC 5, and IPC 16 inverted plug-in connector ranges combine screw or spring-cage connection in the plug with socket contacts that can be soldered in the corresponding headers. The rated voltages for these systems are:

- IMC 1,5 plug-in connectors: 160 V
- IC 2,5 or FKIC 2,5 plug-in connectors: 250 V
- GIC 2,5 plug-in connectors: 400 V
- IPC 5 plug-in connectors: 1000 V
- IPC 16 plug-in connectors: 1000 V

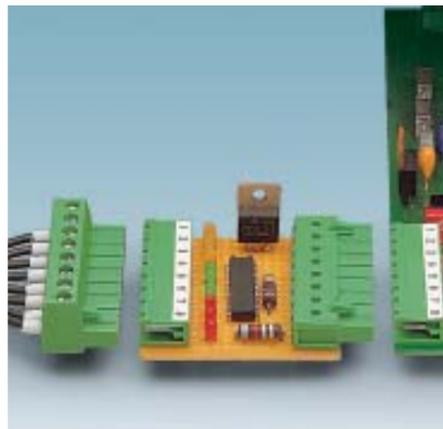
Combination with the corresponding counterparts of the MC/FK-MCP 1,5 or MSTB 2,5/FKC 2,5 or GMSTB 2,5/GFKC 2,5 or PC 5/IPC 5, PC 16/IPC 16 plug-in systems offers a wide range of possible applications. The IC plug is used as an example in the following combinations. The FKIC spring connection version can be used as an alternative. Similar combinations are possible for IMC, GIC, and IPC plug-in connectors.



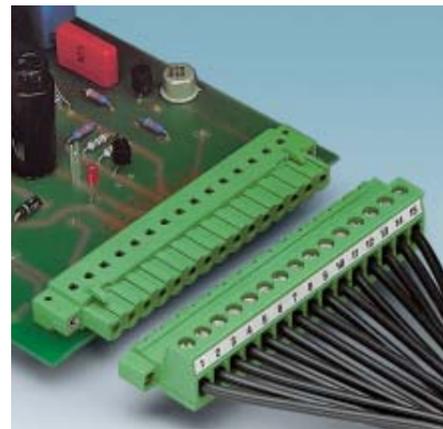
2. Two plugs as free-hanging connection.



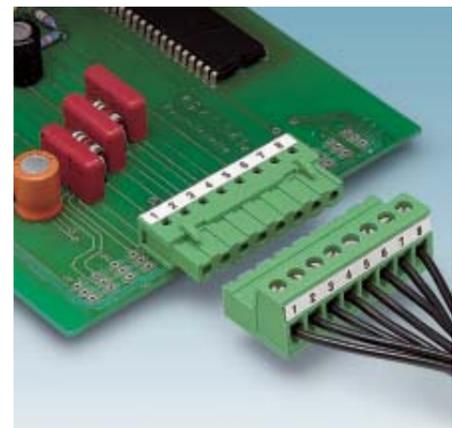
5. IC 2,5/... STGF with threaded flange for vibration-resistant free-hanging connection with MSTB plugs with screw flange.



3. IC 2,5 versions and MSTB 2,5 headers to create test, indicator, converter or branch adapters.



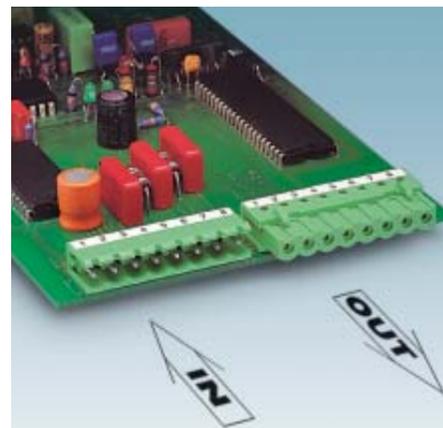
6. IC 2,5/... STF with screw flange for vibration-resistant connection with IC 2,5/... GF inverted headers.



1. IC 2,5 plug and IC 2,5 header as shock-proof PCB output.



4. ICV 2,5 versions and MSTB 2,5 headers to create primary/secondary PCB connections. Here, FLRP lateral guide rails are used to stabilize the secondary PCB.



7. MSTB 2,5 and IC(V) 2,5 headers for the clear separation of inputs and (shock-proof) outputs.

Insertion and withdrawal forces

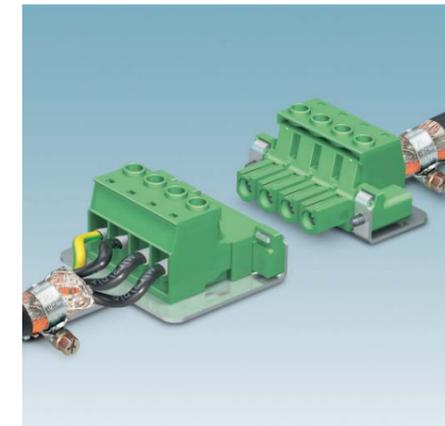
The insertion and withdrawal forces of a plug-in connector vary from 4 N to 8 N per position depending on the contact system and contact surface. In most applications, these insertion forces predominate over the pull-out forces. As far as the requirements are concerned, the pull-out forces defined by the weight of the connecting conductor and the plug-in connector itself can be too low for plug-in connectors with a small number of positions. It is recommended that plug versions with mounting flange for the header are used to prevent the connection being released too easily. The installation scenario often plays an important role here: the use of plug versions that support connection to the header is recommended if relatively long, non-supported connecting cables are used or when the device is used under harsh operating conditions and in the event of vibration.

STF/GF screw flange



As standard, the plugs are fixed to headers using screw locking. These versions (plugs with the designation -STF, headers with the designation -GF) are standard in all performance categories. Here, the screw is located in the plug and the corresponding thread in the base strip.

Threaded flange



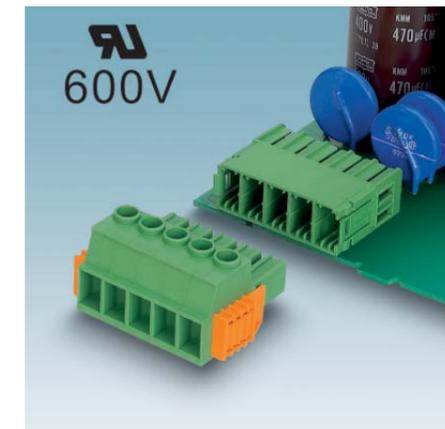
A screw flange version consisting of all inverted plugs is also available. In this case, the flange has a thread instead of a screw. Two plugs of a cable/cable connection can therefore be screwed against one another. This prevents accidental release of the connection.

RF/RN self-locking flange



Applications that only require a vibration-resistant connection can use the self-locking flange instead of the screw flange. It locks automatically without having to use a tool. It is identified by RF (self-locking flange) in the plug designation and RN (engagement nose) in the designation for headers or inverted plugs.

Click and Lock



For the PC 5 range, the "Click and Lock" system is available as an alternative to the screw or threaded flange. This enables tool-free, automatic locking of the plug (-STCL) and base strip and of two plugs. This locking system is reliable even in the event of strong vibration and also saves more space than the screw locking flange.

Lock & Release



The "Lock & Release" mounting system combines a locking mechanism with a release mechanism. Both actuating levers on the plug lock when the plug is inserted in the header. Releasing the levers then automatically ejects the plug from the header.

Mounting flanges



Standard test plugs are used for pick-off, and can be ordered from the COMBICON range of accessories (see page 832).

PCB terminal blocks for high currents in the range from 76 A to 125 A have mounting flanges which are used to connect the PCB terminal blocks to the PCB by means of a screw connection. It is also recommended that the conductors are supported.

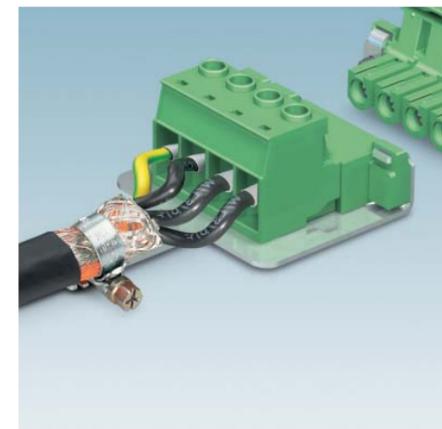
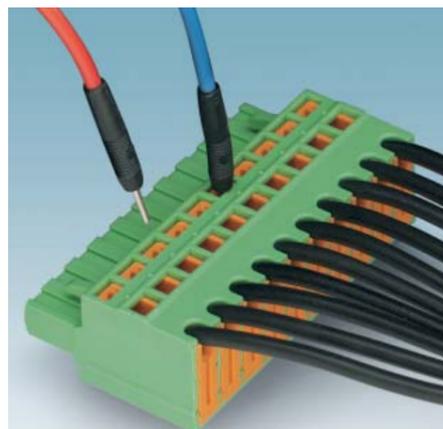
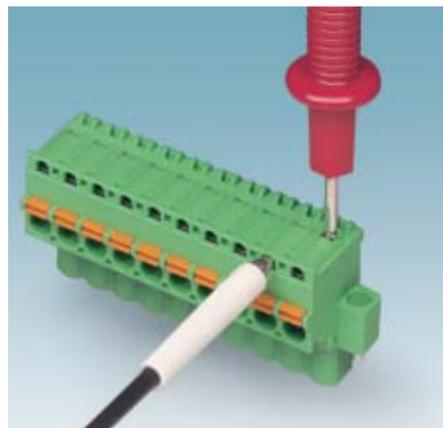


Quick and easy testing using integrated test connections



Naturally, all standard measuring devices can be used for reliable testing. The integrated test connection designed to accommodate a 2.3 mm Ø test plug enables you to test each individual contact point. Special test plugs are available for test connections smaller than 1 mm Ø.

The COMBICON range from Phoenix Contact offers a variety of products with integrated test connections for service work and locating errors. Measurements can therefore be taken easily without having to remove the wiring or other accessories. Needless to say these test connections are also suitable for the continuous monitoring of process-relevant parameters.



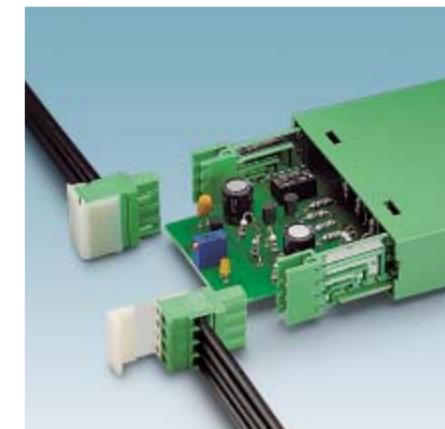
Strain relief

Strain relief elements have proven themselves, e.g., in high-position applications or applications with long cable outlets. Here, the mounting surface of the plug supports the connected cable effectively, thereby relieving the plug of the conductor pull-out force.

In the COMBICON control product range, additional versions are available with strain relief (e.g., the MSTB 2,5 range) or strain relief must be provided as an accessory by snapping it onto the standard plug (e.g., FKC 2,5 range). Strain relief is also available for the MC 1,5 range.

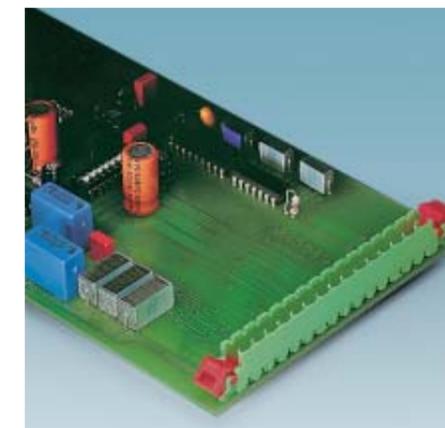
Shielding versions are available for the plugs in the COMBICON power product range. These too can also be used as cable strain relief. Four positions are available as standard, but any number of positions can be provided on request.

Strain can also be relieved using the cable housing for MC, MSTB, and PC 4 plugs. This also protects the plug from dust.



STEH/GEH release aids

Versions with extraction aid (STEH) are available for vertical MVSTBR/MVSTBW 2,5 plugs. The white accessory latch can be folded back after insertion and thereby additionally serves as shock protection for the screw.

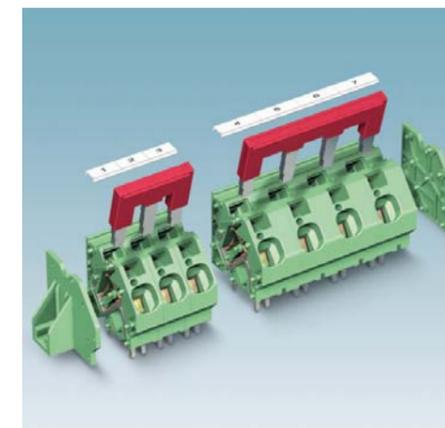


The release aid (GEH) is available as a special solution for vertical MSTBV 2,5 headers. An actuator can be used to easily release all plugs compatible with this base strip from the header.



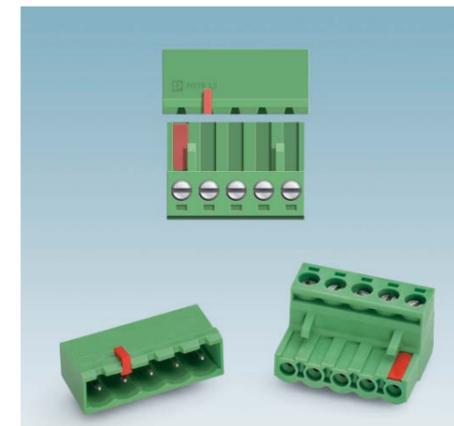
Bridges

Two methods are available for potential distribution or looping through the ground conductor in PCB terminal blocks. The easiest solution is a separate bridge fixed directly in the connection area, if necessary, with a supply conductor. Internally bridged versions are available in the standard MKDS product range. The entire clamping space is also available here.



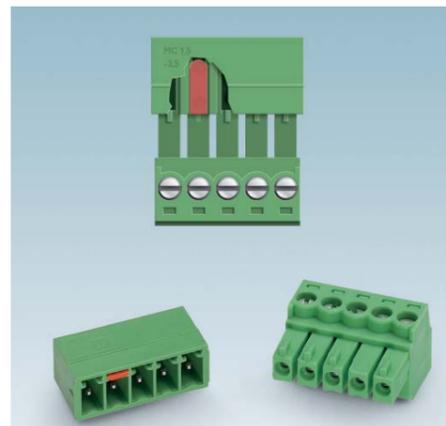
Fully insulated plug-in bridges are also available for ZFKDS 4 and ZFKDS 10 PCB terminal blocks. They enable individual electrical connection of the terminal blocks. The bridges, which are available with various numbers of positions, are inserted in the separate bridge shafts using minimal force.

Keying systems without loss of positions



Keying with CP-MSTB and CR-MSTB

Function: keying prevents the same type of plugs from being mixed up. To this end, the plugs are mounted with corresponding keying profiles (CP-MSTB) and the headers with corresponding keying sections (CR-MSTB). If the keying section and the keying profile are mounted on the same position, the plug cannot be plugged in. The image shows keying that can be plugged in.



Keying with CP-MC 0,5 or CP-MSTB

Function: headers in the MC 0,5 and MC 1,5 product ranges are mounted with keying profiles (CP-MC 0,5 or CP-MSTB). The corresponding keying tabs are then cut on the plug side. If the keying profile is mounted on the same position where the keying tab has been cut, the combination can be plugged in (see image).



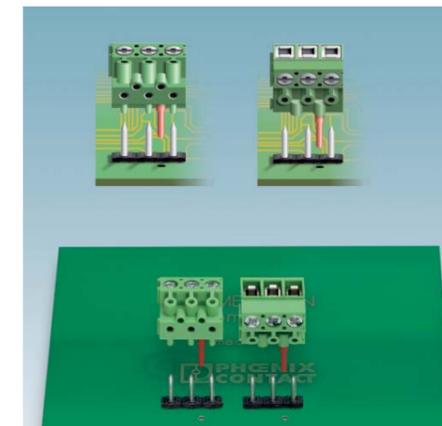
Keying with CP-PC RD or CP-HC

Function: headers and plugs in product series PC 4, PC 5, and PC 16 (CP-PC RD), and product series PC 35 (CP-HC) are mounted with keying profiles. Only correspondingly keyed base strips and plugs can be plugged in. If the keying profile on the housing and on the plug are mounted on the same position, the plug cannot be plugged in. The image shows keying that can be plugged in.



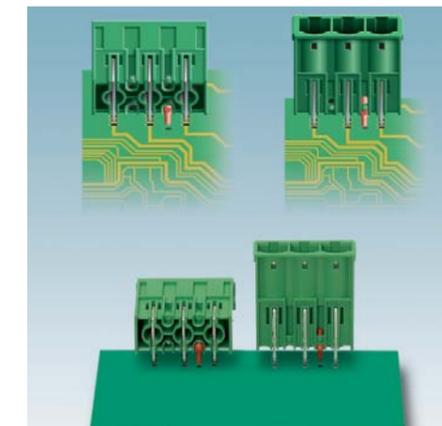
Keying with CP-PT 2,5

Function: the plug is mounted with the CP-PT 2,5 keying profile irrespective of whether it is used vertically or horizontally. The keying ribs in the base strip then determine whether the plug can be plugged in. The corresponding positions of the keying ribs are formed during the manufacturing process. This ensures polarity protection among plugs of the same type. The combination shown in the image cannot be plugged in as the keying profile works against a keying rib in this case.



Keying with CP-PT 1,5

Function: the plug is mounted accordingly with the pin (CP-PT 1,5) depending on whether it is used horizontally or vertically. This pin then enters the hole provided in the layout of the PCB when plugged into the correct positions. Incorrect connection is therefore prevented.



Keying with CS-IPC 16/6

Function: keying of PC 6-16 and IPC 16 headers before being mounted on the PCB. PC 6-16 and IPC 16 headers can be fitted with the CS-IPC 16/6 keying pin, whether used horizontally or vertically. The unused end of the keying pin can now be removed using a diagonal cutter. When mounting the PCB, the remaining part of the keying pin then enters the hole provided in the PCB. This provides anti-rotation protection on the PCB, particularly when mounting manually.

COMBICON PCB terminal blocks and plug-in connectors for use in potentially explosive areas



General information:

For product-specific information, please refer to the installation notes.

– PCB terminal blocks and plug-in connectors are designed for installation in suitable housing. When used in environments containing potentially explosive gases or dust, this housing must meet the applicable requirements of IEC 60079-0, IEC 60079-3, and IEC 60079-7 or IEC 61241.

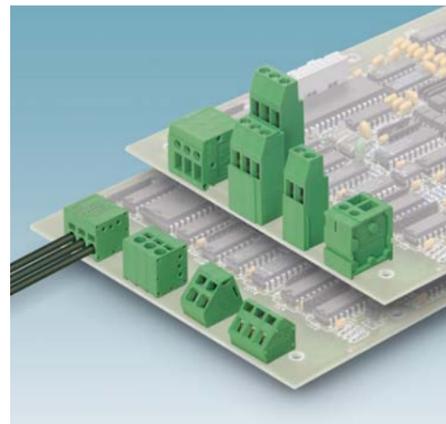
The PCB terminal blocks and plug-in connectors must be installed in a wiring space or housing so that they are secured against rotating or accidental loosening.

– For information on additional fixings, please refer to the installation notes.

– When connecting conductors, make sure that the wire insulation extends right up to the terminal point. Following installation of the PCB terminal blocks and plug-in connectors in a wiring space with increased safety “Ex e” protection type, the air and creepage distances must meet the requirements of IEC 60079-7. These requirements apply in particular to the mixed installation of different components and when using additional accessories.

– When using cross sections smaller than the rated cross section specified in the EC-type examination certificate, the corresponding lower current value must be specified in the EC-type examination certificate for the device.

– For some PCB terminal blocks, the specified voltage can be increased using pitch spacers. The voltages resulting from the use of one or more pitch spacers can be found in the EC-type examination certificate. We will be happy to confirm which other combinations are supported.



Intrinsic safety “Ex i”

For intrinsic safety “i” protection type according to IEC 60079-11, both PCB terminal blocks and plug-in connectors with Ex approval and standard products can be used. They are simply used as electrical equipment and do not require any particular certification or markings. Make sure that the air and creepage distances required in connection with intrinsically safe circuits are observed. The connection points of these circuits must be clearly marked. If marking is by means of color-coding, the connection points must be light blue.

Marking

The explosion-protected equipment must be marked in such a way as to guarantee that it is used correctly in accordance with its safety characteristics.

Note: in accordance with the specifications of the ATEX Directive, components such as PCB terminal blocks and plug-in connectors are excluded from CE marking.

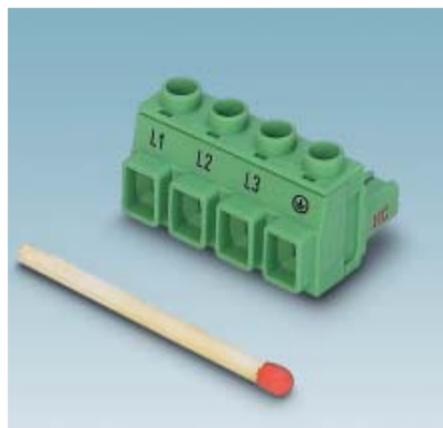
Cross-reference list for CLASSIC COMBICON plug-in connectors with Ex approval

CLASSIC COMBICON plug	Type	Pitch in mm	CLASSIC COMBICON header			
			MSTB[V]...GF EX Page 369	MSTB[V]A...G...RN EX Page 375	IC[V]...GF EX Page 377	GMSTB[V]...GF EX Page 375
	MSTB...STF EX Page 369	5.08	•			
	MVSTB[R][W] Page 369	5.08	•			
	IC...STF EX Page 373	5.08			•	
	FKC...STF EX Page 371	5.08	•			
	FKC...ST...RF EX Page 371	5.08		•		
	FKIC...STF EX Page 373	5.08			•	
	GMSTB...STF EX Page 379	7.62				•
	GMVSTB[R][W]...STF EX Page 379	7.62				•
	GFKC...STF EX Page 381	7.62				•

Note:

The plug-in connectors only have approval for use in potentially explosive areas with increased safety Ex e in the combination shown here.

Technical information regarding the PCB connection



International approvals, such as UL/CUL consistently raise issues during device development. As a responsible manufacturer of device connection technology, we develop and test our products according to the latest safety standards in such a way that our customers do not encounter any problems with international approval for their devices.

COMBICON PCB terminal blocks and plug-in connectors are recognized components according to UL 1059. In the end application, these components undergo final evaluation and are approved together with the device according to UL 508 (C) or UL 840.

The stringent requirements of UL 1059 thereby ensure that a plug-in connector for 600 V UL in Use Group C observes a clearance of 9.5 mm and a creepage distance of 12.7 mm with a pitch of 7.62 mm. In the end application, these components undergo final evaluation and are approved together with the device according to UL 508 (C) or UL 840.

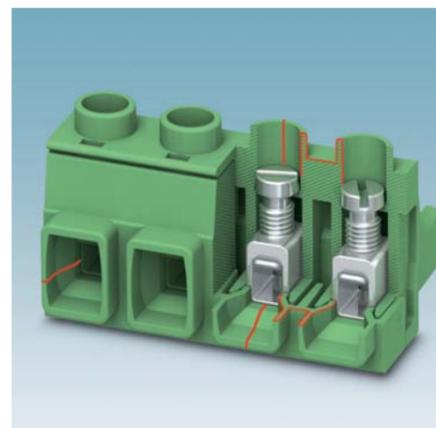
UL Online Certification Directory
Official recognition of the terminal blocks and plug-in connectors is confirmed by a UL report. This contains important information about the product, such as connection data (ratings), air and creepage distances, materials, dimensions, and application conditions (conditions of acceptability). Together with the product names, the connection data is documented in "yellow cards" or the UL Online Certification Directory as proof of approval. UL has published a website at www.ul.com/database where this data and corresponding explanations are generally available.

Phoenix Contact housing production is UL-certified

The plastics used in Phoenix Contact housing all have their own approvals. Our plastics production is recognized by Underwriters Laboratories as "UL Recognized Molder A1913" (File E240868) and is regularly audited.

The UL logo including ID and the plastic material code (e.g., P01) are also printed on the packing label of the electronics housing. Both during device approval and inspection of your electronics production, for the majority of product ranges it is very easy to verify the housing plastics' conformance with UL 746D using the material code on the label.

Product and device standards



UL 1059 "Terminal blocks"

In order that Phoenix Contact products can be used in industrial applications without restriction, they are generally tested and recognized according to UL 1059. The following table lists the air and creepage distances required for the components. The Use Group refers to the subsequent area of application of the termination device.

Device standards

UL 508 "Industrial control equipment"
Terminal blocks, which are recognized according to UL 1059, meet the requirements of UL 508 for field wiring terminal blocks and can therefore be used in accordance with this standard without restriction. UL 508 also permits alternative rating in accordance with UL 840.

UL 508 C "Power conversion equipment"

This UL standard applies specifically to power electronics (motor controllers, frequency inverters, etc.). The requirements for field wiring terminal blocks are similar to the specifications of UL 508. Alternative rating in accordance with UL 840 is also possible here.

UL 840 "Insulation coordination including clearances and creepage distances for electrical equipment"

This standard describes an alternative procedure for designing the insulation of end products for defined ambient conditions (surge voltage category, pollution degree, material index), provided that this is permitted by the device standard.

Use Group	Definition	Max. nominal voltage (V)	Required distances (mm)	
			Clearance	Creepage distance
A	Operating elements, consoles, etc.	150	12.7	19.1
		300	19.1	31.8
		600	25.4	50.8
B	Standard devices, including office and electronic data processing equipment, etc.	150	1.6	1.6
		300	2.4	2.4
		600	9.5	12.7
C	Industrial applications, without restrictions	150	3.2	6.4
		300	6.4	9.5
		600	9.5	12.7
D	Industrial applications, operating equipment with limited rating	300	1.6	3.2
		600	4.8	9.5

Alternative dimensioning of air and creepage distances according to UL 840

In accordance with UL 840 (3rd edition 2005), the following procedures are carried out to determine air and creepage distances:

1. Equivalent clearances

Not meeting the clearance required in the device standard is permitted if the termination device has passed one of the surge voltage tests described in UL 840 (Table 7.1) without sparkover. The amount of surge voltage depends on the clearance required in the product standard.

2. Clearances for limited surge voltages

If it is ensured that surge voltages occurring during operation do not exceed a specified maximum value, the required clearances for the known pollution degree can also be determined in accordance with Table 8.1.

3. Creepage distances

The minimum requirements described in Table 9.1 for general creepage distances and those specifically for PCBs must be met, taking into consideration the operating voltage, pollution degree, and creep resistance of the material.

High density PCB terminal blocks and plug-in connectors

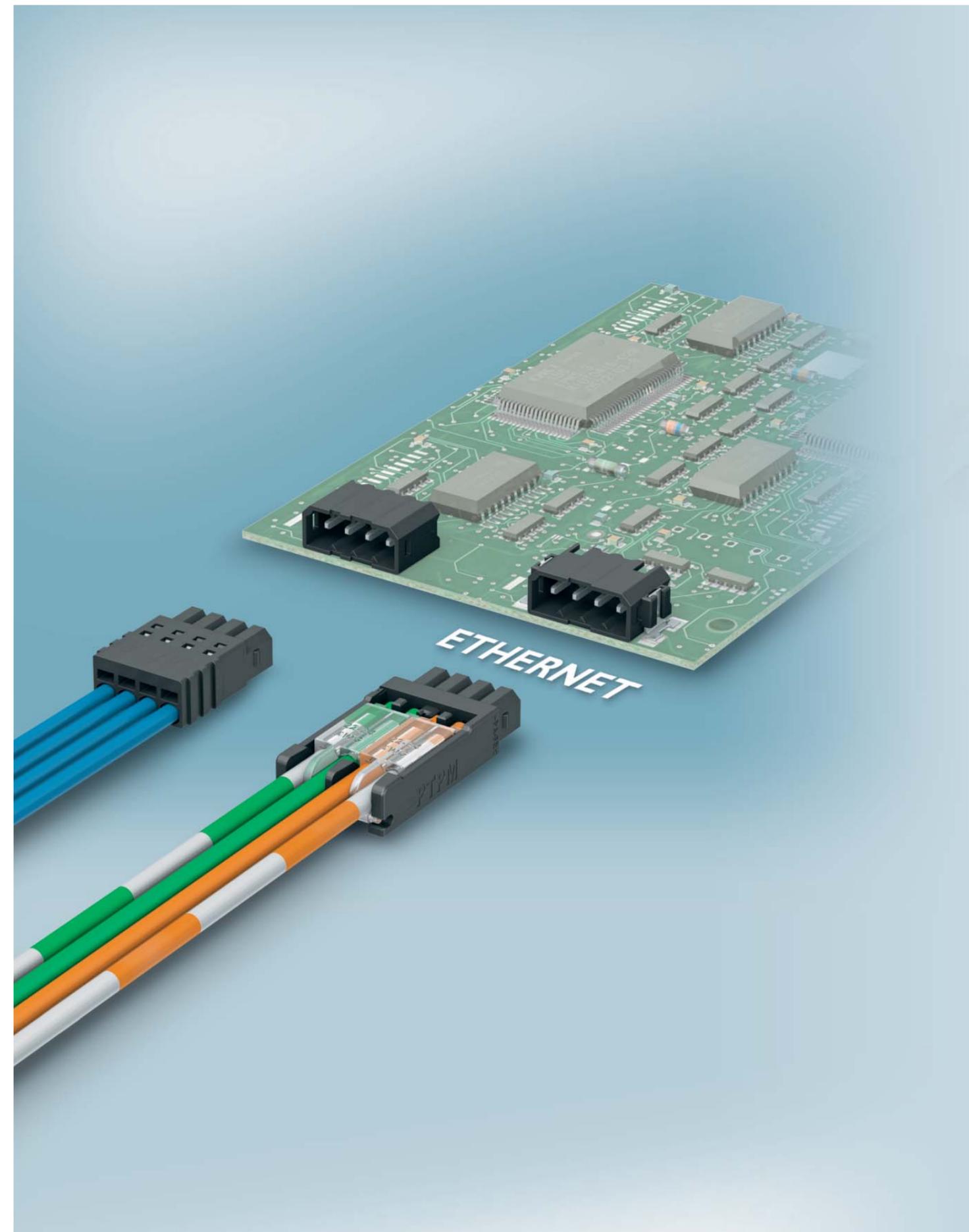
Electronic components are becoming increasingly compact and are mapping more and more functions. In order to follow this trend, the PCB connection technology has to be adapted to the small size of other electronic components. These products, which are characterized by their extremely small size, are all available in the new COMBICON HD series.

COMBICON HD consists of PCB terminal blocks and plug-in connectors with 2.0, 2.5, and 2.54 mm pitch.

The PCB terminal blocks are designed for SMT and reflow soldering processes and have a push-in spring-cage connection or an insulation displacement connection.

The plug-in connectors are available with three connection methods: push-in spring-cage, pierce, and insulation displacement technology. The corresponding headers can be connected to the PCB using wave soldering, reflow soldering or SMT processes.

General	46
COMBICON HD cross-reference list	48
PCB terminal blocks and connectors with 2.5 mm pitch	51
THR spring-cage PCB terminal blocks up to 0.75 mm ²	51
SMD spring-cage PCB terminal blocks up to 0.75 mm ²	53
Connectors with pierce contact up to 0.34 mm ² and spring-cage connection up to 0.75 mm ²	55
CAT5 plug with fast connection	57
SMT and THR base strips for plugs with pierce contact or spring-cage connection	59
Inverted SMT and THR base strips	61
PCB terminal blocks with insulation displacement connection with 2.5 mm pitch	63
Connection cross section up to 0.34 mm ²	63
Plugs with displacement connection, 2.0 to 2.54 mm pitch	65
Plugs with displacement connection up to 0.5 mm ²	65
Single and four-row headers for wave soldering and SMD processes	67
Bus connectors with connection cross section up to 0.75 mm ²	69

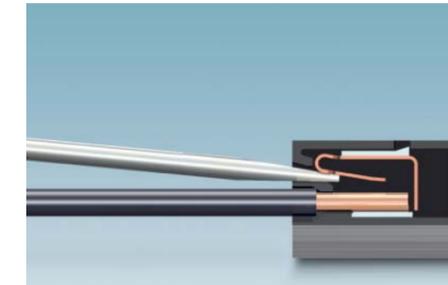
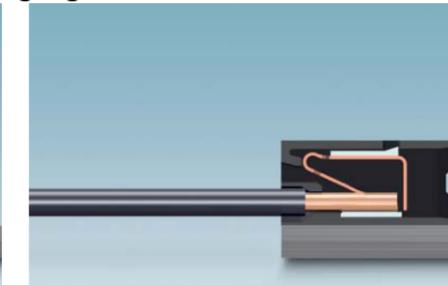
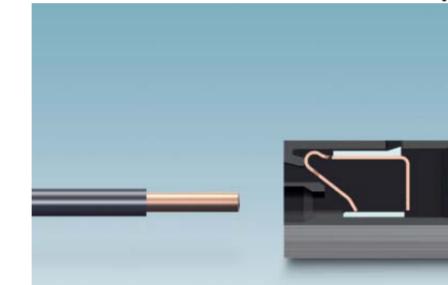
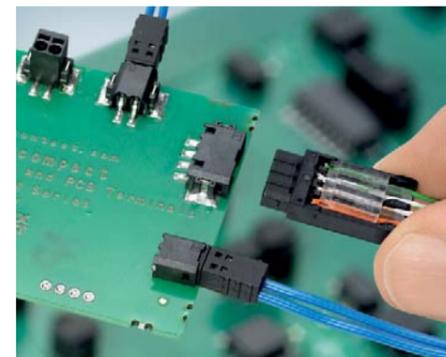


Reflow and SMT soldering processes

Possible applications

Quick and easy wiring

Conductor connection - miniature spring-cage PCB terminal blocks and connectors in the PTSM series



With its new COMBICON HD series, Phoenix Contact offers products that are specially tailored to THR and SMT soldering processes. The base strips and PCB terminal blocks in the COMBICON HD series are made from high-temperature-resistant material and are packed in taped form as standard. For terminal blocks with horizontal conductor connection, the suction area is located directly on the top of the housing. Versions with vertical conductor connection are equipped with a suction pad to enable automatic mounting.

Due to their size, the products in the COMBICON HD series are ideal for all applications where space is limited. Since these terminal blocks can be mounted with other SMD components in a single step, further cost savings are made through additional selective soldering processes. Thanks to the SMT technology, the terminal blocks are particularly suitable for metal core PCBs, such as those used in LED lighting technology. The conventional field of application for CIOC miniature plug-in connectors is the networking of sensors and actuators with the controller. With the aid of link plugs, data can be transmitted safely to the PLC or to the field via bus cables.

All products in the COMBICON HD series can be connected quickly and easily by means of push-in spring-cage, insulation displacement or pierce technology. The user therefore saves a lot of time during wiring.

COMBICON HD PCB terminal blocks and plug-in connectors with spring-cage connection support the tool-free connection of solid conductors and conductors with ferrules. A screwdriver can be used to open the clamping space via the integrated release shaft.

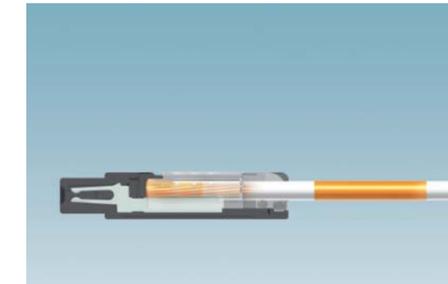
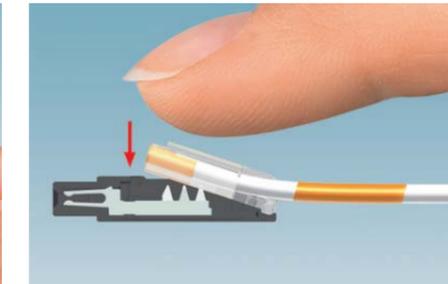
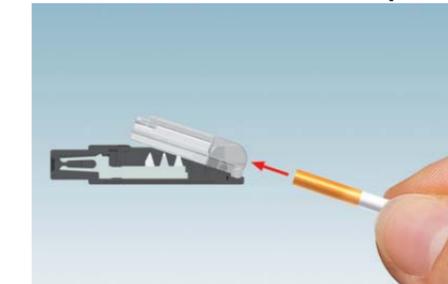
Plug-in connector versions with pierce connection do not require conductor pretreatment. When the cover is closed, the pierce metal penetrates the conductor insulation and thereby makes contact.

Strip conductor and connect solid conductor by means of direct plug-in technology. When connecting stranded conductors, the terminal point should be opened. To do this, insert a screwdriver in the opening above the cable entry funnel.

The conductor is connected and the terminal block is ready for operation.

To release the conductor, insert the screwdriver in the opening above the cable entry funnel and remove the conductor.

Conductor connection - PTPM pierce contact connector



Insert the untreated conductor in the terminal block diagonally from below.

Slide the conductor through the cover so that it is flush with the cover. Now close the cover.

The conductor is connected. The pierce contacts have penetrated the conductor insulation and a gas-tight connection has been established.

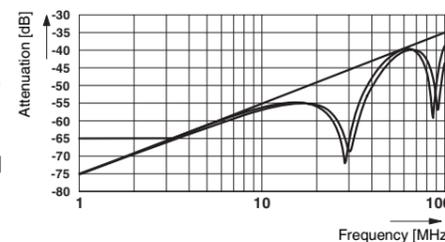
Basics of data transmission

Physical principles must be observed for the transmission of data via copper cables. It is not possible to transmit a signal from one end of a cable to the other without any loss. The dependence on various transmission parameters, such as capacitive and inductive influences and contact resistance, is too great. In order to classify their level of performance, they are split into various categories (CAT1 to CAT7). By determining the near end crosstalk attenuation and reflection loss it is possible to check a cable or plug-in connector's level of performance during data transmission.

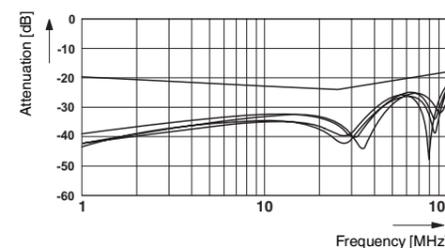
tion can occur if there are disturbances on the transmission path, such as unevenness in the cable or the transition between the cable and plug-in connector. The higher the return loss, the lower the signal reflection and the better the transmission quality.

The two diagrams illustrate the near end crosstalk and the reflection loss of a PTPM plug-in connector with an Ethernet cable.

The top curve is the limiting curve. As long as the characteristic curve for the components to be tested is below this curve, the requirements of category 5 are met.



Near end crosstalk attenuation for PTPM plug with Ethernet cable



Reflection loss for PTPM plug with Ethernet cable

Conductor connection - PTQ miniature IDC terminal block



By default, the terminal block is closed in order to enable automatic assembly. Open the cover up before connecting the conductor.

Insert the untreated conductor in the terminal block cover until it is visible in the housing cutout.

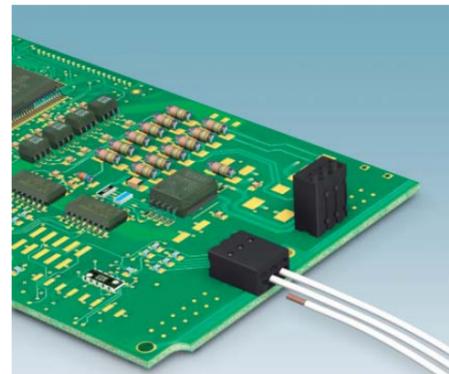
Press down on the cover to close the terminal block. The insulation displacement contacts thus cut through the insulation.

		COMBICON HD headers											
													
Type		PTSM...HH THR Page 59	PTSM...HV THR Page 59	PTSM...HH SMD Page 59	CIOC...F Page 65	CIOC...FL Page 65	CIOC...FV-A Page 67	CIOC...FV Page 67		CIOC...FH-SMD Page 67	CIOC...LIH Page 69	CIOC...LIV Page 69	CIOC...LI Page 69
Pitch		2.5	2.5	2.5	2.0	2.0	2.0	2.0		2.0	2.54	2.54	2.54
	PTPM 0,2/...-P-2,5 Page 55	•	•	•									
	PTPM 0,4/...-P-2,5 Page 55	•	•	•									
	PTSM 0,5/...-P-2,5 Page 55	•	•	•									
	PTSM 0,5/...-HHI-2,5-THR Page 61	•	•	•									
	PTSM 0,5/...-HHI-2,5-SMD Page 61	•	•	•									
	CIOC...M Page 65				•	•	•	•		•			
	CIOC...LI Page 69										•	•	•

PCB terminal blocks and connectors with 2.5 mm pitch

PCB terminal blocks and connectors with 2.5 mm pitch

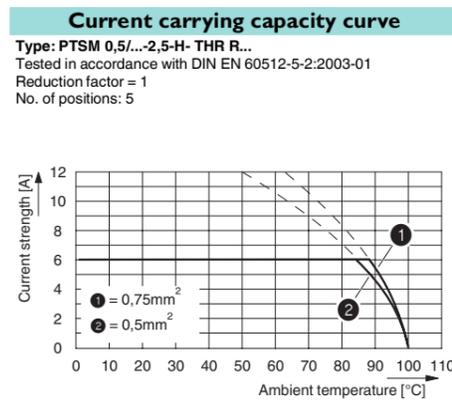
THR spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile THR print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Double solder pins for stable hold on PCB
- Specifically designed for use in re-flow/solder processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Notes:
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 PTSM is also available with white housings, see page 391.
 Observe derating curve.
 1) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
 2) Applies for single-phase networks.

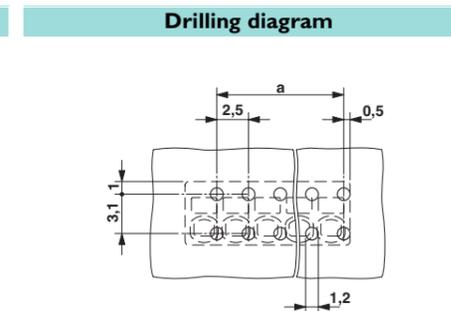
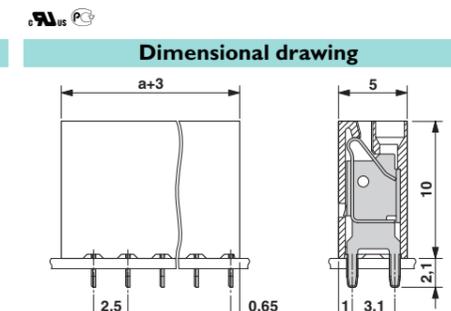
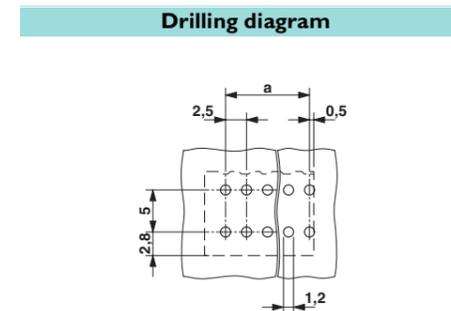
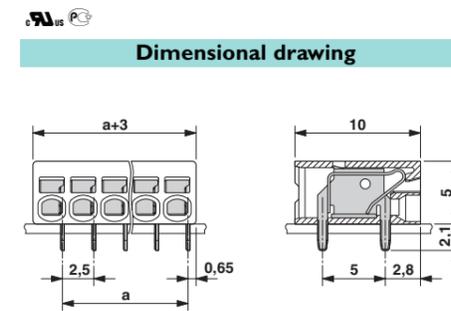
Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Horizontal PCB terminal block for THR applications



Vertical PCB terminal block for THR applications



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	6 / 0.5
Rated insulation voltage for pollution degree 2 [V]	200 ²⁾
Pitch [mm]	2.5
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ¹⁾
Solid / stranded [mm ²]	0.25 - 0.5
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	63 200 ²⁾ 200
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	150 - -
Nominal current [A]	5 - -
Connection capacity AWG	26 - 20 - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	6
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.2 / 0,3 x 0,8 mm

PTSM 0,5/...-2,5-H THR R24	PTSM 0,5/...-2,5-V THR R44
6 / 0.5	6 / 0.5
200 ²⁾	200 ²⁾
2.5	2.5
0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ¹⁾	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ¹⁾
0.25 - 0.5	0.25 - 0.5
-	-
- / -	- / -
-	-
-	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
63 200 ²⁾ 200	63 200 ²⁾ 200
2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D
150 - -	150 - -
5 - -	5 - -
26 - 20 - -	26 - 20 - -
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
6	6
LCP / IIIa	LCP / IIIa
V0	V0
1.2 / 0,3 x 0,8 mm	1.2 / 0,3 x 0,8 mm

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-H THR R24	1770885	530
PTSM 0,5/ 3-2,5-H THR R32	1770898	530
PTSM 0,5/ 4-2,5-H THR R32	1770908	530
PTSM 0,5/ 5-2,5-H THR R32	1770911	530
PTSM 0,5/ 6-2,5-H THR R32	1770924	530
PTSM 0,5/ 7-2,5-H THR R32	1770937	530
PTSM 0,5/ 8-2,5-H THR R32	1770940	530

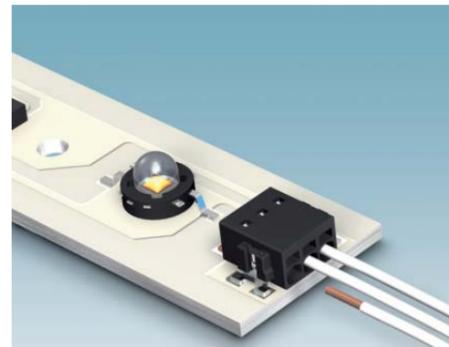
Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-V THR R44	1770953	310
PTSM 0,5/ 3-2,5-V THR R44	1770966	310
PTSM 0,5/ 4-2,5-V THR R44	1770979	310
PTSM 0,5/ 5-2,5-V THR R44	1770982	310
PTSM 0,5/ 6-2,5-V THR R44	1770995	310
PTSM 0,5/ 7-2,5-V THR R44	1771004	310
PTSM 0,5/ 8-2,5-V THR R44	1771017	310

PCB terminal blocks and connectors with 2.5 mm pitch

PCB terminal blocks and connectors with 2.5 mm pitch

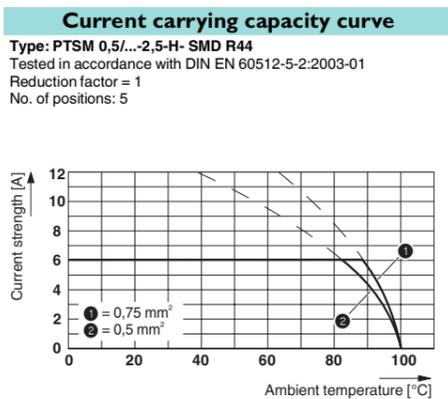
SMD spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile SMD print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Rugged soldering anchors for safe mechanical fastening on the surface
- Specially designed to be used in pure SMT processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Notes:
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 PTSM is also available with white housings, see page 393.
 Observe derating curve.
 1) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
 2) Applies for single-phase networks.

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	6 / 0.5
Rated insulation voltage for pollution degree 2 [V]	160 ²⁾
Pitch [mm]	2.5
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ¹⁾
Solid / stranded [mm ²]	0.25 - 0.5
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	32 160 ²⁾ 160
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	150 - -
Nominal current [A]	5 - -
Connection capacity AWG	26 - 20 - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	6
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0

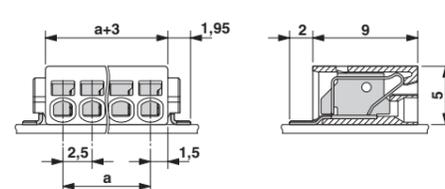
PTSM 0,5/ ...-2,5-H SMD R24	PTSM 0,5/ ...-2,5-V SMD R44
6 / 0.5	6 / 0.5
160 ²⁾	160 ²⁾
2.5	2.5
0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ¹⁾	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ¹⁾
0.25 - 0.5	0.25 - 0.5
-	-
- / -	- / -
-	-
-	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
32 160 ²⁾ 160	32 160 ²⁾ 160
2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D
150 - -	150 - -
5 - -	5 - -
26 - 20 - -	26 - 20 - -
B C D	B C D
- - -	- - -
- - -	- - -
6	6
LCP / IIIa	LCP / IIIa
V0	V0

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50



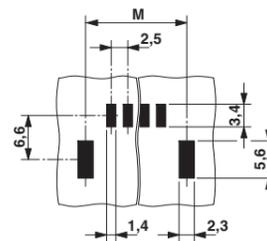
Horizontal PCB terminal block for SMD applications

Dimensional drawing



Drilling diagram

Dimension M: 7.7 mm

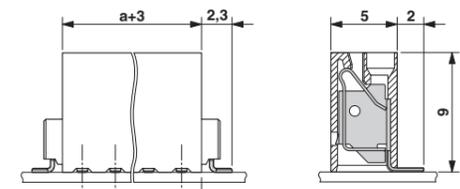


Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-H SMD R24	1702473	770
PTSM 0,5/ 3-2,5-H SMD R44	1771033	770
PTSM 0,5/ 4-2,5-H SMD R24	1702474	770
PTSM 0,5/ 5-2,5-H SMD R44	1771059	770
PTSM 0,5/ 6-2,5-H SMD R44	1771062	770
PTSM 0,5/ 7-2,5-H SMD R44	1771075	770
PTSM 0,5/ 8-2,5-H SMD R44	1771088	770



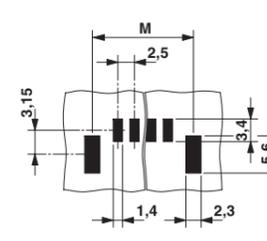
Vertical PCB terminal block for SMD applications

Dimensional drawing



Drilling diagram

Dimension M: 8.4 mm

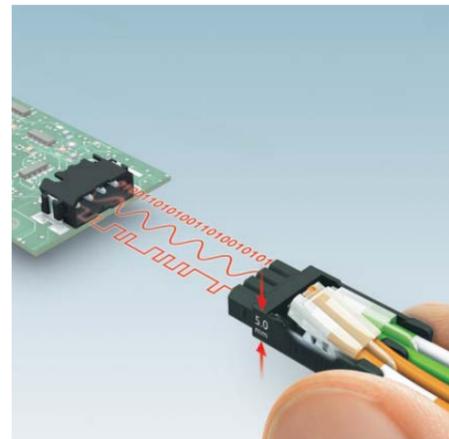


Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-V SMD R44	1771091	400
PTSM 0,5/ 3-2,5-V SMD R44	1771101	400
PTSM 0,5/ 4-2,5-V SMD R44	1771114	400
PTSM 0,5/ 5-2,5-V SMD R44	1771127	400
PTSM 0,5/ 6-2,5-V SMD R44	1771130	400
PTSM 0,5/ 7-2,5-V SMD R44	1771143	400
PTSM 0,5/ 8-2,5-V SMD R44	1771156	400

PCB terminal blocks and connectors with 2.5 mm pitch

PCB terminal blocks and connectors with 2.5 mm pitch

Connector with pierce contact up to 0.34 mm² and spring-cage connectors up to 0.75 mm²



- Miniature connector with 2.5 mm pitch
- Can be plugged into THR and SMD headers
- Spring-cage and pierce contact technology
- Conductor connection up to 0.75 mm²
- High current carrying capacity up to 6 A

Notes:
 Do not use ferrules with Pierce connectors.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.
 1) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.

Accessories		
For all types	Type	Page
For PTSM connectors only		
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

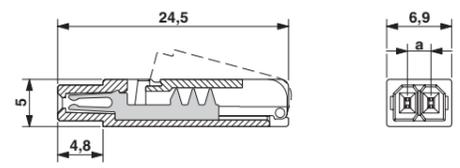
PTPM 0,2/...-P-2,5			PTPM 0,4/...-P-2,5			PTSM 0,5/...-P-2,5		
2 / 0.14			4 / 0.34			6 / 0.5		
160			125			160		
2.5			2.5			2.5		
- / 0.14 - 0.14 / 26 - 26			- / 0.25 - 0.34 / 24 - 22			0.14 - 0.5 / 0.2 - 0.5 ¹⁾ / 24 - 20		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
40	160	160	32	125	125	100	160	320
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
B	C	D	B	C	D	B	C	D
50	-	50	50	-	50	150	-	-
2	-	2	3	-	3	5	-	-
26	-	26	24 - 22	-	24 - 22	26 - 20	-	-
B	C	D	B	C	D	B	C	D
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
PA/PC / III			PA/PC / III			PA / I		
V0/V2			V0/V2			V0		

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
10	22.50



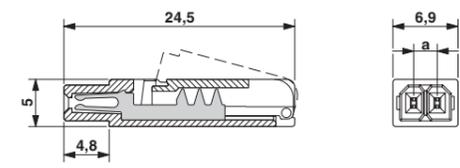
Pierce contact connector for conductor cross sections up to 0.14 mm²/26 AWG

Dimensional drawing



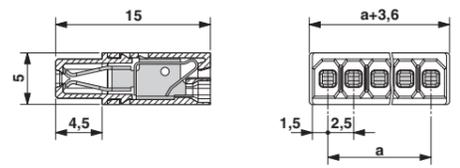
Pierce contact connector for conductor cross sections up to 0.34 mm²/24 - 22 AWG

Dimensional drawing



Spring-cage plug for conductor cross sections up to 0.75 mm²

Dimensional drawing

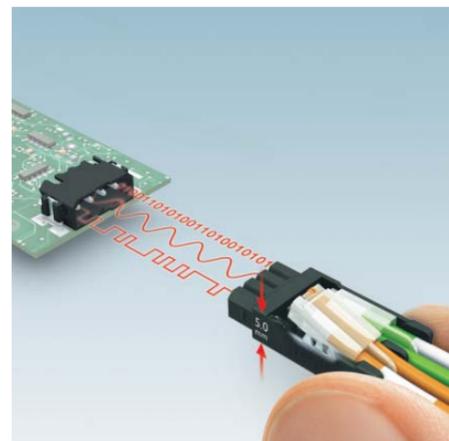


Ordering data		
Type	Order No.	Pcs. / Pkt.
PTPM 0,2/ 2-P-2,5	1780477	250
PTPM 0,2/ 4-P-2,5	1780480	250
PTPM 0,2/ 6-P-2,5	1780493	100
PTPM 0,2/ 8-P-2,5	1780503	100
PTPM 0,2/10-P-2,5	1780516	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
PTPM 0,4/ 2-P-2,5	1780529	250
PTPM 0,4/ 4-P-2,5	1780532	250
PTPM 0,4/ 6-P-2,5	1780545	100
PTPM 0,4/ 8-P-2,5	1780558	100
PTPM 0,4/10-P-2,5	1780561	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
PTSM 0,5/ 2-P-2,5	1778832	250
PTSM 0,5/ 3-P-2,5	1778845	250
PTSM 0,5/ 4-P-2,5	1778858	250
PTSM 0,5/ 5-P-2,5	1778861	100
PTSM 0,5/ 6-P-2,5	1778874	100
PTSM 0,5/ 7-P-2,5	1778887	100
PTSM 0,5/ 8-P-2,5	1778890	100

CAT5 plug with fast connection



- 4-pos. miniature plug with 2.5 mm pitch
- CAT5 Ethernet-capable according to IEC 11801
- Paired fast connection
- Tool-free conductor connection
- Can be combined with 5-pos. THR and SMD base strips of types PTSM 0,5/5...

Accessories		
For all types	Type	Page
	Base strip PTSM 0,5/ 5-HH-2,5- THR R32 Order No. 1778654	59
	Base strip PTSM 0,5/ 5-HV-2,5- THR R32 Order No. 1778586	59
	Base strip PTSM 0,5/ 5-HH-2,5- SMD R32 Order No. 1778793	59

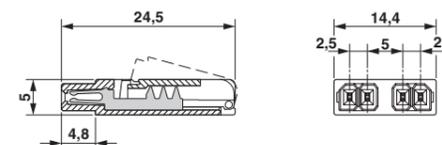


Pierce connection of conductor cross sections of 0.14 mm²/26 AWG

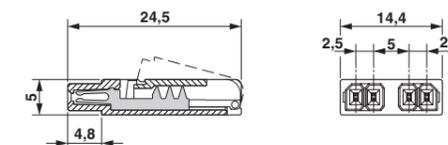


Pierce connection of conductor cross sections from 0.25 to 0.34 mm²/24 - 22 AWG

Dimensional drawing



Dimensional drawing



No. of pos.	4
-------------	---

Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTPM 0,2/ 5-P-2,5 PA CAT5	1811161	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTPM 0,4/ 5-P-2,5 PA CAT5	1811145	100

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

PTPM 0,2/ 5-P-2,5 PA CAT5			PTPM 0,4/ 5-P-2,5 PA CAT5		
Rated current / conductor cross section			Rated current / conductor cross section		
2 / 0.14			4 / 0.34		
Rated insulation voltage for pollution degree 2			Rated insulation voltage for pollution degree 2		
160			125		
Pitch			Pitch		
2.5			2.5		
Connection capacity			Connection capacity		
- / 0.14 - 0.14 / 26 - 26			- / 0.25 - 0.34 / 24 - 22		
Insulation coordination			Insulation coordination		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
40	160	160	32	125	125
2.5	2.5	2.5	2.5	2.5	2.5
B	C	D	B	C	D
50	-	50	50	-	50
2	-	2	3	-	3
26	-	26	24 - 22	-	24 - 22
B	C	D	B	C	D
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
General data			General data		
PA/PC / III			PA/PC / III		
V0/V2			V0/V2		

PCB terminal blocks and connectors with 2.5 mm pitch

PCB terminal blocks and connectors with 2.5 mm pitch

SMT and THR headers for pierce contact or spring-cage connectors



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Rugged soldering anchors for safe mechanical fastening on the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM...-/PTPM...connectors
- Versions with and without positioning pins are available
- 2.5 mm pitch

Notes:
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 PTSM is also available with white housings, see page 397.
 1) UL/CUL on request.
 2) Current carrying dependent upon connector used.
 3) Applies for single-phase networks.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	6 ²⁾
Rated insulation voltage for pollution degree 2 [V]	160 ³⁾
Pitch [mm]	2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	50 160 ³⁾ 160
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	150 - -
Nominal current [A]	6 - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.1 / 0,6 x 0,6 mm

PTSM 0,5/ ...-HH-2,5-THR R16		PTSM 0,5/ ...-HV-2,5-THR R32		PTSM 0,5/ ...-HH0-2,5-SMD R32	
Technical data in accordance to IEC / DIN VDE		Technical data in accordance to IEC / DIN VDE		Technical data in accordance to IEC / DIN VDE	
Rated current [A]		6 ²⁾		6	
Rated insulation voltage for pollution degree 2 [V]		160 ³⁾		160 ³⁾	
Pitch [mm]		2.5		2.5	
Insulation coordination		Insulation coordination		Insulation coordination	
Surge voltage category / pollution degree		III / 3 III / 2 II / 2		III / 3 III / 2 II / 2	
Rated insulation voltage [V]		50 160 ³⁾ 160		50 160 ³⁾ 160	
Rated surge voltage [kV]		2.5 2.5 2.5		2.5 2.5 2.5	
Approval data (UL/CUL) Use Group		B C D		B C D	
Nominal voltage [V]		150 - -		- - -	
Nominal current [A]		6 - -		- - -	
Connection capacity AWG		- - -		- - -	
Approval data (CSA) Use Group		B C D		B C D	
Nominal voltage [V]		- - -		- - -	
Nominal current [A]		- - -		- - -	
Connection capacity AWG		- - -		- - -	
General data		General data		General data	
Type of insulation material / insulation material group		LCP / IIIa		LCP / IIIa	
Inflammability class according to UL 94		V0		V0	
Drill hole diameter / pin dimensions [mm]		1.1 / 0,6 x 0,6 mm		- / -	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
10	22.50



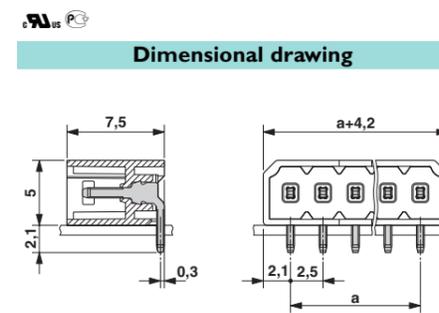
Horizontal header for THR applications



Vertical header for THR applications

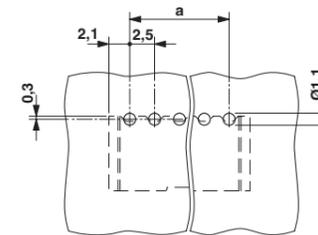


Horizontal header for SMD applications



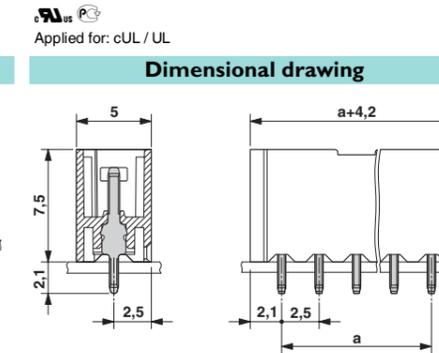
Dimensional drawing

Drilling diagram



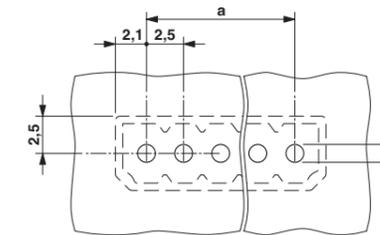
Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HH-2,5-THR R16	1778625	500
PTSM 0,5/ 3-HH-2,5-THR R32	1778638	500
PTSM 0,5/ 4-HH-2,5-THR R32	1778641	500
PTSM 0,5/ 5-HH-2,5-THR R32	1778654	500
PTSM 0,5/ 6-HH-2,5-THR R32	1778667	500
PTSM 0,5/ 7-HH-2,5-THR R44	1778670	500
PTSM 0,5/ 8-HH-2,5-THR R44	1778683	500
PTSM 0,5/10-HH-2,5-THR R44	1701569	500



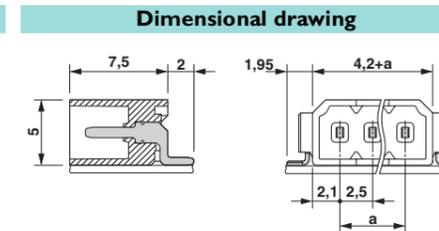
Dimensional drawing

Drilling diagram



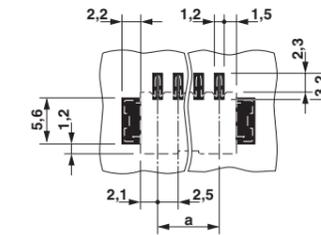
Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HV-2,5-THR R32	1778557	330
PTSM 0,5/ 3-HV-2,5-THR R32	1778560	330
PTSM 0,5/ 4-HV-2,5-THR R32	1778573	330
PTSM 0,5/ 5-HV-2,5-THR R32	1778586	330
PTSM 0,5/ 6-HV-2,5-THR R32	1778599	330
PTSM 0,5/ 7-HV-2,5-THR R44	1778609	330
PTSM 0,5/ 8-HV-2,5-THR R44	1778612	330
PTSM 0,5/10-HV-2,5-THR R44	1701567	330



Dimensional drawing

Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HH0-2,5-SMD R32	1808190	600
PTSM 0,5/ 3-HH0-2,5-SMD R32	1808200	600
PTSM 0,5/ 4-HH0-2,5-SMD R32	1808213	600
PTSM 0,5/ 5-HH0-2,5-SMD R32	1808226	600
PTSM 0,5/ 6-HH0-2,5-SMD R44	1808239	600
PTSM 0,5/ 7-HH0-2,5-SMD R44	1808242	600
PTSM 0,5/ 8-HH0-2,5-SMD R44	1808255	600

PCB terminal blocks and connectors with 2.5 mm pitch

PCB terminal blocks and connectors with 2.5 mm pitch

Inverted SMT and THR base strips



Notes:
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at www.phoenixcontact.net/products.
 PTSM is also available with white housings, see page 399.
 1) UL/CUL on request.
 2) Applies for single-phase networks.

- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Robust solder anchor for secure, mechanical fixing to the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM base strips
- Versions with and without positioning pins are available
- 2.5 mm pitch

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	6
Rated insulation voltage for pollution degree 2 [V]	200 ²⁾
Pitch [mm]	2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	63 200 ²⁾ 200
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1 / 0,6 x 0,4 mm

PTSM 0,5/...-HHI-2,5-THR R24		PTSM 0,5/...-HHI0-2,5-SMD R24	
6		6	
200 ²⁾		160 ²⁾	
2.5		2.5	
III / 3	III / 2	II / 2	III / 3
III / 2	II / 2	III / 3	III / 2
II / 2	III / 3	III / 2	II / 2
63	200 ²⁾	200	63
2.5	2.5	2.5	2.5
2.5	2.5	2.5	2.5
B	C	D	B
C	D	B	C
D	B	C	D
-	-	-	-
-	-	-	-
-	-	-	-
B	C	D	B
C	D	B	C
D	B	C	D
-	-	-	-
-	-	-	-
-	-	-	-
LCP / IIIa		LCP / IIIa	
V0		V0	
1 / 0,6 x 0,4 mm		- / -	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

N



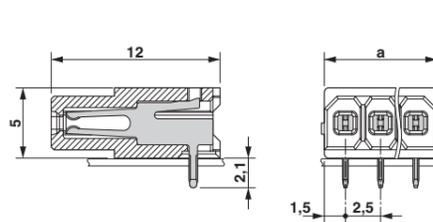
Horizontal inverted header, THR solderable

N

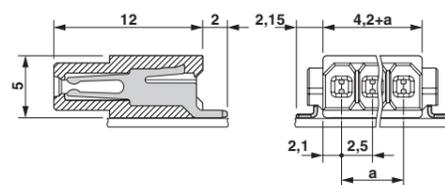


Horizontal inverted header, SMD solderable

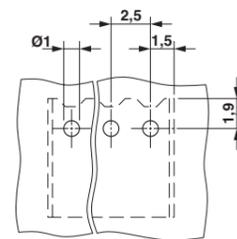
Dimensional drawing



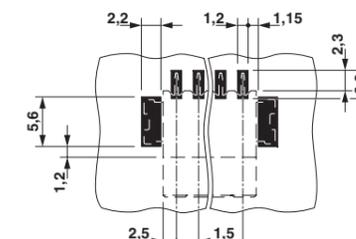
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HHI-2,5-THR R24	1815057	500
PTSM 0,5/ 3-HHI-2,5-THR R32	1815060	500
PTSM 0,5/ 4-HHI-2,5-THR R32	1815073	500
PTSM 0,5/ 5-HHI-2,5-THR R32	1815086	500
PTSM 0,5/ 6-HHI-2,5-THR R32	1815099	500
PTSM 0,5/ 7-HHI-2,5-THR R32	1815109	500
PTSM 0,5/ 8-HHI-2,5-THR R32	1815112	500

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HHI0-2,5-SMD R24	1815125	500
PTSM 0,5/ 3-HHI0-2,5-SMD R44	1815138	500
PTSM 0,5/ 4-HHI0-2,5-SMD R44	1815141	500
PTSM 0,5/ 5-HHI0-2,5-SMD R44	1815154	500
PTSM 0,5/ 6-HHI0-2,5-SMD R44	1815167	500
PTSM 0,5/ 7-HHI0-2,5-SMD R44	1815170	500
PTSM 0,5/ 8-HHI0-2,5-SMD R44	1815183	500

Connection cross section of up to 0.34 mm²

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at www.phoenixcontact.net/products.

Observe derating curve.



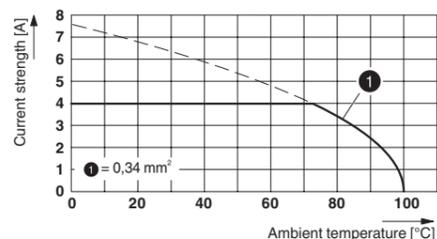
- Conductor connection without pre-treatment.
- 2.5 mm pitch
- THR solderable
- Taped as standard
- Secure locating mechanism
- Option to visually inspect the conductor position
- Supplied in taped packaging according to IEC 60286-3 for automatic assembly
- Anti-rotation pins
- Finger operation, no tools necessary

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	4 / 0.34
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	2.5
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.14 - 0.34 / 0.14 - 0.34 / 26 - 22
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 200
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	150 - -
Nominal current [A]	2 - -
Connection capacity AWG	24 - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.1 / 0.9 x 0.4

Current carrying capacity curve

Type: PTQ 0,3/-2,5(-L) THR R32
 Tested in accordance with DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



Ordering data

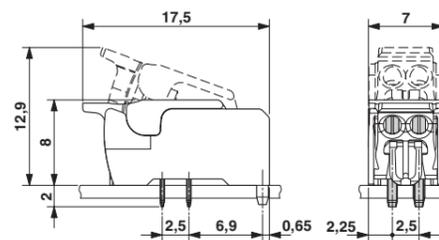
No. of pos.	Dim. a [mm]
2	2.50



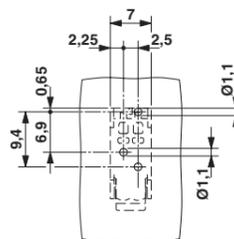
IDC PCB terminal block



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
PTQ 0,3/ 2-2,5 THR R32	1702610	250

Plugs with displacement connection up to 0.5 mm²



- 3- and 4-pos. miniature connectors
- For sensor/actuator wiring
- Fast and safe displacement connection
- Gold-plated contact system
- Connection of AWG conductors with a 7-strand conductor structure and PVC insulation; other conductor types can be used on request
- Conductor connection with the help of conventional pliers
- Colored, transparent covers enable you to check that the displacement connection has been contacted correctly
- Panel feed-through with CIOC ...-FL
- Additional CIOC 3-2...-FL versions available on request

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.
 For 3-pos. items, please enquire about the minimum order amount and delivery time.
 1) Different value for CIOC 3-20... and CIOC 4-20... = 24-20 AWG und stranded conductors = 0.25 - 0.5 mm².

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	3 / 0.25
Rated insulation voltage for pollution degree 2 [V]	32
Pitch [mm]	2
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	- / 0.14 - 0.25 / 26 - 24 ¹⁾
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	32
Rated surge voltage [kV]	
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	AWG
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	AWG
Approval data (UL/CUL)	
Nominal voltage [V]	32
Nominal current [A]	3
Connection capacity AWG	26-20
General data	
Type of insulation material / insulation material group	PBT/PC / -
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
3	4.00
4	6.00
3	4.00
4	6.00
3	4.00
4	6.00
3	4.00
4	6.00
3	4.00
4	6.00



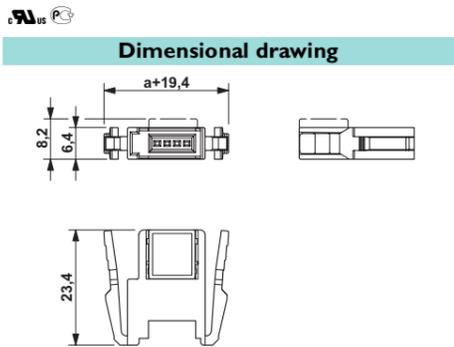
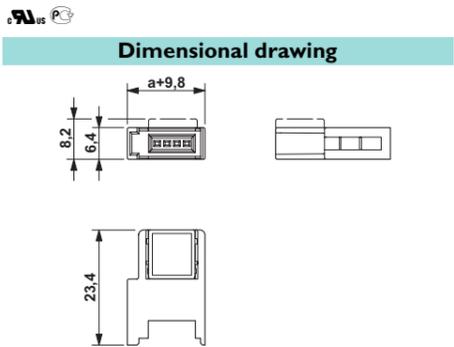
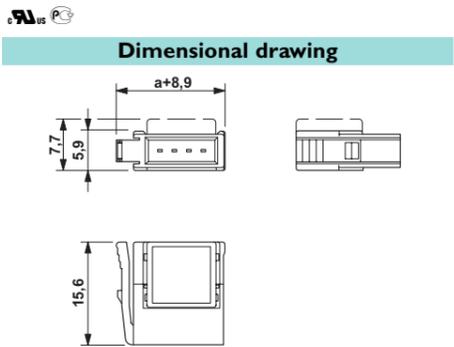
Connector with male contact



Connector with female contact



Connector as panel feed-through with female contact



Type	Order No.	Pcs. / Pkt.
1.0 mm outside conductor diameter, 26 - 24 AWG, color: red (CIOC 3-... on request)		
CIOC 3-24-1,0-M	1701390	50
CIOC 4-24-1,0-M	1700994	50
1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow		
CIOC 3-24-1,2-M	1701391	50
CIOC 4-24-1,2-M	1701016	50
1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3-... on request)		
CIOC 3-24-1,6-M	1701392	50
CIOC 4-24-1,6-M	1701032	50
1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3-... on request)		
CIOC 3-20-1,2-M	1701393	50
CIOC 4-20-1,2-M	1701058	50
1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3-... on request)		
CIOC 3-20-1,6-M	1701394	50
CIOC 4-20-1,6-M	1701074	50
2.0 mm outside conductor diameter, AWG 24-20, color: transparent		
CIOC 3-20-2,0-M	1701396	50
CIOC 4-20-2,0-M	1701090	50

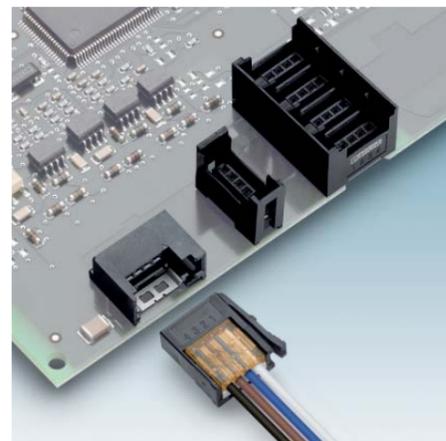
Type	Order No.	Pcs. / Pkt.
1.0 mm outside conductor diameter, 26 - 24 AWG, color: red (CIOC 3-... on request)		
CIOC 3-24-1,0-F	1701397	50
CIOC 4-24-1,0-F	1701113	50
1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow		
CIOC 3-24-1,2-F	1701398	50
CIOC 4-24-1,2-F	1701139	50
1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3-... on request)		
CIOC 3-24-1,6-F	1701399	50
CIOC 4-24-1,6-F	1701155	50
1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3-... on request)		
CIOC 3-20-1,2-F	1701400	50
CIOC 4-20-1,2-F	1701171	50
1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3-... on request)		
CIOC 3-20-1,6-F	1701402	50
CIOC 4-20-1,6-F	1701197	50
2.0 mm outside conductor diameter, AWG 24-20, color: transparent		
CIOC 3-20-2,0-F	1701403	50
CIOC 4-20-2,0-F	1701210	50

Type	Order No.	Pcs. / Pkt.
1.0 mm outside conductor diameter, AWG 26-24, color: red		
CIOC 4-24-1,0-FL	1701236	50
1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow		
CIOC 4-24-1,2-FL	1701252	50
1.6 mm outside conductor diameter, AWG 26-24, color: orange		
CIOC 4-24-1,6-FL	1701278	50
1.2 mm outside conductor diameter, AWG 24-20, color: green		
CIOC 4-20-1,2-FL	1701294	50
1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3-... on request)		
CIOC 3-20-1,6-FL	1701404	50
CIOC 4-20-1,6-FL	1701317	50
2.0 mm outside conductor diameter, AWG 24-20, color: transparent		
CIOC 4-20-2,0-FL	1701333	50

High density PCB terminal blocks and plug-in connectors

Plugs with displacement connection, 2.0 to 2.54 mm pitch

Single and four-row headers for wave soldering and SMD processes



- 3-pos. and 4-pos. CIOC miniature headers for CIOC ...-M connectors
- Gold-plated contact system
- Enables space-saving installation of I/O modules and signal distributors

CIOC 4-1-FH-SMD-B

- Delivery form: Tape-on-reel packing according to IEC 60286-3, reel diameter: 380 mm, tape width: 32 mm

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (UL/CUL)	
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	CIOC 4-1-FV-A			CIOC 4-4-FV			CIOC 4-1-FH-SMD-B R32			
Rated current	3			3			3			
Rated insulation voltage for pollution degree 2	32			32			32			
Pitch	2			2			2			
Insulation coordination		III / 3			III / 2			II / 2		
Surge voltage category / pollution degree	32			32			32			
Rated insulation voltage	32			32			32			
Rated surge voltage	32			32			32			
Approval data (UL/CUL)	B	C	D	B	C	D	B	C	D	
Nominal voltage	-	-	-	-	-	-	-	-	-	
Nominal current	-	-	-	-	-	-	-	-	-	
Connection capacity AWG	-	-	-	-	-	-	-	-	-	
Approval data (CSA)	B	C	D	B	C	D	B	C	D	
Nominal voltage	-	-	-	-	-	-	-	-	-	
Nominal current	-	-	-	-	-	-	-	-	-	
Connection capacity AWG	-	-	-	-	-	-	-	-	-	
Approval data (UL/CUL)	32			32			32			
Nominal voltage	32			32			32			
Nominal current	3			3			3			
Connection capacity AWG	-			-			-			
General data		PA / -			PA / -			LCP / IIIa		
Type of insulation material / insulation material group	V0			V0			V0			
Inflammability class according to UL 94	V0			V0			V0			

No. of pos.	Dim. a [mm]
3	4.00
4	6.00

High density PCB terminal blocks and plug-in connectors

Plugs with displacement connection, 2.0 to 2.54 mm pitch



Single-row, for wave soldering processes
Plug-in direction vertical to the PCB



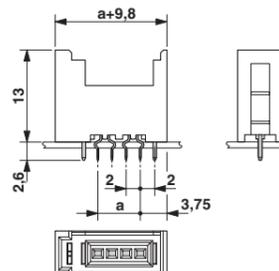
Four-row, for wave soldering processes
Plug-in direction vertical to the PCB



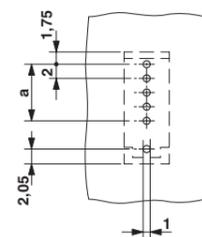
Single-row, taped, for SMD applications, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram

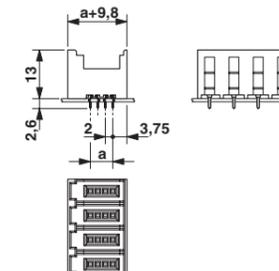


Ordering data

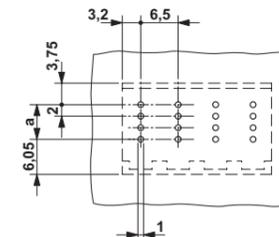
Type	Order No.	Pcs. / Pkt.
2 mm pitch, color: black		
CIOC 3-1-FV-A	1701551	100
CIOC 4-1-FV-A	1701388	100



Dimensional drawing



Drilling diagram

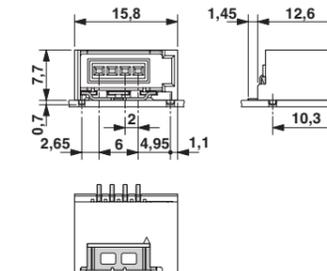


Ordering data

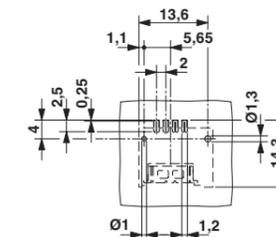
Type	Order No.	Pcs. / Pkt.
2 mm pitch, color: black		
CIOC 3-4-FV	1701552	50
CIOC 4-4-FV	1701401	50



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
2 mm pitch, color: black		
CIOC 4-1-FH-SMD-B R32	1701322	400

High density PCB terminal blocks and plug-in connectors

Plugs with displacement connection, 2.0 to 2.54 mm pitch

Bus connectors up to 0.75 mm² connection cross section



- Supplementing the CIOC connector range with 4-pos. link connector with a 2.54 mm pitch
- Gold-plated contact system
- A plug-in pick-off at any point in the bus and power line can be achieved using two CIOC 4-18-LI plugs
- The CIOC 4-18-LI connector can be combined with the LIH or LIV base strips for a horizontal or vertical PCB connection

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	CIOC 4-18-LI	CIOC 4-1-LIH	CIOC 4-1-LIV
Rated current / conductor cross section	5 / 0.75	5	5
Rated insulation voltage for pollution degree 2	-	-	-
Pitch	2.54	2.54	2.54
Connection capacity			
Solid / stranded	- / - / 18 - 18	- / - / -	- / - / -
Stranded with ferrules without plastic sleeve	-	-	-
Stranded with ferrules with plastic sleeve	-	-	-
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	- / -	- / -	- / -
Stranded with ferrules without plastic sleeve	-	-	-
Stranded with TWIN ferrule with plastic sleeve	-	-	-
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	160	160	160
Rated surge voltage			
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	-	-	-
Nominal current	-	-	-
Connection capacity AWG	-	-	-
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	-	-	-
Nominal current	-	-	-
Connection capacity AWG	-	-	-
General data			
Type of insulation material / insulation material group	PA/PBT / -	PBT / -	PBT / -
Inflammability class according to UL 94	V0	V0	V0

No. of pos.	Dim. a [mm]
4	7.62

High density PCB terminal blocks and plug-in connectors

Plugs with displacement connection, 2.0 to 2.54 mm pitch



Bus connector



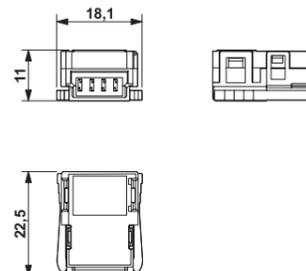
Bus connector header, plug-in direction parallel to the PCB



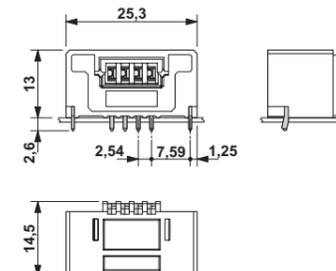
Bus connector header, plug-in direction vertical to the PCB



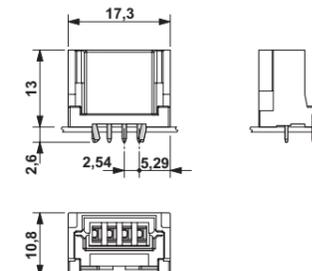
Dimensional drawing



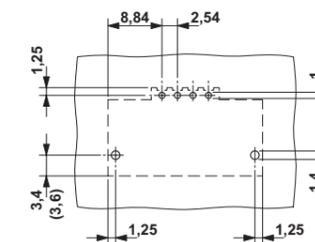
Dimensional drawing



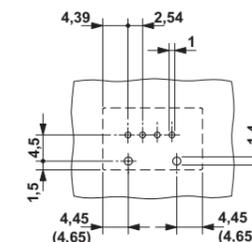
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data		
Type	Order No.	Pcs. / Pkt.
Color: Black		
CIOC 4-18-LI	1701359	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
Color: Black		
CIOC 4-1-LIH	1701362	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
Color: Black		
CIOC 4-1-LIV	1701375	100

PCB terminal blocks with 2.54 to 7.62 mm pitch

The diverse applications for PCB terminal blocks in the field of measurement and control technology have resulted in a continually growing product range over the past several years, which meets the requirements of a large number of different devices and associated device specifications.

Whether using modern process interfaces or automation components through to the PLC, you will always find the right connection terminal block for your application in the PCB terminal block range.

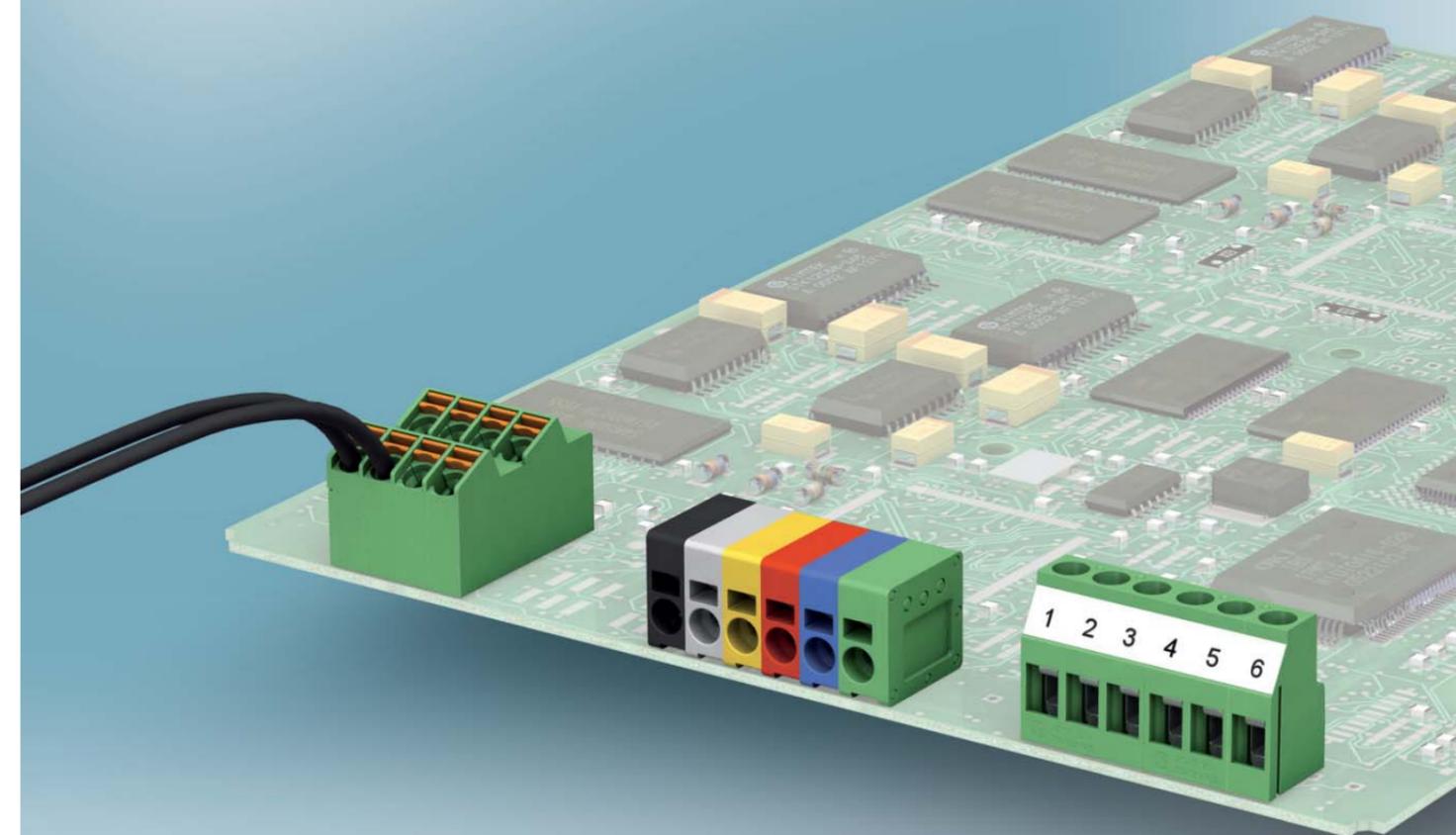
The product range offers three connection methods (screw, spring-cage, and insulation displacement connection). Single-level as well as double-, three-, and four-level terminal blocks are available to increase the contact density on the PCB. The screw and spring-cage versions are pin-compatible with each other. As a result, the user can choose between the two connection technologies without having to change the layout, thereby achieving a high level of flexibility in PCB production and reducing costs.

The range offers pitches from 2.54 to 7.62 mm. The terminal blocks are designed for currents up to 41 A and voltages up to 630 V (surge voltage category III/pollution degree 2). Conductor cross sections from 0.08 to 6 mm² can be connected.

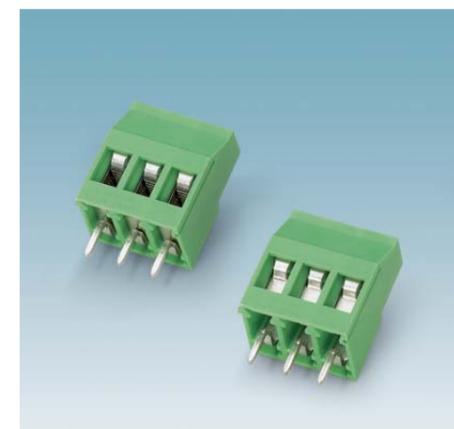
When developing PCB terminal blocks, requirements for state-of-the-art production methods for electronic modules are taken into consideration. Products are available for SMT production in the form of PCB terminal blocks for through hole reflow (THR) and SMD assembly. PCB terminal blocks are available with press-in technology for solder-free processing. PCB terminal blocks that are suitable for the reflow process have high-temperature-resistant insulating housing. The various series are also available in bar or tape magazines.

Customer-specific requirements can also be taken into account when producing PCB terminal blocks. For example, the terminal blocks are available with a closed clamping space, as partially assembled versions or in various colors. Please contact us for more information.

General	72
PCB terminal blocks with screw and spring connection for the reflow process, currents up to 24 A, pitch 3.5/3.81/5.0/5.08 mm	75
Connection cross section up to 1.5 mm ²	75
Connection cross section up to 2.5 mm ²	77
SMD PCB terminal blocks with connection cross section up to 1.5 mm ²	82
PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A, pitch 2.54/3.5/3.81/5.0/5.08 mm	83
Connection cross section up to 0.5 mm ²	83
Connection cross section up to 1.5 mm ²	85
Connection cross section up to 2.5 mm ²	103
Front connection up to 2.5 mm ²	114
Single terminal blocks up to 2.5 mm ²	117
PCB terminal blocks with screw connection for wave soldering processes, currents up to 41 A, pitch 7.5/7.62 mm	119
Connection cross section up to 1.5 mm ²	119
Connection cross section up to 2.5 mm ²	123
Single terminal blocks up to 4 mm ²	127
PCB terminal blocks with spring-cage connection for wave soldering processes, currents up to 24 A, pitch 3.81/5.0/5.08 mm	129
Connection cross section up to 1.5 mm ²	129
Connection cross section up to 2.5 mm ²	135
PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A, pitch 2.54/3.5/3.81/5.0/5.08/7.62 mm	137
Angled conductor connection up to 1.5 mm ²	137
Horizontal or vertical conductor connection up to 2.5 mm ²	141
With actuation rocker and connection up to 1.5 mm ²	145
Connection cross section up to 2.5 mm ²	153
PCB terminal blocks with displacement connection for wave soldering processes, currents up to 5 A, pitch 3.81	154
Connection cross section up to 0.34 mm ²	154
PCB terminal blocks with screw connection for the Ex area for wave soldering processes	157
Multi-level terminal blocks with connection up to 1.5 mm ²	157
Horizontal or vertical conductor connection up to 2.5 mm ²	158
PCB terminal blocks with spring connection for the Ex area for wave soldering processes	161
Angled conductor connection up to 2.5 mm ²	161
Horizontal or vertical conductor connection up to 2.5 mm ²	163
PCB isolating connectors	164
Flat-type fuse holders	165



Customer-specific standard terminal blocks



PCB terminal blocks with open or closed clamping space

Customer-specific requirements and needs can be taken into account when producing PCB terminal blocks. The terminal blocks are available with a closed clamping space, as partially assembled versions and in various colors.

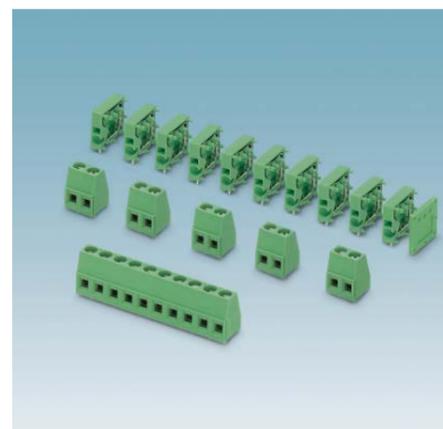
Standard terminal blocks with special functions



Versions with slotted-head and Phillips screws

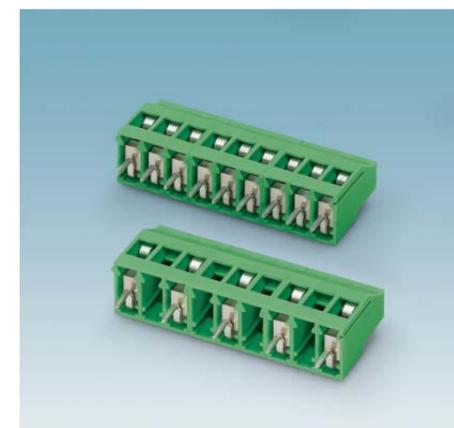
The individual processing of PCB terminal blocks in the soldering process, and even the special features for conductor connection, are taken into account in many product ranges. Here, you can choose between slotted-head and Phillips screws, as well as various solder pin lengths. Please contact us for more information.

PCB terminal blocks with a variable number of positions



One-piece blocks and single PCB terminal blocks

PCB terminal blocks are available in three versions – as a one-piece block, as part blocks or as single terminal blocks. Part blocks can be assembled into high-position blocks using a keyway/featherkey joint. In the case of single terminal blocks, you can freely determine the number of positions for individual assembly. The row must only be interrupted if the number of positions exceeds 30, in order to compensate possible tolerances between terminal block and PCB.



Fully or partially assembled versions



PCB terminal blocks with long or short solder pin



PCB terminal blocks with integrated test connection

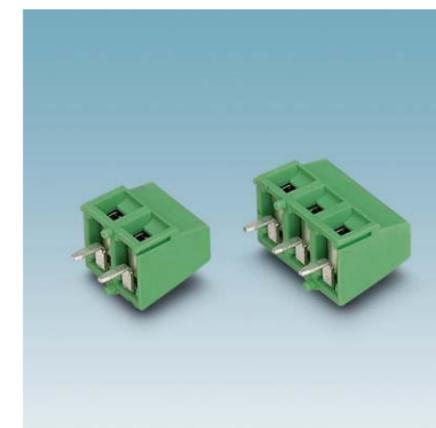
Bridges



Internal bridges

Two methods are available for potential distribution or looping through the ground conductor in PCB terminal blocks. The easiest solution is a separate bridge fixed directly in the connection area, if necessary, with a supply conductor. Internally bridged versions are available in the standard MKDS product range. The entire clamping space is also available here.

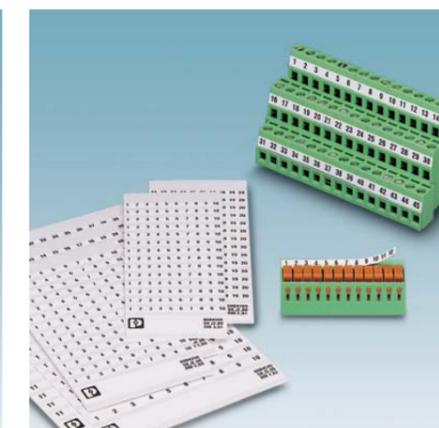
Anti-rotation protection



PCB terminal blocks with anti-rotation pins

2- and 3-pos. terminal blocks in particular are often subjected to high tightening torques, which cannot be absorbed by a few solder pins. Usually these terminal blocks must be supported during conductor connection. If this is not possible, versions with additional anti-rotation pins are available for many terminal blocks.

Marking



Printing with marker cards

For marking individual terminal points, marker cards (SK strips with consecutive numbers 1 - 10, 11 - 20) are available with 2.5 to 7.62 mm pitch for both single terminal blocks and multi-position PCB terminal blocks bases. Alternatively, the terminal blocks can also be supplied with individual labeling.



Separate fixed bridge



Color versions

Note:

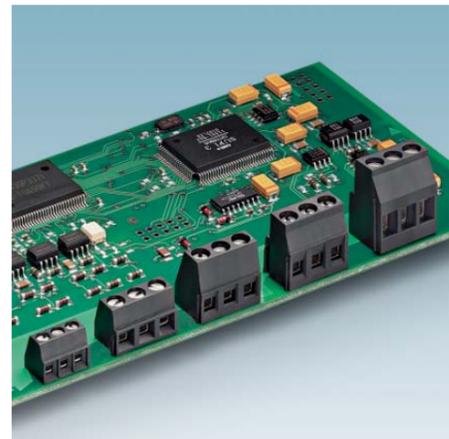
Since the installation environment of the entire PCB cannot be influenced, the specified nominal voltage of all COMBICON PCB terminal blocks refers to the "as-delivered" state. For more detailed information about the dimensioning of air and creepage distances of PCBs, see page 849

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A

Connection cross section of up to 1.5 mm²

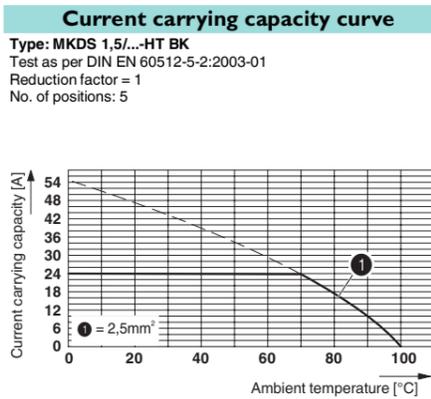
Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



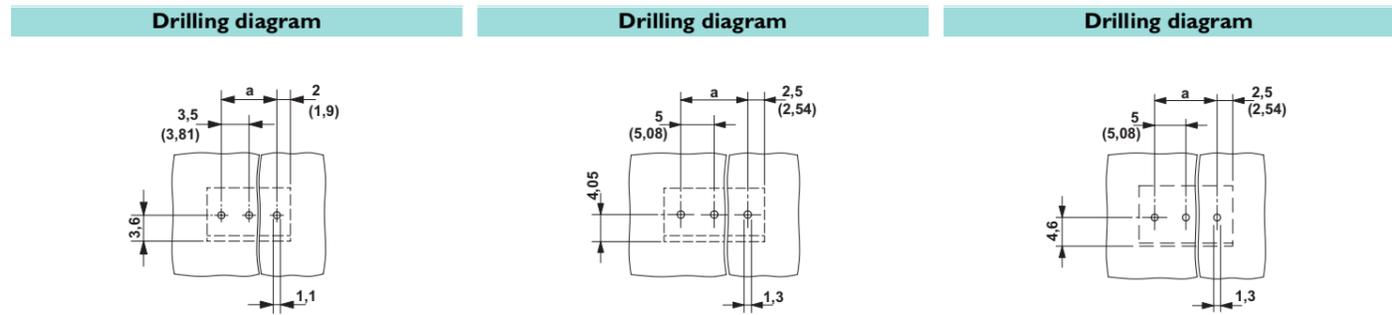
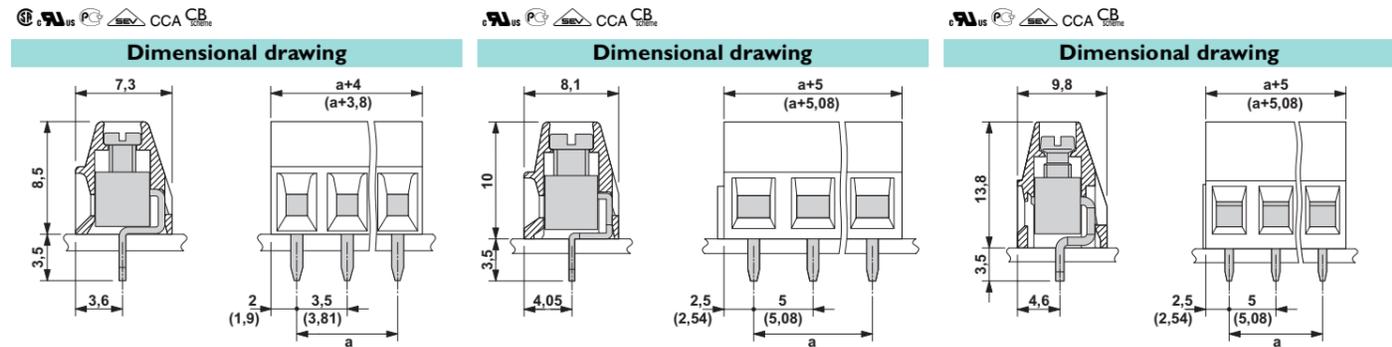
- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Delivery form: Box packaging - bulk
- Taped packaging in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27



Accessories		
For all types	Type	Page
Only for MKDS 1/... HT BK		
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
Only for MKDSN 1,5/...-HT BK and MKDS 1,5/...HT BK		
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829
	Marker cards SK 5/3,8 or SK 5,08/3,8	798



Without housing overlapping With housing overlapping, Low-profile design With housing overlapping



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	

MKDS 1/...HT BK	MKDSN 1,5/... HT BK	MKDS 1,5/... HT BK	No. of pos.	Dim. a [mm]
13.5 ¹⁾ / 1.5	13.5 ¹⁾ / 1.5	17.5 ¹⁾ / 2.5	2	3.50
200	320	320	3	7.00
3.5 / 3.81	5 / 5.08	5 / 5.08	2	3.81
0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14	3	7.62
0.25 - 0.5	0.25 - 1	0.25 - 1.5	2	5.00
0.25 - 0.5	0.25 - 1.5	0.25 - 1.5	3	10.00
0.14 - 0.5 / 0.14 - 0.34	0.14 - 0.75 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75	2	5.08
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	3	10.16
63 200 200	200 320 320	200 320 320		
2.5 2.5 2.5	4 4 4	4 4 4		
B C D	B C D	B C D		
300 - - 300	300 - - 300	300 - - 300		
10 - - 10	10 - - 10	15 - - 10		
30 - 16 - - 30 - 16	30 - 14 - - 30 - 14	30 - 14 - - 30 - 14		
B C D	B C D	B C D		
150 - - 300	- - -	- - -		
10 - - 10	- - -	- - -		
28 - 16 - - 28 - 16	- - -	- - -		
5	6	7		
M2	M3	M3		
0.22 - 0.25	0.5 - 0.6	0.5 - 0.6		
PA / IIIa	PA / IIIa	PA / IIIa		
V0	V0	V0		
1.1 / 0.5 x 0.9 mm	1.3 / 0.5 x 1 mm	1.3 / 0.9 x 0.9 mm		

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MKDS 1/ 2-3,5 HT BK	1985807	50
MKDS 1/ 3-3,5 HT BK	1984950	50
3.81 mm pitch, color: Black		
MKDS 1/ 2-3,81 HT BK	1985823	50
MKDS 1/ 3-3,81 HT BK	1985836	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDSN 1,5/ 2 HT BK	1985849	50
MKDSN 1,5/ 3 HT BK	1985852	50
Headers, 5.08 mm pitch, color: Black		
MKDSN 1,5/ 2-5,08 HT BK	1985865	50
MKDSN 1,5/ 3-5,08 HT BK	1985878	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDS 1,5/ 2 HT BK	1985881	50
MKDS 1,5/ 3 HT BK	1985894	50
Headers, 5.08 mm pitch, color: Black		
MKDS 1,5/ 2-5,08 HT BK	1985904	50
MKDS 1,5/ 3-5,08 HT BK	1985917	50

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A

Connection cross section of up to 2.5 mm²

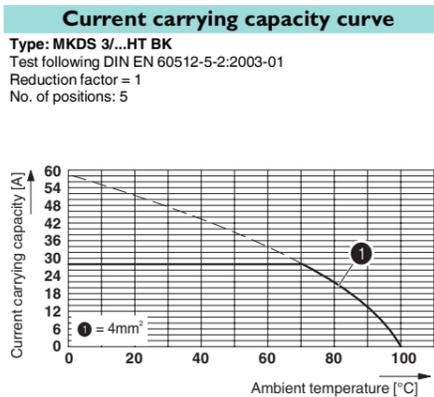


- 5.0 or 5.08 mm pitch
- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Delivery form: Box packaging - bulk
- Taped packaging in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



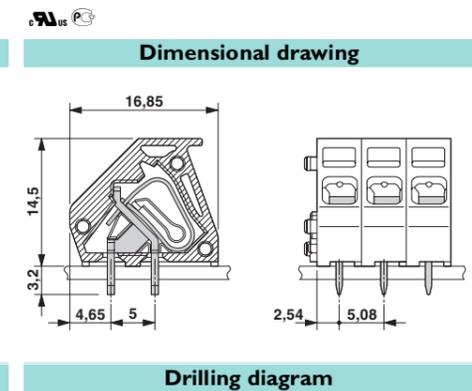
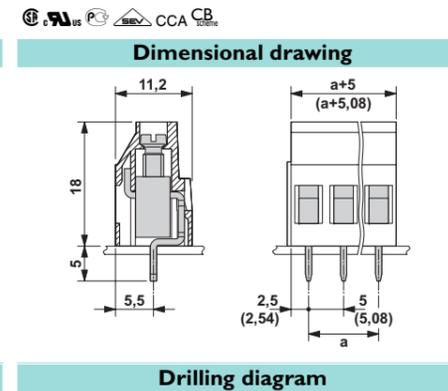
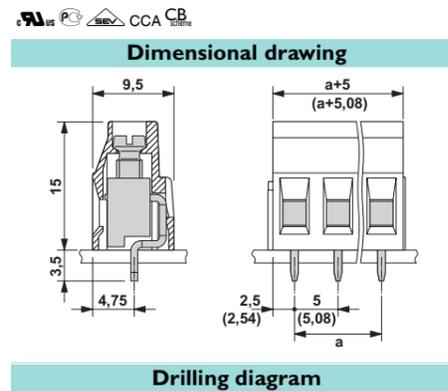
Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Insertion bridge EBP...- 5	829



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[kV]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSN 2,5/ ... HT BK	MKDS 3/ ... HT BK	ZFKDS 2,5-5,08 THT
16 ¹⁾ / 2,5	24 ¹⁾ / 4	24 ¹⁾ / 4
320	320	320
5 / 5,08	5 / 5,08	5,08
0,2 - 2,5 / 0,2 - 2,5 / 24 - 14	0,2 - 4 / 0,2 - 2,5 / 24 - 12	0,2 - 4 / 0,2 - 2,5 / 24 - 12
0,25 - 2,5	0,25 - 2,5	0,25 - 2,5
0,25 - 2,5	0,25 - 1,5	0,25 - 1,5
0,2 - 0,75 / 0,2 - 0,75	0,2 - 1,5 / 0,2 - 1,5	- / -
0,25 - 0,75	0,25 - 0,75	-
0,5 - 1,5	0,5 - 1,5	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
200 320 320	200 320 320	200 320 320
4 4 4	4 4 4	4 4 4
B C D	B C D	B C D
300 - 300	300 - 300	250 - 300
20 - 15	15 - 10	10 - 10
30 - 12 - 30 - 12	30 - 12 - 30 - 12	26 - 12 - 26 - 12
B C D	B C D	B C D
- - -	300 - 300	- - -
- - -	10 - 10	- - -
- - -	28 - 12 - 28 - 12	- - -
6,5	8	7
M3	M3	-
0,5 - 0,6	0,5 - 0,6	-
PA / IIIa	PA / IIIa	PA / IIIa
V0	V0	V0
1,3 / 0,8 x 0,9 mm	1,3 / 0,9 x 0,9 mm	1,3 / 0,8 x 0,8 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
1	
2	5.08
3	10.16
1	
1	



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDSN 2,5/ 2 HT BK	1985920	50
MKDSN 2,5/ 3 HT BK	1985933	50
Headers, 5,08 mm pitch, color: Black		
MKDSN 2,5/ 2-5,08 HT BK	1985946	50
MKDSN 2,5/ 3-5,08 HT BK	1985959	50

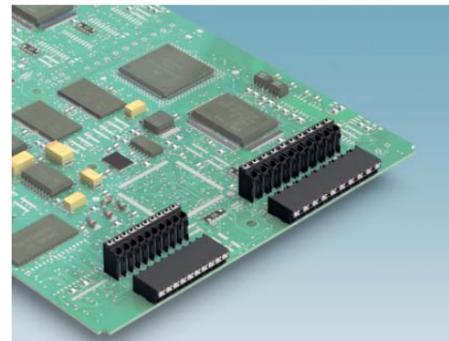
Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDS 3/ 2 HT BK	1985962	50
MKDS 3/ 3 HT BK	1985975	50
Headers, 5,08 mm pitch, color: Black		
MKDS 3/ 2-5,08 HT BK	1985988	50
MKDS 3/ 3-5,08 HT BK	1985991	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Headers, 5,08 mm pitch, color: Black		
ZFKDS 2,5-5,08 THT	1990245	50
End terminal block, 5,08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
ZFKDS 2,5-5,08 L THT	1990261	50
End terminal block, 6,08 mm wide, necessary at the end of a row of terminal blocks (right)		
ZFKDSA 2,5-6,08 R THT	1990258	50

PCB terminal blocks with push-in spring connection for the reflow process, currents up to 13.5 A

PCB terminal blocks with push-in spring connection for the reflow process, currents up to 13.5 A

Horizontal or vertical conductor connection up to 1.5 mm²



Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

1) Current carrying capacity curve upon request.

2) UL/CUL on request.

N

Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction horizontal to the PCB

N

Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction vertical to the PCB

N

Pin length of 2.0 mm, taped PCB terminal blocks, connection direction horizontal to the PCB

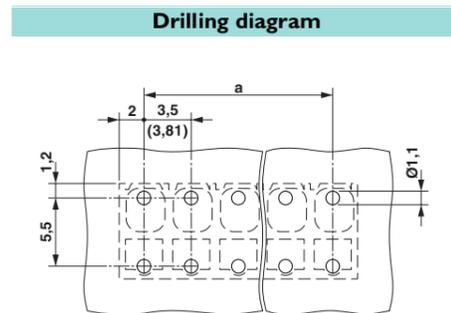
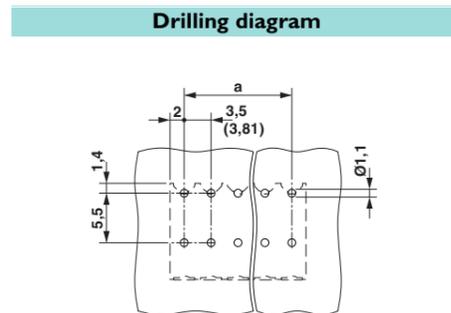
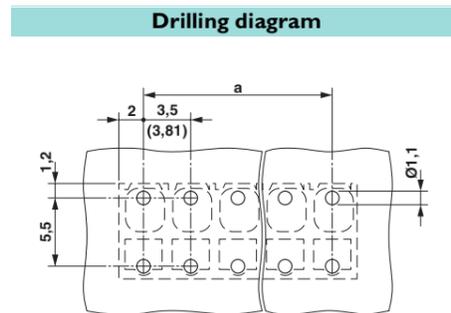
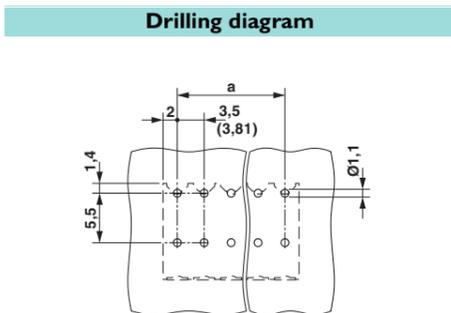
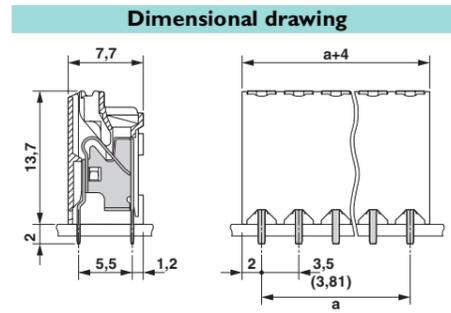
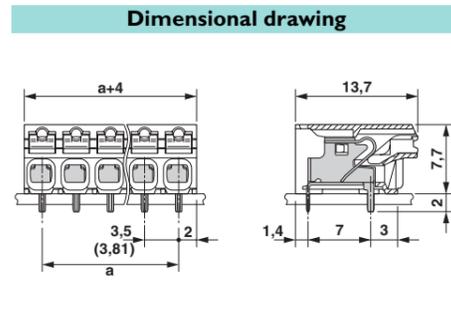
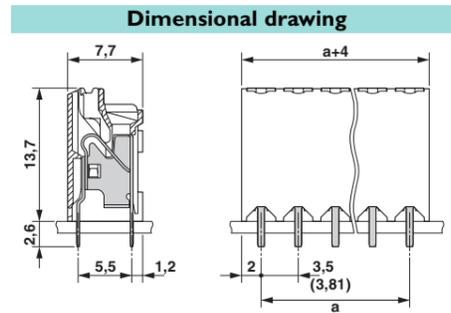
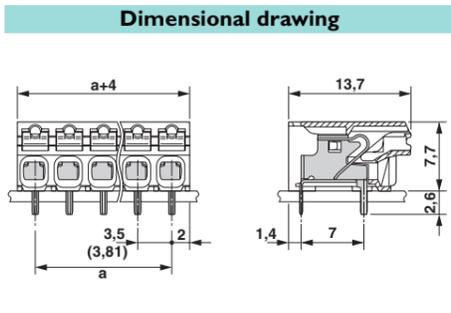
N

Pin length of 2.0 mm, taped PCB terminal blocks, connection direction vertical to the PCB

- Push-in direct plug-in technology for solid or stranded conductors
- Suitable for use in SMT reflow processes
- Horizontal and vertical design with 3.5 mm and 3.81 mm pitch
- Two solder pins for a high level of stability on the PCB
- Standard pin length of 2.6 mm also suitable for wave soldering processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting in the reflow process with pin length of 2.0 mm

Accessories

For all types	Type	Page
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMFOX 6 Order No. 1212034	



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	13.5(1) / 1.5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.5 / 3.81
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.2 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.2 - 0.75
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	AWG - - -
General data	
Stripping length [mm]	8
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.1 / 0,7 x 0,3

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black				
2	3.50	SPT-THR 1,5/ 2-H-3,5 P26	1822752	370
3	7.00	SPT-THR 1,5/ 3-H-3,5 P26	1822765	240
4	10.50	SPT-THR 1,5/ 4-H-3,5 P26	1822778	170
5	14.00	SPT-THR 1,5/ 5-H-3,5 P26	1822781	150
6	17.50	SPT-THR 1,5/ 6-H-3,5 P26	1822794	130
7	21.00	SPT-THR 1,5/ 7-H-3,5 P26	1822804	110
8	24.50	SPT-THR 1,5/ 8-H-3,5 P26	1822817	80
9	28.00	SPT-THR 1,5/ 9-H-3,5 P26	1822820	80
10	31.50	SPT-THR 1,5/ 10-H-3,5 P26	1822833	60
11	35.00	SPT-THR 1,5/ 11-H-3,5 P26	1822846	60
12	38.50	SPT-THR 1,5/ 12-H-3,5 P26	1822859	60
3.81 mm pitch, color: Black				
2	3.81	SPT-THR 1,5/ 2-H-3,81 P26	1822862	350
3	7.62	SPT-THR 1,5/ 3-H-3,81 P26	1822875	240
4	11.43	SPT-THR 1,5/ 4-H-3,81 P26	1822888	170
5	15.24	SPT-THR 1,5/ 5-H-3,81 P26	1822891	130
6	19.05	SPT-THR 1,5/ 6-H-3,81 P26	1822901	110
7	22.86	SPT-THR 1,5/ 7-H-3,81 P26	1822914	80
8	26.67	SPT-THR 1,5/ 8-H-3,81 P26	1822927	80
9	30.48	SPT-THR 1,5/ 9-H-3,81 P26	1822930	60
10	34.29	SPT-THR 1,5/ 10-H-3,81 P26	1822943	60
11	38.10	SPT-THR 1,5/ 11-H-3,81 P26	1822956	60
12	41.91	SPT-THR 1,5/ 12-H-3,81 P26	1822969	60

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
SPT-THR 1,5/ 2-V-3,5 P26	1822312	540
SPT-THR 1,5/ 3-V-3,5 P26	1822325	350
SPT-THR 1,5/ 4-V-3,5 P26	1822338	250
SPT-THR 1,5/ 5-V-3,5 P26	1822341	220
SPT-THR 1,5/ 6-V-3,5 P26	1822354	190
SPT-THR 1,5/ 7-V-3,5 P26	1822367	160
SPT-THR 1,5/ 8-V-3,5 P26	1822370	120
SPT-THR 1,5/ 9-V-3,5 P26	1822383	120
SPT-THR 1,5/ 10-V-3,5 P26	1822396	90
SPT-THR 1,5/ 11-V-3,5 P26	1822406	90
SPT-THR 1,5/ 12-V-3,5 P26	1822419	90
3.81 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-3,81 P26	1822422	510
SPT-THR 1,5/ 3-V-3,81 P26	1822435	350
SPT-THR 1,5/ 4-V-3,81 P26	1822448	250
SPT-THR 1,5/ 5-V-3,81 P26	1822451	190
SPT-THR 1,5/ 6-V-3,81 P26	1822464	160
SPT-THR 1,5/ 7-V-3,81 P26	1822477	120
SPT-THR 1,5/ 8-V-3,81 P26	1822480	120
SPT-THR 1,5/ 9-V-3,81 P26	1822493	90
SPT-THR 1,5/ 10-V-3,81 P26	1822503	90
SPT-THR 1,5/ 11-V-3,81 P26	1822516	90
SPT-THR 1,5/ 12-V-3,81 P26	1822529	60

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
SPT-THR 1,5/ 2-H-3,5 P20 R24	1823638	250
SPT-THR 1,5/ 3-H-3,5 P20 R32	1823641	250
SPT-THR 1,5/ 4-H-3,5 P20 R32	1823654	250
SPT-THR 1,5/ 5-H-3,5 P20 R32	1823667	250
SPT-THR 1,5/ 6-H-3,5 P20 R44	1823670	250
SPT-THR 1,5/ 7-H-3,5 P20 R44	1823683	250
SPT-THR 1,5/ 8-H-3,5 P20 R44	1823696	250
SPT-THR 1,5/ 9-H-3,5 P20 R72	1823706	250
SPT-THR 1,5/ 10-H-3,5 P20 R72	1823719	250
SPT-THR 1,5/ 11-H-3,5 P20 R72	1823722	250
SPT-THR 1,5/ 12-H-3,5 P20 R72	1823735	250
3.81 mm pitch, color: Black		
SPT-THR 1,5/ 2-H-3,81 P20 R24	1823748	250
SPT-THR 1,5/ 3-H-3,81 P20 R32	1823751	250
SPT-THR 1,5/ 4-H-3,81 P20 R32	1823764	250
SPT-THR 1,5/ 5-H-3,81 P20 R32	1823777	250
SPT-THR 1,5/ 6-H-3,81 P20 R44	1823780	250
SPT-THR 1,5/ 7-H-3,81 P20 R44	1823793	250
SPT-THR 1,5/ 8-H-3,81 P20 R44	1823803	250
SPT-THR 1,5/ 9-H-3,81 P20 R72	1823816	250
SPT-THR 1,5/ 10-H-3,81 P20 R72	1823829	250
SPT-THR 1,5/ 11-H-3,81 P20 R72	1823832	250
SPT-THR 1,5/ 12-H-3,81 P20 R72	1823845	250

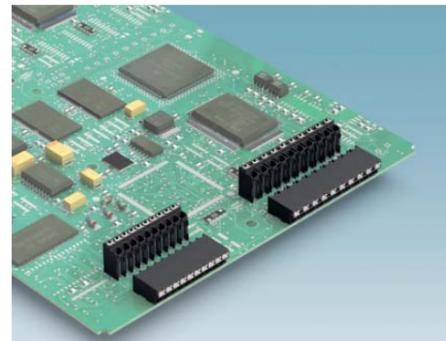
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
SPT-THR 1,5/ 2-V-3,5 P20 R24	1823191	180
SPT-THR 1,5/ 3-V-3,5 P20 R24	1823201	180
SPT-THR 1,5/ 4-V-3,5 P20 R44	1823214	180
SPT-THR 1,5/ 5-V-3,5 P20 R44	1823227	180
SPT-THR 1,5/ 6-V-3,5 P20 R44	1823230	180
SPT-THR 1,5/ 7-V-3,5 P20 R44	1823243	180
SPT-THR 1,5/ 8-V-3,5 P20 R72	1823256	180
SPT-THR 1,5/ 9-V-3,5 P20 R72	1823269	180
SPT-THR 1,5/ 10-V-3,5 P20 R72	1823272	180
SPT-THR 1,5/ 11-V-3,5 P20 R72	1823285	180
SPT-THR 1,5/ 12-V-3,5 P20 R72	1823298	180
3.81 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-3,81 P20 R24	1823308	180
SPT-THR 1,5/ 3-V-3,81 P20 R24	1823311	180
SPT-THR 1,5/ 4-V-3,81 P20 R44	1823324	180
SPT-THR 1,5/ 5-V-3,81 P20 R44	1823337	180
SPT-THR 1,5/ 6-V-3,81 P20 R44	1823340	180
SPT-THR 1,5/ 7-V-3,81 P20 R44	1823353	180
SPT-THR 1,5/ 8-V-3,81 P20 R72	1823366	180
SPT-THR 1,5/ 9-V-3,81 P20 R72	1823379	180
SPT-THR 1,5/ 10-V-3,81 P20 R72	1823382	180
SPT-THR 1,5/ 11-V-3,81 P20 R72	1823395	180
SPT-THR 1,5/ 12-V-3,81 P20 R72	1823405	180

PCB terminal blocks with push-in spring connection for the reflow process, currents up to 13.5 A

PCB terminal blocks with push-in spring connection for the reflow process, currents up to 13.5 A

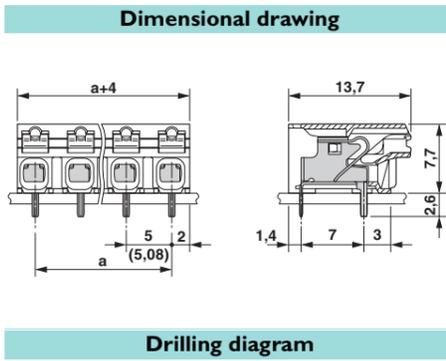
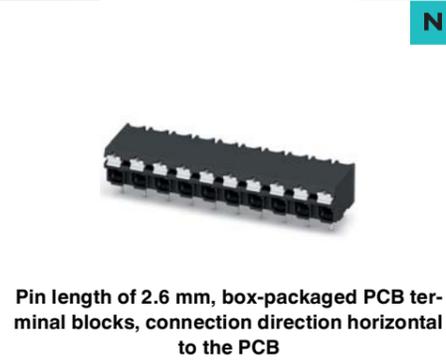
Horizontal and vertical conductor connection up to 1.5 mm²



Notes:
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 1) Current carrying capacity curve upon request.
 2) UL/CUL on request.

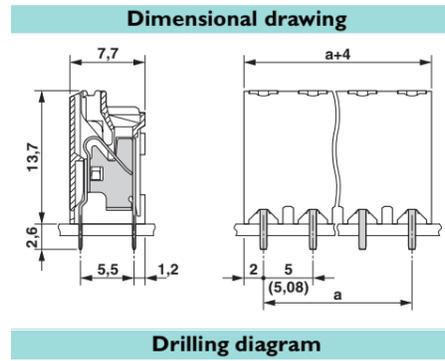
- Push-in direct plug-in technology for solid or stranded conductors
- Suitable for use in SMT reflow processes
- Horizontal and vertical design with 5.0 mm and 5.08 mm pitch
- Two solder pins for a high level of stability on the PCB
- Standard pin length of 2.6 mm also suitable for wave soldering processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting in the reflow process with pin length of 2.0 mm

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

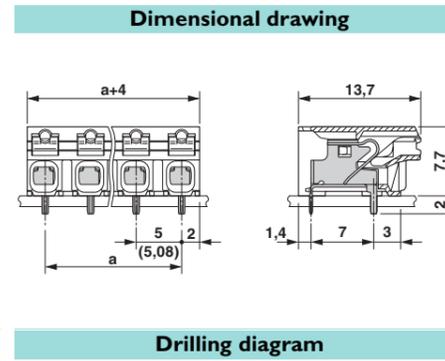


Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-H-5,0 P26	1822972	300
SPT-THR 1,5/ 3-H-5,0 P26	1822985	190
SPT-THR 1,5/ 4-H-5,0 P26	1822998	130
SPT-THR 1,5/ 5-H-5,0 P26	1823007	110
SPT-THR 1,5/ 6-H-5,0 P26	1823010	80
SPT-THR 1,5/ 7-H-5,0 P26	1823023	60
SPT-THR 1,5/ 8-H-5,0 P26	1823036	60
SPT-THR 1,5/ 9-H-5,0 P26	1823049	40
SPT-THR 1,5/10-H-5,0 P26	1823052	40
SPT-THR 1,5/11-H-5,0 P26	1823065	40
SPT-THR 1,5/12-H-5,0 P26	1823078	40
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-H-5,08 P26	1823081	300
SPT-THR 1,5/ 3-H-5,08 P26	1823094	190
SPT-THR 1,5/ 4-H-5,08 P26	1823104	130
SPT-THR 1,5/ 5-H-5,08 P26	1823117	110
SPT-THR 1,5/ 6-H-5,08 P26	1823120	80
SPT-THR 1,5/ 7-H-5,08 P26	1823133	60
SPT-THR 1,5/ 8-H-5,08 P26	1823146	60
SPT-THR 1,5/ 9-H-5,08 P26	1823159	40
SPT-THR 1,5/10-H-5,08 P26	1823162	40
SPT-THR 1,5/11-H-5,08 P26	1823175	40
SPT-THR 1,5/12-H-5,08 P26	1823188	40

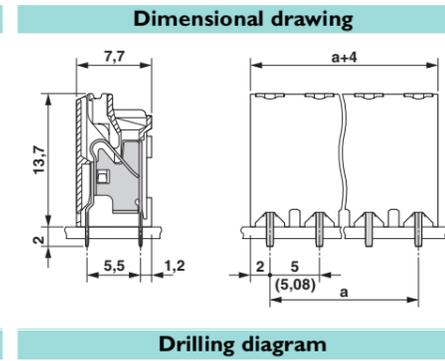
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	13.5(1) / 1.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Solid / stranded	0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.2 - 0.75
Stranded with ferrules with plastic sleeve [mm ²]	- / -
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	-
Solid / stranded	-
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 500
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	8
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.1 / 0,7 x 0,3 mm



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-V-5,0 P26	1822532	440
SPT-THR 1,5/ 3-V-5,0 P26	1822545	280
SPT-THR 1,5/ 4-V-5,0 P26	1822558	190
SPT-THR 1,5/ 5-V-5,0 P26	1822561	160
SPT-THR 1,5/ 6-V-5,0 P26	1822574	120
SPT-THR 1,5/ 7-V-5,0 P26	1822587	90
SPT-THR 1,5/ 8-V-5,0 P26	1822590	90
SPT-THR 1,5/ 9-V-5,0 P26	1822600	60
SPT-THR 1,5/10-V-5,0 P26	1822613	60
SPT-THR 1,5/11-V-5,0 P26	1822626	60
SPT-THR 1,5/12-V-5,0 P26	1822639	60
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-5,08 P26	1822642	440
SPT-THR 1,5/ 3-V-5,08 P26	1822655	280
SPT-THR 1,5/ 4-V-5,08 P26	1822668	190
SPT-THR 1,5/ 5-V-5,08 P26	1822671	160
SPT-THR 1,5/ 6-V-5,08 P26	1822684	120
SPT-THR 1,5/ 7-V-5,08 P26	1822697	90
SPT-THR 1,5/ 8-V-5,08 P26	1822707	90
SPT-THR 1,5/ 9-V-5,08 P26	1822710	60
SPT-THR 1,5/10-V-5,08 P26	1822723	60
SPT-THR 1,5/11-V-5,08 P26	1822736	60
SPT-THR 1,5/12-V-5,08 P26	1822749	60



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-H-5,0 P20 R24	1823858	250
SPT-THR 1,5/ 3-H-5,0 P20 R32	1823861	250
SPT-THR 1,5/ 4-H-5,0 P20 R32	1823874	250
SPT-THR 1,5/ 5-H-5,0 P20 R56	1823887	250
SPT-THR 1,5/ 6-H-5,0 P20 R56	1823890	250
SPT-THR 1,5/ 7-H-5,0 P20 R56	1823900	250
SPT-THR 1,5/ 8-H-5,0 P20 R56	1823913	250
SPT-THR 1,5/ 9-H-5,0 P20 R88	1823926	250
SPT-THR 1,5/10-H-5,0 P20 R88	1823939	250
SPT-THR 1,5/11-H-5,0 P20 R88	1823942	250
SPT-THR 1,5/12-H-5,0 P20 R88	1823955	250
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-H-5,08 P20 R24	1823968	250
SPT-THR 1,5/ 3-H-5,08 P20 R32	1823971	250
SPT-THR 1,5/ 4-H-5,08 P20 R32	1823984	250
SPT-THR 1,5/ 5-H-5,08 P20 R56	1823997	250
SPT-THR 1,5/ 6-H-5,08 P20 R56	1824006	250
SPT-THR 1,5/ 7-H-5,08 P20 R56	1824019	250
SPT-THR 1,5/ 8-H-5,08 P20 R56	1824022	250
SPT-THR 1,5/ 9-H-5,08 P20 R88	1824035	250
SPT-THR 1,5/10-H-5,08 P20 R88	1824048	250
SPT-THR 1,5/11-H-5,08 P20 R88	1824051	250
SPT-THR 1,5/12-H-5,08 P20 R88	1824064	250



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-V-5,0 P20 R24	1823418	180
SPT-THR 1,5/ 3-V-5,0 P20 R32	1823421	180
SPT-THR 1,5/ 4-V-5,0 P20 R56	1823434	180
SPT-THR 1,5/ 5-V-5,0 P20 R56	1823447	180
SPT-THR 1,5/ 6-V-5,0 P20 R56	1823450	180
SPT-THR 1,5/ 7-V-5,0 P20 R56	1823463	180
SPT-THR 1,5/ 8-V-5,0 P20 R88	1823476	180
SPT-THR 1,5/ 9-V-5,0 P20 R88	1823489	180
SPT-THR 1,5/10-V-5,0 P20 R88	1823492	180
SPT-THR 1,5/11-V-5,0 P20 R88	1823505	180
SPT-THR 1,5/12-V-5,0 P20 R88	1823515	180
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-5,08 P20 R24	1823528	180
SPT-THR 1,5/ 3-V-5,08 P20 R32	1823531	180
SPT-THR 1,5/ 4-V-5,08 P20 R56	1823544	180
SPT-THR 1,5/ 5-V-5,08 P20 R56	1823557	180
SPT-THR 1,5/ 6-V-5,08 P20 R56	1823560	180
SPT-THR 1,5/ 7-V-5,08 P20 R56	1823573	180
SPT-THR 1,5/ 8-V-5,08 P20 R88	1823586	180
SPT-THR 1,5/ 9-V-5,08 P20 R88	1823599	180
SPT-THR 1,5/10-V-5,08 P20 R88	1823609	180
SPT-THR 1,5/11-V-5,08 P20 R88	1823612	180
SPT-THR 1,5/12-V-5,08 P20 R88	1823625	180

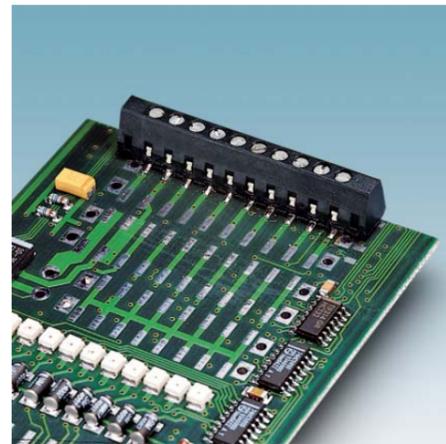
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw connection for the reflow process, currents of up to 24 A

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

SMD PCB terminal blocks with a connection cross section of up to 1.5 mm²



- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Type of packing: tube magazine
- Box packaging or tape-on-reel packing in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:
 B 2,2 x 6,5, ISO 7049/DIN ISO 7049 fixing screw is supplied as standard. Insertion hole: 2.6 mm, soldering tag: 2.5 x 1.2 mm

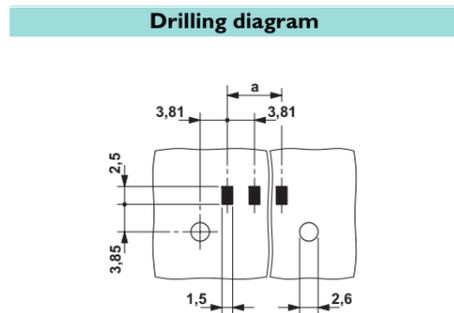
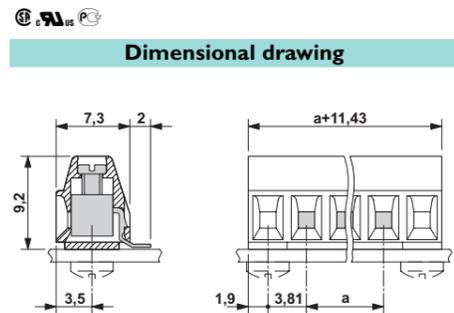
When ordering, please note the number of pieces per unit pack. For production reasons, only fully filled tube magazines can be supplied.

1) Current carrying capacity curve upon request.



Without housing overlapping, delivery form: tube magazine

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Marker cards SK 3,81/2,8	797

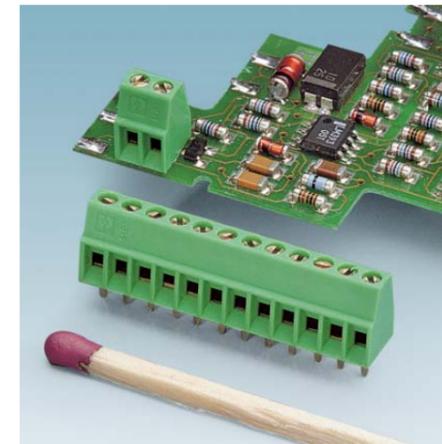


Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	0.14 - 1.5 / 0.14 - 1 / 26 - 16
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	0.14 - 0.5 / 0.14 - 0.2
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	M2
Tightening torque	[Nm]
Type of insulation material / insulation material group	PA-F / IIIa
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.81 mm pitch, color: Black			
MKDS 1/ 2-3,81 SMD BK	1727230	35	
MKDS 1/ 3-3,81 SMD BK	1727243	28	
MKDS 1/ 4-3,81 SMD BK	1727256	23	
MKDS 1/ 5-3,81 SMD BK	1727269	20	
MKDS 1/ 6-3,81 SMD BK	1727272	17	
MKDS 1/ 7-3,81 SMD BK	1727285	15	
MKDS 1/ 8-3,81 SMD BK	1727175	14	
MKDS 1/ 9-3,81 SMD BK	1727298	12	
MKDS 1/10-3,81 SMD BK	1727308	11	
MKDS 1/11-3,81 SMD BK	1727311	10	
MKDS 1/12-3,81 SMD BK	1727324	10	

Connection cross section of up to 0.5 mm²



- MICRO PCB terminal block with 2.54 mm pitch
- Single-row type with horizontal connection direction
- Application in miniature assemblies with high contact density

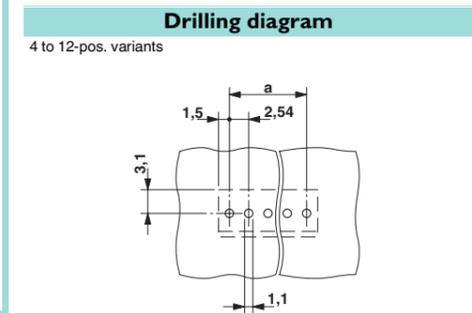
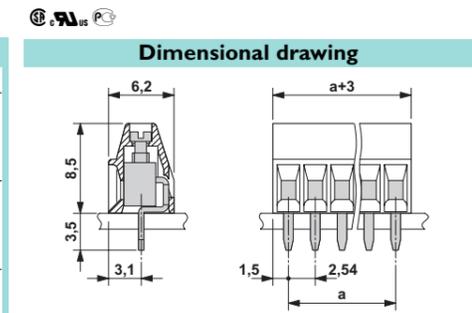
Notes:
 The 2 and 3-pos. versions have a locating pin (1.5 mm long) to support the mechanical load.
 For drilling diagram and dimensional drawing for MPT 0,5/...2,54, 2 to 3-pos, see page 838.

Accessories		
For all types	Type	Page
	Marker cards SK 2,54/2,8	796
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	0.14 - 0.34 / 0.14 - 0.34
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	M1.6
Tightening torque	[Nm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm]

No. of pos.	Dim. a [mm]
2	2.54
3	5.08
4	7.62
5	10.16
6	12.70
7	15.24
8	17.78
9	20.32
10	22.86
11	25.40
12	27.94

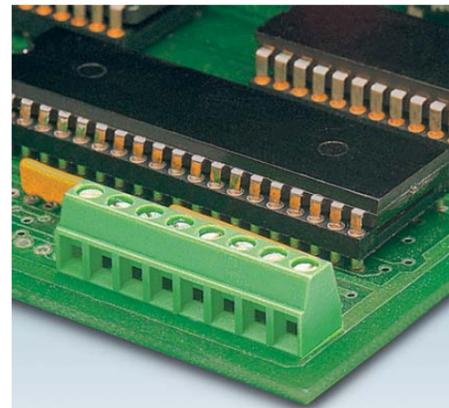
MICRO PCB terminal block with 2.54 mm pitch



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 2.54 mm, color: Green			
MPT 0,5/ 2-2,54	1725656	250	
MPT 0,5/ 3-2,54	1725669	250	
MPT 0,5/ 4-2,54	1725672	250	
MPT 0,5/ 5-2,54	1725685	250	
MPT 0,5/ 6-2,54	1725698	100	
MPT 0,5/ 7-2,54	1725708	100	
MPT 0,5/ 8-2,54	1725711	100	
MPT 0,5/ 9-2,54	1725724	100	
MPT 0,5/10-2,54	1725737	100	
MPT 0,5/11-2,54	1725740	50	
MPT 0,5/12-2,54	1725753	50	

Connection cross section of up to 1.5 mm²

Notes:
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



– PCB terminal blocks with extremely compact housing dimensions with 3.5 or 3.81 mm pitch

MKDS 1/...

– Single-row type with horizontal connection direction

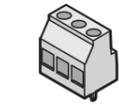
SMKDS 1/...

– Conductor and screwdriver axis at an angle of 55° to the PCB

– An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

MKKDS 1/...

– Double-level type with high packaging and connection density
– Offset levels for optimum accessibility of the terminal points



Metric 3.5 mm pitch



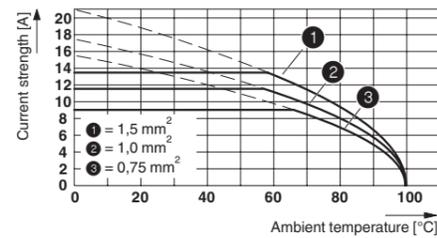
Detection lug for models with 3.81 mm inch pitch

Accessories

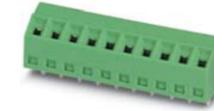
For all types	Type	Page
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	

Current carrying capacity curve

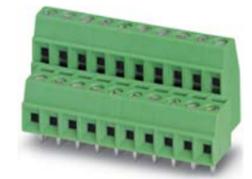
Type: MKDS 1/5-3,5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions = 5



With horizontal connection direction



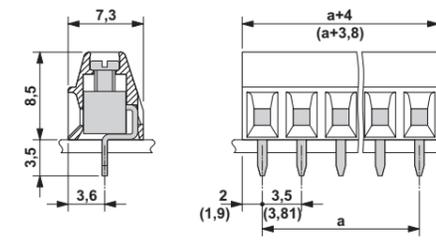
With 55° angled connection direction



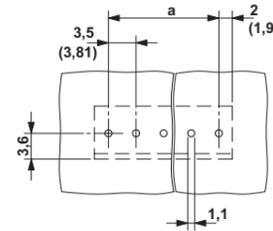
Double-level PCB terminal block with offset levels



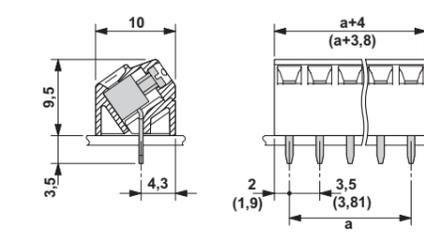
Dimensional drawing



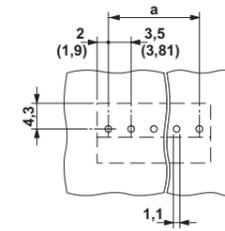
Drilling diagram



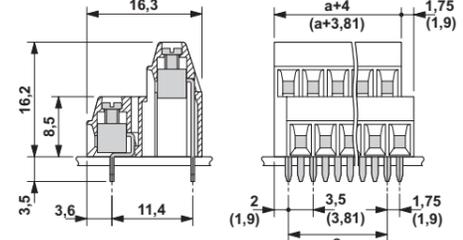
Dimensional drawing



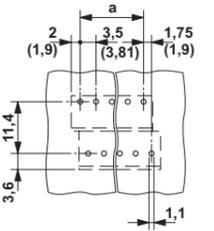
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	MKDS 1/...	SMKDS 1/...	MKKDS 1/...
Rated current / conductor cross section	13.5) / 1.5	10) / 1.5	8) / 1.5
Rated insulation voltage for pollution degree 2	200	200	200
Pitch	3.5 / 3.81	3.5 / 3.81	3.5 / 3.81
Connection capacity	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 1.5 / 0.14 - 1 / 26 - 16	0.14 - 1.5 / 0.14 - 1 / 26 - 16
Solid / stranded	0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
Stranded with ferrules without plastic sleeve	0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
Stranded with ferrules with plastic sleeve	0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
Multi-conductor connection capacity (two conductors with the same cross section)	0.14 - 0.5 / 0.14 - 0.34	0.14 - 0.5 / 0.14 - 0.2	0.14 - 0.5 / 0.14 - 0.2
Solid / stranded	0.14 - 0.5 / 0.14 - 0.34	0.14 - 0.5 / 0.14 - 0.2	0.14 - 0.5 / 0.14 - 0.2
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	160 200 400	160 200 400	160 200 400
Rated surge voltage	2.5 2.5 2.5	2.5 2.5 2.5	2.5 2.5 2.5
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	300 - - 300	300 - - 300	300 - - 300
Nominal current	10 - - 10	10 - - 10	10 - - 10
Connection capacity AWG	30 - 16 - - 30 - 16	30 - 16 - - 30 - 16	30 - 16 - - 30 - 16
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	150 - - 300	150 - - 300	150 - - 300
Nominal current	10 - - 10	10 - - 10	10 - - 10
Connection capacity AWG	28 - 16 - - 28 - 16	28 - 16 - - 28 - 16	28 - 16 - - 28 - 16
General data			
Stripping length	5	5	5
Screw thread	M2	M2	M2
Tightening torque	0.22 - 0.25	0.22 - 0.25	0.22 - 0.25
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1.1 / 0.5 x 0.9 mm	1.1 / 0.5 x 0.9 mm	1.1 / 0.5 x 0.9 mm

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MKDS 1/ 2-3,5	1751248	250
MKDS 1/ 3-3,5	1751251	250
MKDS 1/ 4-3,5	1751264	250
MKDS 1/ 5-3,5	1751277	250
MKDS 1/ 6-3,5	1751280	100
MKDS 1/ 7-3,5	1751293	100
MKDS 1/ 8-3,5	1751303	100
MKDS 1/ 9-3,5	1751316	100
MKDS 1/10-3,5	1751329	100
MKDS 1/11-3,5	1751332	50
MKDS 1/12-3,5	1751345	50
MKDS 1/13-3,5	1751358	50
MKDS 1/14-3,5	1751361	50
MKDS 1/15-3,5	1751374	50
MKDS 1/16-3,5	1751387	50
Pitch 3.81 mm, color: Green		
MKDS 1/ 2-3,81	1727010	250
MKDS 1/ 3-3,81	1727023	250
MKDS 1/ 4-3,81	1727036	250
MKDS 1/ 5-3,81	1727049	250
MKDS 1/ 6-3,81	1727052	100
MKDS 1/ 7-3,81	1727065	100
MKDS 1/ 8-3,81	1727078	100
MKDS 1/ 9-3,81	1727081	100
MKDS 1/10-3,81	1727094	100
MKDS 1/11-3,81	1727104	50
MKDS 1/12-3,81	1727117	50

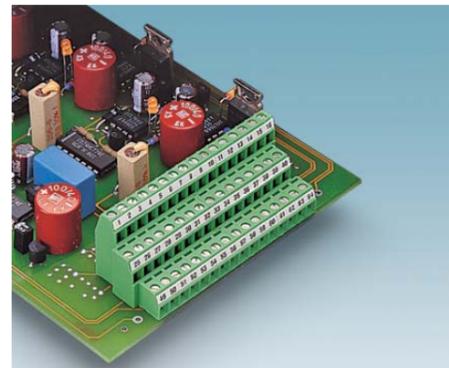
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SMKDS 1/ 2-3,5	1751099	250
SMKDS 1/ 3-3,5	1751109	250
SMKDS 1/ 4-3,5	1751112	250
SMKDS 1/ 5-3,5	1751125	100
SMKDS 1/ 6-3,5	1751138	100
SMKDS 1/ 7-3,5	1751141	100
SMKDS 1/ 8-3,5	1751154	100
SMKDS 1/ 9-3,5	1751167	100
SMKDS 1/10-3,5	1751170	100
SMKDS 1/11-3,5	1751183	50
SMKDS 1/12-3,5	1751196	50
SMKDS 1/13-3,5	1751206	50
SMKDS 1/14-3,5	1751219	50
SMKDS 1/15-3,5	1751222	50
SMKDS 1/16-3,5	1751235	50
Pitch 3.81 mm, color: Green		
SMKDS 1/ 2-3,81	1728284	250
SMKDS 1/ 3-3,81	1728297	250
SMKDS 1/ 4-3,81	1728307	250
SMKDS 1/ 5-3,81	1728310	100
SMKDS 1/ 6-3,81	1728323	100
SMKDS 1/ 7-3,81	1728336	100
SMKDS 1/ 8-3,81	1728349	100
SMKDS 1/ 9-3,81	1728352	100
SMKDS 1/10-3,81	1728365	100
SMKDS 1/11-3,81	1728378	50
SMKDS 1/12-3,81	1728381	50

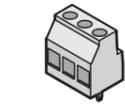
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MKKDS 1/ 2-3,5	1751390	50
MKKDS 1/ 3-3,5	1751400	50
MKKDS 1/ 4-3,5	1751413	50
MKKDS 1/ 5-3,5	1751426	50
MKKDS 1/ 6-3,5	1751439	50
MKKDS 1/ 7-3,5	1751442	50
MKKDS 1/ 8-3,5	1751455	50
MKKDS 1/ 9-3,5	1751468	50
MKKDS 1/10-3,5	1751471	50
MKKDS 1/11-3,5	1751484	50
MKKDS 1/12-3,5	1751497	50
MKKDS 1/13-3,5	1751507	50
MKKDS 1/14-3,5	1751510	50
MKKDS 1/15-3,5	1751523	50
MKKDS 1/16-3,5	1751536	50
Pitch 3.81 mm, color: Green		
MKKDS 1/ 2-3,81	1708026	50
MKKDS 1/ 3-3,81	1708039	50
MKKDS 1/ 4-3,81	1708042	50
MKKDS 1/ 5-3,81	1708055	50
MKKDS 1/ 6-3,81	1708068	50
MKKDS 1/ 7-3,81	1708071	50
MKKDS 1/ 8-3,81	1708084	50
MKKDS 1/ 9-3,81	1708107	50
MKKDS 1/10-3,81	1708110	50
MKKDS 1/11-3,81	1708123	50
MKKDS 1/12-3,81	1708136	50

Connection cross section of up to 1.5 mm²



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 For dimensional drawing and drilling diagram of 2 and 3-pos. MKDSFW 1,5/...-3,5, see page 838.
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

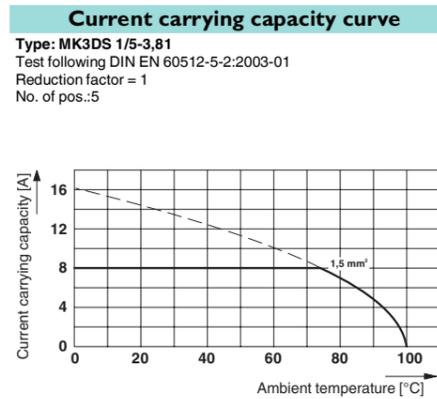


Metric 3.5 mm pitch



Detection lug for models with 3.81 mm inch pitch

Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	



– PCB terminal blocks with extremely compact housing dimensions with 3.5 or 3.81 mm pitch

MK3DS 1/...
 – Three-level type with high packaging and connection density
 – Offset levels for optimum accessibility of the terminal points

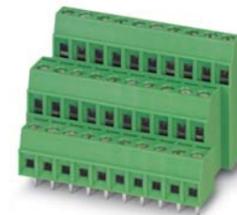
SMKDS 1,5/...
 – Conductor and screwdriver axis at an angle of 55° to the PCB
 – An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

MKDSFW 1,5/...
 – Horizontal series with vertical connection direction to the PCB

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MK3DS 1/...-3,81	SMKDS 1,5/...-3,5	MKDSFW 1,5/...-3,5
8 ¹⁾ / 1,5	12 ¹⁾ / 1,5	12 ¹⁾ / 1,5
160	160	160
3.81	3.5	3.5
0.14 - 1.5 / 0.14 - 1 / 26 - 16	0.08 - 1.5 / 0.08 - 1.5 / 28 - 16	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16
0.25 - 0.5	0.25 - 1.5	0.25 - 1.5
0.25 - 0.5	0.25 - 1.5	0.25 - 1.5
0.14 - 0.5 / 0.14 - 0.2	0.08 - 0.5 / 0.08 - 0.75	0.14 - 0.75 / 0.14 - 0.75
-	0.25 - 0.34	0.25 - 0.5
-	-	0.5 - 1
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
160 160 320	160 160 320	160 160 320
2.5 2.5 2.5	2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D	B C D
300 - - 300	250 - - 300	300 - - 300
10 - - 10	10 - - 10	10 - - 10
30 - 16 - - 30 - 16	30 - 14 - - 30 - 14	30 - 14 - - 30 - 14
B C D	B C D	B C D
150 - - 300	- - -	- - -
10 - - 10	- - -	- - -
28 - 16 - - 28 - 16	- - -	- - -
5	7	6
M2	M2	M2
0.22 - 0.25	0.22 - 0.25	0.22 - 0.25
PA / I	PA / I	PA / I
V0	V0	V0
1.1 / 0.5 x 0.9 mm	1.3 / 0.6 x 1 mm	1.3 / 0.5 x 0.9 mm

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	31.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91



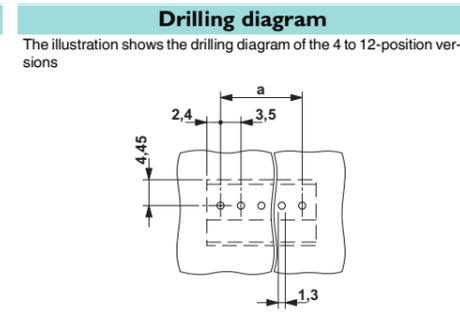
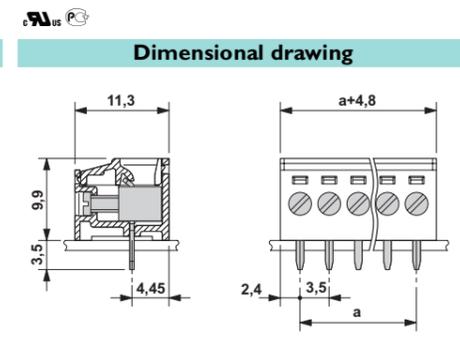
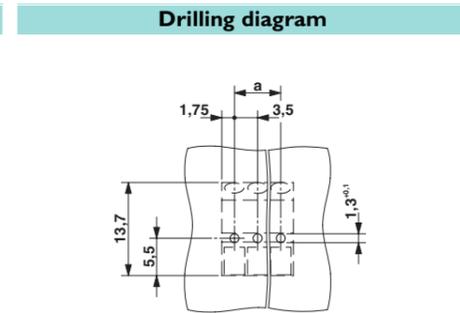
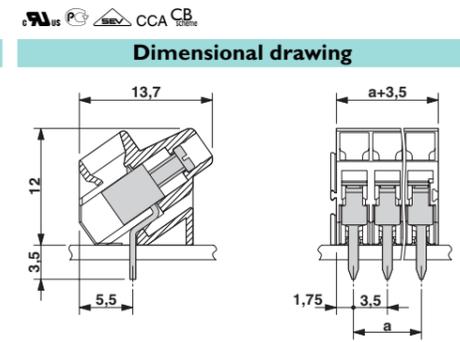
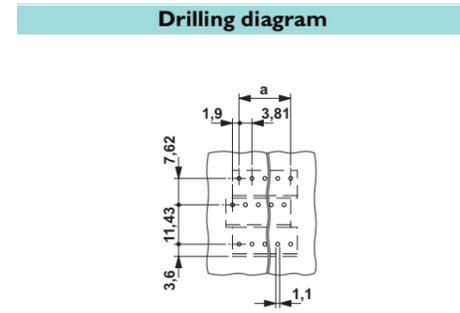
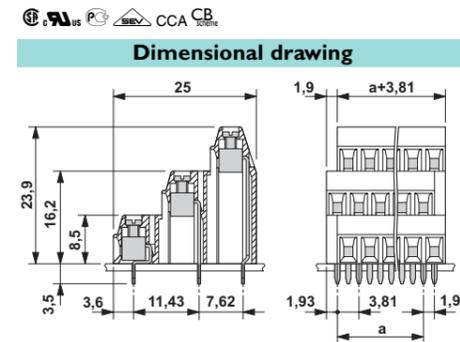
Three-level PCB terminal block with offset levels, without housing overlapping



With 55° angled connection direction, with housing overlapping



With vertical connection direction and stand-off, without housing overlapping



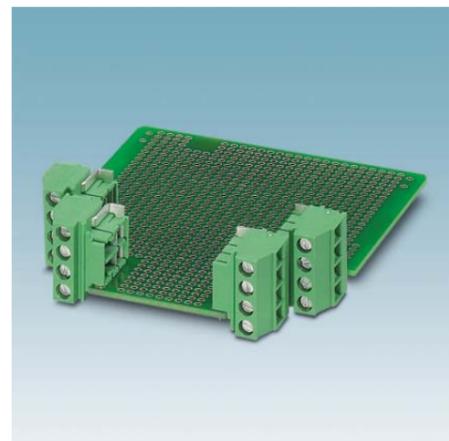
Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SMKDS 1,5/ 2-3,5	1931770	50
SMKDS 1,5/ 3-3,5	1931783	50
Pitch 3.81 mm, color: Green		
MK3DS 1/ 2-3,81	1727735	50
MK3DS 1/ 3-3,81	1727748	50
MK3DS 1/ 4-3,81	1727751	50
MK3DS 1/ 5-3,81	1727764	50
MK3DS 1/ 6-3,81	1727777	50
MK3DS 1/ 7-3,81	1727780	50
MK3DS 1/ 8-3,81	1727793	50
MK3DS 1/ 9-3,81	1727803	50
MK3DS 1/10-3,81	1727816	50
MK3DS 1/11-3,81	1727829	50
MK3DS 1/12-3,81	1727832	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MKDSFW 1,5/ 2-3,5	1868128	50
MKDSFW 1,5/ 3-3,5	1868131	50
MKDSFW 1,5/ 4-3,5	1868144	50
MKDSFW 1,5/ 5-3,5	1868157	50
MKDSFW 1,5/ 6-3,5	1868160	50
MKDSFW 1,5/ 7-3,5	1868173	50
MKDSFW 1,5/ 8-3,5	1868186	50
MKDSFW 1,5/ 9-3,5	1868199	50
MKDSFW 1,5/10-3,5	1868209	50
MKDSFW 1,5/11-3,5	1868212	50
MKDSFW 1,5/12-3,5	1868225	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MKDSFW 1,5/ 2-3,5	1868128	50
MKDSFW 1,5/ 3-3,5	1868131	50
MKDSFW 1,5/ 4-3,5	1868144	50
MKDSFW 1,5/ 5-3,5	1868157	50
MKDSFW 1,5/ 6-3,5	1868160	50
MKDSFW 1,5/ 7-3,5	1868173	50
MKDSFW 1,5/ 8-3,5	1868186	50
MKDSFW 1,5/ 9-3,5	1868199	50
MKDSFW 1,5/10-3,5	1868209	50
MKDSFW 1,5/11-3,5	1868212	50
MKDSFW 1,5/12-3,5	1868225	50

Connection cross section of up to 1.5 mm²

Notes:
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 2) PCB terminal blocks with 5 mm pitch, see page 113.



- PCB terminal block for ME/ME MAX electronic housing
- PCB terminal block is orthogonal to the PCB
- "Left" and "right" design
- Pitch 3.5 mm
- Number of positions between 3 and 5

Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8	797

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSO 1,5/ 3-L-3,5 KMGY	MKDSO 1,5/ 3-R-3,5 KMGY
8 ¹⁾ / 1.5	8 ¹⁾ / 1.5
160	160
3.5	3.5
0.14 - 1.5 / 0.14 - 1.5 / 28 - 16	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16
0.25 - 1.5	0.25 - 1.5
0.25 - 0.5	0.25 - 0.5
0.08 - 0.5 / 0.08 - 0.75	0.08 - 0.5 / 0.08 - 0.75
0.25 - 0.34	0.25 - 0.34
0.5 - 0.5	0.5 - 0.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
160 160 320	160 160 320
2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D
- - -	- - -
- - -	- - -
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
7	7
M2	M2
0.22 - 0.25	0.22 - 0.25
PA / I	PA / I
V0	V0
1.2 / 0.8 x 0.8 mm	1.2 / 0.8 x 0.8 mm

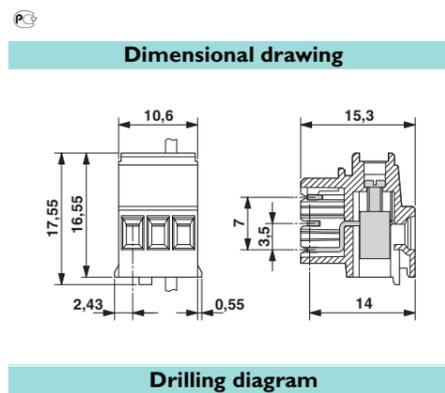
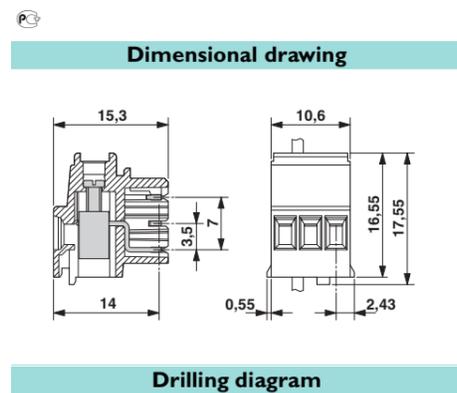
No. of pos.	Dim. a [mm]
3	7.00
4	10.50
5	14.00



With "left" solder pins leading off at a right angle



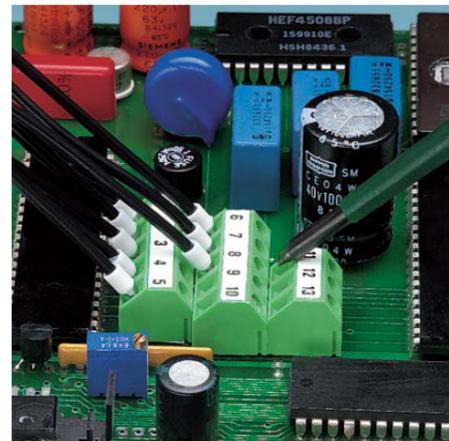
With "right" solder pins leading off at a right angle



Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB terminal block, left, 3.5 mm pitch, color: light gray ²⁾		
MKDSO 1,5/ 3-L-3,5 KMGY	2278445	50
MKDSO 1,5/ 4-L-3,5 KMGY	2278432	50
MKDSO 1,5/ 5-L-3,5 KMGY	2278393	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB terminal block, right, 3.5 mm pitch, color: light gray		
MKDSO 1,5/ 3-R-3,5 KMGY	2278458	50
MKDSO 1,5/ 4-R-3,5 KMGY	2278429	50
MKDSO 1,5/ 5-R-3,5 KMGY	2278416	50

Connection cross section of up to 1.5 mm²



- PCB terminal blocks with compact housing dimensions and a flat design
- Conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKDSN 1,5/...

- Single-row type with horizontal connection direction

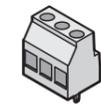
SMKDSN 1,5/...

- Conductor and screwdriver axis at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



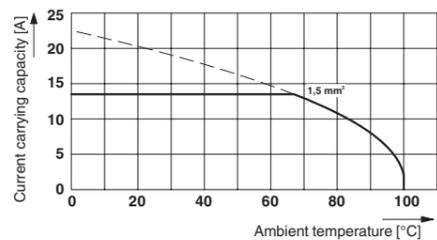
Detection lug for models with 5.08 mm inch pitch

Accessories

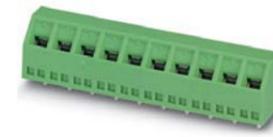
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...- 5	829

Current carrying capacity curve

Type: MKDSN 1,5/5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of pos.:5



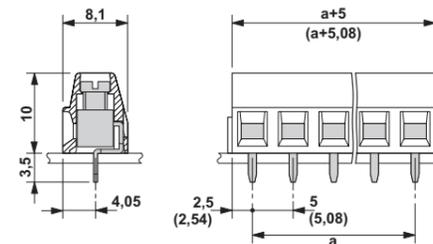
Low-profile design, with housing overlapping



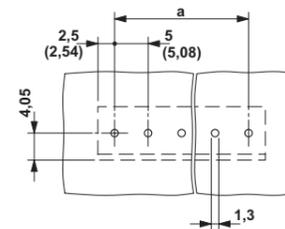
With 55° angled connection direction, without housing overlapping



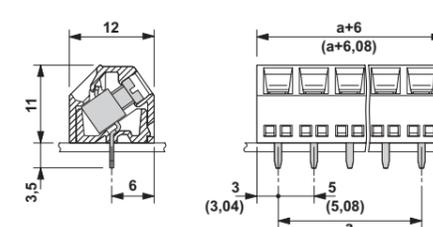
Dimensional drawing



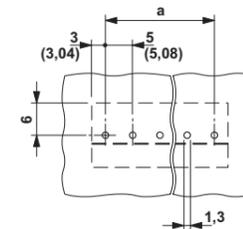
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSN 1,5/ 2	1729018	250
MKDSN 1,5/ 3	1729021	250
MKDSN 1,5/ 4	1729034	250
MKDSN 1,5/ 5	1729047	250
MKDSN 1,5/ 6	1729050	100
MKDSN 1,5/ 7	1729063	100
MKDSN 1,5/ 8	1729076	100
MKDSN 1,5/ 9	1729089	100
MKDSN 1,5/10	1729092	100
MKDSN 1,5/11	1729102	50
MKDSN 1,5/12	1729115	50

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MKDSN 1,5/ 2-5,08	1729128	250
MKDSN 1,5/ 3-5,08	1729131	250
MKDSN 1,5/ 4-5,08	1729144	250
MKDSN 1,5/ 5-5,08	1729157	250
MKDSN 1,5/ 6-5,08	1729160	100
MKDSN 1,5/ 7-5,08	1729173	100
MKDSN 1,5/ 8-5,08	1729186	100
MKDSN 1,5/ 9-5,08	1729199	100
MKDSN 1,5/10-5,08	1729209	100
MKDSN 1,5/11-5,08	1729212	50
MKDSN 1,5/12-5,08	1729225	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMKDSN 1,5/ 2	1869062	250
SMKDSN 1,5/ 3	1869075	250
SMKDSN 1,5/ 4	1869088	250
SMKDSN 1,5/ 5	1869091	100
SMKDSN 1,5/ 6	1869101	100
SMKDSN 1,5/ 7	1869114	100
SMKDSN 1,5/ 8	1869127	100
SMKDSN 1,5/ 9	1869130	100
SMKDSN 1,5/10	1869143	100
SMKDSN 1,5/11	1869156	50
SMKDSN 1,5/12	1869169	50
SMKDSN 1,5/13	1869172	50
SMKDSN 1,5/14	1869185	50
SMKDSN 1,5/15	1869198	50
SMKDSN 1,5/16	1869208	50

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
SMKDSN 1,5/ 2-5,08	1869211	250
SMKDSN 1,5/ 3-5,08	1869224	250
SMKDSN 1,5/ 4-5,08	1869237	250
SMKDSN 1,5/ 5-5,08	1869240	100
SMKDSN 1,5/ 6-5,08	1869253	100
SMKDSN 1,5/ 7-5,08	1869266	100
SMKDSN 1,5/ 8-5,08	1869279	100
SMKDSN 1,5/ 9-5,08	1869282	100
SMKDSN 1,5/10-5,08	1869295	100
SMKDSN 1,5/11-5,08	1869305	50
SMKDSN 1,5/12-5,08	1869318	50
SMKDSN 1,5/13-5,08	1869321	50
SMKDSN 1,5/14-5,08	1869334	50
SMKDSN 1,5/15-5,08	1869347	50
SMKDSN 1,5/16-5,08	1869350	50

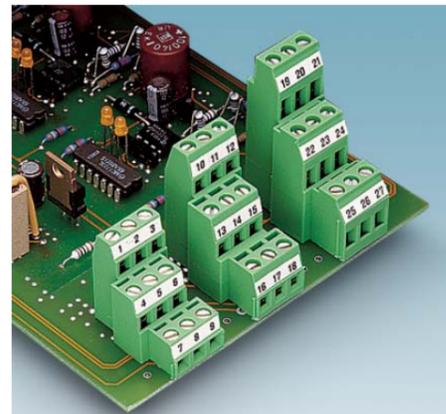
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSN 1,5/ ...	SMKDSN 1,5/ ...
13.5) / 1.5	13.5) / 1.5
400	400
5 / 5.08	5 / 5.08
0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16
0.25 - 1	0.25 - 1.5
0.25 - 1	0.25 - 1.5
0.14 - 0.75 / 0.14 - 0.75	0.14 - 0.75 / 0.14 - 0.75
0.25 - 0.5	0.25 - 0.5
0.5 - 0.75	0.5 - 1
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
250 400 630	250 400 630
4 4 4	4 4 4
B C D	B C D
300 - 300	300 - 300
10 - 10	10 - 10
30 - 14 - 30 - 14	30 - 14 - 30 - 14
B C D	B C D
150 - 300	150 - 300
10 - 10	10 - 10
28 - 14 - 28 - 14	28 - 14 - 28 - 14
6	6
M3	M3
0.5 - 0.6	0.5 - 0.6
PA / I	PA / I
V0	V0
1.3 / 0,5 x 1 mm	1.3 / 0,5 x 1 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

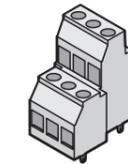
Connection cross section of up to 1.5 mm²



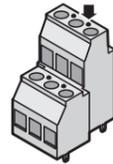
Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

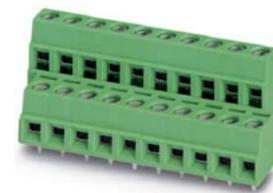
*) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



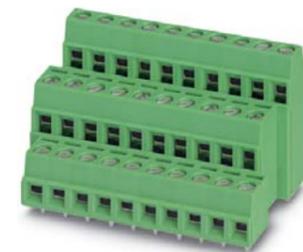
Detection lug for models with 5.08 mm inch pitch



Double-level PCB terminal block with offset levels, with housing overlapping



High PCB terminal block with housing overlapping



Three-level PCB terminal block with offset levels, with housing overlapping

- Compact housing dimensions and low-profile design
- Conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKKDSN 1,5/...

- Double-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

MKKDSNH 1,5/...

- Single-row type, back level of the double-level PCB terminal block

MK3DSN 1,5/...

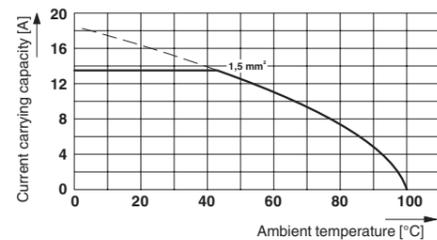
- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

Accessories

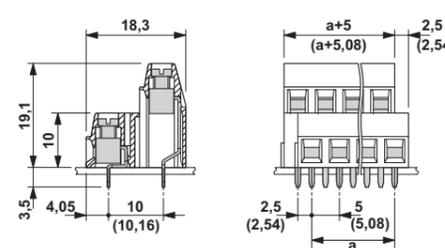
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829

Current carrying capacity curve

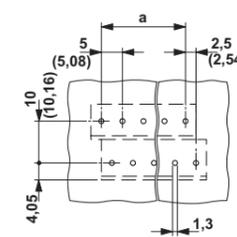
Type: MKKDSN 1,5/5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



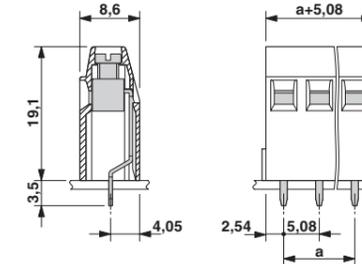
Dimensional drawing



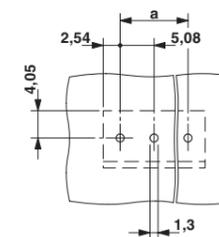
Drilling diagram



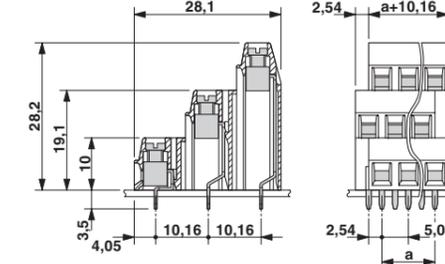
Dimensional drawing



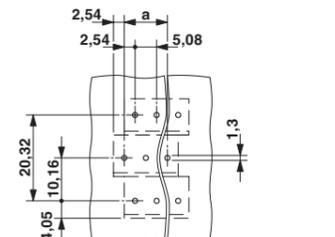
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKKDSN 1,5/ ...	MKKDSNH 1,5/ ...-5,08	MK3DSN 1,5/ ...-5,08
13.5) / 1.5	13.5) / 1.5	10) / 1.5
400	400	400
5 / 5.08	5.08	5.08
0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16
0.25 - 1	0.25 - 1.5	0.25 - 1
0.25 - 1	0.25 - 1.5	0.25 - 1
0.14 - 0.75 / 0.14 - 0.75	0.14 - 0.75 / 0.14 - 0.75	0.14 - 0.75 / 0.14 - 0.75
0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
0.5 - 0.5	0.5 - 1	0.5 - 0.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
250 400 630	250 400 630	250 400 630
4 4 4	4 4 4	4 4 4
B C D	B C D	B C D
300 - 300	300 - 300	300 - 300
10 - 10	10 - 10	10 - 10
30 - 14 - 30 - 14	30 - 14 - 30 - 14	30 - 14 - 30 - 14
B C D	B C D	B C D
150 - 300	- - -	150 - 300
10 - 10	- - -	10 - 10
28 - 14 - 28 - 14	- - -	28 - 14 - 28 - 14
6	6	6
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA / I	PA / I	PA / I
V0	V0	V2
1.3 / 0.5 x 1 mm	1.3 / 0.5 x 1 mm	1.3 / 0.5 x 1 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDSN 1,5/ 2	1726037	250
MKKDSN 1,5/ 3	1726053	250
MKKDSN 1,5/ 4	1726118	50
MKKDSN 1,5/ 5	1726121	50
MKKDSN 1,5/ 6	1726134	50
MKKDSN 1,5/ 7	1726147	50
MKKDSN 1,5/ 8	1726150	50
5.08 mm pitch, color: Green		
MKKDSN 1,5/ 2-5,08	1726040	250
MKKDSN 1,5/ 3-5,08	1726066	250
MKKDSN 1,5/ 4-5,08	1726163	50
MKKDSN 1,5/ 5-5,08	1726176	50
MKKDSN 1,5/ 6-5,08	1726189	50
MKKDSN 1,5/ 7-5,08	1726192	50
MKKDSN 1,5/ 8-5,08	1726202	50

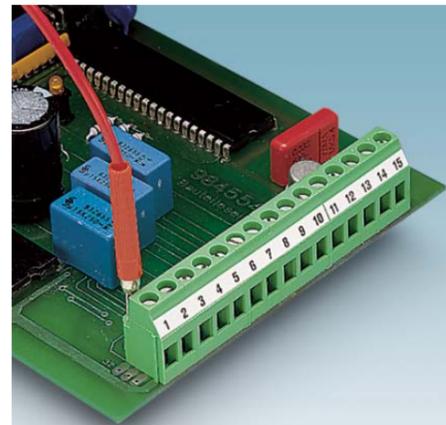
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MKKDSNH 1,5/ 2-5,08	1731828	50
MKKDSNH 1,5/ 3-5,08	1731831	50
MKKDSNH 1,5/ 4-5,08	1731857	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSN 1,5/ 2-5,08	1723289	100
MK3DSN 1,5/ 3-5,08	1723292	100

Connection cross section of up to 1.5 mm²

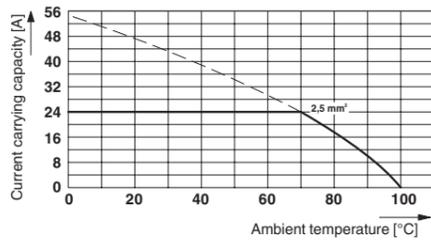


Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Current carrying capacity curve

Type: MKDS 1,5/2 and MKDS 1,5/3
 Test as per DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



Accessories

For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829
Only for MKDSP 1,5 and SMKDSP 1,5		
	Test plug MPS	831
Only for MKDS 1,5		
	Pitch spacer, width 1.25 mm RZ 1,25-MKDS 1,5 Order No. 1702048	

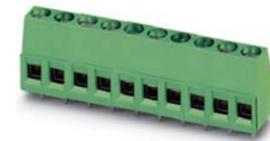
– Single-row PCB terminal blocks for conductor cross sections up to 1.5 mm²
 – 5.0 or 5.08 mm pitch

MKDSP 1,5/...

– With a 2.3 mm Ø test connection

SMKDSP 1,5/...

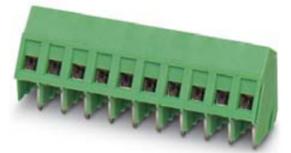
– Conductor and screwdriver axis at an angle of 35° to the PCB
 – An arrangement of several terminal block rows one behind the other – multi-level effect with the same design
 – With a 2.3 mm Ø test connection



Horizontal connection direction, with housing overlapping



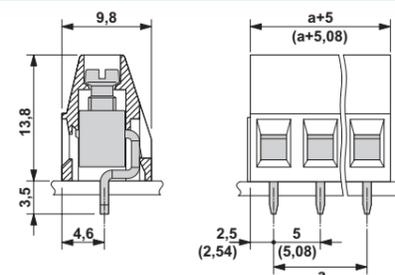
Horizontal connection direction, with test connection and housing overlapping



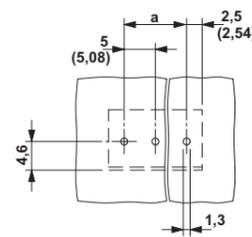
With 35° angled connection direction, with test connection and housing overlapping



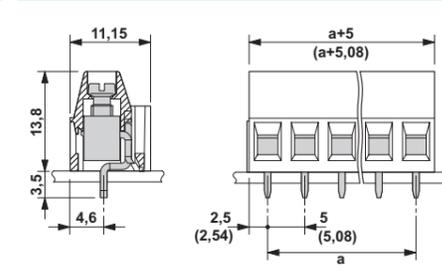
Dimensional drawing



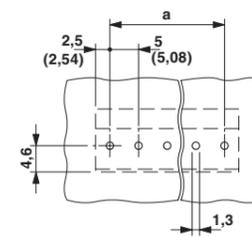
Drilling diagram



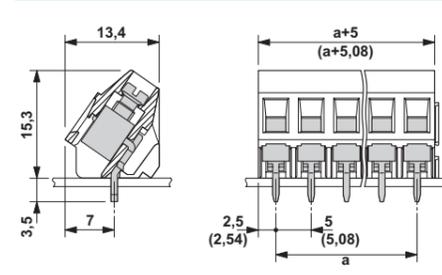
Dimensional drawing



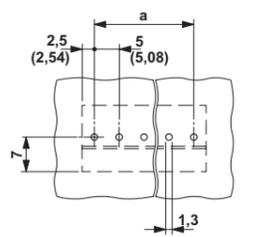
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDS 1,5/ ...			MKDSP 1,5/ ...			SMKDSP 1,5/ ...		
17.5) / 2.5			17.5) / 2.5			17.5) / 2.5		
400			400			400		
5 / 5.08			5 / 5.08			5 / 5.08		
0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75		
0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
0.5 - 1			0.5 - 1			0.5 - 1		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
250	400	630	250	400	630	250	400	630
4	4	4	4	4	4	4	4	4
B	C	D	B	C	D	B	C	D
300	-	300	300	-	300	250	-	300
15	-	10	10	-	10	15	-	10
30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
B	C	D	B	C	D	B	C	D
300	-	300	300	-	300	300	-	300
10	-	10	10	-	10	10	-	10
28 - 14	-	28 - 14	28 - 14	-	28 - 14	28 - 14	-	28 - 14
7			7			7		
M3			M3			M3		
0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
PA / I			PA / I			PA / I		
V0			V0			V0		
1.3 / 0.9 x 0.9 mm			1.3 / 0.9 x 0.9 mm			1.3 / 0.9 x 0.9 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDS 1,5/ 2	1715022	250
MKDS 1,5/ 3	1715035	250
MKDS 1,5/ 4	1715048	250
5.08 mm pitch, color: Green		
MKDS 1,5/ 8	1715080	50
MKDS 1,5/12	1715129	50
5.08 mm pitch, color: Green		
MKDS 1,5/ 2-5,08	1715721	250
MKDS 1,5/ 3-5,08	1715734	250
MKDS 1,5/ 4-5,08	1715747	250
5.08 mm pitch, color: Green		
MKDS 1,5/ 8-5,08	1715789	50
5.08 mm pitch, color: Green		
MKDS 1,5/10-5,08	1715802	50
MKDS 1,5/12-5,08	1715828	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSP 1,5/ 2	1730010	50
MKDSP 1,5/ 3	1730023	50
MKDSP 1,5/ 4	1730036	50
MKDSP 1,5/ 5	1730049	50
MKDSP 1,5/ 6	1730052	50
MKDSP 1,5/ 7	1730065	50
MKDSP 1,5/ 8	1730078	50
MKDSP 1,5/ 9	1730081	50
MKDSP 1,5/10	1730094	50
MKDSP 1,5/11	1730104	50
MKDSP 1,5/12	1730117	50
5.08 mm pitch, color: Green		
MKDSP 1,5/ 2-5,08	1730120	50
MKDSP 1,5/ 3-5,08	1730133	50
MKDSP 1,5/ 4-5,08	1730146	50
MKDSP 1,5/ 5-5,08	1730159	50
MKDSP 1,5/ 6-5,08	1730162	50
MKDSP 1,5/ 7-5,08	1730175	50
MKDSP 1,5/ 8-5,08	1730188	50
MKDSP 1,5/ 9-5,08	1730191	50
MKDSP 1,5/10-5,08	1730201	50
MKDSP 1,5/11-5,08	1730214	50
MKDSP 1,5/12-5,08	1730227	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMKDSP 1,5/ 2	1733415	250
SMKDSP 1,5/ 3	1733428	250
SMKDSP 1,5/ 4	1733431	250
SMKDSP 1,5/ 5	1733444	250
SMKDSP 1,5/ 6	1733457	50
SMKDSP 1,5/ 7	1733460	50
SMKDSP 1,5/ 8	1733473	50
SMKDSP 1,5/ 9	1733486	50
SMKDSP 1,5/10	1733499	50
SMKDSP 1,5/11	1733509	50
SMKDSP 1,5/12	1733512	50
5.08 mm pitch, color: Green		
SMKDSP 1,5/ 2-5,08	1733570	250
SMKDSP 1,5/ 3-5,08	1733583	250
SMKDSP 1,5/ 4-5,08	1733596	250
SMKDSP 1,5/ 5-5,08	1733609	250
SMKDSP 1,5/ 6-5,08	1733616	50
SMKDSP 1,5/ 7-5,08	1733622	50
SMKDSP 1,5/ 8-5,08	1733635	50
SMKDSP 1,5/ 9-5,08	1733648	50
SMKDSP 1,5/10-5,08	1733651	50
SMKDSP 1,5/11-5,08	1733664	50
SMKDSP 1,5/12-5,08	1733677	50

Connection cross section of up to 1.5 mm²

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

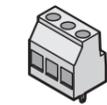
*) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



- 5.0 or 5.08 mm pitch
- MKDSFW 1,5/...**
- Horizontal series with vertical connection direction to the PCB
- with stand-off/offset
- MKDS 1,5-B**
- PCB terminal block with internally bridged soldering metal
- Looping through common potentials irrespective of the conducting path
- MKKDS 1,5/...**
- Double-row type for conductor cross sections up to 1.5 mm² with horizontal connection direction

Accessories

For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829



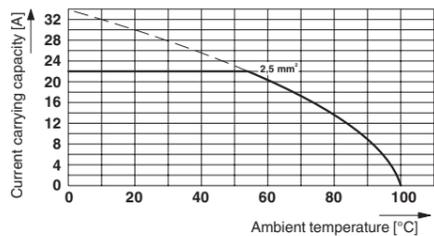
Metric 5 mm pitch



Detection lug for models with 5.08 mm inch pitch

Current carrying capacity curve

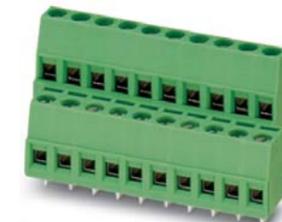
Type: MKKDS 1,5/2 and MKKDS 1,5/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Vertical connection direction with stand-off and housing overlapping



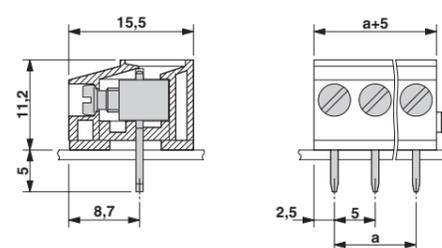
Horizontal connection direction, bridged internally, with housing overlapping



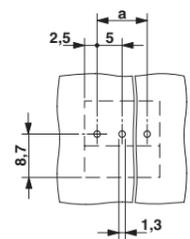
Double-level PCB terminal block with offset levels, with housing overlapping



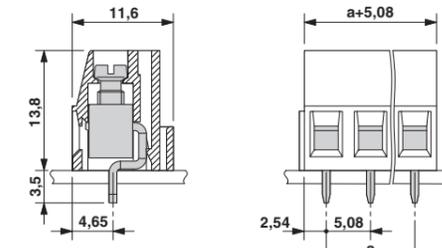
Dimensional drawing



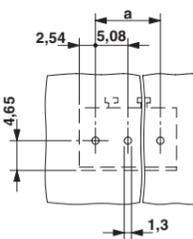
Drilling diagram



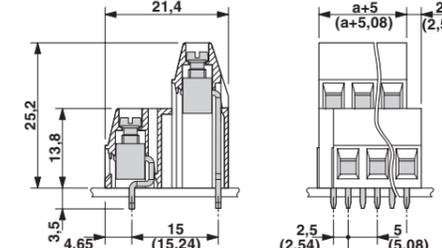
Dimensional drawing



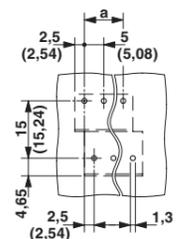
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSFW 1,5/ ...	MKDS 1,5/ ...-B-5,08	MKKDS 1,5/ ...
17.5) / 2.5	17.5) / 2.5	17.5) / 2.5
400	400	400
5	5.08	5 / 5.08
0.14 - 2.5 / 0.14 - 1.5 / 26 - 14	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14
0.25 - 1.5	0.25 - 1.5	0.25 - 1
0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
0.14 - 1 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75
0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
0.5 - 1	0.5 - 1	0.5 - 0.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
250 400 630	250 400 630	250 400 630
4 4 4	4 4 4	4 4 4
B C D	B C D	B C D
300 - 300	300 - 300	125 - 300
10 - 10	10 - 10	10 - 10
30 - 14 - 30 - 14	30 - 14 - 30 - 14	30 - 14 - 30 - 14
B C D	B C D	B C D
300 - 300	- - -	300 - 300
10 - 10	- - -	10 - 10
24 - 14 - 24 - 14	- - -	28 - 14 - 28 - 14
8	7	7
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA / I	PA / I	PA / I
V2	V0	V0
1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
2	5.08
3	10.16
2	5.08
3	10.16
2	5.08
3	10.16

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSFW 1,5/ 2	1717091	50
MKDSFW 1,5/ 3	1717088	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MKDS 1,5/ 2-B-5,08	1868733	50
MKDS 1,5/ 3-B-5,08	1868746	50
Headers, 5.08 mm pitch, color: Black		
MKDS 1,5/ 2-B-5,08 BK	1868759	50
MKDS 1,5/ 3-B-5,08 BK	1868762	50
Pitch 5.08 mm, color: Blue		
MKDS 1,5/ 2-B-5,08 BU	1868775	50
MKDS 1,5/ 3-B-5,08 BU	1707865	50
Pitch 5.08 mm, color: Green-yellow		
MKDS 1,5/ 2-B-5,08 GNYE	1706358	50
MKDS 1,5/ 3-B-5,08 GNYE	1706361	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDS 1,5/ 2	1725012	100
MKKDS 1,5/ 3	1725025	100
5.08 mm pitch, color: Green		
MKKDS 1,5/ 2-5,08	1725038	100
MKKDS 1,5/ 3-5,08	1725041	100

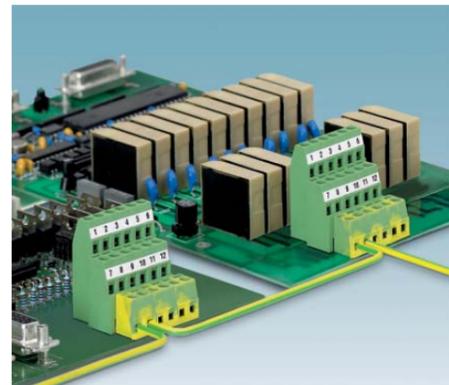
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

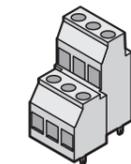
PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

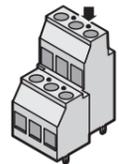
Connection cross section of up to 1.5 mm²



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 2) 1. Level



Metric 5 mm pitch

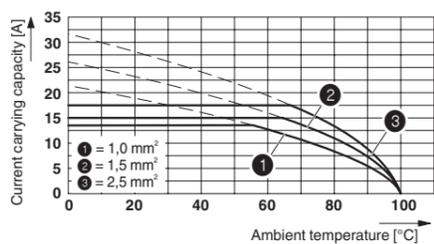


Detection lug for models with 5.08 mm inch pitch

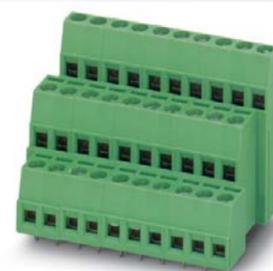
Accessories		
For all types	Type	Page
	Marker cards SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829

Current carrying capacity curve

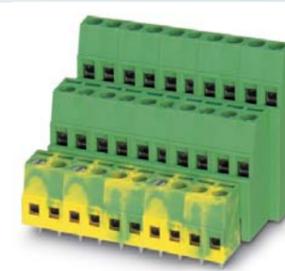
Type: MK3DS 1,5/...-5,08
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



- MK3DS 1,5/...**
– Three-level type with high packaging and connection density
- MK3DS 1,5/...-A...**
– Three-level type with internally bridged PE distributor terminal block in the lower level
- MK3DS 1,5/...-BC...**
– Three-level type without distributor terminal block in the lower level
– Multi-level PCB terminal block with offset levels for optimum accessibility of the terminal points



With offset levels and housing overlapping



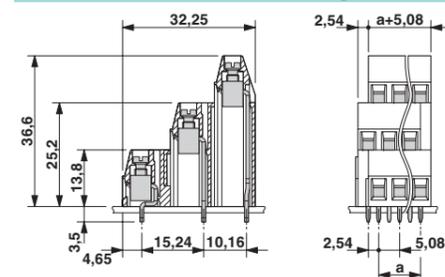
With internally bridged PE distributor terminal block in the lower level, with housing overlapping



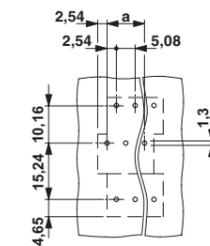
Without distributor terminal block in the lower level, with housing overlapping



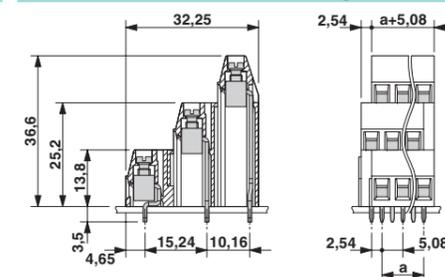
Dimensional drawing



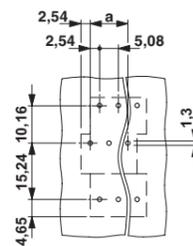
Drilling diagram



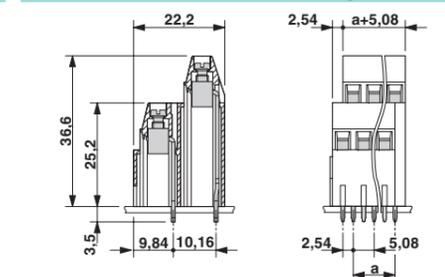
Dimensional drawing



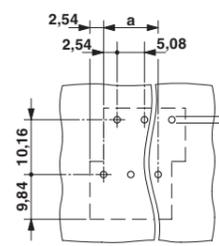
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MK3DS 1,5/ ...-5,08

Rated current / conductor cross section	15 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	400
Pitch	5.08
Connection capacity	
Solid / stranded	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14
Stranded with ferrules without plastic sleeve	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	0.14 - 1 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve	0.25 - 0.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 0.5 ²⁾
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630
Rated surge voltage	4 4 4
Approval data (UL/CUL)	B C D
Nominal voltage	125 - 300
Nominal current	10 - 10
Connection capacity AWG	30 - 14 - 30 - 14
Approval data (CSA)	B C D
Nominal voltage	300 - 300
Nominal current	10 - 10
Connection capacity AWG	28 - 14 - 28 - 14
General data	
Stripping length	7
Screw thread	M3
Tightening torque	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm

MK3DS 1,5/ ...-5,08-A-GNYE

Rated current / conductor cross section	15 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	400
Pitch	5.08
Connection capacity	
Solid / stranded	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14
Stranded with ferrules without plastic sleeve	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	0.14 - 1 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve	0.25 - 0.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 0.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630
Rated surge voltage	4 4 4
Approval data (UL/CUL)	B C D
Nominal voltage	125 - 300
Nominal current	10 - 10
Connection capacity AWG	30 - 14 - 30 - 14
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	7
Screw thread	M3
Tightening torque	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm

MK3DS 1,5/ ...-5,08-BC

Rated current / conductor cross section	15 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	400
Pitch	5.08
Connection capacity	
Solid / stranded	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14
Stranded with ferrules without plastic sleeve	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	0.14 - 1 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve	0.25 - 0.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 0.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630
Rated surge voltage	4 4 4
Approval data (UL/CUL)	B C D
Nominal voltage	125 - 300
Nominal current	10 - 10
Connection capacity AWG	30 - 14 - 30 - 14
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	7
Screw thread	M3
Tightening torque	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm

No. of pos.	Dim. a [mm]
2	5.08
3	10.16

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DS 1,5/ 2-5,08	1724013	100
MK3DS 1,5/ 3-5,08	1724026	100

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green/green-yellow		
MK3DS 1,5/ 2-5,08-A-GNYE	1868717	50
MK3DS 1,5/ 3-5,08-A-GNYE	1868720	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DS 1,5/ 2-5,08-BC	1706413	50
MK3DS 1,5/ 3-5,08-BC	1706426	50

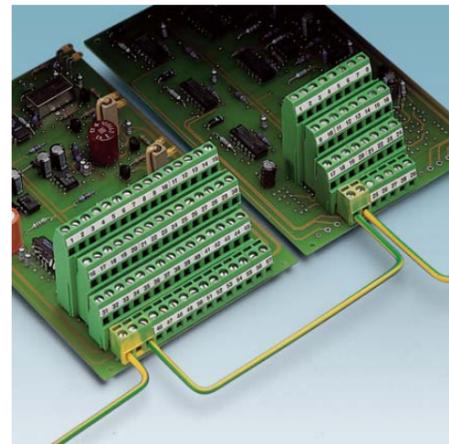
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

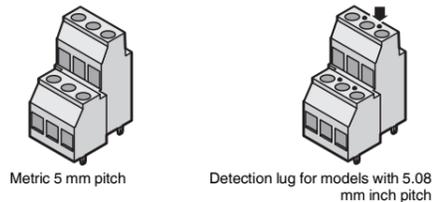
PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

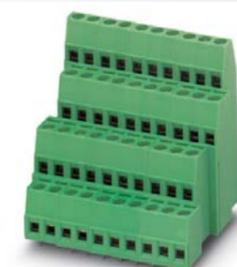
Connection cross section of up to 1.5 mm²



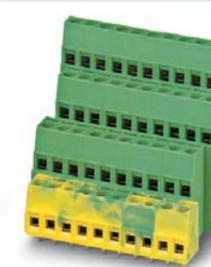
Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch Detection lug for models with 5.08 mm inch pitch



With offset levels and housing overlapping



With internally bridged PE distributor terminal block in the lower level and housing overlapping



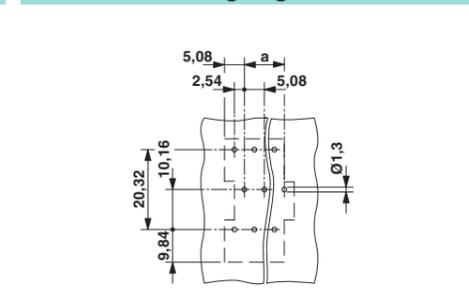
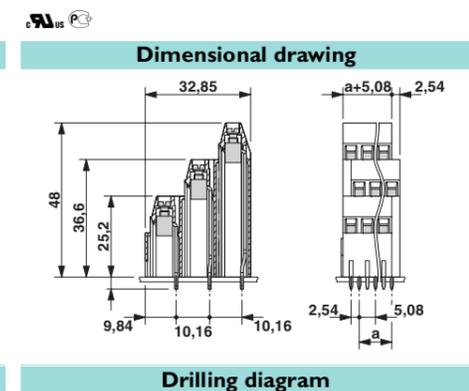
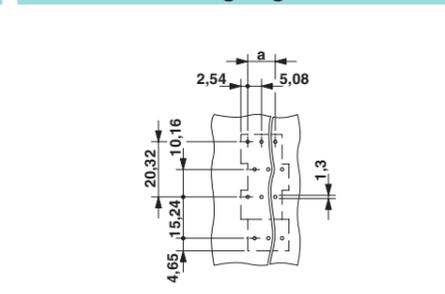
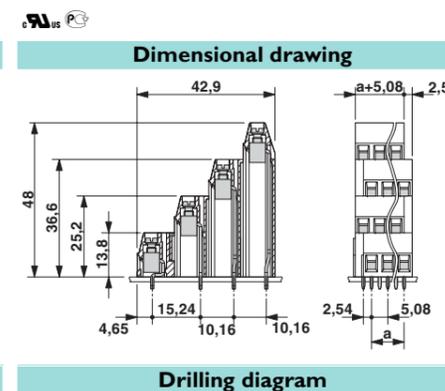
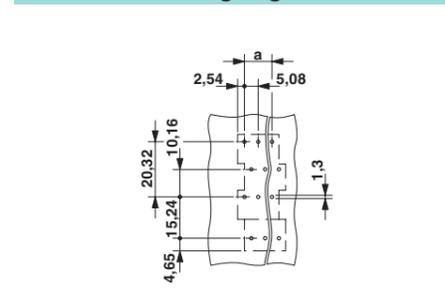
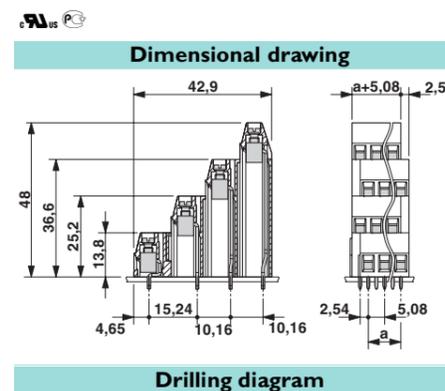
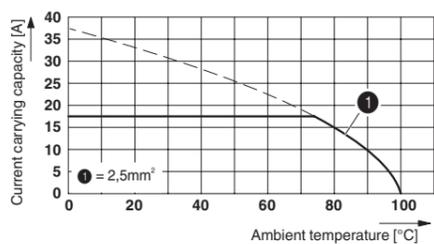
Without distributor terminal block in the lower level, with housing overlapping

- 5.08 mm pitch
- MK4DS 1,5 / ...**
- Four-level type with high packaging and connection density
- MK4DS 1,5/...-A...**
- Four-level type with internally bridged PE distributor terminal block in the lower level
- MK4DS 1,5/...-BCD...**
- Four-level type without distributor terminal block in the lower level
- Multi-level PCB terminal block with offset levels for optimum accessibility of the terminal points

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829

Current carrying capacity curve

Type: MK4DS 1,5/2-5,08 and MK4DS 1,5/3-5,08
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

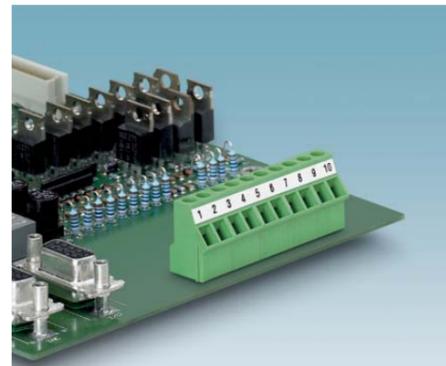
	MK4DS 1,5/ ...-5,08	MK4DS 1,5/ ...-5,08-A GNYE	MK4DS 1,5/ ...-5,08-BCD
Rated current / conductor cross section	15 ¹⁾ / 2.5	15 ¹⁾ / 2.5	15 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	400	400	400
Pitch	5.08	5.08	5.08
Connection capacity	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14
Stranded with ferrules without plastic sleeve	0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)	0.14 - 1 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75
Solid / stranded	0.14 - 1 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve	0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 0.5	0.5 - 0.5	0.5 - 0.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630	250 400 630	250 400 630
Rated surge voltage	4 4 4	4 4 4	4 4 4
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	125 - 300	125 - 300	125 - 300
Nominal current	10 - 10	10 - 10	10 - 10
Connection capacity AWG	30 - 14 - 30 - 14	30 - 14 - 30 - 14	30 - 14 - 30 - 14
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	- - -	- - -	- - -
Nominal current	- - -	- - -	- - -
Connection capacity AWG	- - -	- - -	- - -
General data			
Stripping length	7	7	7
Screw thread	M3	M3	M3
Tightening torque	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK4DS 1,5/ 2-5,08	1868827	50
MK4DS 1,5/ 3-5,08	1868830	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green/green-yellow		
MK4DS 1,5/ 2-5,08-A GNYE	1707001	50
MK4DS 1,5/ 3-5,08-A GNYE	1707140	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK4DS 1,5/ 2-5,08-BCD	1706947	50
MK4DS 1,5/ 3-5,08-BCD	1706950	50

Connection cross section of up to 2.5 mm²



- MKDSN 2,5/...**
- Low design, generously dimensioned 2.5 mm² connection cross section
 - 5.0 or 5.08 mm pitch
 - +/- screw
- SMKDS 2,5/...**
- Conductor connection at an angle of 40° to the PCB
 - Screwdriver axis vertical to the PCB
 - 5.08 mm pitch

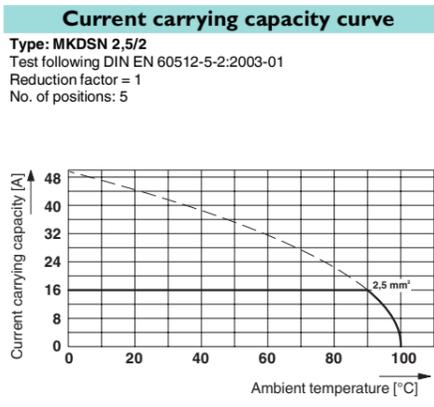
Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹⁾ Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

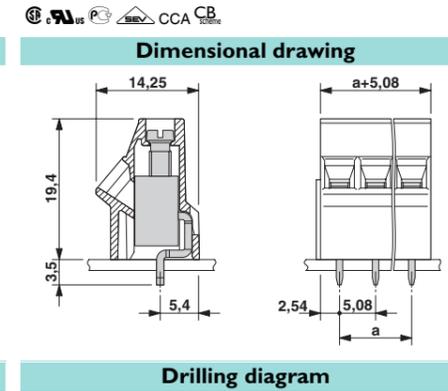
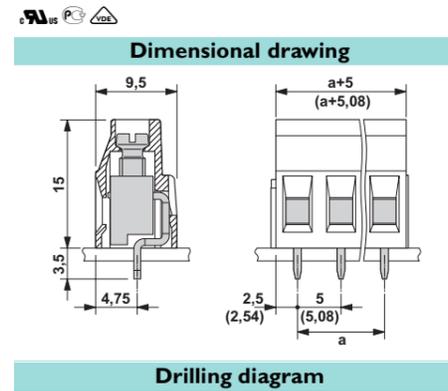


Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...- 5	829



Low-profile design, with housing overlapping

With 40° angled connection direction and housing overlapping



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSN 2,5/ 2	1890963	250
MKDSN 2,5/ 3	1890976	250
MKDSN 2,5/ 4	1890989	250
5.08 mm pitch, color: Green		
MKDSN 2,5/ 2-5,08	1888687	250
MKDSN 2,5/ 3-5,08	1888690	250
MKDSN 2,5/ 4-5,08	1888700	250

Ordering data

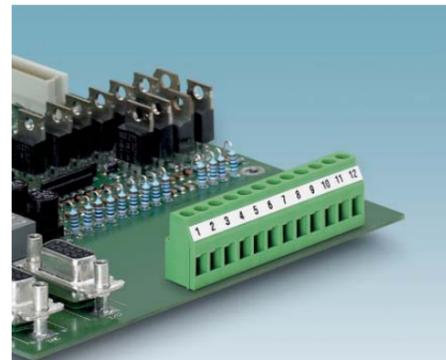
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
SMKDS 2,5/ 2-5,08	1705469	50
SMKDS 2,5/ 3-5,08	1705472	50
SMKDS 2,5/ 4-5,08	1995664	50
SMKDS 2,5/ 5-5,08	1702558	50
SMKDS 2,5/ 6-5,08	1736777	50
SMKDS 2,5/ 7-5,08	1766174	50
SMKDS 2,5/ 8-5,08	1736845	50
SMKDS 2,5/ 9-5,08	1701626	50
SMKDS 2,5/10-5,08	1736780	50

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72

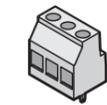
Technical data

Technical data in accordance to IEC / DIN VDE		MKDSN 2,5/ ...	SMKDS 2,5/ ...-5,08
Rated current / conductor cross section	[A] / [mm ²]	16 ¹⁾ / 2.5	20 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	[V]	400	400
Pitch	[mm]	5 / 5.08	5.08
Connection capacity	[mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14	0.14 - 2.5 / 0.14 - 2.5 / 26 - 14
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 2.5	0.25 - 2.5
Stranded with ferrules with plastic sleeve	[mm ²]	0.25 - 2.5	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]		
Solid / stranded	[mm ²]	0.2 - 0.75 / 0.2 - 0.75	0.14 - 0.75 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	0.5 - 1.5	0.5 - 1.5
Insulation coordination			
Surge voltage category / pollution degree		III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	[V]	250 400 630	250 400 630
Rated surge voltage	[kV]	4 4 4	4 4 4
Approval data (UL/CUL)	Use Group	B C D	B C D
Nominal voltage	[V]	300 - - 300	250 - - 300
Nominal current	[A]	20 - - 15	10 - - 10
Connection capacity AWG	AWG	30 - 12 - - 30 - 12	30 - 12 - - 30 - 12
Approval data (CSA)	Use Group	B C D	B C D
Nominal voltage	[V]	- - -	300 - - 300
Nominal current	[A]	- - -	10 - - 10
Connection capacity AWG	AWG	- - -	28 - 12 - - 28 - 12
General data			
Stripping length	[mm]	6.5	11
Screw thread		M3	M3
Tightening torque	[Nm]	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	1.3 / 0.8 x 0.9 mm	1.4 / 1 x 0.9 mm

Connection cross section of up to 2.5 mm²



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch

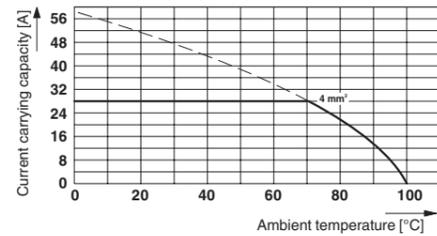


Detection lug for models with 5.08 mm inch pitch

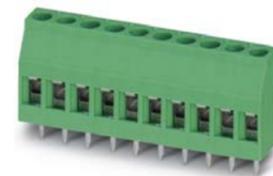
Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...- 5	829
	Single cover for individual terminal positions EA-MKDS Order No. 1711408	
Only for MKDS 3		
	Pitch spacer, width 1.25 mm RZ 1,25-MKDS 3 Order No. 1703047	
Only for MKDSP 3		
	Test plug MPS	831

Current carrying capacity curve

Type: MKDS 3/2 and MKDS 3/3
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



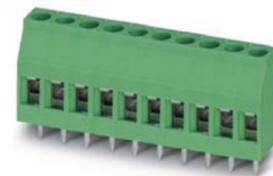
- Standard PCB terminal blocks with 5.0 or 5.08 mm pitch
- MKDS 3/...-B-5,08**
- Distributor terminal block with an internally bridged soldering metal
- Looping through common potentials irrespective of the conducting path
- MKDSP 3/...**
- With integrated test connection to accommodate 2 mm Ø test pins or 2.3 mm Ø test plugs



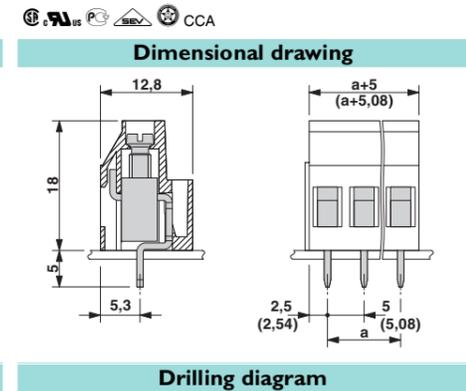
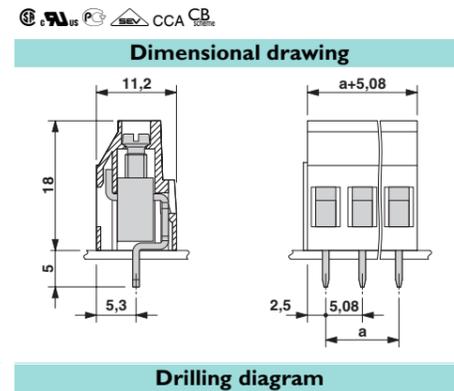
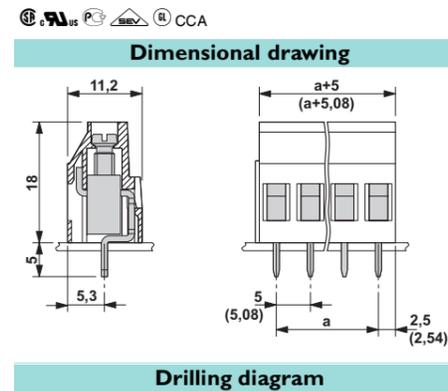
With housing overlapping



With housing overlapping, bridged internally



With housing overlapping and test connection



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[kV]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

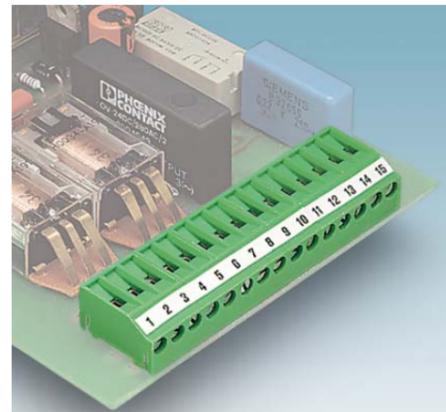
	MKDS 3/ ...	MKDS 3/ ...-B-5,08	MKDSP 3/ ...	
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	24 ¹⁾ / 4	24 ¹⁾ / 4	24 ¹⁾ / 4	No. of pos.
Rated insulation voltage for pollution degree 2	400	400	400	Dim. a [mm]
Pitch	5 / 5.08	5.08	5 / 5.08	2 5.00
Connection capacity				3 10.00
Solid / stranded	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12	4 15.00
Stranded with ferrules without plastic sleeve	0.25 - 2.5	0.25 - 2.5	0.25 - 2.5	2 5.08
Stranded with ferrules with plastic sleeve	0.25 - 2.5	0.25 - 2.5	0.25 - 2.5	3 10.16
Multi-conductor connection capacity (two conductors with the same cross section)				4 15.24
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	2 5.08
Stranded with ferrules without plastic sleeve	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75	3 10.16
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	2 5.08
Insulation coordination				3 10.16
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	
Rated insulation voltage	250 400 630	250 400 630	250 400 630	
Rated surge voltage	4 4 4	4 4 4	4 4 4	
Approval data (UL/CUL)	B C D	B C D	B C D	
Nominal voltage	300 - - 300	300 - - 300	250 - - 300	
Nominal current	15 - - 10	15 - - 10	15 - - 10	
Connection capacity AWG	30 - 12 - - 30 - 12	30 - 12 - - 30 - 12	30 - 12 - - 30 - 12	
Approval data (CSA)	B C D	B C D	B C D	
Nominal voltage	300 - - 300	300 - - 300	300 - - 300	
Nominal current	10 - - 10	10 - - 10	10 - - 10	
Connection capacity AWG	28 - 12 - - 28 - 12	28 - 12 - - 28 - 12	28 - 12 - - 28 - 12	
General data				
Stripping length	8	8	8	
Screw thread	M3	M3	M3	
Tightening torque	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	
Type of insulation material / insulation material group	PA / I	PA / I	PA / II	
Inflammability class according to UL 94	V0	V0	V0	
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDS 3/ 2	1711026	100
MKDS 3/ 3	1711039	100
MKDS 3/ 4	1711042	50
5.08 mm pitch, color: Green		
MKDS 3/ 2-5,08	1711725	100
MKDS 3/ 3-5,08	1711738	100
MKDS 3/ 4-5,08	1712805	50

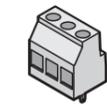
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MKDSP 3/ 2	1714023	50
MKDSP 3/ 3	1714036	50
5.08 mm pitch, color: Black		
MKDS 3/ 2-B-5,08 BK	1706455	50
MKDS 3/ 3-B-5,08 BK	1706468	50
Pitch 5.08 mm, color: Blue		
MKDS 3/ 2-B-5,08 BU	1706439	50
MKDS 3/ 3-B-5,08 BU	1706442	50
Pitch 5.08 mm, color: Green-yellow		
MKDS 3/ 2-B-5,08 GNYE	1706471	50
MKDS 3/ 3-B-5,08 GNYE	1706484	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSP 3/ 2	1714023	50
MKDSP 3/ 3	1714036	50
5.08 mm pitch, color: Green		
MKDSP 3/ 2-5,08	1714722	50
MKDSP 3/ 3-5,08	1714735	50

Connection cross section of up to 2.5 mm²



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch

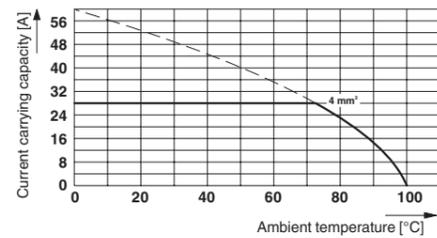


Detection lug for models with 5.08 mm inch pitch

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829
	Test plug SPB 5-MKDS 3 Order No. 1301216	833
Only for MKDSF 3		
	Single cover for individual terminal positions EA-MKDS Order No. 1711408	

Current carrying capacity curve

Type: SMKDS 3/2 and SMKDS 3/3
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



- SMKDS 3/...**
- Conductor and screwdriver axis at an angle of 35° to the PCB
 - An arrangement of several terminal block rows one behind the other – multi-level effect with the same design
- MKDSFW 3/... and MKDSF 3/...**
- Generously dimensioned wiring space, solid conductor up to 4 mm²
 - Horizontal series with vertical connection direction to the PCB
 - MKDSFW 1.5 with stand-off/offset
 - MKDSF 3 with an angled solder pin guided backwards out of the housing

Technical data

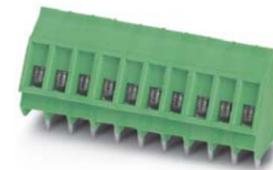
Technical data in accordance to IEC / DIN VDE	SMKDS 3/ ...	MKDSFW 3/ ...	MKDSF 3/ ...
Rated current / conductor cross section [A] / [mm ²]	24 ¹⁾ / 4	24 ¹⁾ / 4	24 ¹⁾ / 4
Rated insulation voltage for pollution degree 2 [V]	400	400	400
Pitch [mm]	5 / 5.08	5	5 / 5.08
Connection capacity			
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5	0.25 - 1	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5	0.25 - 1	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 400 630	250 400 630	250 400 630
Rated surge voltage [kV]	4 4 4	4 4 4	4 4 4
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	250 - 300	250 - 300	250 - 300
Nominal current [A]	15 - 10	16 - 10	15 - 10
Connection capacity AWG	30 - 12 - 30 - 12	30 - 12 - 30 - 12	30 - 12 - 30 - 12
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - 300	300 - 300	300 - 300
Nominal current [A]	10 - 10	10 - 10	10 - 10
Connection capacity AWG	28 - 12 - 28 - 12	28 - 12 - 28 - 12	28 - 12 - 28 - 12
General data			
Stripping length [mm]	8	8	8
Screw thread	M3	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V2	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMKDS 3/ 2	1713024	100
SMKDS 3/ 3	1713037	100
SMKDS 3/ 4	1713082	100
SMKDS 3/ 6	1713121	50
SMKDS 3/ 8	1713066	50
SMKDS 3/12	1713105	50
5.08 mm pitch, color: Green		
SMKDS 3/ 2-5,08	1713723	100
SMKDS 3/ 3-5,08	1713736	100
SMKDS 3/ 4-5,08	1713040	100
SMKDS 3/ 6-5,08	1713286	50

Ordering data

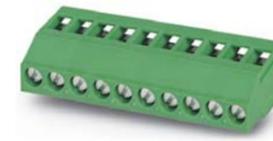
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSFW 3/ 2	1771529	50
MKDSFW 3/ 3	1771260	50
5.08 mm pitch, color: Green		
MKDSF 3/ 2	1712025	50
MKDSF 3/ 3	1712038	50
MKDSF 3/ 4	1712041	50
MKDSF 3/ 8	1712083	50
MKDSF 3/12	1712122	50
5.08 mm pitch, color: Green		
MKDSF 3/ 2-5,08	1712724	50
MKDSF 3/ 3-5,08	1712737	50



With 35° angled connection direction and housing overlapping

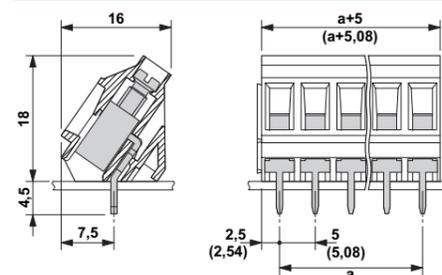


With stand-off and housing overlapping

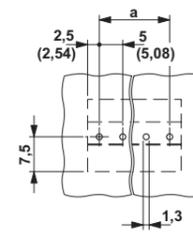


With angled solder pin and housing overlapping

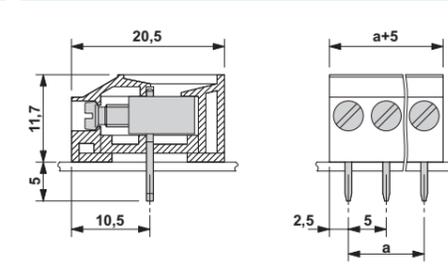
Dimensional drawing



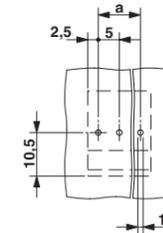
Drilling diagram



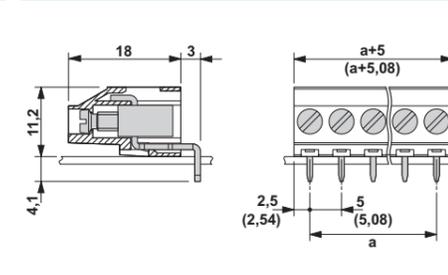
Dimensional drawing



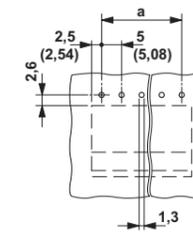
Drilling diagram



Dimensional drawing



Drilling diagram



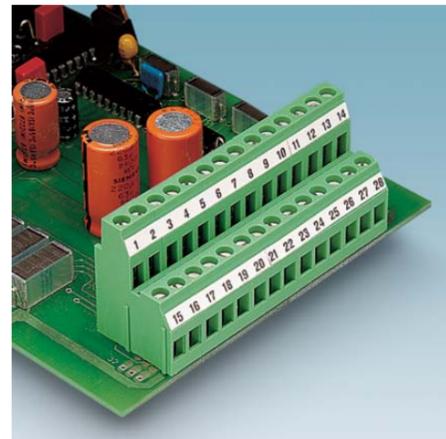
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

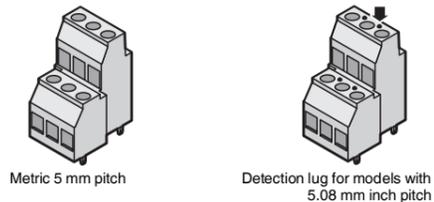
PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

Connection cross section of up to 2.5 mm²



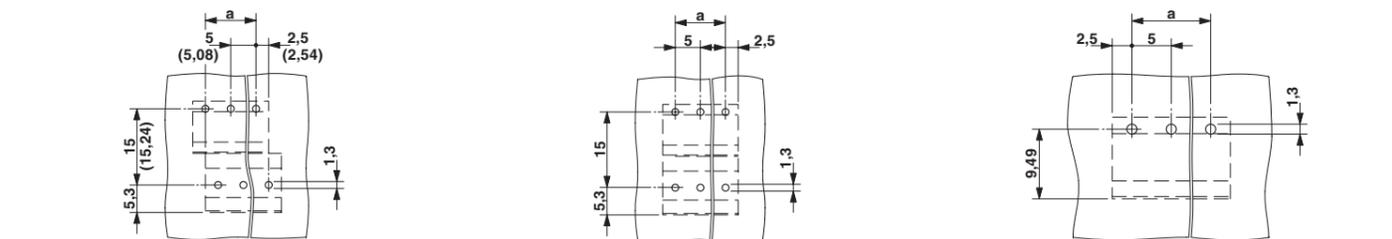
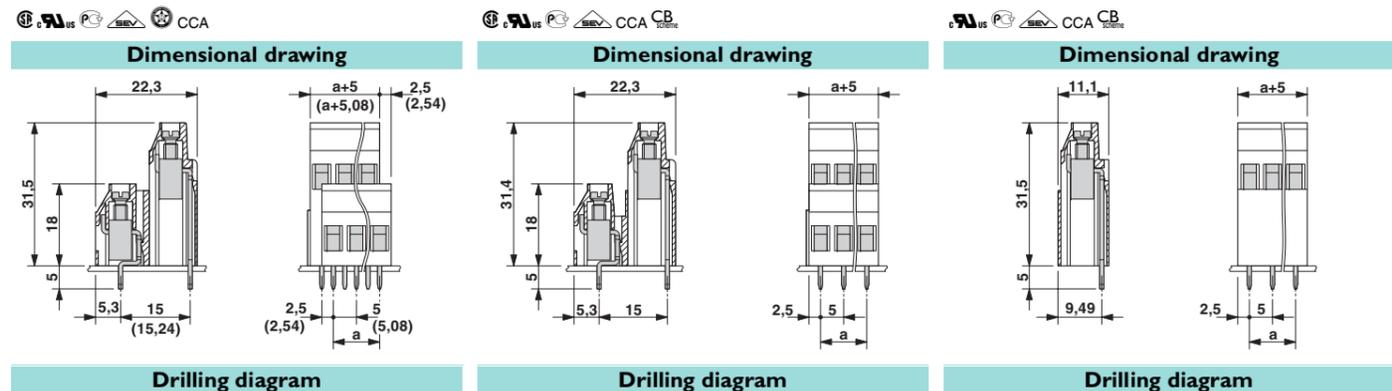
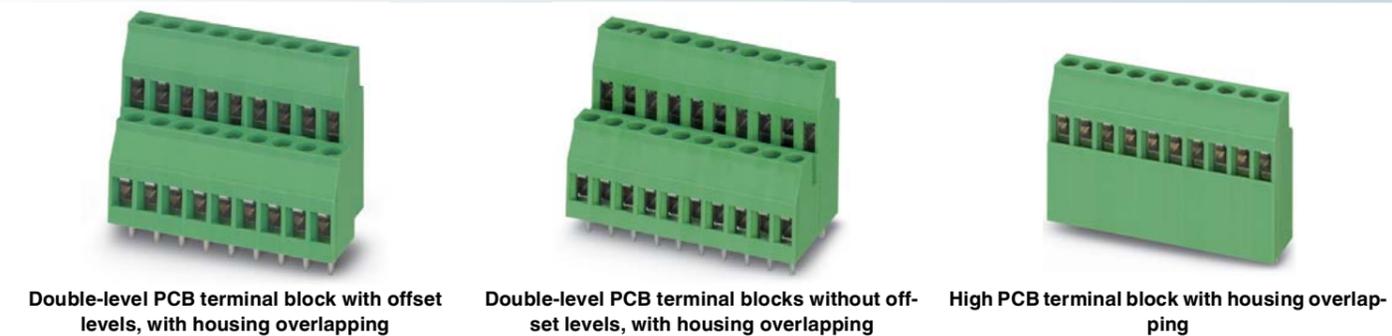
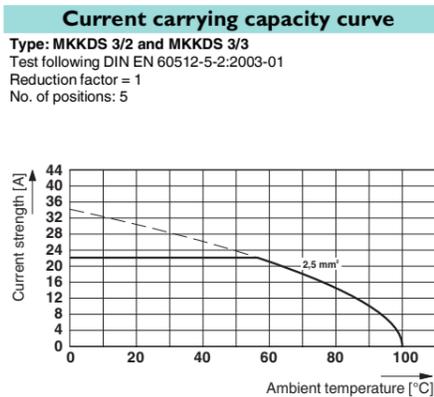
Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted lgn when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch
 Detection lug for models with 5.08 mm inch pitch

- MKKDS 3/...**
- Double-level type with high packaging and connection density
 - Offset levels for optimum accessibility of the terminal points
- MKKDSG 3/...**
- Double-level type with high packaging and connection density
 - Non-offset levels for space-saving installation in device housings
- MKKDSH 3/...**
- Single-row type, back level of the double-level PCB terminal block

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Single cover for individual terminal positions EA-MKDS Order No. 1711408	
	Insertion bridge EBP...-5	829
	Test plug SPB 5-MKDS 3 Order No. 1301216	833



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[kV]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	MKKDS 3/...	MKKDSG 3/...	MKKDSH 3/...
Rated current / conductor cross section	22) / 4	17.5) / 4	24) / 4
Rated insulation voltage for pollution degree 2	400	400	400
Pitch	5 / 5.08	5	5
Connection capacity	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 2.5	0.25 - 2.5	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve	0.5 - 0.5	0.5 - 0.5	0.5 - 1.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630	250 400 630	250 400 630
Rated surge voltage	4 4 4	4 4 4	4 4 4
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	125 - 300	125 - 300	125 - 300
Nominal current	15 - 10	10 - 10	15 - 10
Connection capacity AWG	30 - 12 - 30 - 12	30 - 12 - 30 - 12	30 - 12 - 30 - 12
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	300 - 300	300 - 300	- - -
Nominal current	10 - 10	10 - 10	- - -
Connection capacity AWG	28 - 12 - 28 - 12	28 - 12 - 28 - 12	- - -
General data			
Stripping length	7	7	7
Screw thread	M3	M3	M3
Tightening torque	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDS 3/ 2	1721029	50
MKKDS 3/ 3	1721032	50
5.08 mm pitch, color: Green		
MKKDS 3/ 2-5,08	1721728	50
MKKDS 3/ 3-5,08	1721731	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDSG 3/ 2	1721090	50
MKKDSG 3/ 3	1721087	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch		
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50

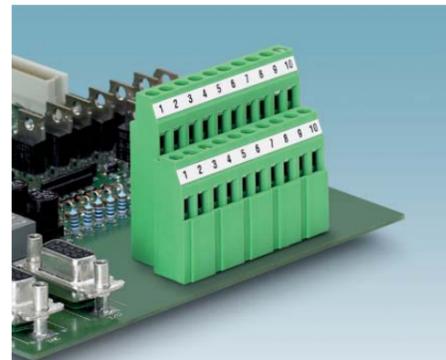
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

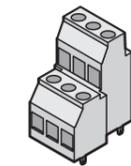
PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

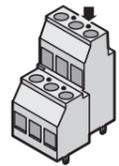
Connection cross section of up to 2.5 mm²



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted for the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



Detection lug for models with 5.08 mm inch pitch

MK3DS 3/...

- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

MKKDSH 3/...

- Single-row type, back level of the three-level PCB terminal block
- The high types are suitable for applications with molded PCBs

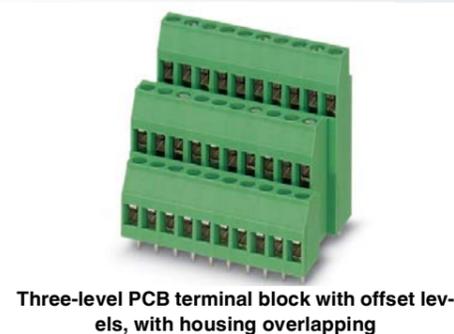
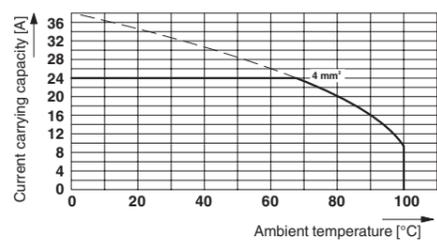
MKKDSMH 3/...

- Double-row type, middle and back level of the three-level PCB terminal block

Accessories		
For all types	Type	Page
	Marker cards SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Single cover for individual terminal positions EA-MKDS Order No. 1711408	
	Insertion bridge EBK...-5	829
	Test plug SPB 5-MKDS 3 Order No. 1301216	833

Current carrying capacity curve

Type: MK3DS 3/2 and MK3DS 3/3
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



Three-level PCB terminal block with offset levels, with housing overlapping



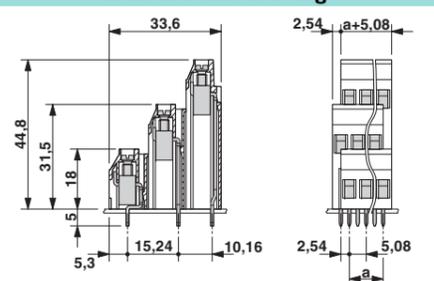
High PCB terminal block with housing overlapping



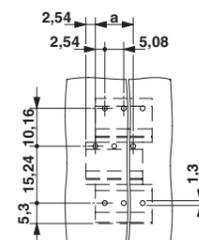
High double-level PCB terminal block with offset levels and housing overlapping



Dimensional drawing



Drilling diagram

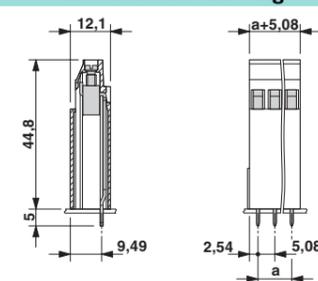


Ordering data

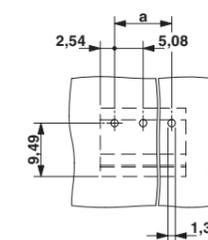
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DS 3/ 2-5,08	1723014	50
MK3DS 3/ 3-5,08	1723027	50



Dimensional drawing



Drilling diagram

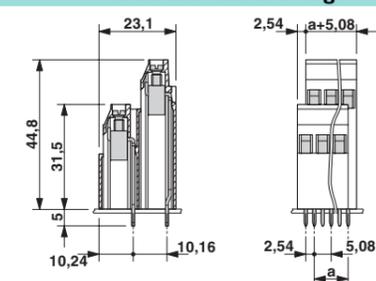


Ordering data

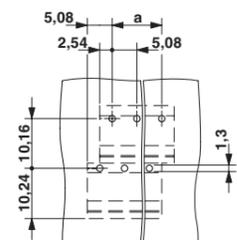
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSH 3/ 2-5,08	1723182	50
MK3DSH 3/ 3-5,08	1723195	50



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSMH 3/ 2-5,08	1723205	50
MK3DSMH 3/ 3-5,08	1723218	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MK3DS 3/ ...-5,08

MK3DS 3/ ...-5,08			MK3DSH 3/ ...-5,08			MK3DSMH 3/ ...-5,08		
Rated current / conductor cross section	17.5 ¹⁾ / 4		24 ¹⁾ / 4			22 ¹⁾ / 4		
Rated insulation voltage for pollution degree 2	400		400			400		
Pitch	5.08		5.08			5.08		
Connection capacity	0.2 - 4 / 0.2 - 2.5 / 24 - 12		0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	0.25 - 1.5		0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	0.25 - 2.5		0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)	0.2 - 1.5 / 0.2 - 1.5		0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Solid / stranded	0.25 - 0.75		0.25 - 0.75			0.25 - 0.75		
Stranded with ferrules without plastic sleeve	0.5 - 0.5		0.5 - 1.5			0.5 - 0.5		
Stranded with TWIN ferrule with plastic sleeve								
Insulation coordination	III / 3 III / 2 II / 2		III / 3 III / 2 II / 2			III / 3 III / 2 II / 2		
Rated insulation voltage	250 400 630		250 400 630			250 400 630		
Rated surge voltage	4 4 4		4 4 4			4 4 4		
Approval data (UL/CUL)	B C D		B C D			B C D		
Nominal voltage	125 - 300		125 - 300			125 - 300		
Nominal current	20 - 10		15 - 10			15 - 10		
Connection capacity AWG	30 - 12 - 30 - 12		30 - 12 - 30 - 12			30 - 12 - 30 - 12		
Approval data (CSA)	B C D		B C D			B C D		
Nominal voltage	300 - 300		- - -			- - -		
Nominal current	10 - 10		- - -			- - -		
Connection capacity AWG	28 - 12 - 28 - 12		- - -			- - -		
General data								
Stripping length	7		7			7		
Screw thread	M3		M3			M3		
Tightening torque	0.5 - 0.6		0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group	PA / I		PA / I			PA / I		
Inflammability class according to UL 94	V0		V0			V0		
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm		1.3 / 0.9 x 0.9 mm			1.3 / 0.9 x 0.9 mm		

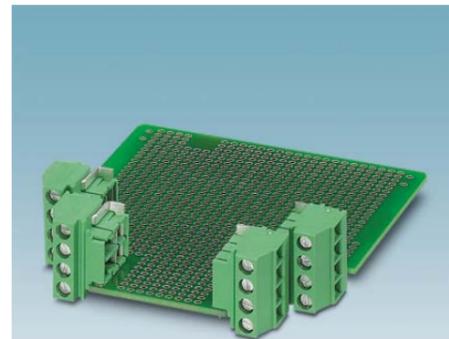
MK3DSMH 3/ ...-5,08

MK3DSMH 3/ ...-5,08		
Rated current / conductor cross section	17.5 ¹⁾ / 4	
Rated insulation voltage for pollution degree 2	400	
Pitch	5.08	
Connection capacity	0.2 - 4 / 0.2 - 2.5 / 24 - 12	
Stranded with ferrules without plastic sleeve	0.25 - 1.5	
Stranded with ferrules with plastic sleeve	0.25 - 2.5	
Multi-conductor connection capacity (two conductors with the same cross section)	0.2 - 1.5 / 0.2 - 1.5	
Solid / stranded	0.25 - 0.75	
Stranded with ferrules without plastic sleeve	0.5 - 0.5	
Stranded with TWIN ferrule with plastic sleeve		
Insulation coordination	III / 3 III / 2 II / 2	
Rated insulation voltage	250 400 630	
Rated surge voltage	4 4 4	
Approval data (UL/CUL)	B C D	
Nominal voltage	125 - 300	
Nominal current	20 - 10	
Connection capacity AWG	30 - 12 - 30 - 12	
Approval data (CSA)	B C D	
Nominal voltage	300 - 300	
Nominal current	10 - 10	
Connection capacity AWG	28 - 12 - 28 - 12	
General data		
Stripping length	7	
Screw thread	M3	
Tightening torque	0.5 - 0.6	
Type of insulation material / insulation material group	PA / I	
Inflammability class according to UL 94	V0	
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm	

No. of pos.	Dim. a [mm]
2	5.08
3	10.16

Connection cross section of up to 2.5 mm²

Notes:
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

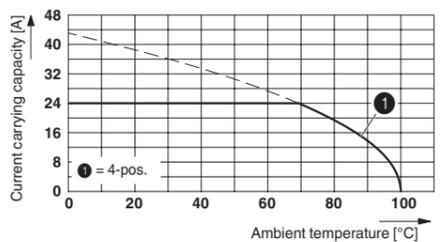


- PCB terminal block for ME/ME MAX electronic housing
- PCB terminal block is orthogonal to the PCB
- "Left" and "right" design
- Pitch 5 mm
- Number of positions between 2 and 4

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798

Current carrying capacity curve

Type: MKDSO 2,5/4...L(R)
 Test based on DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 Number of positions: 4



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSO 2,5/ ...-L	MKDSO 2,5/ ...-R
24 ¹⁾ / 2.5	24 ¹⁾ / 2.5
400	400
5	5
0.14 - 2.5 / 0.14 - 2.5 / 26 - 14	0.14 - 2.5 / 0.14 - 2.5 / 26 - 14
0.25 - 2.5	0.25 - 2.5
0.25 - 2.5	0.25 - 2.5
0.14 - 0.75 / 0.14 - 0.75	0.14 - 0.75 / 0.14 - 0.75
0.25 - 0.75	0.25 - 0.75
0.5 - 1.5	0.5 - 1.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
250 400 630	250 400 630
4 4 4	4 4 4
B C D	B C D
300 - 300	300 - 300
20 - 15	20 - 15
30 - 12 - 30 - 12	30 - 12 - 30 - 12
B C D	B C D
300 - 300	300 - 300
10 - 10	10 - 10
28 - 12 - 28 - 12	28 - 12 - 28 - 12
8	8
M3	M3
0.5 - 0.6	0.5 - 0.6
PA / I	PA / I
V0	V0
1.4 / 0,8 x 1	1.4 / 0,8 x 1

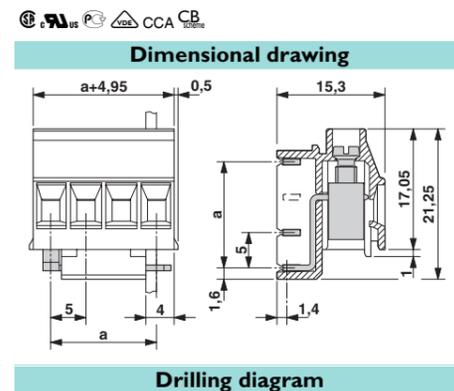
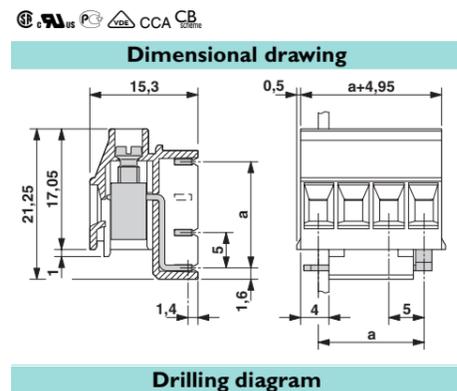
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00



With "left" solder pins leading off at a right angle



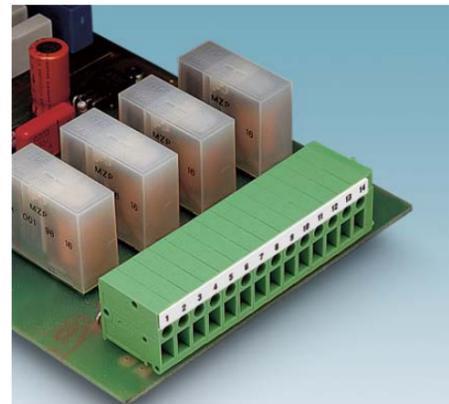
With "right" solder pins leading off at a right angle



Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB terminal block, 5 mm pitch, color: green		
MKDSO 2,5/ 2-L	1707205	250
MKDSO 2,5/ 3-L	1707221	250
MKDSO 2,5/ 4-L	1707234	250
PCB terminal block, left, 5 mm pitch, color: light gray		
MKDSO 2,5/ 2-L KMGY	2915261	250
MKDSO 2,5/ 3-L KMGY	2854102	250
MKDSO 2,5/ 4-L KMGY	2908485	250

Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB terminal block, right, 5 mm pitch, color: green		
MKDSO 2,5/ 2-R	1707195	250
MKDSO 2,5/ 3-R	1707218	250
MKDSO 2,5/ 4-R	1707247	250
PCB terminal block, right, 5 mm pitch, color: light gray		
MKDSO 2,5/ 2-R KMGY	2915258	250
MKDSO 2,5/ 3-R KMGY	2854092	250
MKDSO 2,5/ 4-R KMGY	2908472	250

Front screw connections up to 2.5 mm²



- Screw terminal blocks with a front conductor connection
- Generously dimensioned connection cross section up to 2.5 mm²
- Double solder pin for high stability on the PCB
- Voltage increase through the use of pitch spacers.
- For flush mounting in the front of devices
- Horizontal and vertical types

Notes:
 1) 400 V is achieved when the pitch spacer RZ 2,5-FRONT 2,5-H(V) is inserted.
 2) Current carrying capacity curve upon request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,3 x 3,0 Order No. 1207404	
	Pitch spacer, width: 2.5 mm RZ 2,5-FRONT 2,5-H Order No. 1700079	
	Pitch spacer, width: 2.5 mm RZ 2,5-FRONT 2,5-V Order No. 1700082	



Horizontal connection direction, 5 mm pin spacing



Horizontal connection direction, 10 mm pin spacing

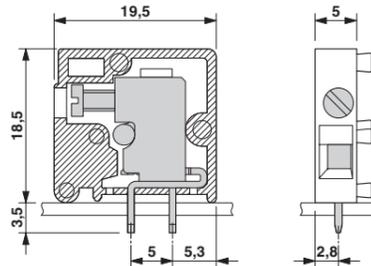


Vertical connection direction, 5 mm pin spacing

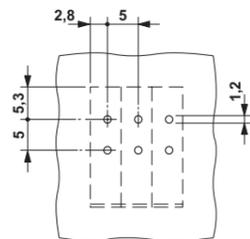


Vertical connection direction, 10 mm pin spacing

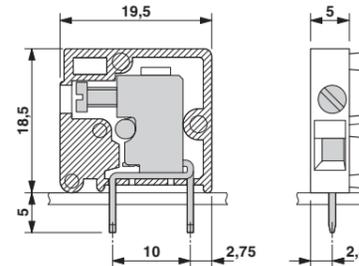
Dimensional drawing



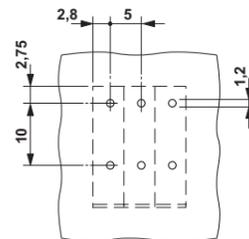
Drilling diagram



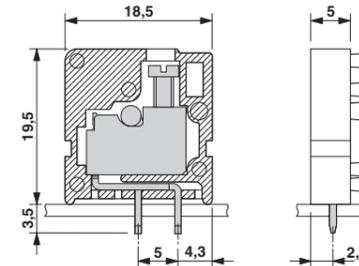
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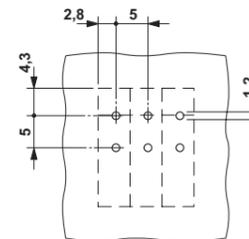
Drilling diagram



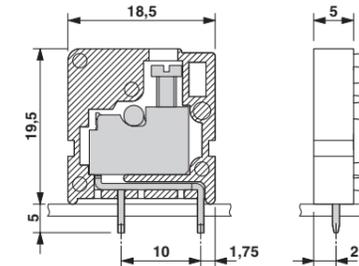
Dimensional drawing



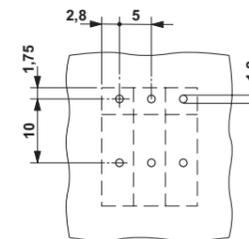
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA 5/ 2	1868665	20
FRONT 2,5-H/SA 5/ 3	1700121	20
FRONT 2,5-H/SA 5/ 4	1700781	20
FRONT 2,5-H/SA 5/ 5	1724660	20
FRONT 2,5-H/SA 5/ 6	1891975	20
FRONT 2,5-H/SA 5/ 7	1988257	20
FRONT 2,5-H/SA 5/ 8	1724673	20
FRONT 2,5-H/SA 5/ 9	1744109	20
FRONT 2,5-H/SA 5/10	1773264	20
FRONT 2,5-H/SA 5/11	1701382	20
FRONT 2,5-H/SA 5/12	1892893	20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA10/ 2	1724657	20
FRONT 2,5-H/SA10/ 3	1904215	20
FRONT 2,5-H/SA10/ 4	1773170	20
FRONT 2,5-H/SA10/ 5	1773183	20
FRONT 2,5-H/SA10/ 6	1773196	20
FRONT 2,5-H/SA10/ 7	1773206	20
FRONT 2,5-H/SA10/ 8	1773219	20
FRONT 2,5-H/SA10/ 9	1773222	20
FRONT 2,5-H/SA10/10	1773235	20
FRONT 2,5-H/SA10/11	1773248	20
FRONT 2,5-H/SA10/12	1773251	20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA 5/ 2	1700244	20
FRONT 2,5-V/SA 5/ 3	1700134	20
FRONT 2,5-V/SA 5/ 4	1888250	20
FRONT 2,5-V/SA 5/ 5	1700354	20
FRONT 2,5-V/SA 5/ 6	1700231	20
FRONT 2,5-V/SA 5/ 7	1724152	20
FRONT 2,5-V/SA 5/ 8	1700710	20
FRONT 2,5-V/SA 5/ 9	1724165	20
FRONT 2,5-V/SA 5/10	1700765	20
FRONT 2,5-V/SA 5/11	1700118	20
FRONT 2,5-V/SA 5/12	1889974	20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA10/ 2	1704114	20
FRONT 2,5-V/SA10/ 3	1704897	20
FRONT 2,5-V/SA10/ 4	1732238	20
FRONT 2,5-V/SA10/ 5	1773277	20
FRONT 2,5-V/SA10/ 6	1701230	20
FRONT 2,5-V/SA10/ 7	1773280	20
FRONT 2,5-V/SA10/ 8	1704127	20
FRONT 2,5-V/SA10/ 9	1704907	20
FRONT 2,5-V/SA10/10	1700770	20
FRONT 2,5-V/SA10/11	1773293	20
FRONT 2,5-V/SA10/12	1931741	20

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 24 ²) / 2.5
Rated insulation voltage for pollution degree 2	[V] 400
Pitch	[mm] 5
Connection capacity	[mm ²] / [mm ²] / AWG 0.2 - 2.5 / 0.2 - 2.5 / 24 - 14
Solid / stranded	[mm ²] 0.25 - 1.5
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1.5
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²] 0.2 - 0.75 / 0.2 - 0.75
Solid / stranded	[mm ²] 0.25 - 0.34
Stranded with ferrules without plastic sleeve	[mm ²] -
Stranded with TWIN ferrule with plastic sleeve	[mm ²] -
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 ¹) 400 630
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	24 - 12 - 24 - 12
General data	
Stripping length	[mm] 9
Screw thread	M2,5
Tightening torque	[Nm] 0.4 - 0.5
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0.8 x 0.8 mm

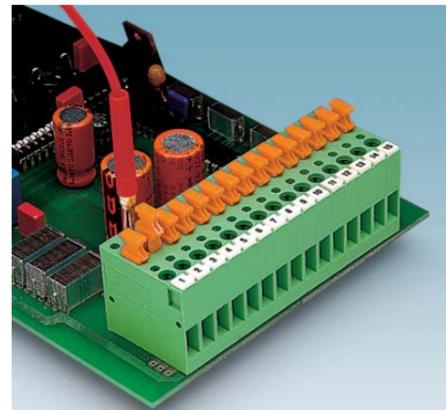
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

Single terminal blocks of up to 2.5 mm²



- Double solder pin for high stability on the PCB
- Low-heat generating current transfer in the conducting path
- Increase in voltage with pitch spacers
- A plate-type design enables blocking for larger number of positions

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹⁾ 400 V is achieved when the pitch spacer RZ-KDS 2,5 is inserted.

²⁾ 500 V is achieved when the pitch spacer RZ 2.54 is inserted.

³⁾ 500 V is achieved when the pitch spacer RZ 2,54 is inserted.

⁴⁾ Current carrying capacity curve available on request.

Accessories		
For all types	Type	Page
	Test plug MPS	831
	Reducing plug RPS Order No. 0201647	831
Only for KDS 2,5		
	Pitch spacer, width: 2.5 mm RZ-KDS 2,5 Order No. 1705029	
Only for KDS 3-PMT and KDS 3-MT		
	Pitch spacer, width: 2.54 mm RZ 2,54 Order No. 1780044	

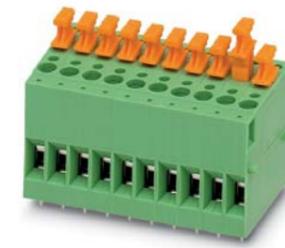
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	KDS 2,5	KDS 3-PMT	KDS 3-MT
Rated current / conductor cross section	24 ⁴⁾ / 4	13.5 ⁴⁾ / 4	15 ⁴⁾ / 4
Rated insulation voltage for pollution degree 2	400	320	320
Pitch	5	5.08	5.08
Connection capacity			
Solid / stranded	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	0.25 - 2.5	0.25 - 2.5	0.25 - 2.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	0.2 - 1 / 0.2 - 1.5	0.2 - 1 / 0.2 - 1	0.2 - 1 / 0.2 - 1
Stranded with ferrules without plastic sleeve	0.25 - 0.5	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1	0.5 - 1	0.5 - 1
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	250 ¹⁾ 400 630	320 ³⁾ 320 630	320 ²⁾ 320 630
Rated surge voltage	4 4 4	4 4 4	4 4 4
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	250 - - 300	250 - - 300	250 - - 300
Nominal current	15 - - 10	15 - - 10	15 - - 10
Connection capacity AWG	30 - 12 - - 30 - 12	28 - 12 - - 28 - 12	28 - 12 - - 28 - 12
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	300 - - 300	- - -	300 - - 300
Nominal current	10 - - 10	- - -	10 - - 10
Connection capacity AWG	24 - 12 - - 24 - 12	- - -	24 - 12 - - 24 - 12
General data			
Stripping length	9	8	8
Screw thread	M3	M3	M3
Tightening torque	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V2	V2	V2
Drill hole diameter / pin dimensions	1.4 / 1.1 x 0.7 mm	1.2 / 0.8 x 0.8 mm	1.4 / 1.1 x 0.8 mm

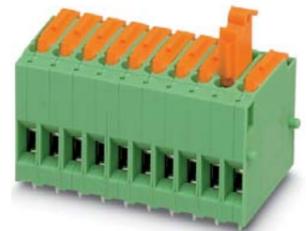
No. of pos.
1
1
1



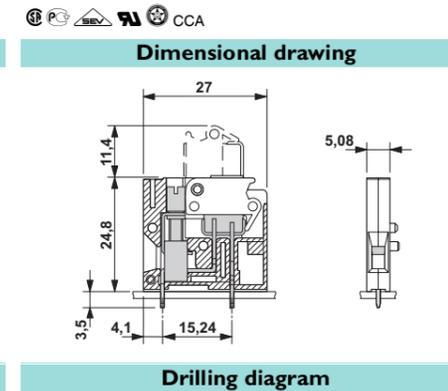
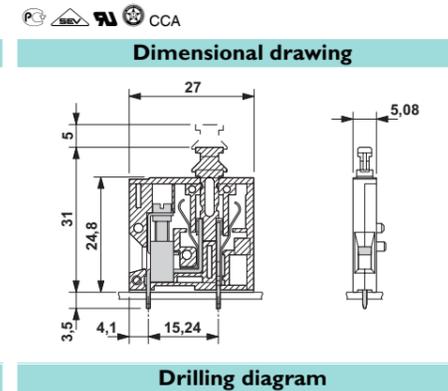
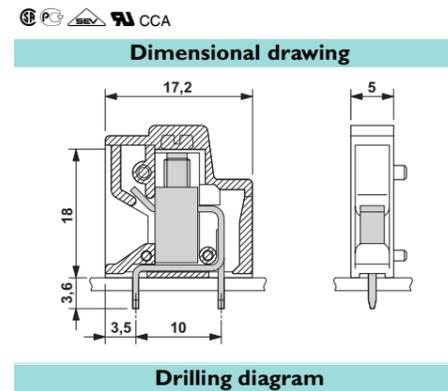
Single PCB terminal block, alignable



Disconnect terminal block with test connection on both sides of the disconnect point



Knife disconnect terminal block with test socket

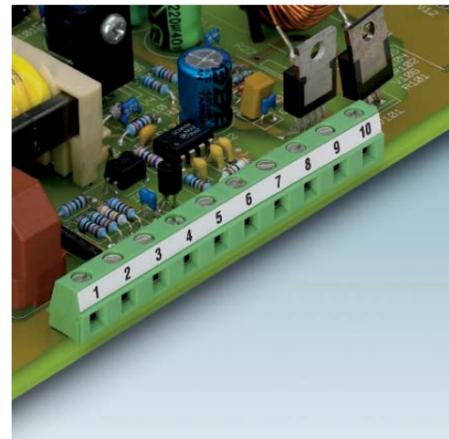


Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
KDS 2,5	1705016	50
Pitch 5 mm, color: Blue		
KDS 2,5 BU	1705090	50

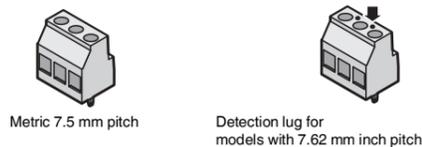
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
KDS 3-PMT	1780028	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
KDS 3-MT	1780015	50

Connection cross section of up to 1.5 mm²



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

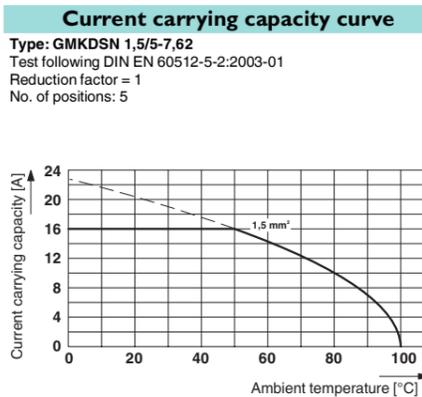


Metric 7.5 mm pitch
 Detection lug for models with 7.62 mm inch pitch

GMKDSN 1,5/...
 – Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
 – Can be connected in series with the corresponding standard models of the MKDSN 1,5 range
 – Low design for especially compact mains connections

GSMKDSN 1,5/...
 – Angled type with the connection direction at an angle of 55° to the PCB
 – An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

Accessories		
For all types	Type	Page
	Marker cards SK 7,62/5	800
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	



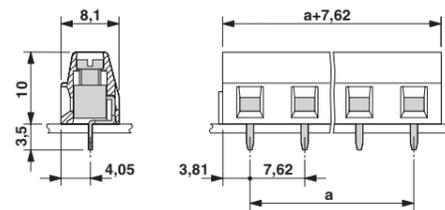
Low-profile design, with housing overlapping



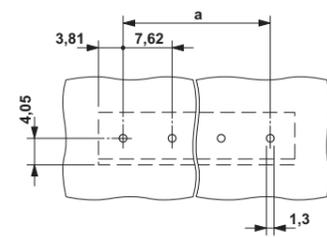
Low-profile design, with 55° angled connection direction and housing overlapping



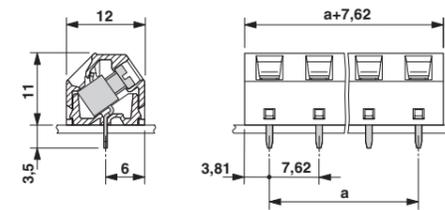
Dimensional drawing



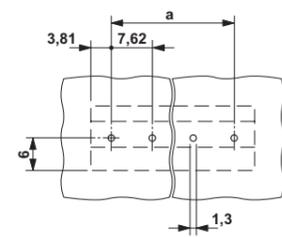
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	16 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.14 - 0.75 / 0.14 - 0.75
Solid / stranded [mm ²]	0.25 - 0.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	400 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - - 300
Nominal current [A]	10 - - 10
Connection capacity AWG	30 - 14 - - 30 - 14
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - - 300
Nominal current [A]	10 - - 10
Connection capacity AWG	28 - 14 - - 28 - 14
General data	
Stripping length [mm]	6
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0,5 x 1 mm

GMKDSN 1,5/ ...-7,62	GSMKDSN 1,5/ ...-7,62
16 ¹⁾ / 1.5	16 ¹⁾ / 1.5
630	630
7.62	7.62
0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16
0.25 - 1.5	0.25 - 1.5
0.25 - 1.5	0.25 - 1.5
0.14 - 0.75 / 0.14 - 0.75	0.14 - 0.75 / 0.14 - 0.75
0.25 - 0.5	0.25 - 0.5
0.5 - 1	0.5 - 1
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
400 630 1000	500 630 1000
6 6 6	6 6 6
B C D	B C D
300 - - 300	300 - - 300
10 - - 10	10 - - 10
30 - 14 - - 30 - 14	30 - 14 - - 30 - 14
B C D	B C D
300 - - 300	300 - - 300
10 - - 10	10 - - 10
28 - 14 - - 28 - 14	28 - 14 - - 28 - 14
6	6
M3	M3
0.5 - 0.6	0.5 - 0.6
PA / I	PA / I
V0	V2
1.3 / 0,5 x 1 mm	1.3 / 0,5 x 1 mm

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMKDSN 1,5/ 2-7,62	1707027	50
GMKDSN 1,5/ 3-7,62	1707030	50
GMKDSN 1,5/ 4-7,62	1707043	50
GMKDSN 1,5/ 5-7,62	1707056	50
GMKDSN 1,5/ 6-7,62	1707069	50
GMKDSN 1,5/ 7-7,62	1707072	50
GMKDSN 1,5/ 8-7,62	1707085	50
GMKDSN 1,5/ 9-7,62	1707108	50
GMKDSN 1,5/10-7,62	1707111	50
GMKDSN 1,5/11-7,62	1707124	50
GMKDSN 1,5/12-7,62	1707137	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GSMKDSN 1,5/ 2-7,62	1718605	50
GSMKDSN 1,5/ 3-7,62	1718618	50
GSMKDSN 1,5/ 4-7,62	1718621	50
GSMKDSN 1,5/ 5-7,62	1718634	50
GSMKDSN 1,5/ 6-7,62	1718647	50
GSMKDSN 1,5/ 7-7,62	1718650	50
GSMKDSN 1,5/ 8-7,62	1718663	50
GSMKDSN 1,5/ 9-7,62	1718676	50
GSMKDSN 1,5/10-7,62	1718689	50
GSMKDSN 1,5/11-7,62	1718692	50
GSMKDSN 1,5/12-7,62	1718702	50

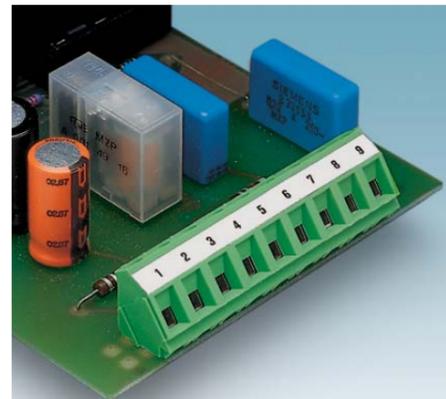
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

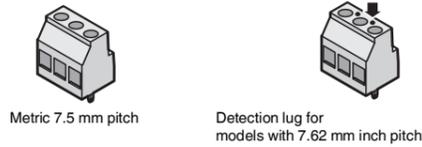
PCB terminal blocks with screw connection for wave soldering processes, currents of up to 41 A

PCB terminal blocks with screw connection for wave soldering processes, currents of up to 41 A

Connection cross section of up to 1.5 mm²

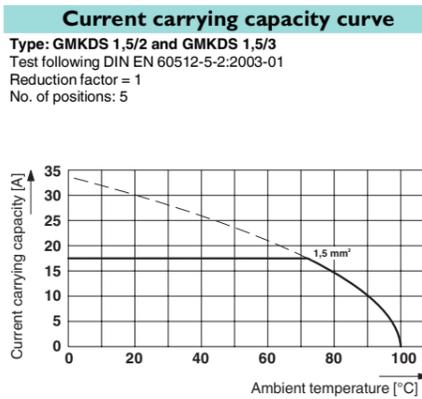


Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



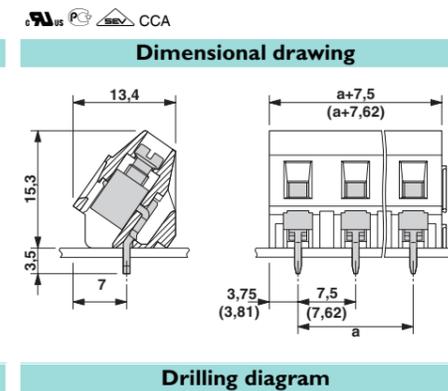
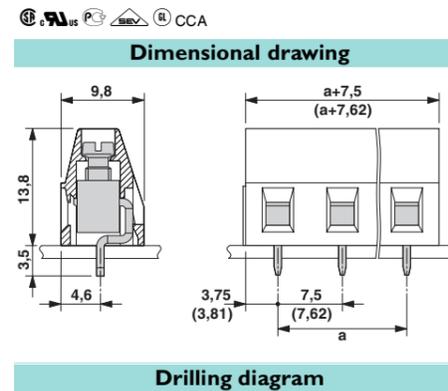
- GMKDS 1,5/...**
- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
 - Can be connected in series with the corresponding standard models of the MKDS 1,5 range
- GSMKDSP 1,5/...**
- Conductor and screwdriver axis at an angle of 35° to the PCB
 - An arrangement of several terminal block rows one behind the other – multi-level effect with the same design
 - With an integrated 2.3 mm Ø test connection

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 7,5/5 or SK 7,62/5	800
Only for GSMKDSP 1,5		
	Test plug MPS	831
	Reducing plug RPS Order No. 0201647	831



With horizontal connection direction and housing overlapping

With 35° angled connection direction and housing overlapping



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	GMKDS 1,5/ ...	GSMKDSP 1,5/ ...
Rated current / conductor cross section	17.5 ¹⁾ / 1.5	17.5 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	630	630
Pitch	7.5 / 7.62	7.5 / 7.62
Connection capacity		
Solid / stranded	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14
Stranded with ferrules without plastic sleeve	0.25 - 1	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid / stranded	0.14 - 1 / 0.14 - 0.75	0.14 - 1 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve	0.25 - 0.5	0.25 - 0.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1	0.5 - 1
Insulation coordination		
Surge voltage category / pollution degree		
	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	500 630 1000	500 630 1000
Rated surge voltage	6 6 6	6 6 6
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	300 - 300	300 - 300
Nominal current	10 - 10	10 - 10
Connection capacity AWG	30 - 14 - 30 - 14	30 - 14 - 30 - 14
Approval data (CSA)	B C D	B C D
Nominal voltage	300 - 300	- - -
Nominal current	10 - 10	- - -
Connection capacity AWG	28 - 14 - 28 - 14	- - -
General data		
Stripping length	6.5	7
Screw thread	M3	M3
Tightening torque	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group		
Inflammability class according to UL 94		
	PA / I	PA / I
	V0	V0
Drill hole diameter / pin dimensions	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
2	7.62
3	15.24

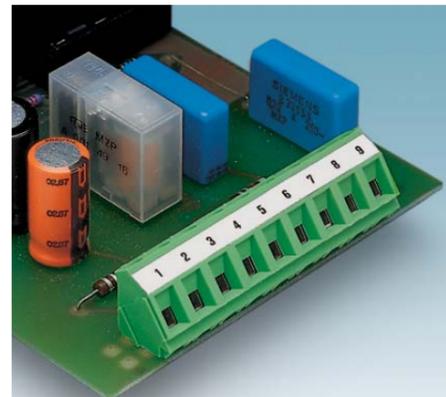
Ordering data		
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMKDS 1,5/ 2	1717020	250
GMKDS 1,5/ 3	1717033	250
Pitch 7.62 mm, color: Green		
GMKDS 1,5/ 2-7,62	1717729	250
GMKDS 1,5/ 3-7,62	1717732	250

Ordering data		
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GSMKDSP 1,5/ 2	1718029	250
GSMKDSP 1,5/ 3	1718032	250
Pitch 7.62 mm, color: Green		
GSMKDSP 1,5/ 2-7,62	1718728	250
GSMKDSP 1,5/ 3-7,62	1718731	250

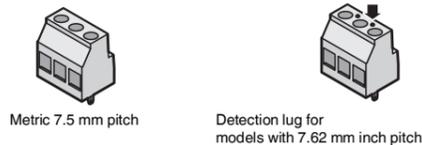
PCB terminal blocks with screw connection for wave soldering processes, currents of up to 41 A

PCB terminal blocks with screw connection for wave soldering processes, currents of up to 41 A

Connection cross section of up to 2.5 mm²



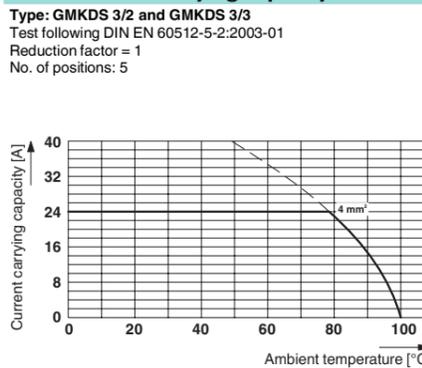
Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Accessories

For all types	Type	Page
	Marker cards SK 7,5/5 or SK 7,62/5	800
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Only for GMKDS 3 and GMKDSP 3		
	Single cover for individual terminal positions EA-MKDS Order No. 1711408	
Only for GMKDSP 3		
	Test plug MPS	831
	Reducing plug RPS Order No. 0201647	831
	Test plug SPB 5-MKDS 3 Order No. 1301216	833

Current carrying capacity curve



- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
- Can be connected in series with corresponding standard models of the MKDS 3 range

- GMKDSP 3/...**
- With an additionally integrated test connection to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors

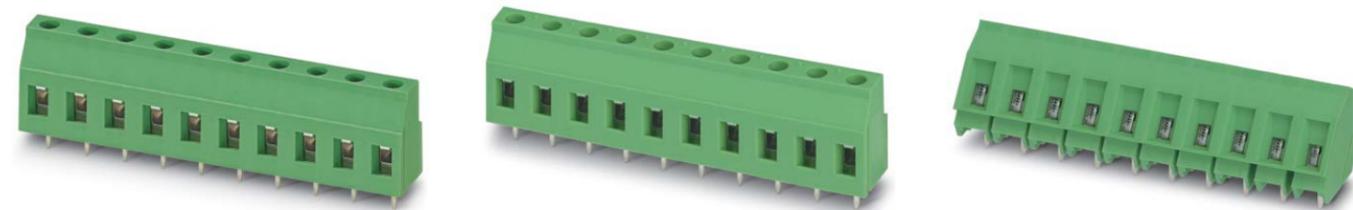
- GSMKDS 3/...**
- Conductor and screwdriver axis at an angle of 35° to the PCB
 - An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

GMKDS 3/ ...	GMKDSP 3/ ...	GSMKDS 3/ ...
24 ¹⁾ / 4	24 ¹⁾ / 4	24 ¹⁾ / 4
630	630	630
7.5 / 7.62	7.5 / 7.62	7.5 / 7.62
0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12
0.25 - 2.5	0.25 - 2.5	0.25 - 2.5
0.25 - 2.5	0.25 - 2.5	0.25 - 2.5
0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
0.5 - 1.5	0.5 - 1.5	0.5 - 1.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
500 630 1000	500 630 1000	500 630 1000
6 6 6	6 6 6	6 6 6
B C D	B C D	B C D
250 - 300	250 - 300	250 - 300
15 - 10	15 - 10	15 - 10
30 - 12	30 - 12	30 - 12
B C D	B C D	B C D
300 - 300	- - -	300 - 300
10 - 10	- - -	10 - 10
28 - 12	- - -	28 - 12
8	7	8
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA / I	PA / I	PA / II
V0	V2	V0
1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
2	7.62
3	15.24



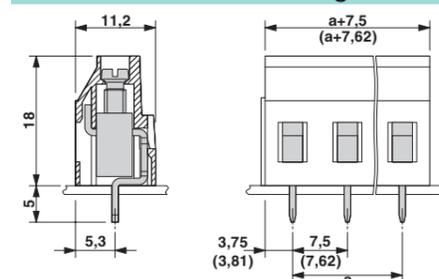
With housing overlapping

With test connection and housing overlapping

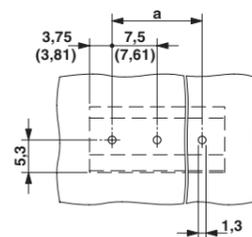
With 35° angled connection direction and housing overlapping



Dimensional drawing



Drilling diagram

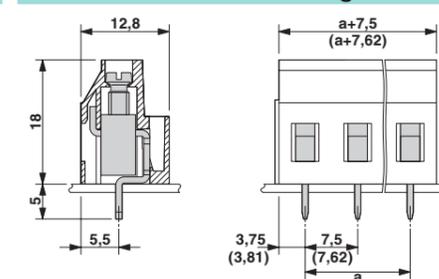


Ordering data

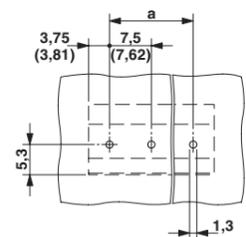
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMKDS 3/ 2	1731022	100
GMKDS 3/ 3	1731035	100
Pitch 7.62 mm, color: Green		
GMKDS 3/ 2-7,62	1731721	100
GMKDS 3/ 3-7,62	1731734	100



Dimensional drawing



Drilling diagram

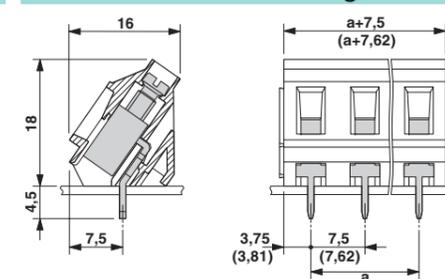


Ordering data

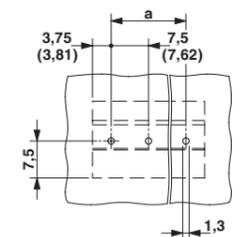
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMKDSP 3/ 2	1732021	50
GMKDSP 3/ 3	1732034	50
Pitch 7.62 mm, color: Green		
GMKDSP 3/ 2-7,62	1732720	50
GMKDSP 3/ 3-7,62	1732733	50



Dimensional drawing



Drilling diagram



Ordering data

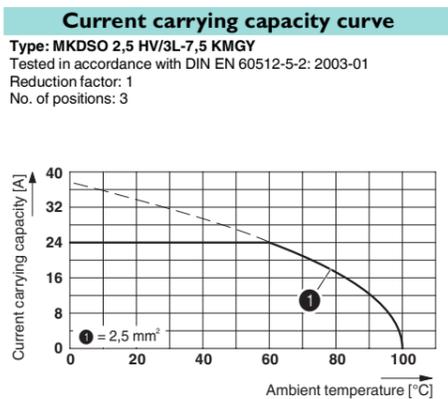
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GSMKDS 3/ 2	1733020	100
GSMKDS 3/ 3	1733033	100
Pitch 7.62 mm, color: Green		
GSMKDS 3/ 2-7,62	1733729	100
GSMKDS 3/ 3-7,62	1733732	100

Connection cross section of up to 2.5 mm²



- PCB terminal block ME MAX electronic housing
- PCB terminal block is orthogonal to the PCB
- "Left" and "right" design
- 7.5 mm pitch
- 2 and 3-pos.

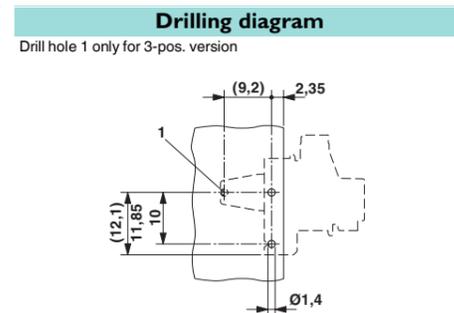
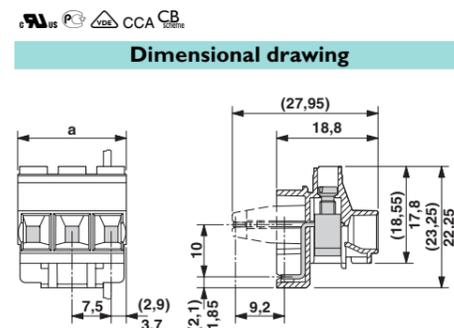
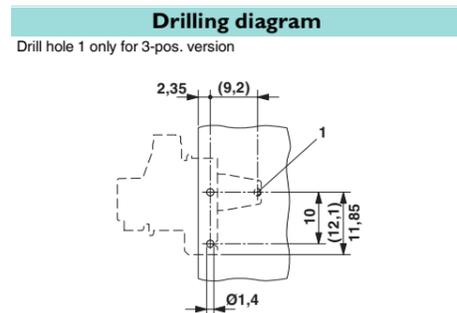
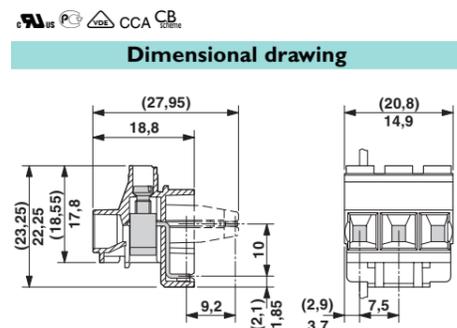
Accessories		
For all types	Type	Page
	Marker cards SK 7,5/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



With "left" solder pins leading off at a right angle



With "right" solder pins leading off at a right angle



Technical data

Technical data in accordance to IEC / DIN VDE

Rated current / conductor cross section	[A] / [mm ²]	24 / 2.5	24 / 2.5
Rated insulation voltage for pollution degree 2	[V]	630	630
Pitch	[mm]	7.5	7.5
Connection capacity	[mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14
Solid / stranded	[mm ²] / [mm ²] / AWG	0.25 - 2.5	0.25 - 2.5
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 2.5	0.25 - 2.5
Stranded with ferrules with plastic sleeve	[mm ²]	0.25 - 2.5	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]	0.2 - 0.75 / 0.25 - 0.75	0.2 - 0.75 / 0.25 - 0.75
Solid / stranded	[mm ²]	0.25 - 0.75	0.25 - 0.75
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	0.25 - 1.5	0.25 - 1.5
Insulation coordination			
Surge voltage category / pollution degree		III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	[V]	600 630 1000	600 630 1000
Rated surge voltage	[kV]	6 6 6	6 6 6
Approval data (UL/CUL)	Use Group	B C D	B C D
Nominal voltage	[V]	300 300 600	300 300 600
Nominal current	[A]	20 20 5	20 20 5
Connection capacity AWG	AWG	30 - 12 30 - 12 30 - 12	30 - 12 30 - 12 30 - 12
Approval data (CSA)	Use Group	B C D	B C D
Nominal voltage	[V]	- - -	- - -
Nominal current	[A]	- - -	- - -
Connection capacity AWG	AWG	- - -	- - -
General data			
Stripping length	[mm]	8	8
Screw thread		M3	M3
Tightening torque	[Nm]	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 mm x 1 mm	1.4 / 0,8 mm x 1 mm

MKDSO 2,5 HV/ ...L-7,5 KMGY	MKDSO 2,5 HV/ ...R-7,5 KMGY
24 / 2.5	24 / 2.5
630	630
7.5	7.5
0.2 - 2.5 / 0.2 - 2.5 / 24 - 14	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14
0.25 - 2.5	0.25 - 2.5
0.25 - 2.5	0.25 - 2.5
0.2 - 0.75 / 0.25 - 0.75	0.2 - 0.75 / 0.25 - 0.75
0.25 - 0.75	0.25 - 0.75
0.25 - 1.5	0.25 - 1.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
600 630 1000	600 630 1000
6 6 6	6 6 6
B C D	B C D
300 300 600	300 300 600
20 20 5	20 20 5
30 - 12 30 - 12 30 - 12	30 - 12 30 - 12 30 - 12
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
8	8
M3	M3
0.5 - 0.6	0.5 - 0.6
PA / I	PA / I
V0	V0
1.4 / 0,8 mm x 1 mm	1.4 / 0,8 mm x 1 mm

No. of pos.	Dim. a [mm]
2	7.50
3	15.00

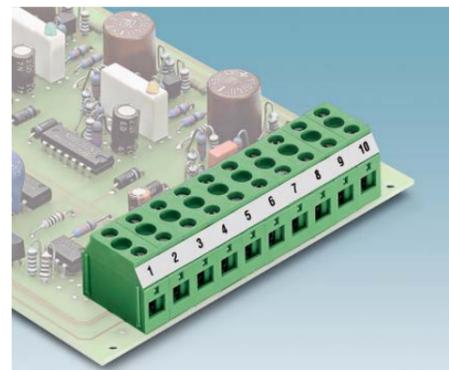
Ordering data

Type	Order No.	Pcs. / Pkt.
PCB terminal block, high-current-compatible, only for ME MAX housing, 7.5 mm pitch, color: light gray		
MKDSO 2,5 HV/ 2L-7,5 KMGY	2199676	50
MKDSO 2,5 HV/ 3L-7,5 KMGY	2890946	50

Ordering data

Type	Order No.	Pcs. / Pkt.
PCB terminal block, high-current-compatible, only for ME MAX housing, 7.5 mm pitch, color: light gray		
MKDSO 2,5 HV/ 2R-7,5 KMGY	2199773	50
MKDSO 2,5 HV/ 3R-7,5 KMGY	2890959	50

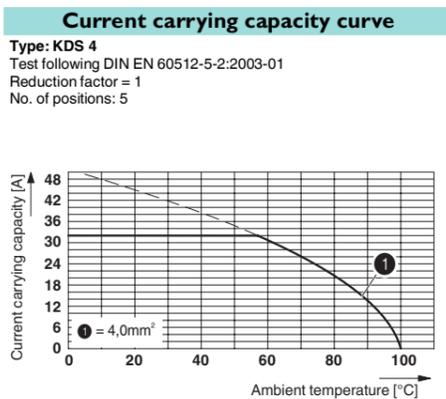
Single terminal blocks of up to 4 mm²



- Rugged single terminal block
- Double solder pin for high stability on the PCB
- Low-heat generating current transfer in the conducting path
- Increase in voltage with pitch spacers
- Allows a through wiring with a separate exit to the PCB
- A plate-type design enables blocking for larger number of positions

Notes:
 1) It achieves 500 V when a RZ-KDS 4 pitch spacer is inserted.
 2) Current carrying capacity between the conductor connections: 41 A; for solder connection: 32 A. Please observe the current carrying capacity curve. Other current carrying capacity curves are available on request.

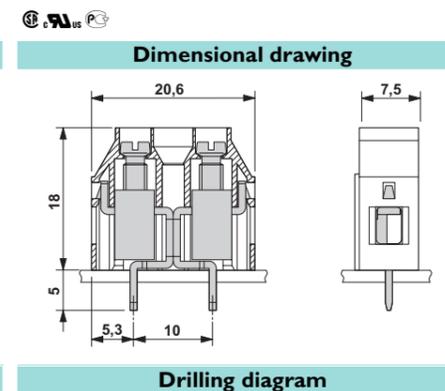
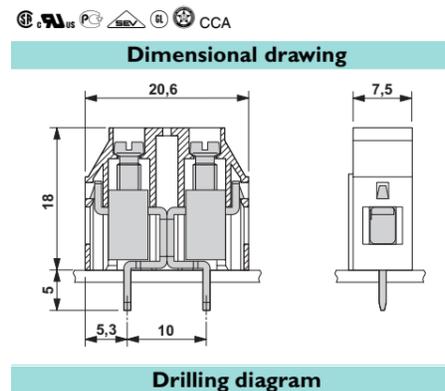
Accessories		
For all types	Type	Page
	Marker cards SK 7,5/3,8	799
	Pitch spacer, width: 2.5 mm RZ-KDS 4 Order No. 1705058	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Only for KDSP 4		
	Test plug MPS	831
	Reducing plug RPS Order No. 0201647	831



Single terminal block



Single terminal block with test connection



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
KDS 4	1780507	50

Ordering data

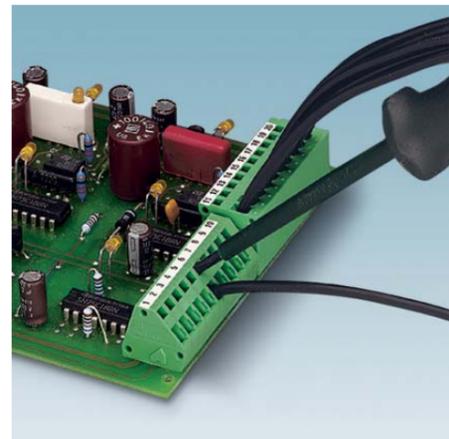
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
KDSP 4	1780536	50

Technical data

	KDS 4	KDSP 4
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section [A] / [mm ²]	41 ²⁾ / 6	41 ²⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	320	320
Pitch [mm]	7.5	7.5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1.5 / 0.2 - 1	0.2 - 1.5 / 0.2 - 1
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	320 ¹⁾ 320 630	320 ¹⁾ 320 630
Rated surge voltage [kV]	4 4 4	4 4 4
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	300 - - 300	300 - - 300
Nominal current [A]	30 - - 10	30 - - 10
Connection capacity AWG	30 - 10 - - 30 - 10	30 - 10 - - 30 - 10
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	300 - - 300	300 - - 300
Nominal current [A]	30 - - 10	30 - - 10
Connection capacity AWG	28 - 10 - - 28 - 10	28 - 10 - - 28 - 10
General data		
Stripping length [mm]	8	8
Screw thread	M3	M3
Tightening torque [Nm]	0.6 - 0.8	0.6 - 0.8
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

No. of pos.
1

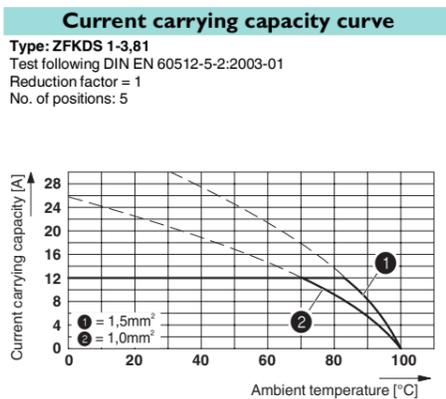
Connection cross section of up to 1.5 mm²



- Pitch: 3.81 mm
- Single-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- W-type with an orange opening lever, enables operation of the terminal point without tools
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

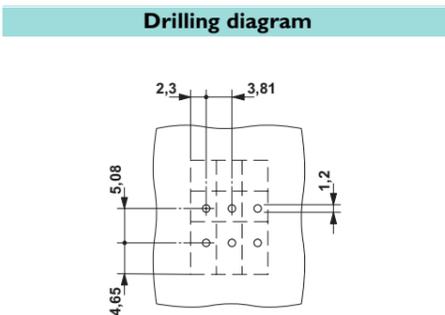
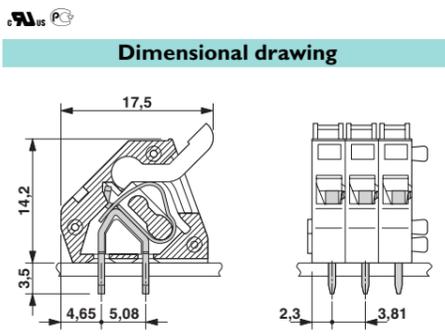
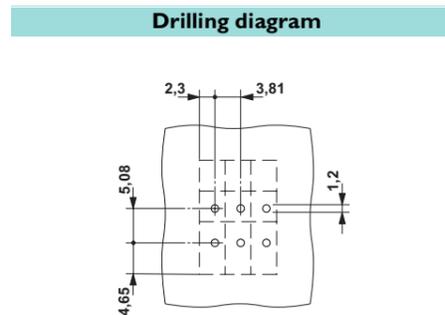
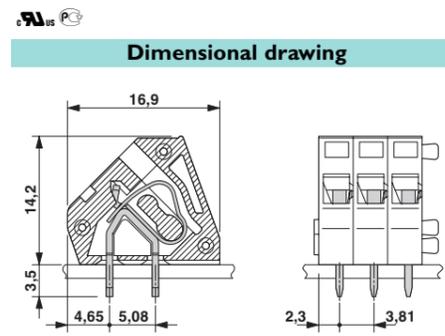
Accessories		
For all types	Type	Page
	Marker cards SK 3,81/2,8	797
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Without actuation rocker, with housing overlapping



With actuation rocker and housing overlapping



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	ZFKDS 1-3,81	ZFKDS 1-W-3,81
Rated current / conductor cross section	12 ¹⁾ / 1.5	12 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2	200	200
Pitch	3.81	3.81
Connection capacity		
Solid / stranded	0.14 - 1.5 / 0.14 - 1 / 26 - 16	0.14 - 1.5 / 0.14 - 1 / 26 - 16
Stranded with ferrules without plastic sleeve	0.25 - 0.5	0.25 - 0.5
Stranded with ferrules with plastic sleeve	0.25 - 0.5	0.25 - 0.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	200 200 400	160 200 400
Rated surge voltage	2.5 2.5 2.5	2.5 2.5 2.5
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	250 - 300	250 - 300
Nominal current	10 - 10	10 - 10
Connection capacity AWG	26 - 16 - 26 - 16	26 - 16 - 26 - 16
Approval data (CSA)	B C D	B C D
Nominal voltage	- - -	- - -
Nominal current	- - -	- - -
Connection capacity AWG	- - -	- - -
General data		
Stripping length	7.5	7.5
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V0
Drill hole diameter / pin dimensions	1.2 / 0,7 x 0,8 mm	1.2 / 0,7 x 1 mm

No. of pos.
1
1

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
ZFKDS 1-3,81	1704978	50
End terminal block, 6.35 mm wide, necessary at the end of a row of terminal blocks		
ZFKDSA 1-6,35	1704981	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
ZFKDS 1-W-3,81	1705003	50
End terminal block, with actuation rocker, 6.35 mm wide, necessary at the end of a row of terminal blocks		
ZFKDSA 1-W-6,35	1704994	50

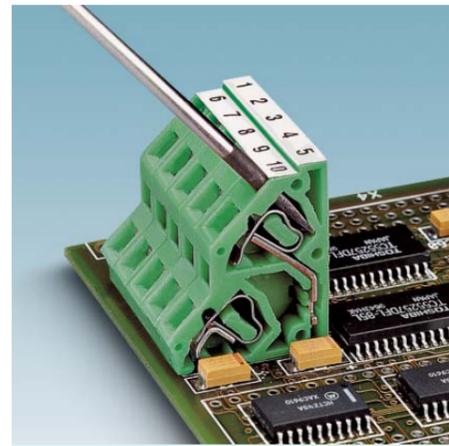
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with spring-cage connection for wave soldering processes, currents up to 24 A

PCB terminal blocks with spring-cage connection for wave soldering processes, currents up to 24 A

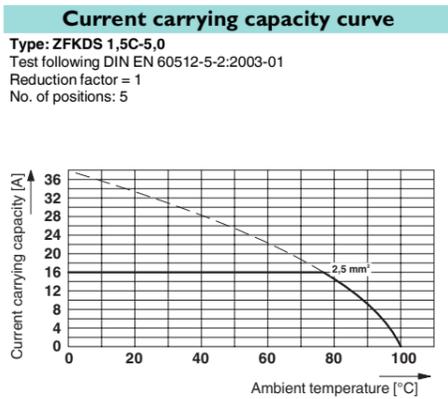
Connection cross section of up to 1.5 mm²



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

- 5.0 or 5.08 mm pitch
- Single and double-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- Compact housing dimensions
- W-type with an orange opening lever, enables operation of the terminal point without tools
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

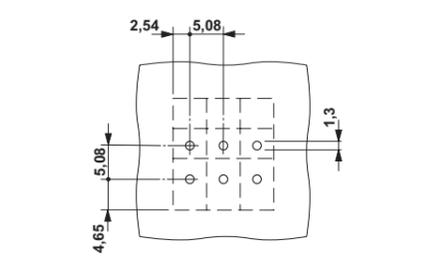
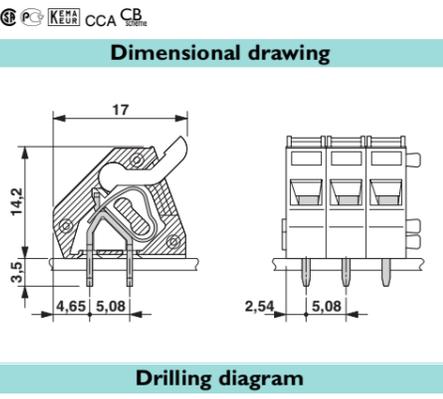
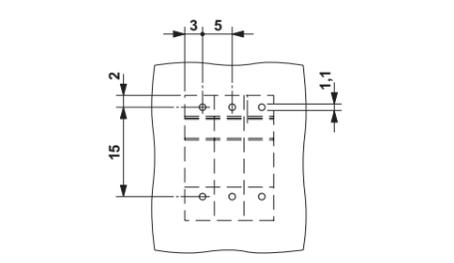
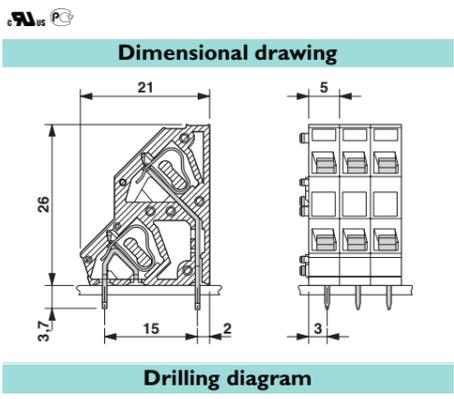
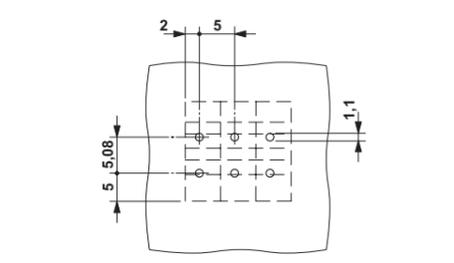
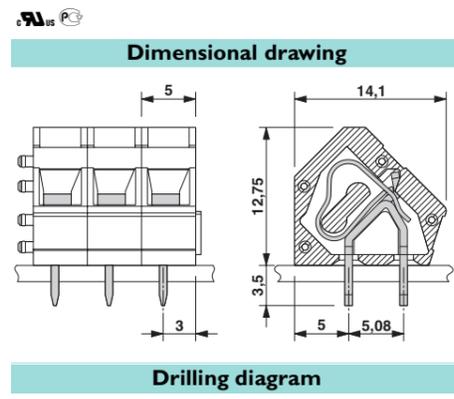
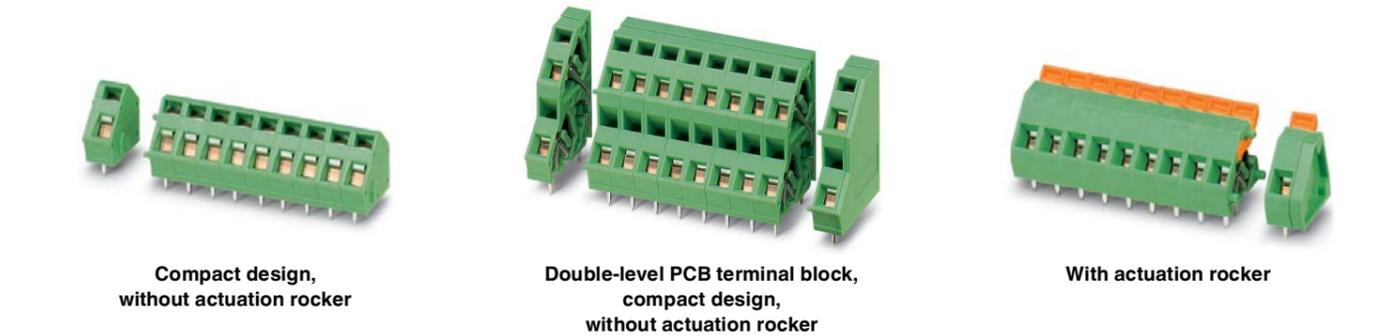
Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for ZFKDS 1,5C-5,0 and ZFKKDS 1,5C-5,0		
	Marker cards SK 5/3,8	798
Only for ZFKDS 1,5-W-5,08		
	Marker cards SK 5,08/3,8	798
	Pitch spacer, width: 2.54 mm RZ-ZFKDS 1,5 Order No. 1870666	



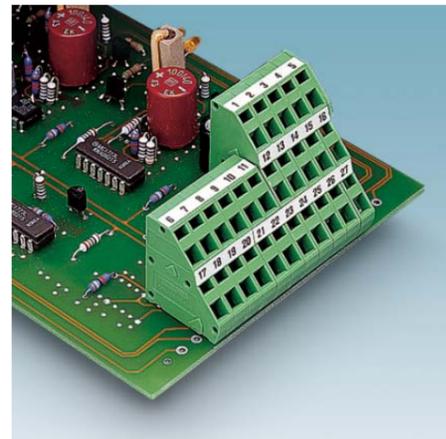
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	ZFKDS 1,5C-5,0	ZFKKDS 1,5C-5,0	ZFKDS 1,5-W-5,08
Rated current / conductor cross section	16 ¹⁾ / 2.5	16 ¹⁾ / 2.5	16 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	400	400	400
Pitch	5	5	5.08
Connection capacity			
Solid / stranded	0.2 - 2.5 / 0.2 - 1.5 / 24 - 14	0.2 - 2.5 / 0.2 - 1.5 / 24 - 14	0.2 - 2.5 / 0.2 - 1.5 / 24 - 14
Stranded with ferrules without plastic sleeve	0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630	250 400 630	250 400 630
Rated surge voltage	4 4 4	4 4 4	4 4 4
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	250 - 300	250 - 300	- - -
Nominal current	10 - 10	10 - 10	- - -
Connection capacity AWG	26 - 12 - 26 - 12	26 - 12 - 26 - 12	- - -
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	- - -	- - -	300 - 300
Nominal current	- - -	- - -	10 - 10
Connection capacity AWG	- - -	- - -	28 - 12 - 28 - 12
General data			
Stripping length	7	7	7.5
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1.1 / 0,7 x 0,7	1.1 / 0,7 x 0,7 mm	1.3 / 0,7 x 1 mm

No. of pos.
1
1
1
1
1



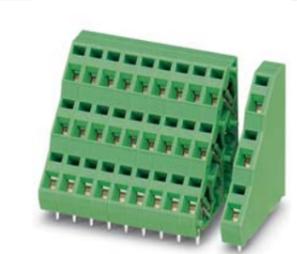
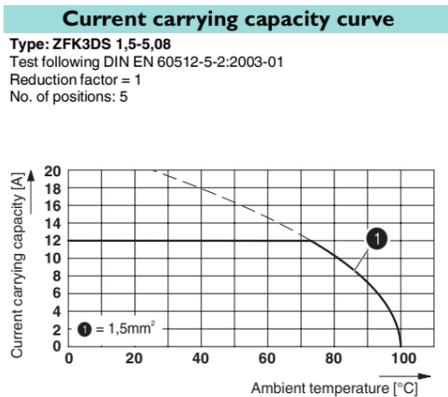
Connection cross section of up to 1.5 mm²



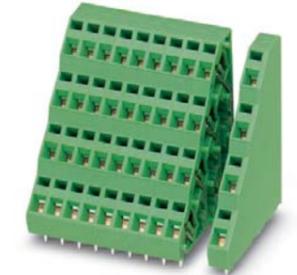
Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

- 5.08 mm pitch
- Three and four-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Pin-compatible with screw connection of PCB terminal blocks MK3DS 1,5 and MK4DS 1,5; two alternative connection methods are thus available for the same application without complex changes in the layout.
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

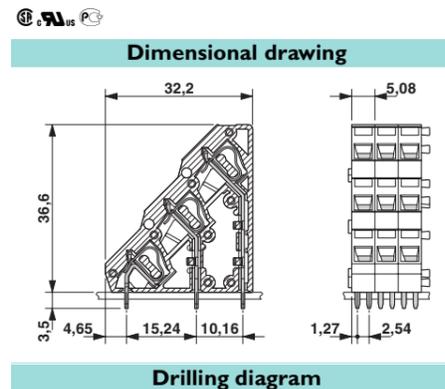
Accessories		
For all types	Type	Page
	Marker cards SK 5,08/3,8	798
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Three-level PCB terminal block

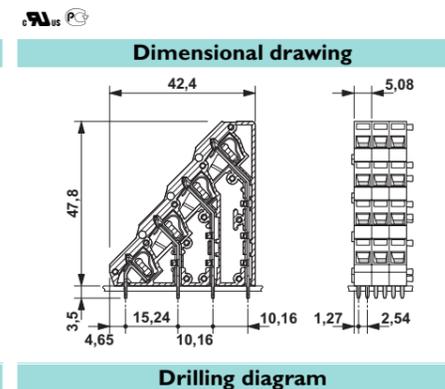


Four-level PCB terminal block



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFK3DS 1,5-5,08	1704415	100
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks		
ZFK3DSA 1,5-6,08	1704554	250
Segment terminal block, 6.35 mm wide, necessary to align double-level terminal blocks ZFKKDS 1,5-5,08		
ZFK3DSA 1,5-5,08-DS	1706167	50



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFK4DS 1,5-5,08	1869910	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks		
ZFK4DSA 1,5-6,08	1869923	50

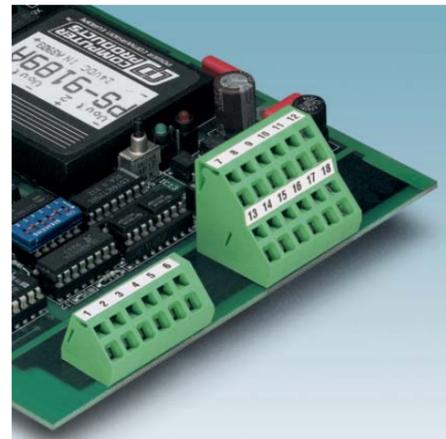
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	ZFK3DS 1,5-5,08	ZFK4DS 1,5-5,08
Rated current / conductor cross section	12 ¹⁾ / 2.5	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	400	400
Pitch	5.08	5.08
Connection capacity		
Solid / stranded	0.2 - 2.5 / 0.2 - 1.5 / 24 - 14	0.2 - 2.5 / 0.2 - 1.5 / 24 - 14
Stranded with ferrules without plastic sleeve	0.25 - 1.5	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5	0.25 - 1.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630	250 400 630
Rated surge voltage	4 4 4	4 4 4
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	250 - 300	250 - 300
Nominal current	10 - 10	10 - 10
Connection capacity AWG	26 - 12 - 26 - 12	26 - 12 - 26 - 12
Approval data (CSA)	B C D	B C D
Nominal voltage	300 - 300	- - -
Nominal current	10 - 10	- - -
Connection capacity AWG	28 - 12 - 28 - 12	- - -
General data		
Stripping length	7.5	7.5
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V0
Drill hole diameter / pin dimensions	1.3 / 0,7 x 1 mm	1.3 / 0,7 x 1 mm

No. of pos.
1
1
1

Connection cross section of up to 2.5 mm²



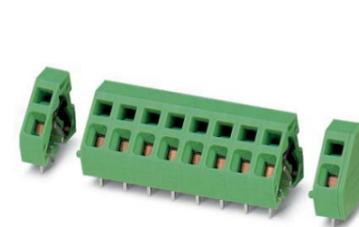
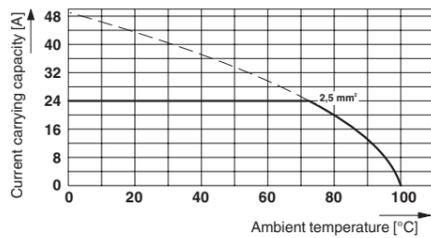
- 5.08 mm pitch
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

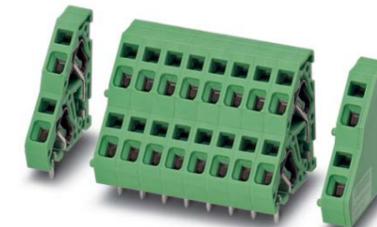
Accessories		
For all types	Type	Page
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 5,08/3,8	798
Only for ZFKDS 2,5-5,08		
	Pitch spacer, width: 2.54 mm RZ-ZFKDS 2,5 Order No. 1931039	
Only for ZFKKDS 2,5-5,08		
	Pitch spacer, width: 2.54 mm RZ-ZFKKDS 2,5 Order No. 1934612	

Current carrying capacity curve

Type: ZFKDS 2,5-5,08
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5

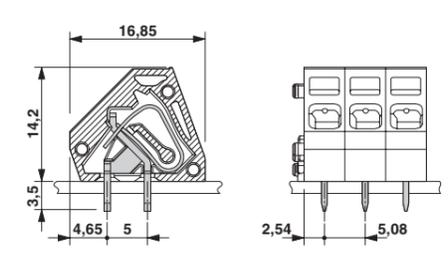


Single-level PCB terminal block

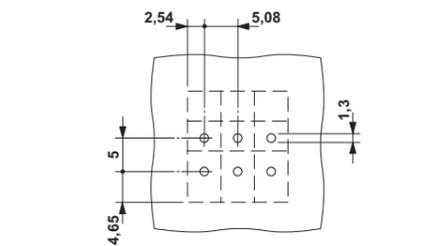


Double-level PCB terminal block

Dimensional drawing



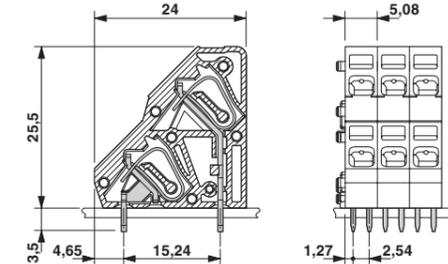
Drilling diagram



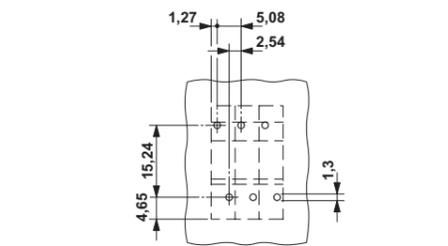
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFKDS 2,5-5,08	1904969	50
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
ZFKDS 2,5-5,08 L	1905214	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)		
ZFKDSA 2,5-6,08 R	1905010	50

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFKKDS 2,5-5,08	1905023	50
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
ZFKKDS 2,5-5,08 L	1905227	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)		
ZFKKDSA 2,5-6,08 R	1905036	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	ZFKDS 2,5-5,08	ZFKKDS 2,5-5,08
Rated current / conductor cross section	24 ¹⁾ / 4	17.5 ¹⁾ / 4
Rated insulation voltage for pollution degree 2	400	400
Pitch	5.08	5.08
Connection capacity		
Solid / stranded	0.2 - 4 / 0.2 - 2.5 / 24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	0.25 - 2.5	0.25 - 2.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5	0.25 - 1.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630	250 400 630
Rated surge voltage	4 4 4	4 4 4
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	250 - 300	250 - 300
Nominal current	10 - 10	10 - 10
Connection capacity AWG	26 - 12 - 26 - 12	26 - 12 - 26 - 12
Approval data (CSA)	B C D	B C D
Nominal voltage	- - -	- - -
Nominal current	- - -	- - -
Connection capacity AWG	- - -	- - -
General data		
Stripping length	7	7
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V0
Drill hole diameter / pin dimensions	1.3 / 0.8 x 0.8 mm	1.3 / 0.8 x 0.8 mm

No. of pos.
1
1
1

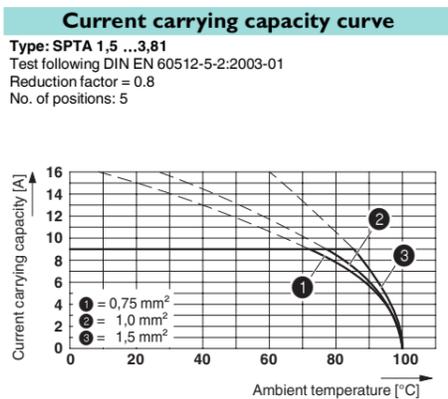
Angled conductor connection of up to 1.5 mm²



- Angled PCB terminal block with 3.81/5.08 mm pitch with integrated touch connection
- Convenient and fast conductor connection using Push-in direct plug-in system
- Easy operation when loosening the conductor using an orange actuating lever
- Different pitch dimensions can be combined depending on product range
- Front pin is a solder pin for additional mechanical stability only, it does not have any electrical properties

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

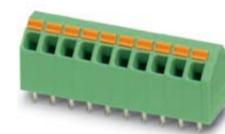
Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for SPTA 1,5/...-3,81		
	Marker cards SK 3,81/2,8	797
Only for SPTA 1,5/...-5,08		
	Marker cards SK 5,08/3,8	798



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	SPTA 1,5/ ...-3,81	SPTA 1,5/ ...-5,08
Rated current / conductor cross section	9 ¹⁾ / 1,5	9 ¹⁾ / 1,5
Rated insulation voltage for pollution degree 2	160	320
Pitch	3.81	5.08
Connection capacity		
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve	0.25 - 1.5	0.25 - 1.5
Stranded with ferrules with plastic sleeve	0.25 - 1.5	0.25 - 1.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	160 160 320	250 320 630
Rated surge voltage	2.5 2.5 2.5	4 4 4
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	300 - -	300 - 300
Nominal current	10 - -	10 - 10
Connection capacity AWG	26 - 16 - -	26 - 16 - 26 - 16
Approval data (CSA)	B C D	B C D
Nominal voltage	- - -	- - -
Nominal current	- - -	- - -
Connection capacity AWG	- - -	- - -
General data		
Stripping length	10	10
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V0
Drill hole diameter / pin dimensions	1.1 / 0,6 x 1,0 mm	1.1 / 0,6 x 1,0 mm

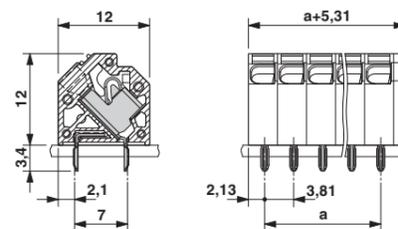
No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88



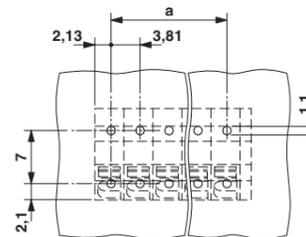
3.81 mm pitch, with 45° angled connection direction and opening lever



Dimensional drawing

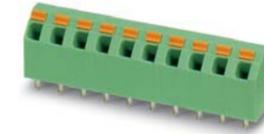


Drilling diagram



Ordering data

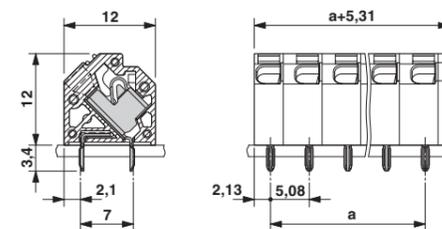
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
SPTA 1,5/ 2-3,81	1751477	100
SPTA 1,5/ 3-3,81	1751480	100
SPTA 1,5/ 4-3,81	1751493	50
SPTA 1,5/ 5-3,81	1751503	50
SPTA 1,5/ 6-3,81	1751516	50
SPTA 1,5/ 7-3,81	1743184	50
SPTA 1,5/ 8-3,81	1751529	50
SPTA 1,5/ 9-3,81	1751532	50
SPTA 1,5/10-3,81	1751545	50
SPTA 1,5/11-3,81	1743197	50
SPTA 1,5/12-3,81	1751558	50



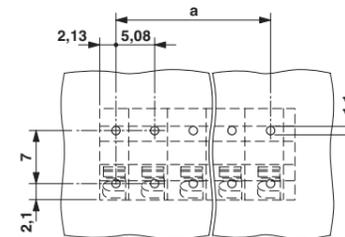
5.08 mm pitch, with 45° angled connection direction and opening lever



Dimensional drawing



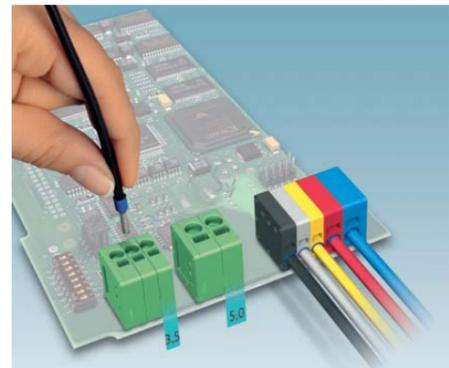
Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
SPTA 1,5/ 2-5,08	1751163	100
SPTA 1,5/ 3-5,08	1744442	100
SPTA 1,5/ 4-5,08	1751189	50
SPTA 1,5/ 5-5,08	1751192	50
SPTA 1,5/ 6-5,08	1751202	50
SPTA 1,5/ 7-5,08	1751215	50
SPTA 1,5/ 8-5,08	1751228	50
SPTA 1,5/ 9-5,08	1751231	50
SPTA 1,5/10-5,08	1751244	50
SPTA 1,5/11-5,08	1751257	50
SPTA 1,5/12-5,08	1751464	50

Horizontal or vertical conductor connection of up to 2.5 mm²



Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

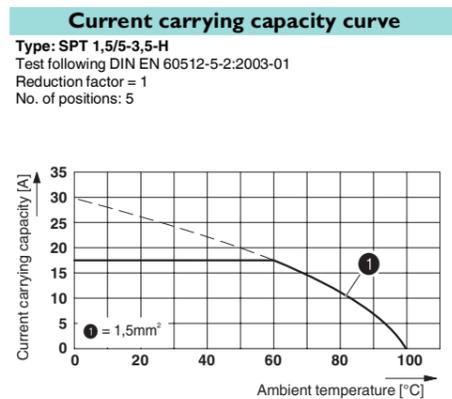
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

2) Voltages with pitch spacer

	III/3	III/2	II/2
With RZ-SPT-2,5-2,5	320 V	400 V	630 V
With RZ-SPT-2,5-5,0	500 V	630 V	800 V

- PCB terminal blocks with front spring connection
- Pitch 3.5 mm
- Double solder pin for high stability on the PCB
- Generously dimensioned connection cross section with a compact 3.5 mm pitch
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using standard screwdrivers
- Horizontal and vertical types
- Larger numbers of positions on request
- Can be combined with the 5.0 mm pitch

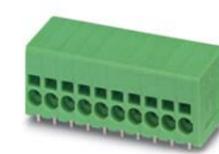
Accessories		
For all types	Type	Page
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Marker cards SK 3,5/2,8	797
	Pitch spacer, width: 2.5 mm RZ-SPT 2,5-2,5 Order No. 1772595	
	Pitch spacer, width: 5 mm RZ-SPT 2,5-5,0 Order No. 1772605	
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



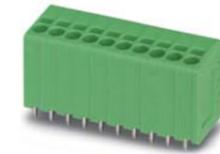
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPT 1,5/...-H-3,5			SPT 1,5/...-V-3,5		
17.5 ¹⁾ / 1.5			17.5 ¹⁾ / 1.5		
200 ²⁾			200 ²⁾		
3.5			3.5		
0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
0.25 - 1.5			0.25 - 1.5		
0.25 - 0.75			0.25 - 0.75		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
160	200 ²⁾	400	160	200 ²⁾	400
2.5	2.5	2.5	2.5	2.5	2.5
B	C	D	B	C	D
150	-	300	150	-	300
10	-	10	10	-	10
24 - 16	24 - 16	24 - 16	24 - 16	24 - 16	24 - 16
B	C	D	B	C	D
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
10			10		
PA / I			PA / I		
V0			V0		
1.1 / 0,8 x 0,8 mm			1.1 / 0,8 x 0,8 mm		

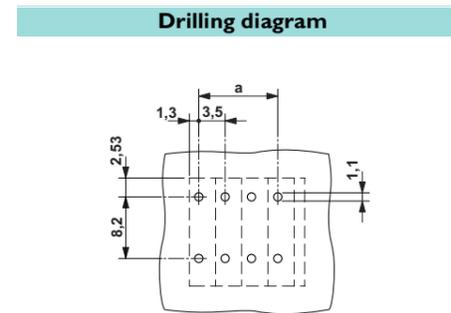
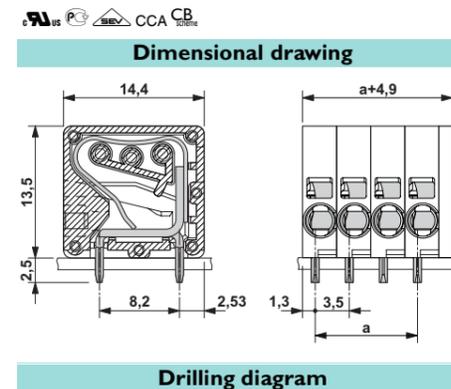
No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50



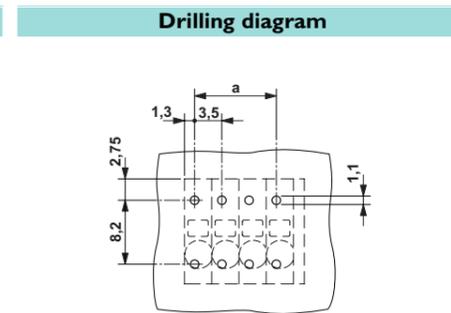
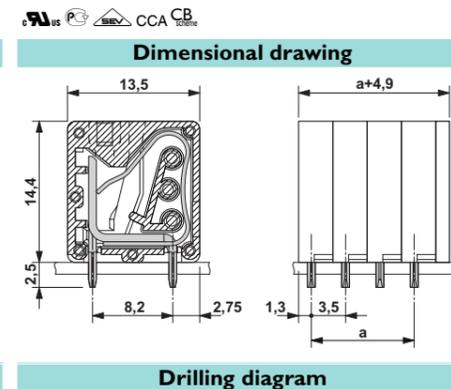
Connection direction parallel to the PCB



Connection direction vertical to the PCB

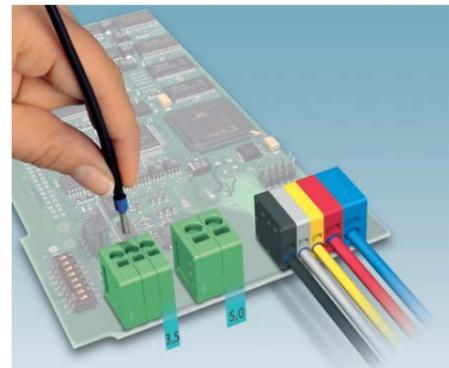


Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SPT 1,5/ 2-H-3,5	1990737	100
SPT 1,5/ 3-H-3,5	1990740	100
SPT 1,5/ 4-H-3,5	1990753	100
SPT 1,5/ 5-H-3,5	1990766	100
SPT 1,5/ 6-H-3,5	1990779	100
SPT 1,5/ 7-H-3,5	1990782	50
SPT 1,5/ 8-H-3,5	1990795	50
SPT 1,5/ 9-H-3,5	1990805	50
SPT 1,5/10-H-3,5	1990818	50
SPT 1,5/11-H-3,5	1990821	50
SPT 1,5/12-H-3,5	1990834	50



Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SPT 1,5/ 2-V-3,5	1990850	100
SPT 1,5/ 3-V-3,5	1990863	100
SPT 1,5/ 4-V-3,5	1990876	100
SPT 1,5/ 5-V-3,5	1990889	100
SPT 1,5/ 6-V-3,5	1990892	100
SPT 1,5/ 7-V-3,5	1990902	50
SPT 1,5/ 8-V-3,5	1990915	50
SPT 1,5/ 9-V-3,5	1990928	50
SPT 1,5/10-V-3,5	1990931	50
SPT 1,5/11-V-3,5	1990944	50
SPT 1,5/12-V-3,5	1990957	50

Horizontal or vertical conductor connection of up to 2.5 mm²



Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

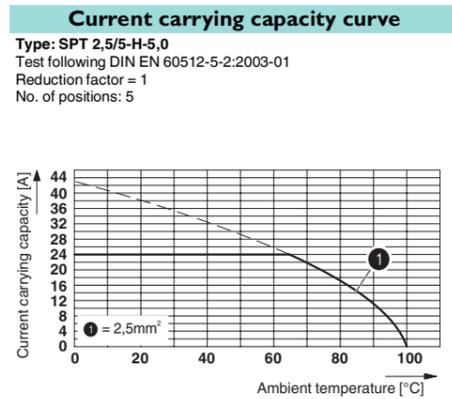
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

2) Voltages with pitch spacer

	III/3	III/2	II/2
With RZ-SPT-2,5-2,5	400 V	630 V	800 V
With RZ-SPT-2,5-5,0	630 V	800 V	1000 V

- PCB terminal blocks with front spring connection
- 5.0 mm pitch
- Double solder pin for high stability on the PCB
- Generously dimensioned connection cross section up to 2.5 mm²
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using standard screwdrivers
- Horizontal and vertical types
- Larger numbers of positions on request
- Can be combined with the 3.5 mm pitch

Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 5/3,8	798
	Pitch spacer, width: 2.5 mm RZ-SPT 2,5-2,5 Order No. 1772595	
	Pitch spacer, width: 5 mm RZ-SPT 2,5-5,0 Order No. 1772605	
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPT 2,5/ ...-H-5,0			SPT 2,5/ ...-V-5,0		
24 ¹⁾ / 4			24 ¹⁾ / 4		
400 ²⁾			400 ²⁾		
5			5		
0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
0.25 - 2.5			0.25 - 2.5		
0.25 - 1.5			0.25 - 1.5		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
250	400 ²⁾	630	250	400 ²⁾	630
4	4	4	4	4	4
B	C	D	B	C	D
300	-	300	300	-	300
20	-	10	20	-	10
24 - 12	24 - 12	24 - 12	24 - 12	24 - 12	24 - 12
B	C	D	B	C	D
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
10			10		
PA / I			PA / I		
V0			V0		
1.1 / 0,8 x 0,8 mm			1.1 / 0,8 x 0,8 mm		

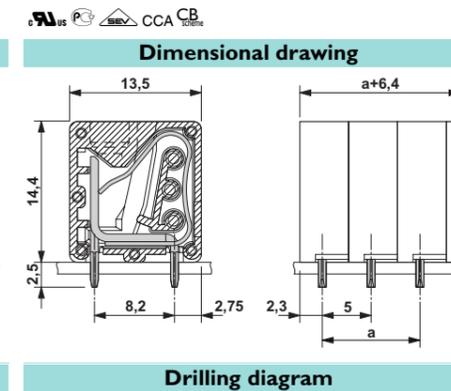
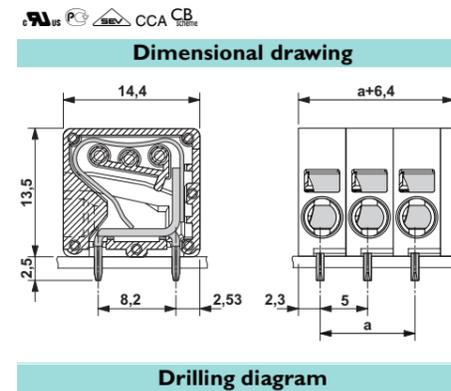
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00



Connection direction parallel to the PCB



Connection direction vertical to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-H-5,0	1990973	100
SPT 2,5/ 3-H-5,0	1990986	100
SPT 2,5/ 4-H-5,0	1990999	100
SPT 2,5/ 5-H-5,0	1991008	100
SPT 2,5/ 6-H-5,0	1991011	100
SPT 2,5/ 7-H-5,0	1991024	50
SPT 2,5/ 8-H-5,0	1991037	50
SPT 2,5/ 9-H-5,0	1991040	50
SPT 2,5/10-H-5,0	1991053	50
SPT 2,5/11-H-5,0	1991066	50
SPT 2,5/12-H-5,0	1991079	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-V-5,0	1991095	100
SPT 2,5/ 3-V-5,0	1991105	100
SPT 2,5/ 4-V-5,0	1991118	100
SPT 2,5/ 5-V-5,0	1991121	100
SPT 2,5/ 6-V-5,0	1991134	100
SPT 2,5/ 7-V-5,0	1991147	50
SPT 2,5/ 8-V-5,0	1991150	50
SPT 2,5/ 9-V-5,0	1991163	50
SPT 2,5/10-V-5,0	1991176	50
SPT 2,5/11-V-5,0	1991189	50
SPT 2,5/12-V-5,0	1991192	50

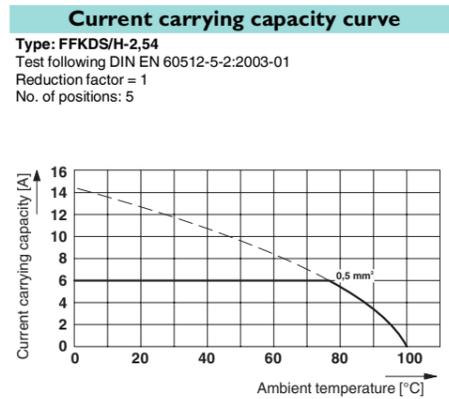
With actuation rocker with a connection cross section of up to 1 mm²

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 2) Only solid conductors



- PCB terminal blocks with front spring connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

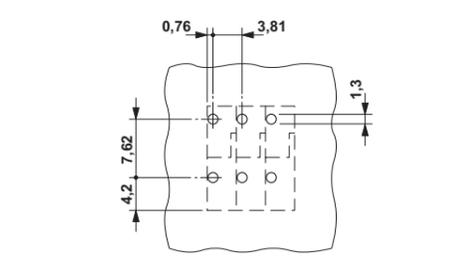
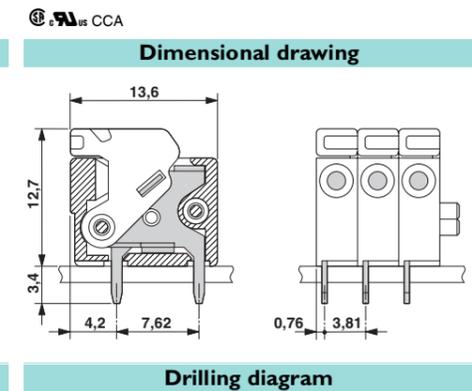
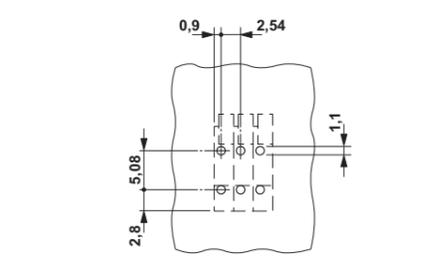
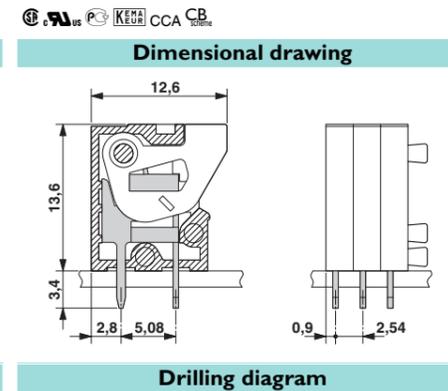
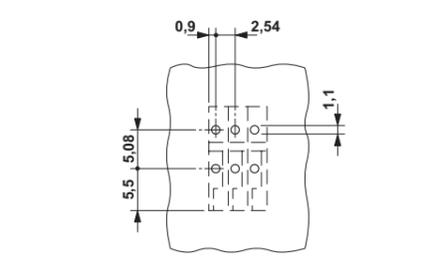
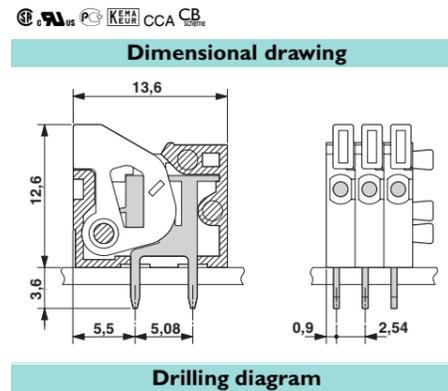
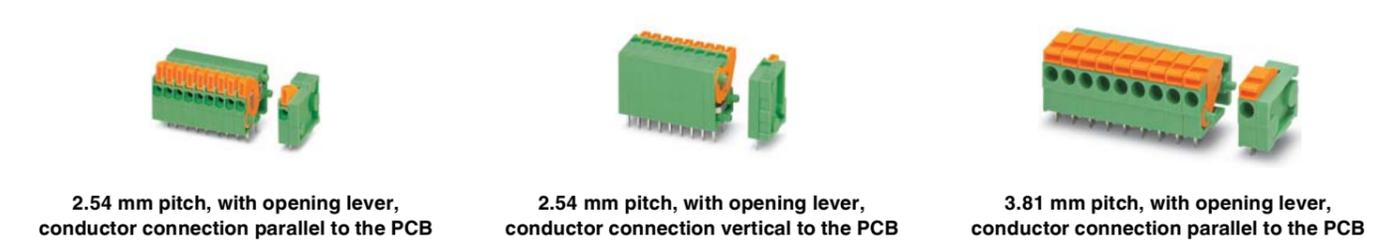
Accessories		
For all types	Type	Page
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for FFKDSA/...-2,54		
	Marker cards SK 2,54/2,8	796
Only for FFKDSA/...-3,81		
	Marker cards SK 3,81/2,8	797



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	FFKDS/H-2,54	FFKDS/V-2,54	FFKDS/H-3,81
Rated current / conductor cross section	6 ¹⁾ / 0,5	6 ¹⁾ / 0,5	12 ¹⁾ / 1
Rated insulation voltage for pollution degree 2	160	160	160
Pitch	2,54	2,54	3,81
Connection capacity			
Solid / stranded	0,14 - 0,5 / 0,14 - 0,5 / 26 - 20 ²⁾	0,14 - 0,5 / 0,14 - 0,5 / 26 - 20	0,14 - 1 / 0,14 - 1 / 26 - 18
Stranded with ferrules without plastic sleeve	-	-	0,25 - 0,34
Stranded with ferrules with plastic sleeve	-	-	0,25 - 0,34
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	63 160 320	63 160 320	160 160 320
Rated surge voltage	2,5 2,5 2,5	2,5 2,5 2,5	2,5 2,5 2,5
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	150 - -	150 - -	300 - 300
Nominal current	6 - -	6 - -	6 - 6
Connection capacity AWG	26 - 20 ²⁾ - -	26 - 20 ²⁾ - -	26 - 16 ²⁾ - 26 - 16 ²⁾
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	150 - -	150 - -	150 - -
Nominal current	6 - -	6 - -	10 - -
Connection capacity AWG	20 ²⁾ - -	20 ²⁾ - -	26 - 18 ²⁾ - -
General data			
Stripping length	11	11	10
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1,1 / 0,5 x 0,8 mm	1,1 / 0,5 x 0,8 mm	1,3 / 0,5 x 1 mm

No. of pos.
1
1
1
1
1
1
1



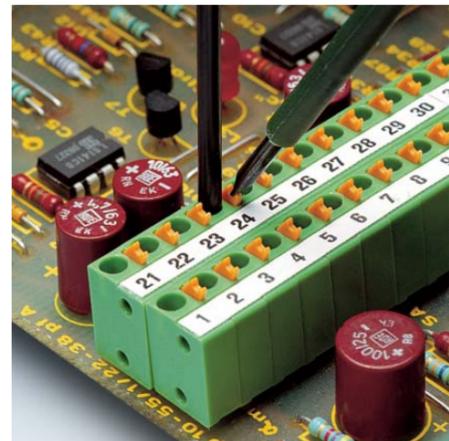
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

With actuation rocker with a connection cross section of up to 1.5 mm²



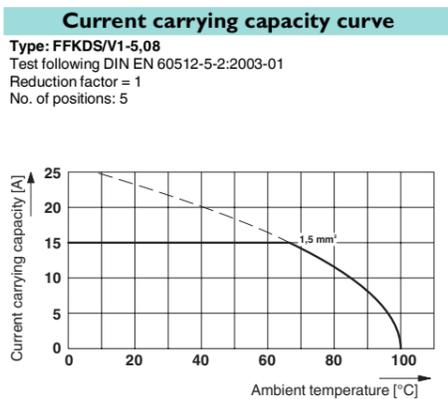
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDS/V1-5,08 and FFKDS/H1-7,62
- Opening lever for convenient operation using a screwdriver

FFKDS/V2-5,08
- The compact opening lever enables the direct arrangement of several PCB terminal block bases in a row

Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
2) Only solid conductors

Accessories		
For all types	Type	Page
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for FFKDSA/...-5,08		
	Marker cards SK 5,08/3,8	798
Only for FFKDSA/...-7,62		
	Marker cards SK 7,62/5	800



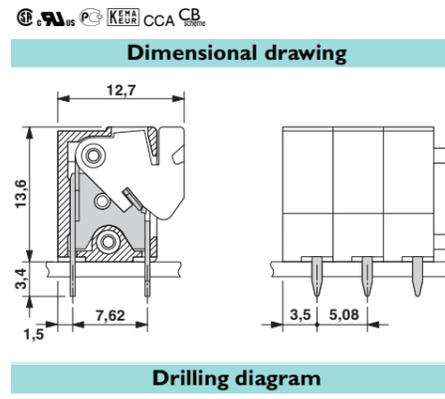
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	FFKDS/V1-5,08	FFKDS/V2-5,08	FFKDSA/H1-7,62
Rated current / conductor cross section	15 ¹⁾ / 1,5	15 ¹⁾ / 1,5	17,5 ¹⁾ / 1,5
Rated insulation voltage for pollution degree 2	320	320	630
Pitch	5,08	5,08	7,62
Connection capacity			
Solid / stranded	0,2 - 1,5 / 0,2 - 1,5 / 24 - 16	0,2 - 1,5 / 0,2 - 1,5 / 24 - 16	0,2 - 1,5 / 0,2 - 1,5 / 24 - 16
Stranded with ferrules without plastic sleeve	0,25 - 0,75	0,25 - 0,75	0,25 - 0,75
Stranded with ferrules with plastic sleeve	0,25 - 0,75	0,25 - 0,75	0,25 - 0,75
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	320 320 630	320 320 630	400 630 1000
Rated surge voltage	4 4 4	4 4 4	6 6 6
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	300 - 300	300 - 300	300 - 300
Nominal current	10 - 10	10 - 10	10 - 10
Connection capacity AWG	22 - 16 - 22 - 16	22 - 16 - 22 - 16	22 - 16 - 22 - 16
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	300 - 300	300 - 300	300 - 300
Nominal current	10 - 10	10 - 10	10 - 10
Connection capacity AWG	16 ²⁾ - 16 ²⁾	16 ²⁾ - 16 ²⁾	16 ²⁾ - 16 ²⁾
General data			
Stripping length	10	10	10
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1,3 / 0,5 x 1 mm	1,3 / 0,5 x 1 mm	1,3 / 0,5 x 1 mm

No. of pos.
1
1
1
1
1
1
1

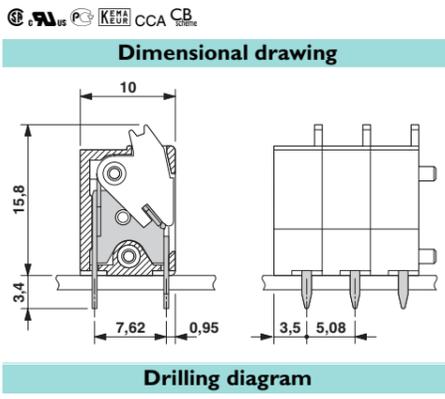


5.08 mm pitch, with opening lever, conductor connection vertical to the PCB | 5.08 mm pitch, with shortened opening lever, conductor connection vertical to the PCB | 7.62 mm pitch, with opening lever, conductor connection parallel to the PCB



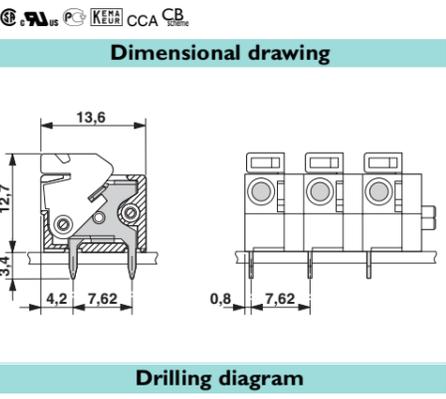
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FFKDS/V1-5,08	1790319	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/V1-7,62	1790490	250



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FFKDS/V2-5,08	1790348	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever		
FFKDSA1/V2-7,62	1790487	250



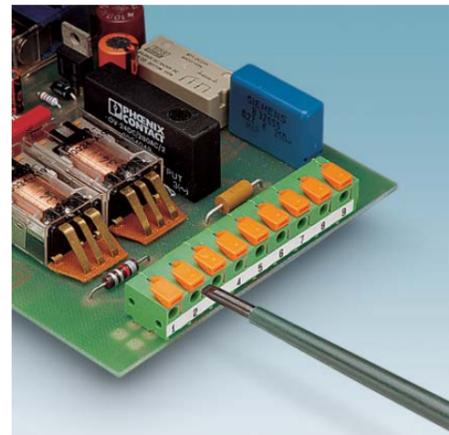
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/H1-7,62	1790351	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/H1-7,62	1790513	250

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

With actuation rocker with a connection cross section of up to 1.5 mm²



- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDSA/V1-7,62

- Opening lever for convenient operation using a screwdriver

FFKDSA/H2-7,62 and FFKDSA/V2-7,62

- The compact opening lever enables assembly in a housing cutout

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹⁾ Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

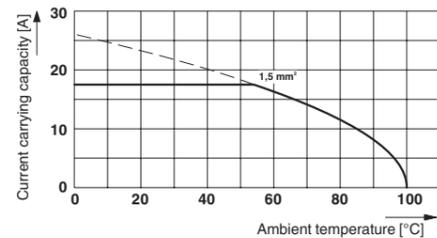
²⁾ Only solid conductors.

Accessories

For all types	Type	Page
	Marker cards SK 7,62/5	800
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Current carrying capacity curve

Type: FFKDSA/V1-7,62
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	FFKDSA/H2-7,62	FFKDSA/V1-7,62	FFKDSA/V2-7,62
Rated current / conductor cross section	17.5 ¹⁾ / 1.5	17.5 ¹⁾ / 1.5	17.5 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2	630	630	630
Pitch	7.62	7.62	7.62
Connection capacity			
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
Stranded with ferrules with plastic sleeve	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	400 630 1000	500 630 1000	500 630 1000
Rated surge voltage	6 6 6	6 6 6	6 6 6
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	300 - 300	300 - 300	300 - 300
Nominal current	10 - 10	10 - 10	10 - 10
Connection capacity AWG	22 - 16 - 22 - 16	22 - 16 - 22 - 16	22 - 16 - 22 - 16
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	300 - 300	300 - 300	300 - 300
Nominal current	10 - 10	10 - 10	10 - 10
Connection capacity AWG	16 ²⁾ - 16 ²⁾	16 ²⁾ - 16 ²⁾	16 ²⁾ - 16 ²⁾
General data			
Stripping length	10	10	10
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1.3 / 0,5 x 1 mm	1.3 / 0,5 x 1 mm	1.3 / 0,5 x 1 mm

No. of pos.
1
1
1
1
1
1
1

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A



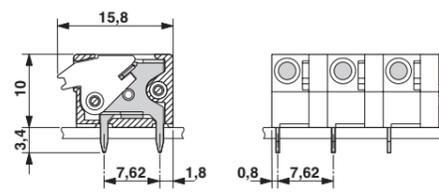
7.62 mm pitch, with shortened opening lever, conductor connection parallel to the PCB

7.62 mm pitch, with opening lever, conductor connection vertical to the PCB

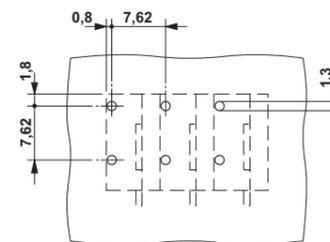
7.62 mm pitch, with shortened opening lever, conductor connection vertical to the PCB



Dimensional drawing



Drilling diagram

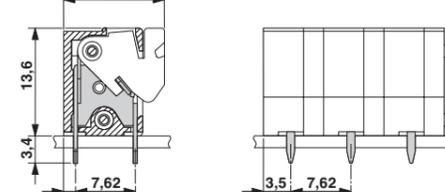


Ordering data

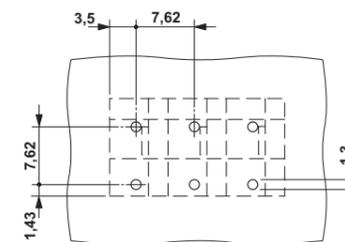
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/H2-7,62	1790458	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever		
FFKDSA1/H2-7,62	1790500	250



Dimensional drawing



Drilling diagram

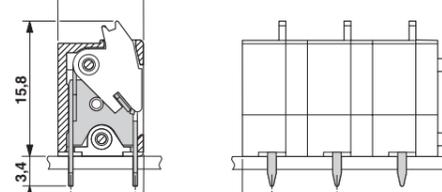


Ordering data

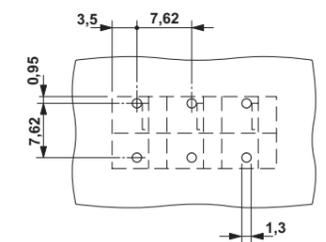
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/V1-7,62	1790364	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/V1-7,62	1790490	250



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/V2-7,62	1790377	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever		
FFKDSA1/V2-7,62	1790487	250

Connection cross section of up to 2.5 mm²



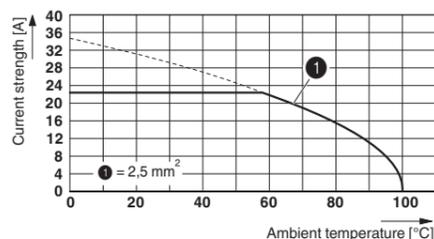
- Spring-cage PCB terminal block for electronic housing ME/ME MAX
- Push-in technology simplifies connection
- Design version "left" and "right"
- Pitch 5 mm
- Number of positions between 2 and 4

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	22 / 2.5
Rated insulation voltage for pollution degree 2 [V]	250
Pitch [mm]	5
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 250 250
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 5
Connection capacity AWG	24 - 14 - 24 - 14
Approval data (CSA) Use Group	B C D B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.4 / 0.8 x 1.0 mm

FKDSO 2,5/ ...-L KMGY	FKDSO 2,5/ ...-R KMGY
22 / 2.5	22 / 2.5
250	250
5	5
0.2 - 2.5 / 0.2 - 2.5 / 24 - 14	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14
0.25 - 2.5	0.25 - 2.5
0.25 - 2.5	0.25 - 2.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
250 250 250	250 250 250
4 4 4	4 4 4
B C D B C D	B C D B C D
300 - 300	300 - 300
10 - 5	10 - 5
24 - 14 - 24 - 14	24 - 14 - 24 - 14
B C D B C D	B C D B C D
- - -	- - -
- - -	- - -
- - -	- - -
10	10
PA / I	PA / I
V0	V0
1.4 / 0.8 x 1.0 mm	1.4 / 0.8 x 1.0 mm

Current carrying capacity curve

Type: FKDSO 2,5/...KMGY
 Tested in accordance with DIN EN 60512-5-2:2003-01
 Reduction factor = 1



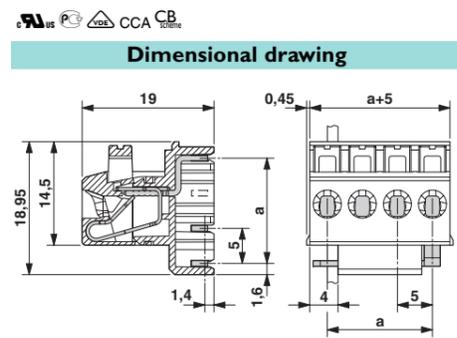
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00



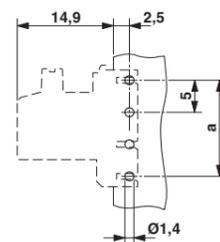
With "left" solder pins leading off at a right angle



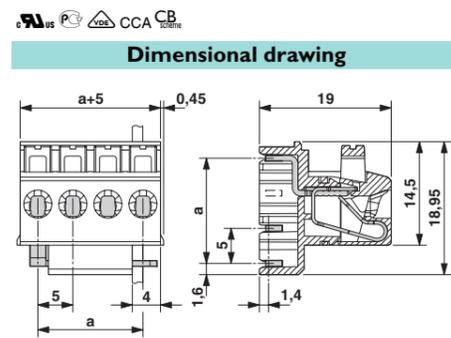
With "right" solder pins leading off at a right angle



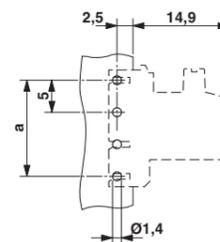
Drilling diagram



Ordering data		
Type	Order No.	Pcs. / Pkt.
Spring-cage PCB terminal block, left, pitch 5 mm, color: light gray		
FKDSO 2,5/ 2-L KMGY	2200315	50
FKDSO 2,5/ 3-L KMGY	2200318	50
FKDSO 2,5/ 4-L KMGY	2200319	50



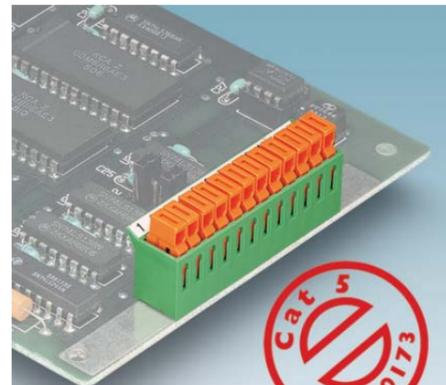
Drilling diagram



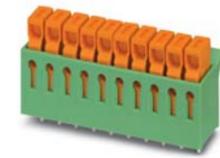
Ordering data		
Type	Order No.	Pcs. / Pkt.
Spring-cage PCB terminal block, right, pitch 5 mm, color: light gray		
FKDSO 2,5/ 2-R KMGY	2200316	50
FKDSO 2,5/ 3-R KMGY	2200317	50
FKDSO 2,5/ 4-R KMGY	2200320	50

Connection cross section of up to 0.34 mm²

Notes:
1) Current carrying capacity curve upon request.



- PCB terminal block with fast insulation displacement connection technology with a 3.81 mm pitch
- Connection of insulated conductor without tools in a short assembly time
- With a cut-off frequency of more than 100 MHz, the IDC range fulfills the quality requirement of CAT 5 in accordance with EN 50173 and ISO/IEC 11801
- The IDC range is suitable for cables with PVC and PE insulation
- You can find user notes and recommendations for IDC technology on page 22

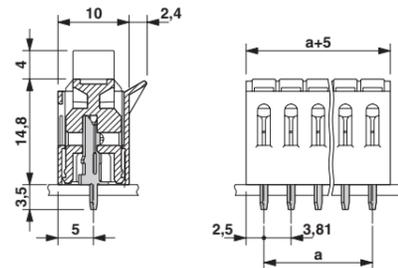


With displacement connection

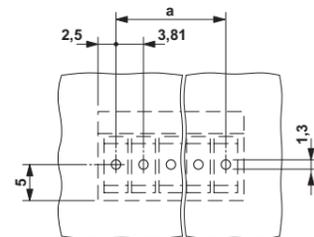


Accessories		
For all types	Type	Page
	Marker cards SK 3,81/2,8	797

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	5 ¹⁾ / 0.34
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.13 - 0.34 / 0.22 - 0.34 / 26 - 22
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	5 - 5
Connection capacity AWG	28 - 22 - 28 - 22
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	5 - 5
Connection capacity AWG	28 - 22 - 28 - 22
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 1 x 0.4 mm

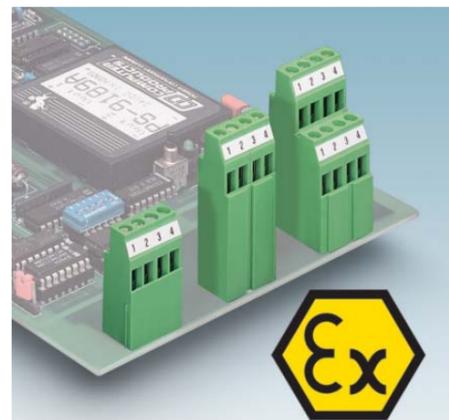
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
2	3.81	IDC 0,3/ 2-3,81	1706170	50
3	7.62	IDC 0,3/ 3-3,81	1706183	50
4	11.43	IDC 0,3/ 4-3,81	1706196	50
5	15.24	IDC 0,3/ 5-3,81	1706206	50
6	19.05	IDC 0,3/ 6-3,81	1706219	50
7	22.86	IDC 0,3/ 7-3,81	1706222	50
8	26.67	IDC 0,3/ 8-3,81	1706235	50
9	30.48	IDC 0,3/ 9-3,81	1706248	50
10	34.29	IDC 0,3/10-3,81	1706251	50
11	38.10	IDC 0,3/11-3,81	1706264	50
12	41.91	IDC 0,3/12-3,81	1706277	50

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw connection for the Ex area for wave soldering process

Multi-level terminal blocks with a connection cross section of up to 1.5 mm²



- High housing design suitable for potting
- MKKDSH 3/...**
 - Single-row type, back level of the double-level PCB terminal block
- MK3DSH 3/...**
 - Single-row type, back level of the three-level PCB terminal block
- MK3DSMH 3/...**
 - Double-row type, middle and back level of the three-level PCB terminal block
 - Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at www.phoenixcontact.net/products and on the page 40

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Single cover for individual terminal positions EA-MKDS Order No. 1711408	

Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKKDSH 3/ ...-EX	MK3DSH 3/ ...-5,08-EX	MK3DSMH 3/ ...-5,08-EX
0344 II 2G / Ex e II	0344 II 2G / Ex e II	0344 II 2G / Ex e II
KEMA 01ATEX2130 U	KEMA 01ATEX2130 U	KEMA 01ATEX2130 U
IECEx KEM 07.0019 U	IECEx KEM 07.0019 U	IECEx KEM 07.0019 U
176	176	176
20	20	19
0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5
24 - 12 / 24 - 14	24 - 12 / 24 - 14	24 - 12 / 24 - 14
7	7	7
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA / I	PA / I	PA / I
V0	V0	V0
1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
2	5.08
3	10.16

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw connection for the Ex area for wave soldering process



31.5 mm high PCB terminal block



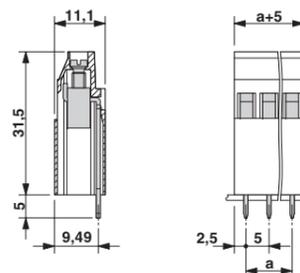
44.8 mm high PCB terminal block



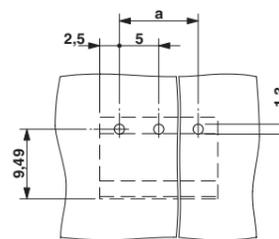
44.8 mm high double-level PCB terminal block with offset levels

Ex:

Dimensional drawing



Drilling diagram

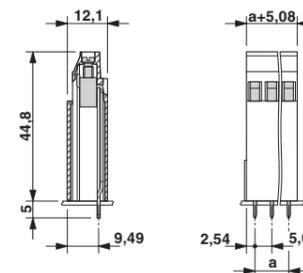


Ordering data

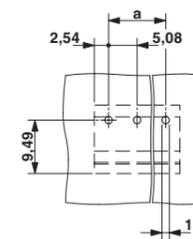
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDSH 3/ 2-EX	1869790	50
MKKDSH 3/ 3-EX	1869800	50

Ex:

Dimensional drawing



Drilling diagram

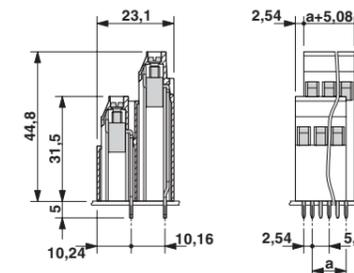


Ordering data

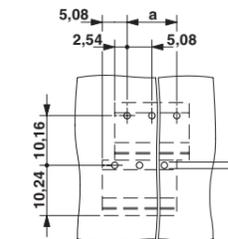
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSH 3/ 2-5,08-EX	1869774	50
MK3DSH 3/ 3-5,08-EX	1869787	50

Ex:

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSMH 3/ 2-5,08-EX	1870255	50
MK3DSMH 3/ 3-5,08-EX	1870268	50

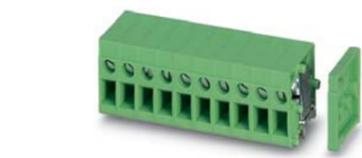
Horizontal or vertical conductor connection of up to 2.5 mm²



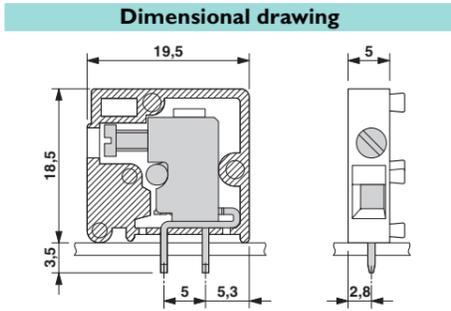
Notes:
 1) 275 V with an inserted RZ 2,5-FRONT 2,5...-EX pitch spacer.
 440 V with two inserted RZ 2,5-FRONT 2,5...-EX pitch spacers.

- Conductor connection in the front
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Pin spacing of 5 mm and 10 mm
- Delivery form: position discs in blocks of 10, cover not included
- Voltage can be increased using pitch spacers
- Other user notes and installation instructions for PCB terminal blocks in the Ex area can be found at www.phoenixcontact.net/products and on the page 40

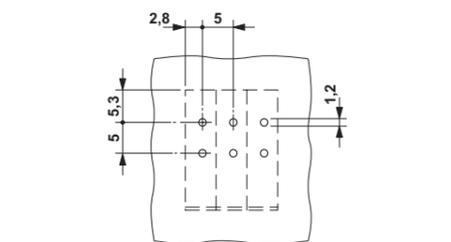
Accessories		
For all types	Type	Page
	Screwdriver SZS 0,3 x 3,0 Order No. 1207404	
For FRONT 2,5-H/SA...EX		
	Cover D-FRONT 2,5 H O.Z. Order No. 1700024	
	Pitch spacer, width: 2.5 mm RZ 2,5-FRONT 2,5 H-EX Order No. 1701269	
For FRONT 2,5-V/SA...EX		
	Cover D-FRONT 2,5 V O.Z. Order No. 1700011	
	Pitch spacer, width: 2.5 mm RZ 2,5-FRONT 2,5 V-EX Order No. 1700794	



Horizontal connection direction, 5 mm pin spacing



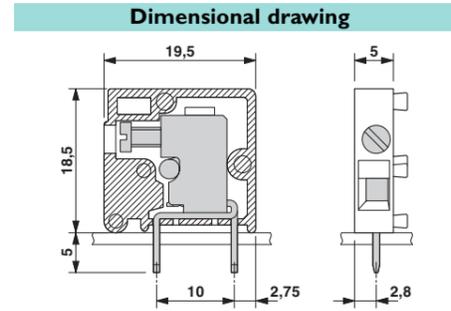
Drilling diagram



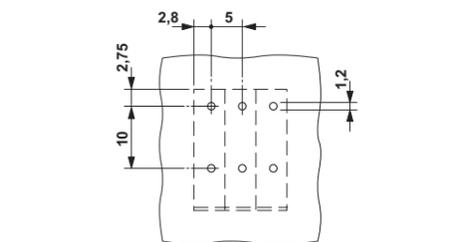
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green FRONT 2,5-H/SA 5-EX	1701159	50	



Horizontal connection direction, 10 mm pin spacing



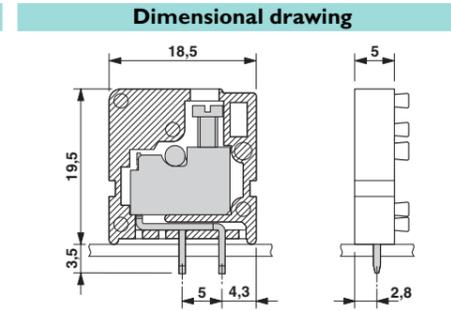
Drilling diagram



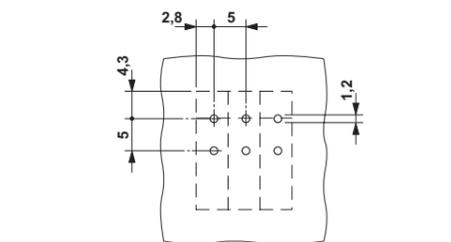
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green FRONT 2,5-H/SA10-EX	1700325	50	



Vertical connection direction, 5 mm pin spacing



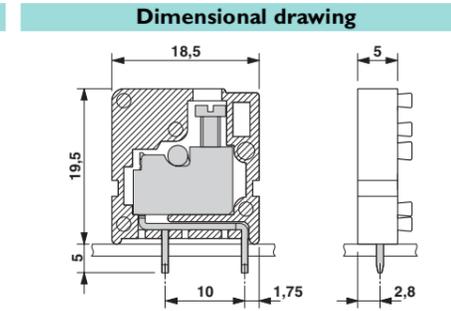
Drilling diagram



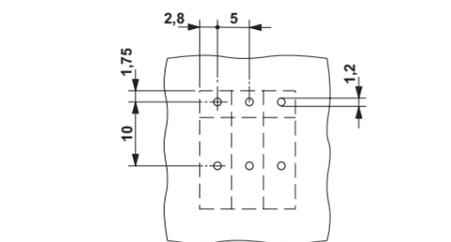
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green FRONT 2,5-V/SA 5-EX	1701162	50	



Vertical connection direction, 10 mm pin spacing



Drilling diagram



Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green FRONT 2,5-V/SA10-EX	1700309	50	

Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	0344 Ex II 2G / Ex e II
IECEx certificate	KEMA 00ATEX2053 U
Rated voltage	176 ¹⁾ [V]
Rated current	20 [A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²] 0.2 - 2.5 / 0.2 - 2.5
Solid / stranded	AWG 24 - 14 / 24 - 14
General data	
Stripping length	[mm] 9
Screw thread	M2,5
Tightening torque	[Nm] 0.4 - 0.5
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0,8 x 0,8 mm

Ordering data	
Type	Order No.
5.0 mm pitch, color: green FRONT 2,5-H/SA 5-EX	1701159

Angled conductor connection of up to 2.5 mm²

Notes:
 1) 275 V with an inserted RZ-ZFKDS 2,5 pitch spacer, order no. 1931039.



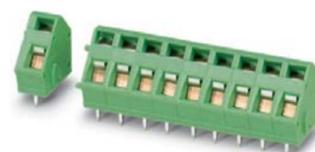
- Single terminal block with spring-cage connection
- Compact housing dimensions
- Double solder pin for high stability on the PCB
- A plate-type design enables blocking for larger number of positions
- Desk shape with a clear delimitation of the conductor entry and the actuation opening (screwdriver shaft)
- Delivery form: position discs in blocks of 10, end terminal block not included
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at www.phoenixcontact.net/products and on the page 40

Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
Only for ZFKDS 1,5C-5,0-EX		
	Marker cards SK 5/3,8	798
Only for ZFKDS 2,5-5,08-EX		
	Pitch spacer, width: 2.54 mm RZ-ZFKDS 2,5 Order No. 1931039	
	Marker cards SK 5,08/3,8	798

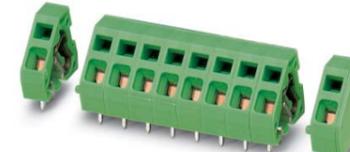
Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEX certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

ZFKDS 1,5C-5,0-EX	ZFKDS 2,5-5,08-EX
0344 Ex II 2G / Ex e II	0344 Ex II 2G / Ex e II
PTB 06ATEX1073 U	PTB 06ATEX1073 U
IECEX PTB 06.0096.U	IECEX PTB 06.0096.U
176	137 ¹⁾
16	22
0.2 - 2.5 / 0.2 - 1.5	0.2 - 4 / 0.2 - 2.5
24 - 14 / 24 - 16	24 - 14 / 24 - 16
7	7
-	-
-	-
PA / I	PA / I
V0	V0
1.1 / 0,7 x 0,7	1.3 / 0,8 x 0,8

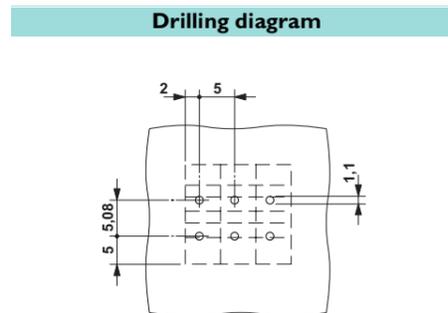
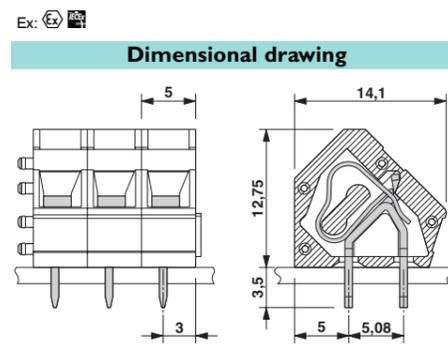
No. of pos.	1
	1
	1
	1
	1



1.5 mm² connection cross section, compact design

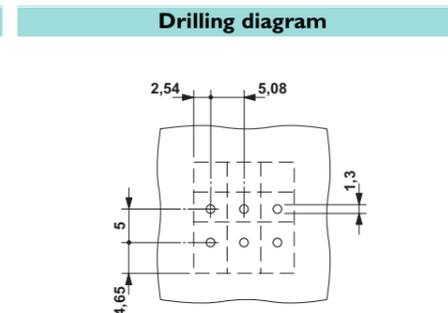
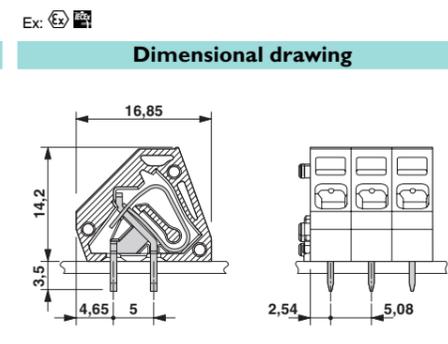


2.5 mm² connection cross section



Ordering data

Type	Order No.	Pcs. / Pkt.
5,0 mm pitch, color: green		
ZFKDS 1,5C-5,0-EX	1732111	50
End terminal, 6.4 mm wide, necessary at the end of a row of terminal blocks		
ZFKDSA 1,5C-6,0-EX	1732124	50



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFKDS 2,5-5,08-EX	1732137	50
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
ZFKDS 2,5-5,08 L-EX	1732140	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)		
ZFKDSA 2,5-6,08 R-EX	1732153	50

Horizontal or vertical conductor connection of up to 2.5 mm²



Notes:
 The following ferrules can be used for these PCB terminal blocks:
 3201275 Al 0,5-10WH
 3201288 Al 0,75-10GY
 3200182 Al 1-10RD
 3200195 Al 1,5-10BK
 3202533 Al 2,5-10BU

1) 275 V with an inserted RZ-SPT 2,5-2,5 pitch spacer.
 440 V with an inserted RZ-SPT 2,5-5,0 pitch spacer.

- Front Push-in spring-cage connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid and stranded conductors with ferrules
- The terminal point must be opened using a standard screwdriver for the connection of a stranded conductor without ferrule
- Voltage can be increased using pitch spacers
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at www.phoenixcontact.net/products and on the page 40

Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 5/3,8	798
	Pitch spacer, width: 2.5 mm RZ-SPT 2,5-2,5 Order No. 1772595	
	Pitch spacer, width: 5 mm RZ-SPT 2,5-5,0 Order No. 1772605	
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

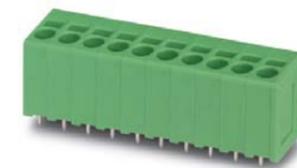
Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEX certificate	
Rated voltage	[V] 176 ¹⁾
Rated current	[A] / [2.5 mm ²] 23
Connection capacity	
Solid / stranded	[mm ²] 0.2 - 4 / 0.2 - 2.5
Solid / stranded	AWG 24 - 14 / 24 - 12
General data	
Stripping length	[mm] 10
Screw thread	-
Tightening torque	[Nm] -
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.1 / 0,8 x 0,8

SPT 2,5/ ...-H-5,0-EX	SPT 2,5/ ...-V-5,0-EX
0344 II 2G / Ex e II	0344 II 2G / Ex e II
KEMA 07ATEX0193 U	KEMA 07ATEX0193 U
IECEX KEM 07.0057 U	IECEX KEM 07.0057 U
176 ¹⁾	176 ¹⁾
23	23
0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5
24 - 14 / 24 - 12	24 - 14 / 24 - 12
10	10
-	-
-	-
PA / I	PA / I
V0	V0
1.1 / 0,8 x 0,8	1.1 / 0,8 x 0,8

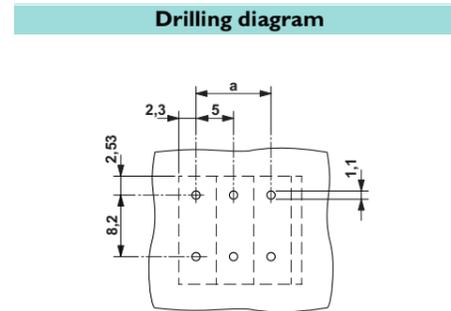
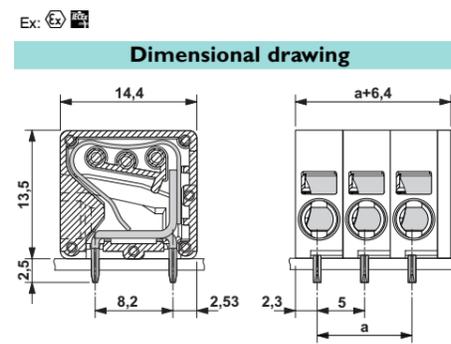
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00



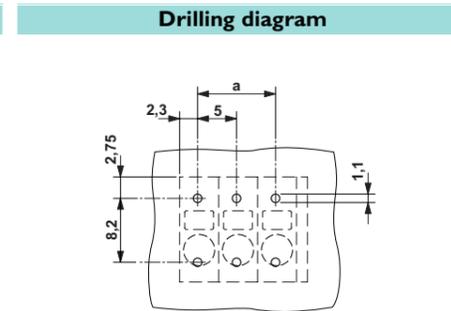
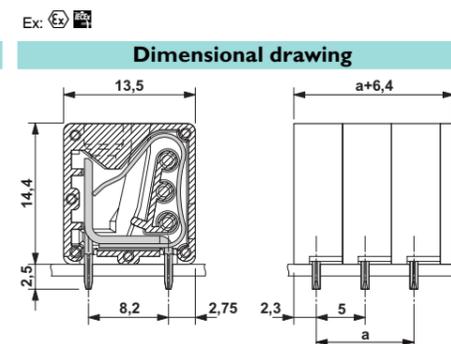
Connection direction parallel to the PCB



Connection direction vertical to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-H-5,0-EX	1732386	50
SPT 2,5/ 3-H-5,0-EX	1732399	50
SPT 2,5/ 4-H-5,0-EX	1732409	50
SPT 2,5/ 5-H-5,0-EX	1732412	50
SPT 2,5/ 6-H-5,0-EX	1732425	50
SPT 2,5/ 7-H-5,0-EX	1732438	50
SPT 2,5/ 8-H-5,0-EX	1732441	50
SPT 2,5/ 9-H-5,0-EX	1732454	50
SPT 2,5/10-H-5,0-EX	1732467	50
SPT 2,5/11-H-5,0-EX	1732470	50
SPT 2,5/12-H-5,0-EX	1732483	50



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-V-5,0-EX	1732496	50
SPT 2,5/ 3-V-5,0-EX	1732506	50
SPT 2,5/ 4-V-5,0-EX	1732519	50
SPT 2,5/ 5-V-5,0-EX	1732522	50
SPT 2,5/ 6-V-5,0-EX	1732535	50
SPT 2,5/ 7-V-5,0-EX	1732548	50
SPT 2,5/ 8-V-5,0-EX	1732551	50
SPT 2,5/ 9-V-5,0-EX	1732564	50
SPT 2,5/10-V-5,0-EX	1732577	50
SPT 2,5/11-V-5,0-EX	1732580	50
SPT 2,5/12-V-5,0-EX	1732593	50

PCB isolating connectors



- Easy circuit disconnection using removable isolating connectors
- A special snap-lock fitting ensures a tight fit of the slide even when the disconnect point is open.
- Can be used as an individual element or in combination with PCB terminal blocks with a 5.08 mm pitch
- Operation of the isolating connector with the help of a TZ connector extraction tool offered as an accessory or a screwdriver

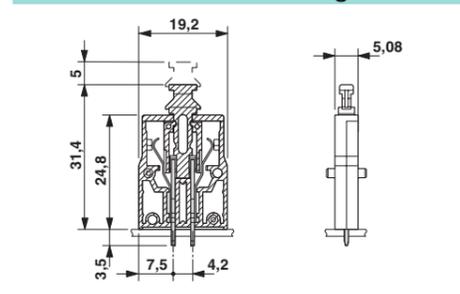
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 / 0
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5.08
Multi-conductor connection capacity (two conductors with the same cross section)	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 400
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0,8 x 0,9 mm

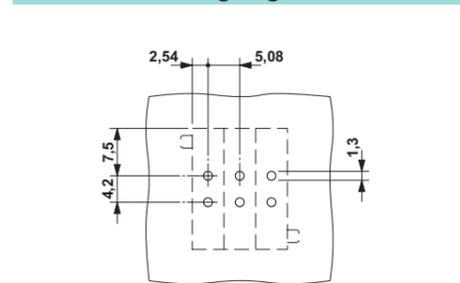
Accessories

For all types	Type	Page
	Test plug MPS	831
	Reducing plug RPS Order No. 0201647	831
	TZ connector extraction tool as pullout aid for the disconnect slide TZ Order No. 0306704	

Dimensional drawing



Drilling diagram



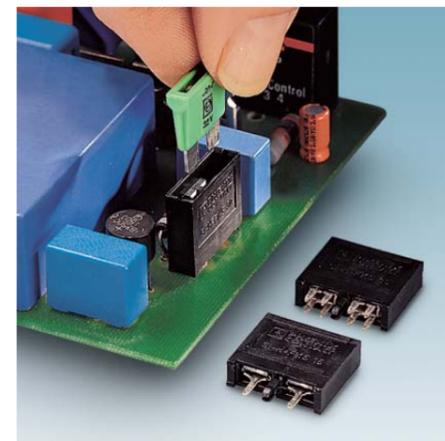
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green PTS-5,08	1876521	50



PCB disconnect plugs

Flat-type fuse holders



- Fuse holders for flat-type fuses with a maximum nominal voltage of 32 V
- With SNAP IN foot for safe pre-assembly on the PCB

- SI-H-FKS 15**
- For fuses with a nominal current of 2 to 15 A
- SI-H-FKS 30**
- For fuses with a nominal current of 2 to 30 A

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	- / 0
Rated insulation voltage for pollution degree 2 [V]	-
Pitch [mm]	0
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	
Rated surge voltage [kV]	
General data	
Type of insulation material / insulation material group	- / -
Inflammability class according to UL 94	-

Notes:

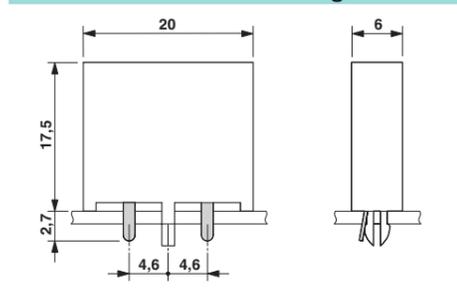
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

For dimensional drawing and drilling diagram for SI-H-FKS30, visit www.phoenixcontact.net/products.

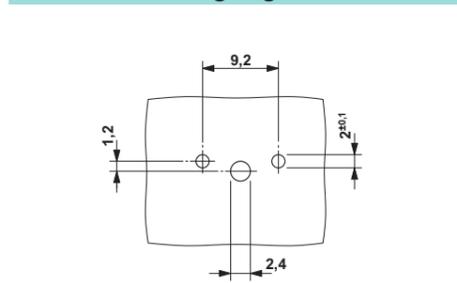


PCB fuse carrier for 5 mm wide automotive flat-type fuses

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Printed circuit fuse carrier, for 5 mm wide automotive flat-type fuses up to max. 15 A SI-H-FKS 15	1728996	50
Printed circuit fuse carrier, for 5 mm wide automotive flat-type fuses up to max. 30 A SI-H-FKS 30	1727528	50
Flat-type fuse inserts, (max. 32 V) acc. to ISO/DIS 8820/2 DIN 72 581-3		
SI FORM C 2 A	0913689	50
SI FORM C 4 A DIN 72581	0913731	50
SI FORM C 5 A DIN 72581	0913692	50
SI FORM C 7,5 A DIN 72581	0913702	50
SI FORM C 10 A DIN 72581	0913715	50
SI FORM C 15 A DIN 72581	0913676	50
SI FORM C 20 A DIN 72581	0913744	50
SI FORM C 25 A DIN 72581	0913757	50
SI FORM C 30 A DIN 72581	0913760	50

Plug-in connector systems with 2.5 and 2.54 mm pitch

The plug-in connectors in the COMBICON Micro series offer maximum packing density on the PCB or on the front of the device.

Convenient conductor connection is ensured by the push-in spring connection up to 0.5 mm² with orange spring lever. The plug-in connectors are available with 2.5/2.54 mm micro pitch.

Single and double-level headers for the SMT process and wave soldering are available on the PCB side.

High-temperature-resistant headers with 2.54 mm pitch are supplied in tape-on-reel packing for automated SMT processes.

In addition, the FMC 0,5/MC 0,5 plug-in connector system offers the advantage of a gold-plated contact system.

MICRO-COMBICON plug-in connectors Pitch 2.5 mm up to 4 A	168
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Plug with push-in spring connection	168
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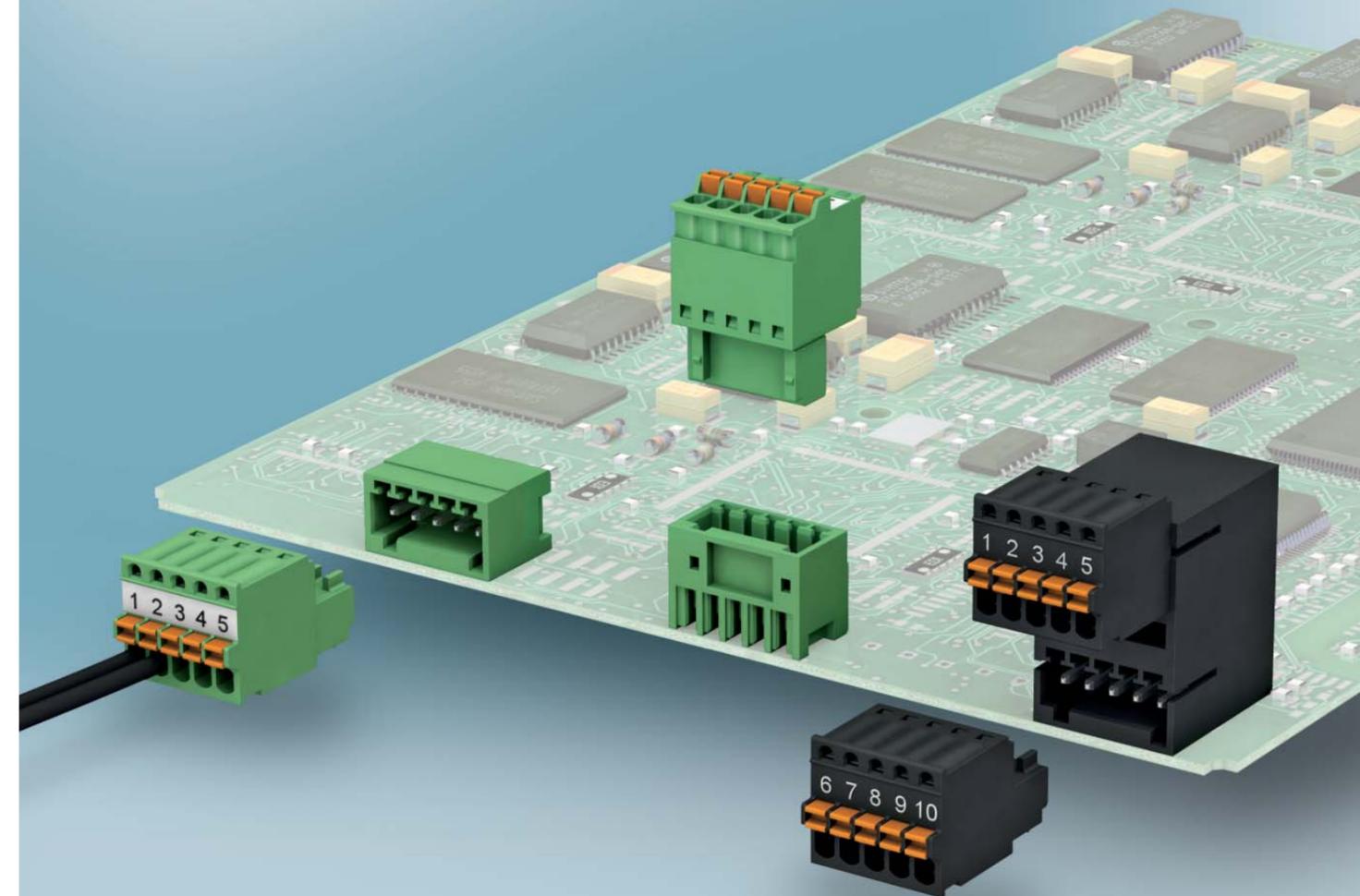
Headers for reflow processes	170
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Headers for wave soldering processes	172
--------------------------------------	------------

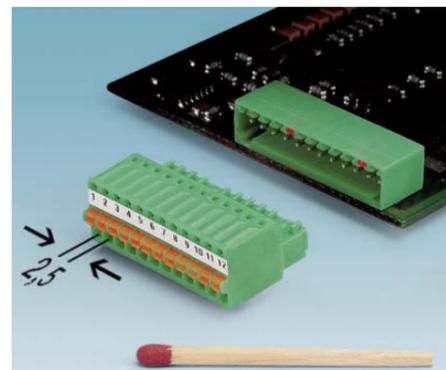
MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A	174
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Plug with push-in spring connection	174
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Headers for reflow/SMD processes	176
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Plug with push-in spring connection



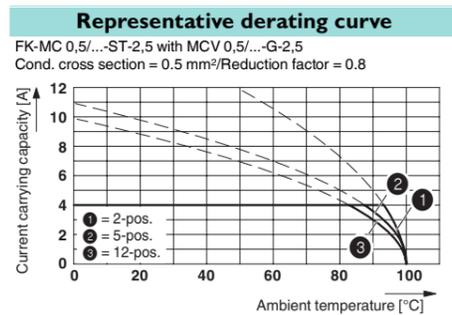
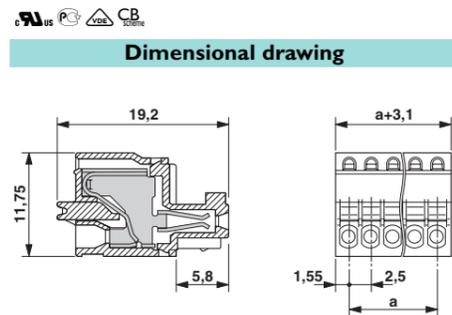
- Possible combinations with MC(V) 0,5 and MCD(V) 0,5 headers with 2.5 mm pitch
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Test connection to accommodate 1 mm Ø test connector
- Individual position keying by removing the keying tab and connecting the keying profile to the header

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select
 Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.
 Derating curves according to DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Number of positions = see diagram
 1) Please observe the derating curves. Derating curves of further combination options on request.



Plug with push-in spring connection

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Marker cards SK 2,54/2,8	796
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS-MT 1-S Order No. 1944372	831



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	4) / 0,5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	2.5
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.5
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	100 160 320
Rated surge voltage [kV]	1.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	125 - -
Nominal current [A]	4 - -
Connection capacity AWG	28 - 20 - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
9	20.00
10	22.50
11	25.00
12	27.50

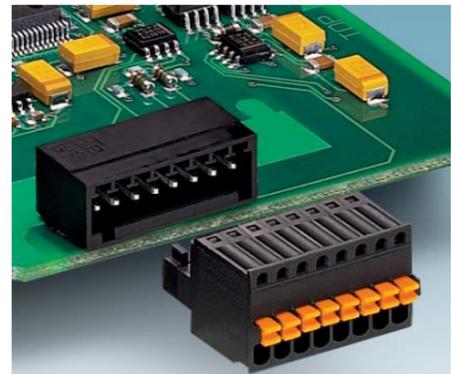
Ordering data

Type	Order No.	Pcs. / Pkt.
Plugs, 2.5 mm pitch, color: Green		
FK-MC 0,5/ 2-ST-2,5	1881325	50
FK-MC 0,5/ 3-ST-2,5	1881338	50
FK-MC 0,5/ 4-ST-2,5	1881341	50
FK-MC 0,5/ 5-ST-2,5	1881354	50
FK-MC 0,5/ 6-ST-2,5	1881367	50
FK-MC 0,5/ 7-ST-2,5	1881370	50
FK-MC 0,5/ 8-ST-2,5	1881383	50
FK-MC 0,5/ 9-ST-2,5	1881396	50
FK-MC 0,5/10-ST-2,5	1881406	50
FK-MC 0,5/11-ST-2,5	1881419	50
FK-MC 0,5/12-ST-2,5	1881422	50

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A

Single-level header for reflow processes



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 The CP-MC 0,5 keying profile may only be used after reflow soldering.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
COMBICON select
 Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

- Application in SMT reflow processes
- Low-profile THR headers with a compact MICRO pitch of 2.5 mm
- Delivery form: Box packaging; bulk for small series
- Delivery form: Taped packaging in accordance with IEC 60286-3 for automatic assembly
- Coil diameter 330 mm, tape width 44 mm
- Alternative pin lengths 1.4 mm or 2.6 mm on request
- Can be combined with FK-MC 0 plug
- You can find user notes and recommendations for THR procedure on page 27

Accessories

For all types	Type	Page
	Keying profile CP-MC 0,5 Order No. 1881435	38
	Marker cards SK 2,54/2,8	796



box-packaged headers, plug-in direction parallel to the PCB



box-packaged headers, plug-in direction vertical to the PCB



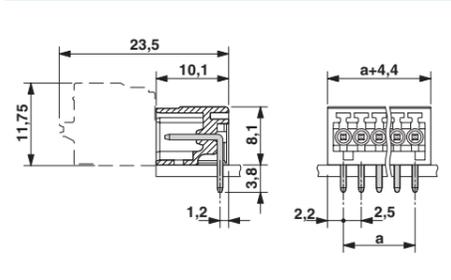
Taped headers, plug-in direction parallel to the PCB



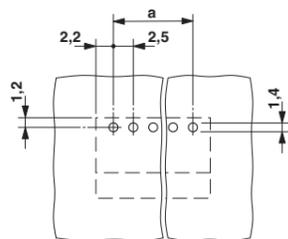
Taped headers, Plug-in direction vertical to the PCB



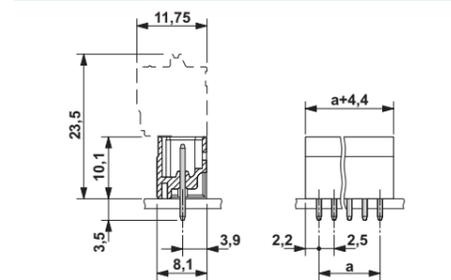
Dimensional drawing



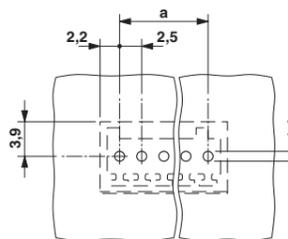
Drilling diagram



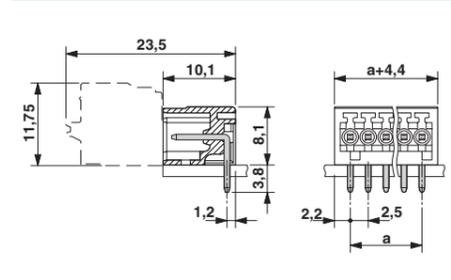
Dimensional drawing



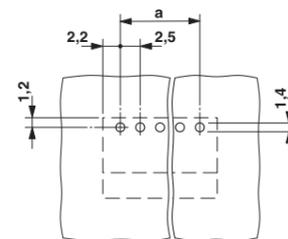
Drilling diagram



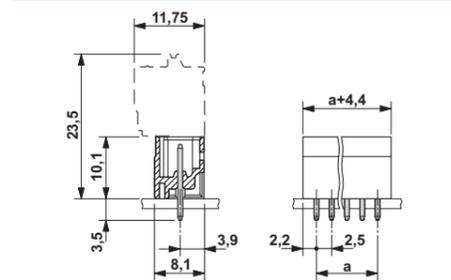
Dimensional drawing



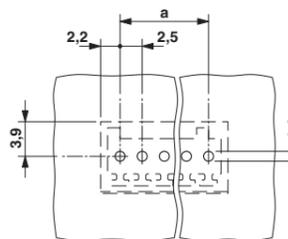
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MC 0,5/ 2-G-2,5 THT	1963421	50
MC 0,5/ 3-G-2,5 THT	1963434	50
MC 0,5/ 4-G-2,5 THT	1963447	50
MC 0,5/ 5-G-2,5 THT	1963450	50
MC 0,5/ 6-G-2,5 THT	1963463	50
MC 0,5/ 7-G-2,5 THT	1963476	50
MC 0,5/ 8-G-2,5 THT	1939303	50
MC 0,5/ 9-G-2,5 THT	1963492	50
MC 0,5/10-G-2,5 THT	1963502	50
MC 0,5/11-G-2,5 THT	1963515	50
MC 0,5/12-G-2,5 THT	1939316	50

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MCV 0,5/ 2-G-2,5 THT	1963531	50
MCV 0,5/ 3-G-2,5 THT	1963544	50
MCV 0,5/ 4-G-2,5 THT	1963557	50
MCV 0,5/ 5-G-2,5 THT	1963560	50
MCV 0,5/ 6-G-2,5 THT	1963573	50
MCV 0,5/ 7-G-2,5 THT	1963586	50
MCV 0,5/ 8-G-2,5 THT	1963599	50
MCV 0,5/ 9-G-2,5 THT	1963609	50
MCV 0,5/10-G-2,5 THT	1963612	50
MCV 0,5/11-G-2,5 THT	1963625	50
MCV 0,5/12-G-2,5 THT	1963638	50

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MC 0,5/ 2-G-2,5 THT R44	1963641	330
MC 0,5/ 3-G-2,5 THT R44	1963654	330
MC 0,5/ 4-G-2,5 THT R44	1963667	330
MC 0,5/ 5-G-2,5 THT R44	1963670	330
MC 0,5/ 6-G-2,5 THT R44	1963683	330
MC 0,5/ 7-G-2,5 THT R44	1963696	330
MC 0,5/ 8-G-2,5 THT R44	1963706	330
MC 0,5/ 9-G-2,5 THT R44	1963719	330
MC 0,5/10-G-2,5 THT R44	1963722	330
MC 0,5/11-G-2,5 THT R44	1963735	330
MC 0,5/12-G-2,5 THT R44	1963748	330

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MCV 0,5/ 2-G-2,5 THT R44	1963751	220
MCV 0,5/ 3-G-2,5 THT R44	1963764	220
MCV 0,5/ 4-G-2,5 THT R44	1963777	220
MCV 0,5/ 5-G-2,5 THT R44	1963780	220
MCV 0,5/ 6-G-2,5 THT R44	1963793	220
MCV 0,5/ 7-G-2,5 THT R44	1963803	220
MCV 0,5/ 8-G-2,5 THT R44	1963816	220
MCV 0,5/ 9-G-2,5 THT R44	1963829	220
MCV 0,5/10-G-2,5 THT R44	1963845	220
MCV 0,5/11-G-2,5 THT R44	1963858	220
MCV 0,5/12-G-2,5 THT R44	1963861	220

Technical data

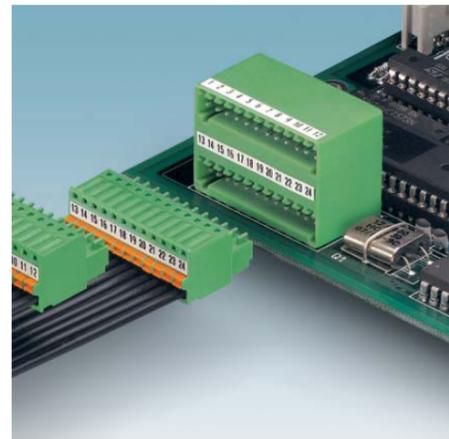
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 4
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 32 160 160
Rated surge voltage	[kV] 1.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 125 - -
Nominal current	[A] 4 - -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
9	20.00
10	22.50
11	25.00
12	27.50

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A

Single and double-level headers for wave soldering processes



- Can be combined with FK-MC 0 plug
- MC(V) 0,5/...G**
- Low-profile headers with a compact MICRO pitch of 2.5 mm
- Plug-in direction parallel and vertical to the PCB
- Individual position encoding by inserting the keying profiles
- MCD(V) 0,5/...-G1**
- Low-profile double-level headers with high contact density
- Plug-in direction parallel and vertical to the PCB
- Without a level offset, for flush installation in the front of the devices

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

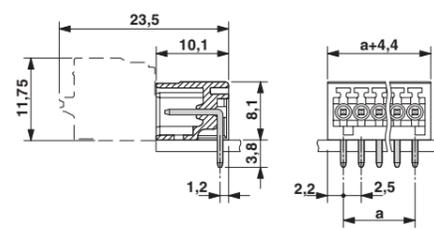
Accessories

For all types	Type	Page
	Keying profile CP-MC 0,5 Order No. 1881435	38
	Marker cards SK 2,54/2,8	796

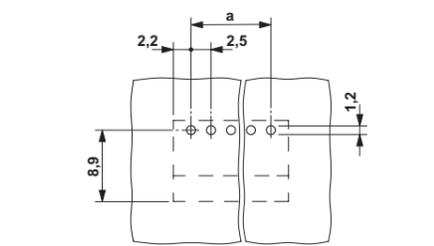


Single-level header, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
MC 0,5/ 2-G-2,5	1881448	50
MC 0,5/ 3-G-2,5	1881451	50
MC 0,5/ 4-G-2,5	1881464	50
MC 0,5/ 5-G-2,5	1881477	50
MC 0,5/ 6-G-2,5	1881480	50
MC 0,5/ 7-G-2,5	1881493	50
MC 0,5/ 8-G-2,5	1881503	50
MC 0,5/ 9-G-2,5	1881516	50
MC 0,5/10-G-2,5	1881529	50
MC 0,5/11-G-2,5	1881532	50
MC 0,5/12-G-2,5	1881545	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	4
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	2.5
Insulation coordination	III / 3 III / 2 II / 2
Surge voltage category / pollution degree	
Rated insulation voltage [V]	80 160 320
Rated surge voltage [kV]	1.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	125 - -
Nominal current [A]	4 - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.2 / 0,8 x 0,8 mm

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A



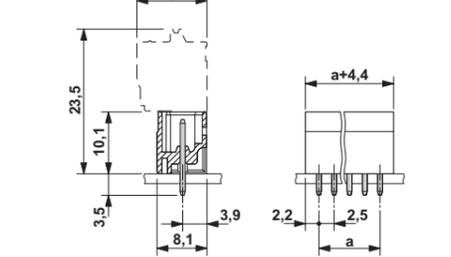
Double-level headers, Plug-in direction parallel to the PCB

Double-level headers, Plug-in direction vertical to the PCB

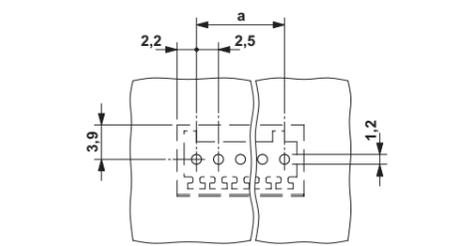


Single-level header, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

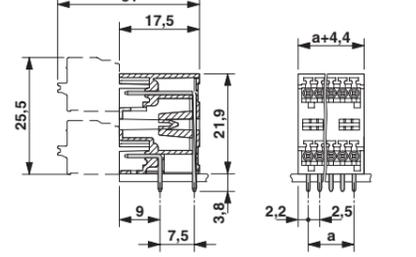


Ordering data

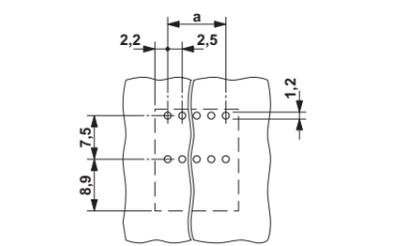
Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
MCV 0,5/ 2-G-2,5	1881558	50
MCV 0,5/ 3-G-2,5	1881561	50
MCV 0,5/ 4-G-2,5	1881574	50
MCV 0,5/ 5-G-2,5	1881587	50
MCV 0,5/ 6-G-2,5	1881590	50
MCV 0,5/ 7-G-2,5	1881600	50
MCV 0,5/ 8-G-2,5	1881613	50
MCV 0,5/ 9-G-2,5	1881626	50
MCV 0,5/10-G-2,5	1881639	50
MCV 0,5/11-G-2,5	1881642	50
MCV 0,5/12-G-2,5	1881655	50



Dimensional drawing



Drilling diagram

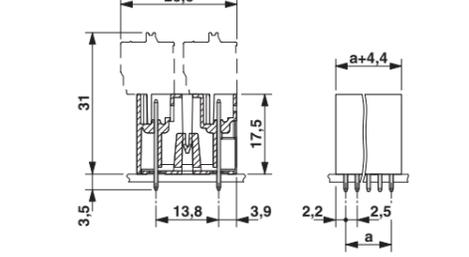


Ordering data

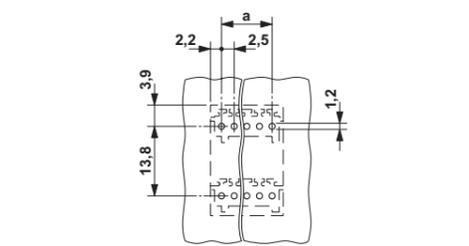
Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
MCD 0,5/ 2-G1-2,5	1894804	50
MCD 0,5/ 3-G1-2,5	1894817	50
MCD 0,5/ 4-G1-2,5	1894820	50
MCD 0,5/ 5-G1-2,5	1894833	50
MCD 0,5/ 6-G1-2,5	1894846	50
MCD 0,5/ 7-G1-2,5	1894859	50
MCD 0,5/ 8-G1-2,5	1894862	50
MCD 0,5/ 9-G1-2,5	1894875	50
MCD 0,5/10-G1-2,5	1894888	50
MCD 0,5/11-G1-2,5	1894891	50
MCD 0,5/12-G1-2,5	1894901	50



Dimensional drawing



Drilling diagram



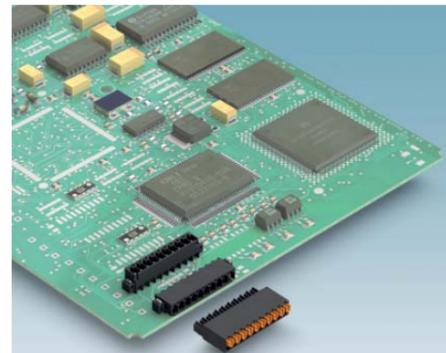
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
MCDV 0,5/ 2-G1-2,5	1894914	50
MCDV 0,5/ 3-G1-2,5	1894927	50
MCDV 0,5/ 4-G1-2,5	1894930	50
MCDV 0,5/ 5-G1-2,5	1894943	50
MCDV 0,5/ 6-G1-2,5	1894956	50
MCDV 0,5/ 7-G1-2,5	1894969	50
MCDV 0,5/ 8-G1-2,5	1894972	50
MCDV 0,5/ 9-G1-2,5	1894985	50
MCDV 0,5/10-G1-2,5	1894998	50
MCDV 0,5/11-G1-2,5	1895007	50
MCDV 0,5/12-G1-2,5	1895010	50

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A

Plugs with push-in spring connection



- Ultra-flat design height of just 5.4 mm
- Can be combined with MC(V) 0,5 headers with 2.54 mm pitch
- User-friendly actuation of the spring lever using a screwdriver
- Versions with fixed keying of the first position (C1) or the last position (C2)
- Touch connection for voltage testing using a 0.64 mm Ø test pin

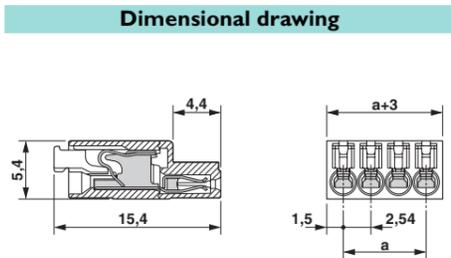
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

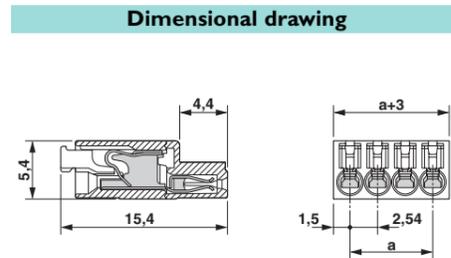
¹⁾ Derating curves on request.

Accessories		
For all types	Type	Page
	Marker cards SK 2,54/2,8	796
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0,25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

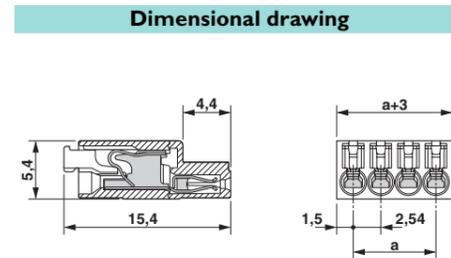
Flat plug, with gold-plated contact system



Plug with gold-plated contact system, fixed keying of the first position (C1)



Plug with gold-plated contact system, fixed keying of the last position (C2)



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	6 ¹⁾ / 0,5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	2.54
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.34
Stranded with ferrules with plastic sleeve [mm ²]	0.14 - 0.25
Multi-conductor connection capacity (two conductors with the same cross section)	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	32 160 160
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	6 ¹⁾ / 0,5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	2.54
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.34
Stranded with ferrules with plastic sleeve [mm ²]	0.14 - 0.25
Multi-conductor connection capacity (two conductors with the same cross section)	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	32 160 160
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0

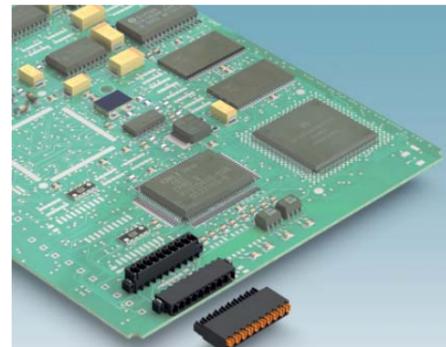
Ordering data				
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black				
2	2.54	FMC 0,5/ 2-ST-2,54	1821096	200
3	5.08	FMC 0,5/ 3-ST-2,54	1821106	200
4	7.62	FMC 0,5/ 4-ST-2,54	1821119	200
5	10.16	FMC 0,5/ 5-ST-2,54	1821122	200
6	12.70	FMC 0,5/ 6-ST-2,54	1821135	200
7	15.24	FMC 0,5/ 7-ST-2,54	1821148	100
8	17.78	FMC 0,5/ 8-ST-2,54	1821151	100
9	20.32	FMC 0,5/ 9-ST-2,54	1821164	100
10	22.86	FMC 0,5/10-ST-2,54	1821177	100
11	25.40	FMC 0,5/11-ST-2,54	1821180	100
12	27.94	FMC 0,5/12-ST-2,54	1821193	100
13	30.48	FMC 0,5/13-ST-2,54	1821203	100
14	33.02	FMC 0,5/14-ST-2,54	1821216	100
15	35.56	FMC 0,5/15-ST-2,54	1821229	100
16	38.10	FMC 0,5/16-ST-2,54	1821232	100

Ordering data			
Type	Order No.	Pcs. / Pkt.	
2.54 mm pitch, color: black			
FMC 0,5/ 2-ST-2,54 C1	1706263	200	
FMC 0,5/ 3-ST-2,54 C1	1706262	200	
FMC 0,5/ 4-ST-2,54 C1	1706261	200	
FMC 0,5/ 5-ST-2,54 C1	1706259	200	
FMC 0,5/ 6-ST-2,54 C1	1706258	200	
FMC 0,5/ 7-ST-2,54 C1	1706256	100	
FMC 0,5/ 8-ST-2,54 C1	1706255	100	
FMC 0,5/ 9-ST-2,54 C1	1706254	100	
FMC 0,5/10-ST-2,54 C1	1706253	100	
FMC 0,5/11-ST-2,54 C1	1706252	100	
FMC 0,5/12-ST-2,54 C1	1706250	100	
FMC 0,5/13-ST-2,54 C1	1706249	100	
FMC 0,5/14-ST-2,54 C1	1706247	100	
FMC 0,5/15-ST-2,54 C1	1706246	100	
FMC 0,5/16-ST-2,54 C1	1706245	100	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
2.54 mm pitch, color: black			
FMC 0,5/ 2-ST-2,54 C2	1706243	200	
FMC 0,5/ 3-ST-2,54 C2	1706242	200	
FMC 0,5/ 4-ST-2,54 C2	1706241	200	
FMC 0,5/ 5-ST-2,54 C2	1706240	200	
FMC 0,5/ 6-ST-2,54 C2	1706239	200	
FMC 0,5/ 7-ST-2,54 C2	1706238	100	
FMC 0,5/ 8-ST-2,54 C2	1706237	100	
FMC 0,5/ 9-ST-2,54 C2	1706236	100	
FMC 0,5/10-ST-2,54 C2	1706234	100	
FMC 0,5/11-ST-2,54 C2	1706233	100	
FMC 0,5/12-ST-2,54 C2	1706232	100	
FMC 0,5/13-ST-2,54 C2	1706230	100	
FMC 0,5/14-ST-2,54 C2	1706229	100	
FMC 0,5/15-ST-2,54 C2	1706227	100	
FMC 0,5/16-ST-2,54 C2	1706226	100	

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A



Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at www.phoenixcontact.net/products.

Accessories		
For all types	Type	Page
	Marker cards SK 2,54/2,8	796

- Versions for use in THR or SMD processes
- With anchor metal for secure hold on the PCB
- Can be combined with non-coded FMC 0,5...ST plugs

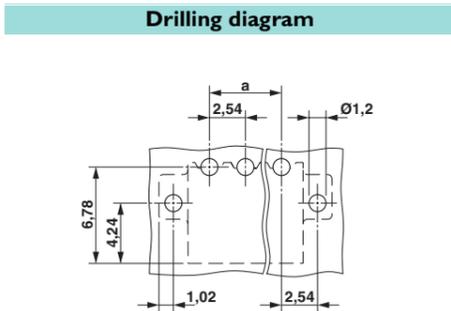
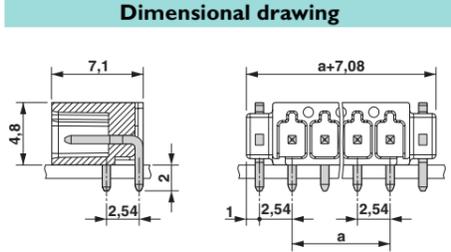
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 6
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 2.54
Insulation coordination	III / 3 III / 2 II / 2
Surge voltage category / pollution degree	
Rated insulation voltage	[V] 32 160 160
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0,64 x 0,64 mm

No. of pos.	Dim. a [mm]
2	2.54
3	5.08
4	7.62
5	10.16
6	12.70
7	15.24
8	17.78
9	20.32
10	22.86
11	25.40
12	27.94
13	30.48
14	33.02
15	35.56
16	38.10

Ordering data			
Type	Order No.	Pcs. / Pkt.	
2.54 mm pitch, color: black			
MC 0,5/ 2-G-2,54 P20 THR R24	1821245	465	
MC 0,5/ 3-G-2,54 P20 THR R24	1821258	465	
MC 0,5/ 4-G-2,54 P20 THR R24	1821261	465	
MC 0,5/ 5-G-2,54 P20 THR R24	1821274	465	
MC 0,5/ 6-G-2,54 P20 THR R44	1821287	465	
MC 0,5/ 7-G-2,54 P20 THR R44	1821290	465	
MC 0,5/ 8-G-2,54 P20 THR R44	1821300	465	
MC 0,5/ 9-G-2,54 P20 THR R44	1821313	465	
MC 0,5/10-G-2,54 P20 THR R56	1821326	465	
MC 0,5/11-G-2,54 P20 THR R56	1821339	465	
MC 0,5/12-G-2,54 P20 THR R56	1821342	465	
MC 0,5/13-G-2,54 P20 THR R56	1821355	465	
MC 0,5/14-G-2,54 P20 THR R56	1821368	465	
MC 0,5/15-G-2,54 P20 THR R56	1821371	465	
MC 0,5/16-G-2,54 P20 THR R72	1821384	465	

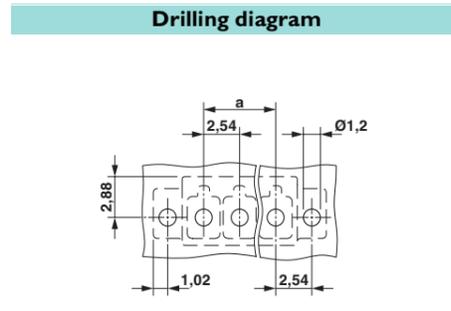
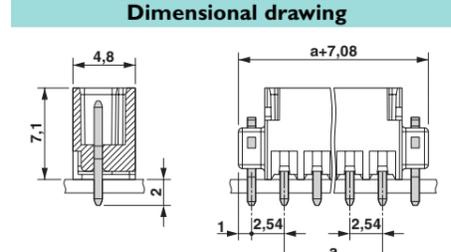
N

Header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction parallel to the PCB



N

Header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction vertical to the PCB



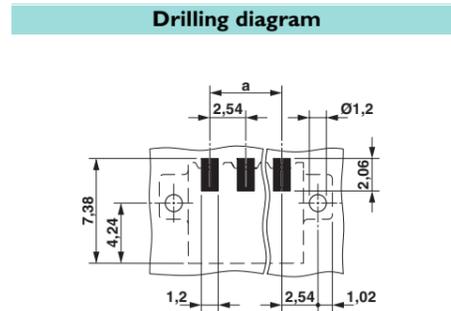
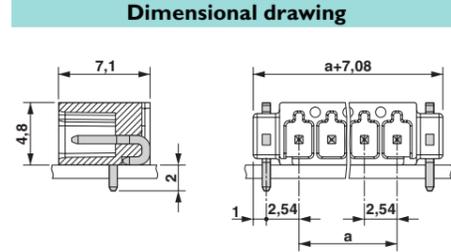
Ordering data		
Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 P20 THR R24	1821397	315
MCV 0,5/ 3-G-2,54 P20 THR R24	1821407	315
MCV 0,5/ 4-G-2,54 P20 THR R24	1821410	315
MCV 0,5/ 5-G-2,54 P20 THR R24	1821423	315
MCV 0,5/ 6-G-2,54 P20 THR R44	1821436	315
MCV 0,5/ 7-G-2,54 P20 THR R44	1821449	315
MCV 0,5/ 8-G-2,54 P20 THR R44	1821452	315
MCV 0,5/ 9-G-2,54 P20 THR R44	1821465	315
MCV 0,5/10-G-2,54 P20 THR R56	1821478	315
MCV 0,5/11-G-2,54 P20 THR R56	1821481	315
MCV 0,5/12-G-2,54 P20 THR R56	1821494	315
MCV 0,5/13-G-2,54 P20 THR R56	1821504	315
MCV 0,5/14-G-2,54 P20 THR R56	1821517	315
MCV 0,5/15-G-2,54 P20 THR R56	1821520	315
MCV 0,5/16-G-2,54 P20 THR R72	1821533	315

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A

N

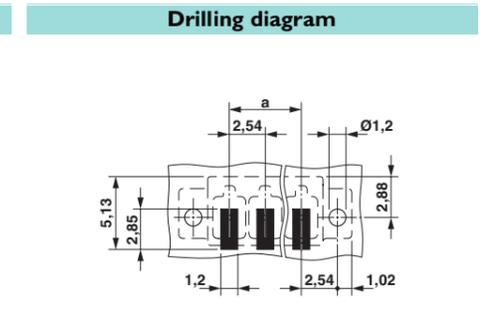
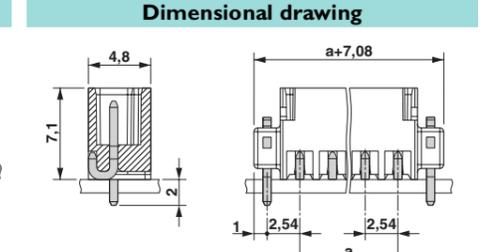
Header for SMD applications, gold-plated contact system, plug-in direction parallel to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MC 0,5/ 2-G-2,54 SMD R24	1821698	465
MC 0,5/ 3-G-2,54 SMD R24	1821708	465
MC 0,5/ 4-G-2,54 SMD R24	1821711	465
MC 0,5/ 5-G-2,54 SMD R24	1821724	465
MC 0,5/ 6-G-2,54 SMD R44	1821737	465
MC 0,5/ 7-G-2,54 SMD R44	1821740	465
MC 0,5/ 8-G-2,54 SMD R44	1821753	465
MC 0,5/ 9-G-2,54 SMD R44	1821766	465
MC 0,5/10-G-2,54 SMD R56	1821779	465
MC 0,5/11-G-2,54 SMD R56	1821782	465
MC 0,5/12-G-2,54 SMD R56	1821795	465
MC 0,5/13-G-2,54 SMD R56	1821805	465
MC 0,5/14-G-2,54 SMD R56	1821818	465
MC 0,5/15-G-2,54 SMD R56	1821821	465
MC 0,5/16-G-2,54 SMD R72	1821834	465

N

Header for SMD applications, gold-plated contact system, plug-in direction vertical to the PCB

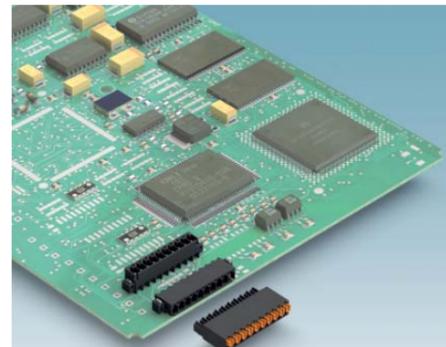


Ordering data		
Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 SMD R24	1821546	315
MCV 0,5/ 3-G-2,54 SMD R24	1821559	315
MCV 0,5/ 4-G-2,54 SMD R24	1821562	315
MCV 0,5/ 5-G-2,54 SMD R24	1821575	315
MCV 0,5/ 6-G-2,54 SMD R44	1821588	315
MCV 0,5/ 7-G-2,54 SMD R44	1821591	315
MCV 0,5/ 8-G-2,54 SMD R44	1821601	315
MCV 0,5/ 9-G-2,54 SMD R44	1821614	315
MCV 0,5/10-G-2,54 SMD R56	1821627	315
MCV 0,5/11-G-2,54 SMD R56	1821630	315
MCV 0,5/12-G-2,54 SMD R56	1821643	315
MCV 0,5/13-G-2,54 SMD R56	1821656	315
MCV 0,5/14-G-2,54 SMD R56	1821669	315
MCV 0,5/15-G-2,54 SMD R56	1821672	315
MCV 0,5/16-G-2,54 SMD R72	1821685	315

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A

Headers for reflow/SMD processes



Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at www.phoenixcontact.net/products.

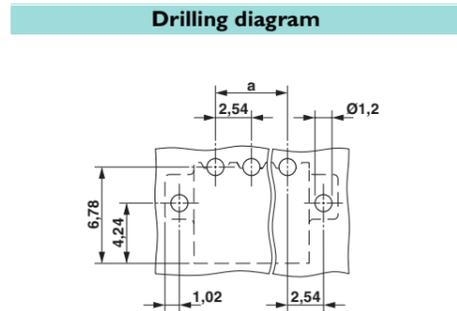
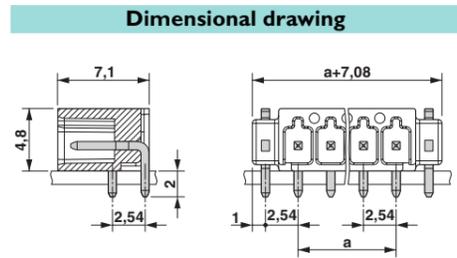
Accessories		
For all types	Type	Page
	Marker cards SK 2,54/2,8	796

- Versions for use in THR or SMD processes
- With anchor metal for secure hold on the PCB
- Delivery form: tape-on-reel packing according to IEC 60286-3 for automated assembly
- With fixed keying of the first position (C1) or the last position (C2)
- Can be combined with keyed plugs FMC 0,5...ST... C1 or C2

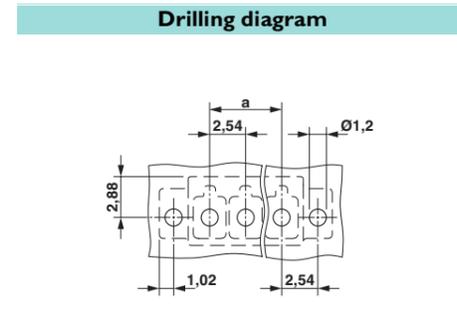
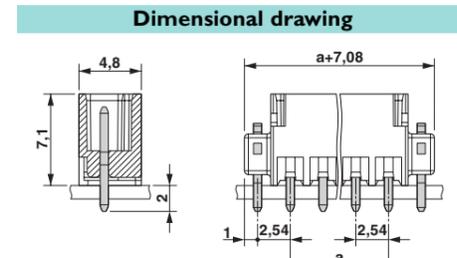
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 6
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 2.54
Insulation coordination	III / 3 III / 2 II / 2
Surge voltage category / pollution degree	
Rated insulation voltage	[V] 32 160 160
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0,64 x 0,64 mm

Ordering data	
Type	Order No. Pcs. / Pkt.
2.54 mm pitch, color: black	
MC 0,5/ 2-G-2,54 P20THRR24C1	1706225 465
MC 0,5/ 3-G-2,54 P20THRR24C1	1706224 465
MC 0,5/ 4-G-2,54 P20THRR24C1	1706223 465
MC 0,5/ 5-G-2,54 P20THRR24C1	1706221 465
MC 0,5/ 6-G-2,54 P20THRR44C1	1706220 465
MC 0,5/ 7-G-2,54 P20THRR44C1	1706218 465
MC 0,5/ 8-G-2,54 P20THRR44C1	1706217 465
MC 0,5/ 9-G-2,54 P20THRR44C1	1706216 465
MC 0,5/10-G-2,54 P20THRR44C1	1706214 465
MC 0,5/11-G-2,54 P20THRR56C1	1706213 465
MC 0,5/12-G-2,54 P20THRR56C1	1706212 465
MC 0,5/13-G-2,54 P20THRR56C1	1706211 465
MC 0,5/14-G-2,54 P20THRR56C1	1706210 465
MC 0,5/15-G-2,54 P20THRR56C1	1706209 465
MC 0,5/16-G-2,54 P20THRR72C1	1706208 465
2.54 mm pitch, color: black	
MC 0,5/ 2-G-2,54 P20THRR24C2	1706207 465
MC 0,5/ 3-G-2,54 P20THRR24C2	1706205 465
MC 0,5/ 4-G-2,54 P20THRR24C2	1706204 465
MC 0,5/ 5-G-2,54 P20THRR24C2	1706203 465
MC 0,5/ 6-G-2,54 P20THRR44C2	1706201 465
MC 0,5/ 7-G-2,54 P20THRR44C2	1706200 465
MC 0,5/ 8-G-2,54 P20THRR44C2	1706199 465
MC 0,5/ 9-G-2,54 P20THRR44C2	1706198 465
MC 0,5/10-G-2,54 P20THRR44C2	1706197 465
MC 0,5/11-G-2,54 P20THRR56C2	1706195 465
MC 0,5/12-G-2,54 P20THRR56C2	1706194 465
MC 0,5/13-G-2,54 P20THRR56C2	1706193 465
MC 0,5/14-G-2,54 P20THRR56C2	1706191 465
MC 0,5/15-G-2,54 P20THRR56C2	1706190 465
MC 0,5/16-G-2,54 P20THRR72C2	1706188 465

Keyed header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction parallel to the PCB



Keyed header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction vertical to the PCB

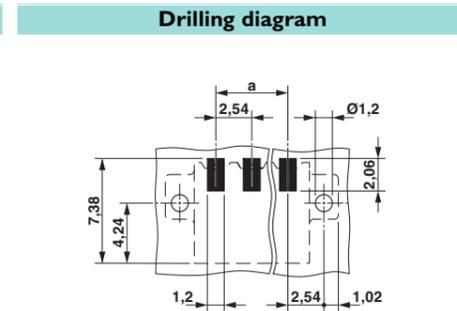
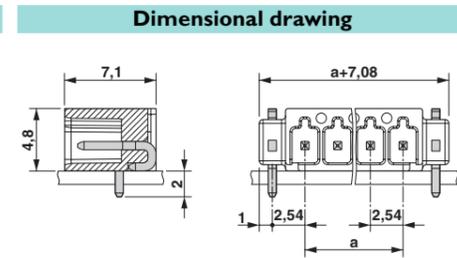


Ordering data	
Type	Order No. Pcs. / Pkt.
2.54 mm pitch, color: black	
MCV 0,5/ 2-G-2,54 P20THRR24C1	1706187 315
MCV 0,5/ 3-G-2,54 P20THRR24C1	1706186 315
MCV 0,5/ 4-G-2,54 P20THRR24C1	1706185 315
MCV 0,5/ 5-G-2,54 P20THRR44C1	1706184 315
MCV 0,5/ 6-G-2,54 P20THRR44C1	1706182 315
MCV 0,5/ 7-G-2,54 P20THRR44C1	1706181 315
MCV 0,5/ 8-G-2,54 P20THRR44C1	1706180 315
MCV 0,5/ 9-G-2,54 P20THRR56C1	1706179 315
MCV 0,5/10-G-2,54 P20THRR56C1	1706178 315
MCV 0,5/11-G-2,54 P20THRR56C1	1706177 315
MCV 0,5/12-G-2,54 P20THRR56C1	1706175 315
MCV 0,5/13-G-2,54 P20THRR56C1	1706174 315
MCV 0,5/14-G-2,54 P20THRR72C1	1706173 315
MCV 0,5/15-G-2,54 P20THRR72C1	1706172 315
MCV 0,5/16-G-2,54 P20THRR72C1	1706171 315
2.54 mm pitch, color: black	
MCV 0,5/ 2-G-2,54 P20THRR24C2	1706169 315
MCV 0,5/ 3-G-2,54 P20THRR24C2	1706168 315
MCV 0,5/ 4-G-2,54 P20THRR24C2	1706166 315
MCV 0,5/ 5-G-2,54 P20THRR44C2	1706165 315
MCV 0,5/ 6-G-2,54 P20THRR44C2	1706164 315
MCV 0,5/ 7-G-2,54 P20THRR44C2	1706162 315
MCV 0,5/ 8-G-2,54 P20THRR44C2	1706161 315
MCV 0,5/ 9-G-2,54 P20THRR56C2	1706160 315
MCV 0,5/10-G-2,54 P20THRR56C2	1706159 315
MCV 0,5/11-G-2,54 P20THRR56C2	1706158 315
MCV 0,5/12-G-2,54 P20THRR56C2	1706157 315
MCV 0,5/13-G-2,54 P20THRR56C2	1706156 315
MCV 0,5/14-G-2,54 P20THRR72C2	1706155 315
MCV 0,5/15-G-2,54 P20THRR72C2	1706153 315
MCV 0,5/16-G-2,54 P20THRR72C2	1706152 315

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

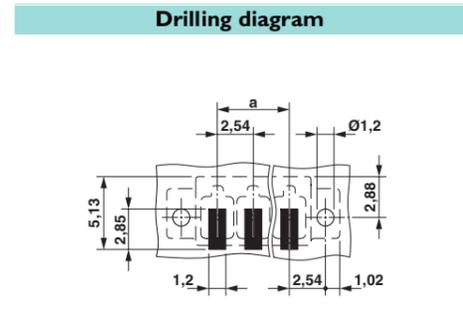
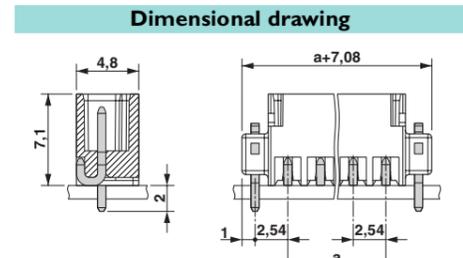
MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A

Keyed header for SMD applications, gold-plated contact system, plug-in direction parallel to the PCB



Ordering data	
Type	Order No. Pcs. / Pkt.
2.54 mm pitch, color: black	
MC 0,5/ 2-G-2,54 SMDR24C1	1706151 465
MC 0,5/ 3-G-2,54 SMDR24C1	1706149 465
MC 0,5/ 4-G-2,54 SMDR24C1	1706148 465
MC 0,5/ 5-G-2,54 SMDR44C1	1706146 465
MC 0,5/ 6-G-2,54 SMDR44C1	1706145 465
MC 0,5/ 7-G-2,54 SMDR44C1	1706144 465
MC 0,5/ 8-G-2,54 SMDR44C1	1706143 465
MC 0,5/ 9-G-2,54 SMDR44C1	1706142 465
MC 0,5/10-G-2,54 SMDR44C1	1706140 465
MC 0,5/11-G-2,54 SMDR56C1	1706139 465
MC 0,5/12-G-2,54 SMDR56C1	1706137 465
MC 0,5/13-G-2,54 SMDR56C1	1706136 465
MC 0,5/14-G-2,54 SMDR56C1	1706135 465
MC 0,5/15-G-2,54 SMDR56C1	1706133 465
MC 0,5/16-G-2,54 SMDR72C1	1706132 465
2.54 mm pitch, color: black	
MC 0,5/ 2-G-2,54 SMDR24C2	1706131 465
MC 0,5/ 3-G-2,54 SMDR24C2	1706130 465
MC 0,5/ 4-G-2,54 SMDR24C2	1706129 465
MC 0,5/ 5-G-2,54 SMDR44C2	1706128 465
MC 0,5/ 6-G-2,54 SMDR44C2	1706127 465
MC 0,5/ 7-G-2,54 SMDR44C2	1706126 465
MC 0,5/ 8-G-2,54 SMDR44C2	1706124 465
MC 0,5/ 9-G-2,54 SMDR44C2	1706123 465
MC 0,5/10-G-2,54 SMDR44C2	1706122 465
MC 0,5/11-G-2,54 SMDR56C2	1706120 465
MC 0,5/12-G-2,54 SMDR56C2	1706119 465
MC 0,5/13-G-2,54 SMDR56C2	1706117 465
MC 0,5/14-G-2,54 SMDR56C2	1706116 465
MC 0,5/15-G-2,54 SMDR56C2	1706115 465
MC 0,5/16-G-2,54 SMDR72C2	1706114 465

Keyed header for SMD applications, gold-plated contact system, plug-in direction vertical to the PCB



Ordering data	
Type	Order No. Pcs. / Pkt.
2.54 mm pitch, color: black	
MCV 0,5/ 2-G-2,54 SMDR24C1	1706113 315
MCV 0,5/ 3-G-2,54 SMDR24C1	1706111 315
MCV 0,5/ 4-G-2,54 SMDR24C1	1706110 315
MCV 0,5/ 5-G-2,54 SMDR44C1	1706108 315
MCV 0,5/ 6-G-2,54 SMDR44C1	1706107 315
MCV 0,5/ 7-G-2,54 SMDR44C1	1706106 315
MCV 0,5/ 8-G-2,54 SMDR44C1	1706104 315
MCV 0,5/ 9-G-2,54 SMDR56C1	1706103 315
MCV 0,5/10-G-2,54 SMDR56C1	1706102 315
MCV 0,5/11-G-2,54 SMDR56C1	1706101 315
MCV 0,5/12-G-2,54 SMDR56C1	1706100 315
MCV 0,5/13-G-2,54 SMDR56C1	1706098 315
MCV 0,5/14-G-2,54 SMDR72C1	1706097 315
MCV 0,5/15-G-2,54 SMDR72C1	1706096 315
MCV 0,5/16-G-2,54 SMDR72C1	1706094 315
2.54 mm pitch, color: black	
MCV 0,5/ 2-G-2,54 SMDR24C2	1706093 315
MCV 0,5/ 3-G-2,54 SMDR24C2	1706092 315
MCV 0,5/ 4-G-2,54 SMDR24C2	1706091 315
MCV 0,5/ 5-G-2,54 SMDR44C2	1706090 315
MCV 0,5/ 6-G-2,54 SMDR44C2	1706089 315
MCV 0,5/ 7-G-2,54 SMDR44C2	1706088 315
MCV 0,5/ 8-G-2,54 SMDR44C2	1706087 315
MCV 0,5/ 9-G-2,54 SMDR56C2	1706085 315
MCV 0,5/10-G-2,54 SMDR56C2	1706084 315
MCV 0,5/11-G-2,54 SMDR56C2	1706083 315
MCV 0,5/12-G-2,54 SMDR56C2	1706081 315
MCV 0,5/13-G-2,54 SMDR56C2	1706080 315
MCV 0,5/14-G-2,54 SMDR72C2	1706078 315
MCV 0,5/15-G-2,54 SMDR72C2	1706077 315
MCV 0,5/16-G-2,54 SMDR72C2	1706076 315

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

The trend towards the miniaturization of modules and devices continues. In terms of device development, an ever increasing number of wiring points on devices have to be taken into consideration.

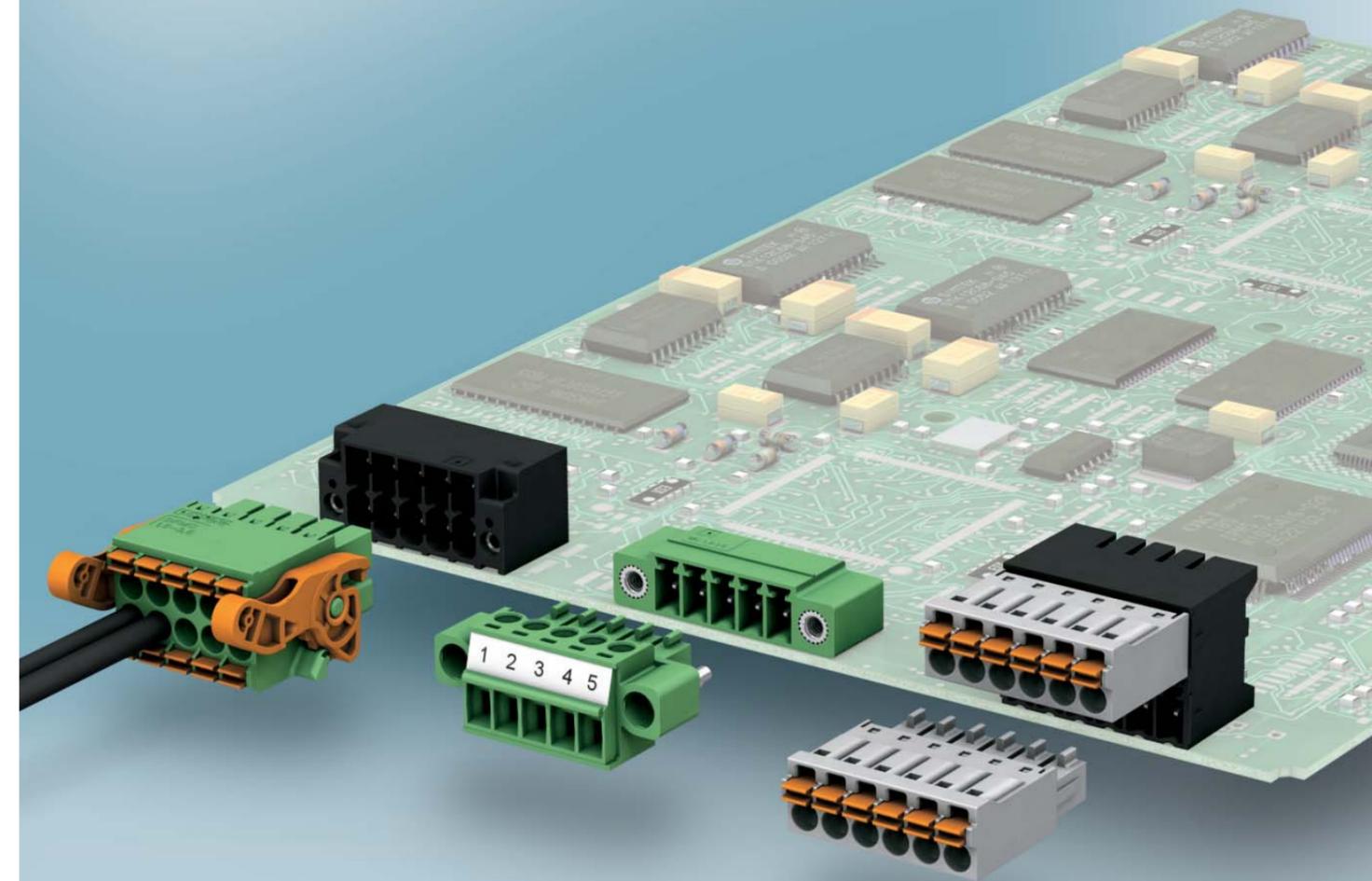
The plug-in connectors in the COMBICON Mini series follow this trend with space-saving 3.5/3.81 mm and 5.08 mm pitch. Thanks to their compact dimensions, they offer convenient conductor connection up to 1.5 mm².

In addition to proven screw connection, the product range includes innovative push-in spring connection, fast insulation displacement connection technology, and crimp connections for assembly.

A wide choice of different designs are available for plug-in combinations.

The header range offers horizontal, vertical or double-level versions for the wave soldering and SMT process. Through hole reflow (THR) headers, which are made from high-temperature-resistant material, are available in tape-on-reel packing, enabling fully automated handling in the SMT process.

COMBICON control mini cross-reference list	182
MINI-COMBICON plug-in connectors, 3.5/3.81 and 5.08 mm pitch	184
Double-row plug with push-in spring connection	184
Double row headers for reflow processes	186
Plugs with screw connection	190
Inverted plugs with screw connection	196
Plug with push-in spring connection	198
Plugs with displacement connection	204
Plugs with crimp connection	206
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Single-level headers for wave soldering processes	224
Orthogonal headers for wave soldering processes	230
Double-level headers for wave soldering processes	234
Inverted headers for wave soldering processes	238
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Fiber optics for headers	244
Plugs with screw connection with 5.08 mm pitch	246
Headers for wave soldering processes with 5.08 mm pitch	248
Special designs	
SUBCON headers with MINI COMBICON pin connector pattern	251



MINI COMBICON plugs	Type	Pitch	MINI COMBICON headers																		
			DMC...G(F) Page 186	IMC...ST(GF) Page 196	EMC(V)...G MC(V)...G (THR) Page 222 224 / 208	EMC(V)...GF MC(V)...GF(THR) Page 223 208	SMC...G(F) Page 228	MC ..GF-LR MCV ...GF-LR Page 225	MCDN...G1 MCDNV...G1 Page 218 220	MC(V)...G RN MCDN(V)...G1 RN Page 225 219	MCO...G Page 230	MCO...G1 Page 232	MCD(V)...G Page 234	MCD(V)...GF Page 235	MCD(V)...G1 Page 235	MCDV...G1F Page 235	DFK-MC...GF Page 240	MCVU...GFD Page 241	MC...G MCV...G Page 248	MC...GF MCV...GF Page 249	
			3.5	3.81	3.5 3.81	3.5 3.81	3.81	3.81	3.5 3.81	3.81	3.5	3.81	3.5	3.81	3.81	3.81	3.81	3.81	3.81	5.08	5.08
	DFMC...ST Page 184 DFMC...STF(...LR) Page 185	3.5 3.5	• •																		
	MC...ST Page 190 MC...STF Page 191	3.5 3.81 3.5 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	MC...ST-LR Page 191	3.5 3.81							• •												
	FRONT-MC...ST Page 194 FRONT-MC...STF Page 195	3.81 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	MCVR(W)...ST Page 192 MCVR(W)...STF Page 193	3.5 3.81 3.5 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	FK-MCP...ST-LR Page 199	3.5 3.81							• •												
	FK-MCP...ST Page 198 FK-MCP...STF Page 199	3.5 3.81 3.5 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	FMC...ST Page 200 FMC...STF Page 201	3.5 3.81 3.5 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	FMC...ST...RF Page 201	3.5							•												
	FMCD...ST Page 201	3.5							•												
	TFMC...ST Page 202 TFMC...STF Page 202	3.5 3.5			•	•			•												
	QC...ST Page 204 QC...STF Page 205	3.81 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	MCC...STZ Page 206 MCC...STZF Page 207	3.81 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	IMC...G Page 238 IMCV...G Page 239	3.81 3.81		• •	• •	• •	• •	• •	• •			• •	• •	• •	• •	• •	• •	• •	• •		
	MC...ST(1) Page 246 MC...ST(1)F Page 247	5.08 5.08																		•	•

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Double-row plug with push-in spring connection



- Fast conductor connection through Push-in direct plug-in technology
- Extremely flat design, 13.3 mm
- Combination with very flat DMC headers
- Conductor cross section up to 1.5 mm²
- Versions with and without screw flanges and lock & release levers
- Lock & release levers lock the connector to the header and function as a release tool
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

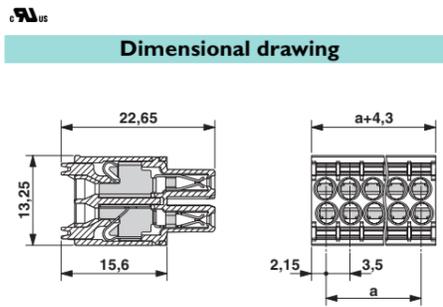
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.2 Nm.

Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8	797
	Keying profile CP-DMC-THR NAT Order No. 1790647	
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Two-row connector with Push-in connection



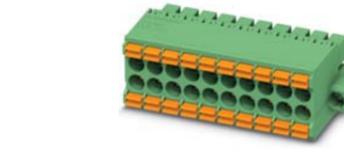
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

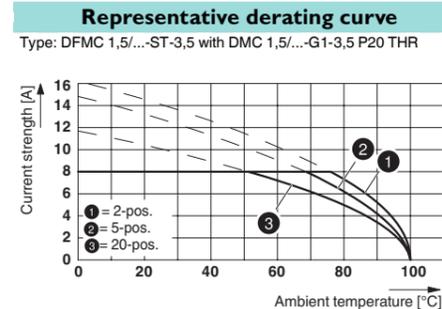
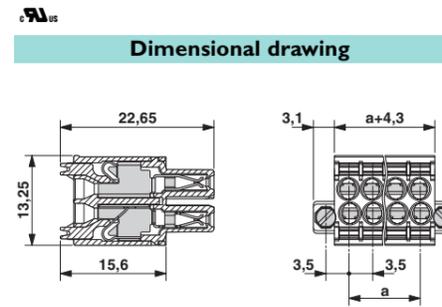
Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
DFMC 1,5/ 2-ST-3,5	1790108	50	
DFMC 1,5/ 3-ST-3,5	1790111	50	
DFMC 1,5/ 4-ST-3,5	1790124	50	
DFMC 1,5/ 5-ST-3,5	1790137	50	
DFMC 1,5/ 6-ST-3,5	1790140	50	
DFMC 1,5/ 7-ST-3,5	1790153	50	
DFMC 1,5/ 8-ST-3,5	1790166	50	
DFMC 1,5/ 9-ST-3,5	1790179	50	
DFMC 1,5/10-ST-3,5	1790182	50	
DFMC 1,5/11-ST-3,5	1790195	50	
DFMC 1,5/12-ST-3,5	1790205	50	
DFMC 1,5/13-ST-3,5	1790218	50	
DFMC 1,5/14-ST-3,5	1790221	50	
DFMC 1,5/15-ST-3,5	1790234	50	
DFMC 1,5/16-ST-3,5	1790247	50	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

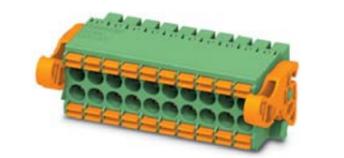
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



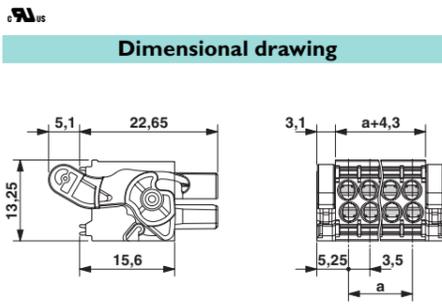
With screw flange



Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
DFMC 1,5/ 2-STF-3,5	1790292	50
DFMC 1,5/ 3-STF-3,5	1790302	50
DFMC 1,5/ 4-STF-3,5	1790315	50
DFMC 1,5/ 5-STF-3,5	1790328	50
DFMC 1,5/ 6-STF-3,5	1790331	50
DFMC 1,5/ 7-STF-3,5	1790344	50
DFMC 1,5/ 8-STF-3,5	1790357	50
DFMC 1,5/ 9-STF-3,5	1790360	50
DFMC 1,5/10-STF-3,5	1790373	50
DFMC 1,5/11-STF-3,5	1790386	50
DFMC 1,5/12-STF-3,5	1790399	50
DFMC 1,5/13-STF-3,5	1790409	50
DFMC 1,5/14-STF-3,5	1790412	50
DFMC 1,5/15-STF-3,5	1790425	50
DFMC 1,5/16-STF-3,5	1790438	50



With lock & release levers for locking and releasing



Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
DFMC 1,5/ 2-ST-3,5-LR	1790483	50
DFMC 1,5/ 3-ST-3,5-LR	1790496	50
DFMC 1,5/ 4-ST-3,5-LR	1790506	50
DFMC 1,5/ 5-ST-3,5-LR	1790519	50
DFMC 1,5/ 6-ST-3,5-LR	1790522	50
DFMC 1,5/ 7-ST-3,5-LR	1790535	50
DFMC 1,5/ 8-ST-3,5-LR	1790548	50
DFMC 1,5/ 9-ST-3,5-LR	1790551	50
DFMC 1,5/10-ST-3,5-LR	1790564	50
DFMC 1,5/11-ST-3,5-LR	1790577	50
DFMC 1,5/12-ST-3,5-LR	1790580	50
DFMC 1,5/13-ST-3,5-LR	1790593	50
DFMC 1,5/14-ST-3,5-LR	1790603	50
DFMC 1,5/15-ST-3,5-LR	1790616	50
DFMC 1,5/16-ST-3,5-LR	1790629	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Two-row headers for reflow processes



- Extremely small THR two-row headers for SMT and wave soldering processes
- At 8 mm, the distance from the edge of the PCB to the first row of holes is compatible with MC headers
- Headers with flange can be combined with screw-type lock & release lever connectors
- Type of packaging: bulk
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

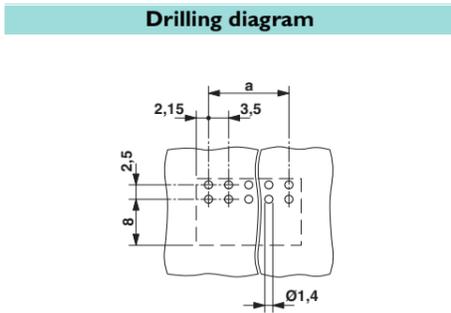
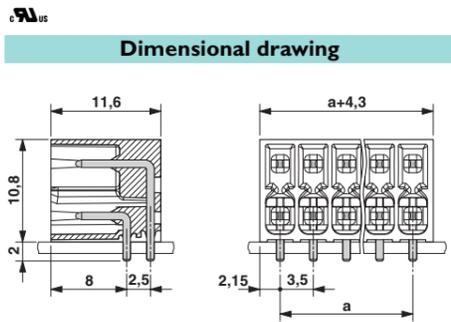
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Panel cutout dimensions for DMC 1,5 and DMCV 1,5 appear on page 840.

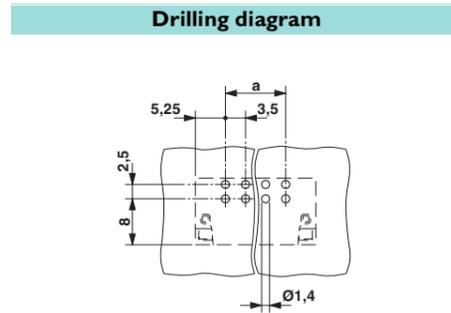
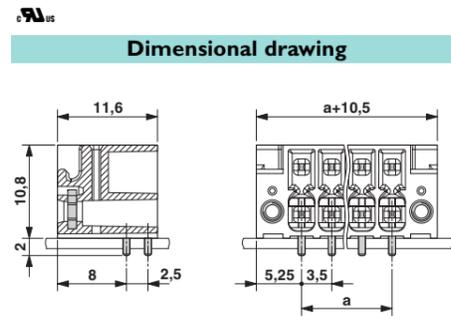
Accessories		
For all types	Type	Page
	Keying profile CP-DMC-THR NAT Order No. 1790647	
	Marker cards SK 3,5/2,8	797

Plug-in direction parallel to the PCB



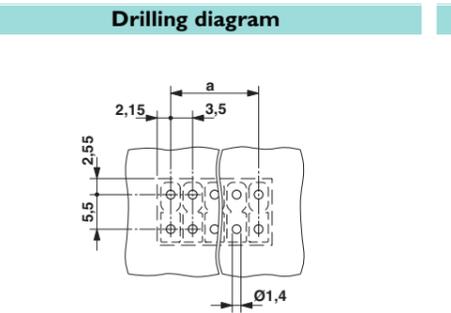
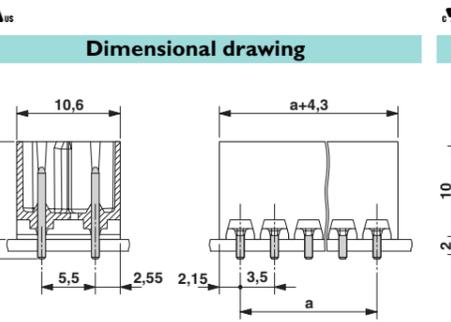
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
DMC 1,5/ 2-G1-3,5 P20THR	1786837	50	
DMC 1,5/ 3-G1-3,5 P20THR	1786840	50	
DMC 1,5/ 4-G1-3,5 P20THR	1786853	50	
DMC 1,5/ 5-G1-3,5 P20THR	1786866	50	
DMC 1,5/ 6-G1-3,5 P20THR	1786879	50	
DMC 1,5/ 7-G1-3,5 P20THR	1786882	50	
DMC 1,5/ 8-G1-3,5 P20THR	1786895	50	
DMC 1,5/ 9-G1-3,5 P20THR	1786905	50	
DMC 1,5/10-G1-3,5 P20THR	1786918	50	
DMC 1,5/11-G1-3,5 P20THR	1786921	50	
DMC 1,5/12-G1-3,5 P20THR	1786934	50	
DMC 1,5/13-G1-3,5 P20THR	1786947	50	
DMC 1,5/14-G1-3,5 P20THR	1786950	50	
DMC 1,5/15-G1-3,5 P20THR	1786963	50	
DMC 1,5/16-G1-3,5 P20THR	1786976	50	

With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB



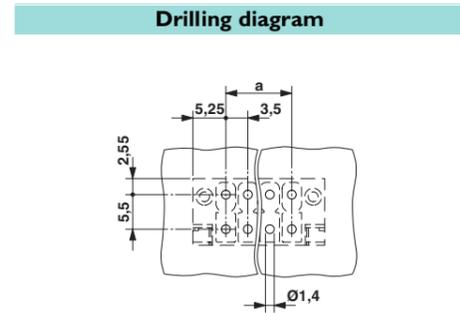
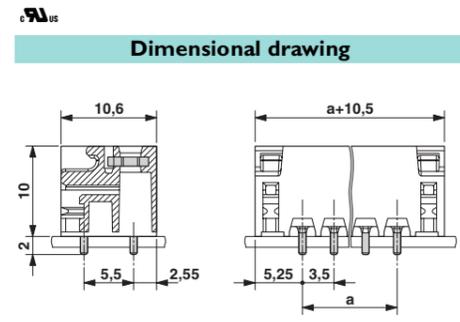
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
DMC 1,5/ 2-G1F-3,5-LR P20THR	1787014	50	
DMC 1,5/ 3-G1F-3,5-LR P20THR	1787027	50	
DMC 1,5/ 4-G1F-3,5-LR P20THR	1787030	50	
DMC 1,5/ 5-G1F-3,5-LR P20THR	1787043	50	
DMC 1,5/ 6-G1F-3,5-LR P20THR	1787056	50	
DMC 1,5/ 7-G1F-3,5-LR P20THR	1787069	50	
DMC 1,5/ 8-G1F-3,5-LR P20THR	1787072	50	
DMC 1,5/ 9-G1F-3,5-LR P20THR	1787085	50	
DMC 1,5/10-G1F-3,5-LR P20THR	1787098	50	
DMC 1,5/11-G1F-3,5-LR P20THR	1787108	50	
DMC 1,5/12-G1F-3,5-LR P20THR	1787111	50	
DMC 1,5/13-G1F-3,5-LR P20THR	1787124	50	
DMC 1,5/14-G1F-3,5-LR P20THR	1787137	50	
DMC 1,5/15-G1F-3,5-LR P20THR	1787140	50	
DMC 1,5/16-G1F-3,5-LR P20THR	1787153	50	

Plug-in direction vertical to the PCB



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
DMCV 1,5/ 2-G1-3,5 P20THR	1787205	50	
DMCV 1,5/ 3-G1-3,5 P20THR	1787218	50	
DMCV 1,5/ 4-G1-3,5 P20THR	1787221	50	
DMCV 1,5/ 5-G1-3,5 P20THR	1787234	50	
DMCV 1,5/ 6-G1-3,5 P20THR	1787247	50	
DMCV 1,5/ 7-G1-3,5 P20THR	1787250	50	
DMCV 1,5/ 8-G1-3,5 P20THR	1787263	50	
DMCV 1,5/ 9-G1-3,5 P20THR	1787276	50	
DMCV 1,5/10-G1-3,5 P20THR	1787289	50	
DMCV 1,5/11-G1-3,5 P20THR	1787292	50	
DMCV 1,5/12-G1-3,5 P20THR	1787302	50	
DMCV 1,5/13-G1-3,5 P20THR	1787315	50	
DMCV 1,5/14-G1-3,5 P20THR	1787328	50	
DMCV 1,5/15-G1-3,5 P20THR	1787331	50	
DMCV 1,5/16-G1-3,5 P20THR	1787344	50	

With lock & release mechanism and threaded flange, plug-in direction vertical to the PCB



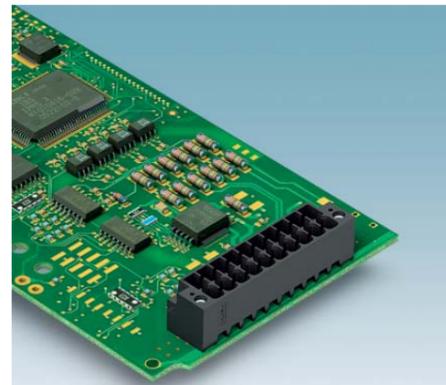
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
DMCV 1,5/ 2-G1F-3,5-LR P20THR	1787399	50	
DMCV 1,5/ 3-G1F-3,5-LR P20THR	1787409	50	
DMCV 1,5/ 4-G1F-3,5-LR P20THR	1787412	50	
DMCV 1,5/ 5-G1F-3,5-LR P20THR	1787425	50	
DMCV 1,5/ 6-G1F-3,5-LR P20THR	1787438	50	
DMCV 1,5/ 7-G1F-3,5-LR P20THR	1787441	50	
DMCV 1,5/ 8-G1F-3,5-LR P20THR	1787454	50	
DMCV 1,5/ 9-G1F-3,5-LR P20THR	1787467	50	
DMCV 1,5/10-G1F-3,5-LR P20THR	1787470	50	
DMCV 1,5/11-G1F-3,5-LR P20THR	1787483	50	
DMCV 1,5/12-G1F-3,5-LR P20THR	1787496	50	
DMCV 1,5/13-G1F-3,5-LR P20THR	1787506	50	
DMCV 1,5/14-G1F-3,5-LR P20THR	1787519	50	
DMCV 1,5/15-G1F-3,5-LR P20THR	1787522	50	
DMCV 1,5/16-G1F-3,5-LR P20THR	1787535	50	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 150 - -
Nominal current	[A] 8 - -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Two-row headers for reflow processes



- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- Reel diameter 330 mm
- Tape width corresponds to order designation
- Extremely small THR two-row headers for SMT and wave soldering processes
- At 8 mm, the distance from the edge of the PCB to the first row of holes is compatible with MC headers
- Headers with flange can be combined with screw-type lock & release lever connectors

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

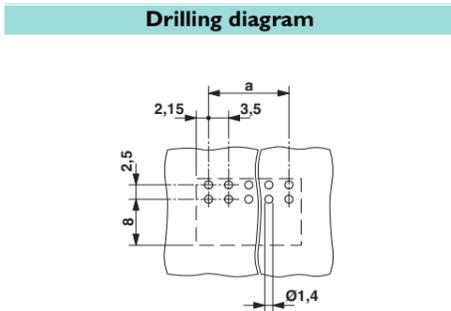
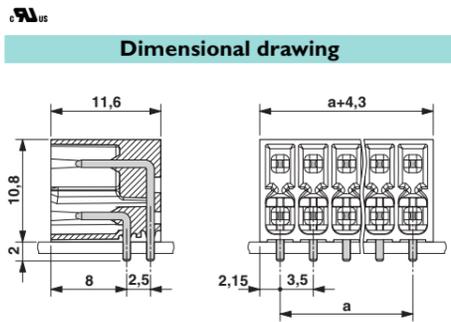
Panel cutout dimensions for DMC 1,5 and DMCV 1,5 appear on page 840.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

Accessories		
For all types	Type	Page
	Keying profile CP-DMC-THR NAT Order No. 1790647	
	Marker cards SK 3,5/2,8	797



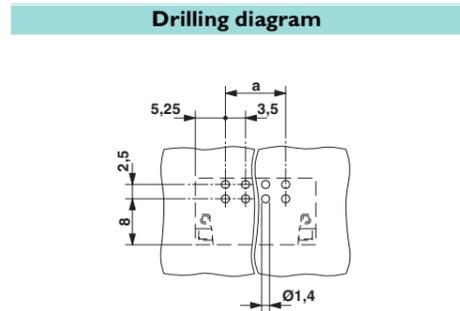
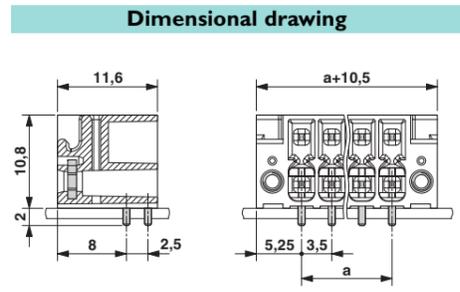
Plug-in direction parallel to the PCB



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
DMC 1,5/ 2-G1-3,5 P20THR R24-1	1816137	180	
DMC 1,5/ 3-G1-3,5 P20THR R24-2	1816140	180	
DMC 1,5/ 4-G1-3,5 P20THR R44	1816153	180	
DMC 1,5/ 5-G1-3,5 P20THR R44	1816166	180	
DMC 1,5/ 6-G1-3,5 P20THR R44	1818478	180	
DMC 1,5/ 7-G1-3,5 P20THR R56	1818481	180	
DMC 1,5/ 8-G1-3,5 P20THR R56	1816179	180	
DMC 1,5/ 9-G1-3,5 P20THR R56	1818494	180	
DMC 1,5/10-G1-3,5 P20THR R56	1816182	180	
DMC 1,5/11-G1-3,5 P20THR R72	1706049	180	
DMC 1,5/12-G1-3,5 P20THR R72	1706051	180	
DMC 1,5/13-G1-3,5 P20THR R72	1706052	180	
DMC 1,5/14-G1-3,5 P20THR R72	1706054	180	



With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB



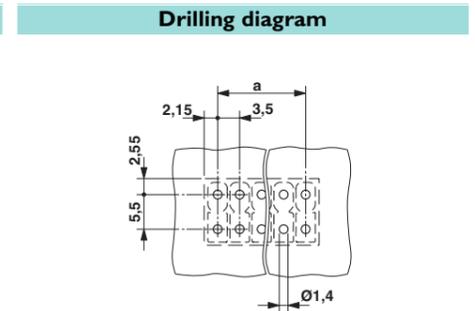
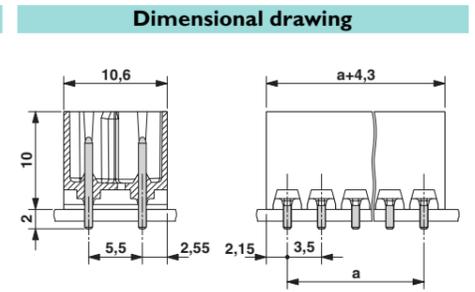
Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMC 1,5/ 2-G1F-3,5-LRP20THRR44	1818504	180
DMC 1,5/ 3-G1F-3,5-LRP20THRR44	1818517	180
DMC 1,5/ 4-G1F-3,5-LRP20THRR44	1818520	180
DMC 1,5/ 5-G1F-3,5-LRP20THRR56	1818533	180
DMC 1,5/ 6-G1F-3,5-LRP20THRR56	1818546	180
DMC 1,5/ 7-G1F-3,5-LRP20THRR56	1818559	180
DMC 1,5/ 8-G1F-3,5-LRP20THRR56	1818562	180
DMC 1,5/ 9-G1F-3,5-LRP20THRR72	1706055	180
DMC 1,5/10-G1F-3,5-LRP20THRR72	1706064	180
DMC 1,5/11-G1F-3,5-LRP20THRR72	1706065	180
DMC 1,5/12-G1F-3,5-LRP20THRR72	1706067	180

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

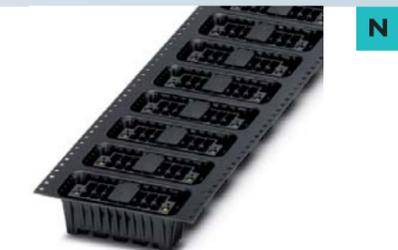
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



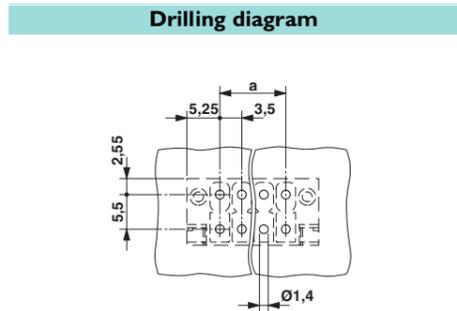
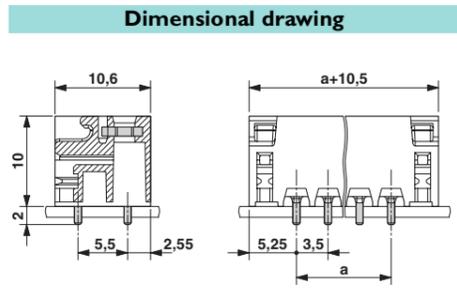
Plug-in direction vertical to the PCB



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
DMCV 1,5/ 2-G1-3,5 P20THR R24	1818575	220	
DMCV 1,5/ 3-G1-3,5 P20THR R24	1818588	220	
DMCV 1,5/ 4-G1-3,5 P20THR R44	1818591	220	
DMCV 1,5/ 5-G1-3,5 P20THR R44	1818601	220	
DMCV 1,5/ 6-G1-3,5 P20THR R44	1818614	220	
DMCV 1,5/ 7-G1-3,5 P20THR R56	1818627	220	
DMCV 1,5/ 8-G1-3,5 P20THR R56	1818630	220	
DMCV 1,5/ 9-G1-3,5 P20THR R56	1818643	220	
DMCV 1,5/10-G1-3,5 P20THR R56	1818656	220	
DMCV 1,5/11-G1-3,5 P20THR R72	1818669	220	
DMCV 1,5/12-G1-3,5 P20THR R72	1818672	220	
DMCV 1,5/13-G1-3,5 P20THR R72	1818685	220	
DMCV 1,5/14-G1-3,5 P20THR R72	1818698	220	



With lock & release mechanism and threaded flange, plug-in direction vertical to the PCB



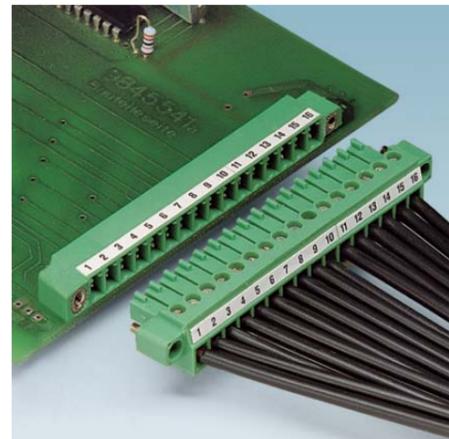
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
DMCV 1,5/ 2-G1F-3,5-LRP20THRR32	1818708	220	
DMCV 1,5/ 3-G1F-3,5-LRP20THRR44	1818711	220	
DMCV 1,5/ 4-G1F-3,5-LRP20THRR44	1818724	220	
DMCV 1,5/ 5-G1F-3,5-LRP20THRR56	1818737	220	
DMCV 1,5/ 6-G1F-3,5-LRP20THRR56	1818740	220	
DMCV 1,5/ 7-G1F-3,5-LRP20THRR56	1818753	220	
DMCV 1,5/ 8-G1F-3,5-LRP20THRR56	1818766	220	
DMCV 1,5/ 9-G1F-3,5-LRP20THRR72	1818779	220	
DMCV 1,5/10-G1F-3,5-LRP20THRR72	1818782	220	
DMCV 1,5/11-G1F-3,5-LRP20THRR72	1818795	220	
DMCV 1,5/12-G1F-3,5-LRP20THRR72	1818805	220	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 150 - -
Nominal current	[A] 8 - -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Connector with a screw connection



Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Dimension b:
3 to 4-pos. = 9.9 mm
5 to 7-pos. = 17.2 mm
8 to 9-pos. = 27.9 mm
≥ 10-pos. = 34.7 mm

The maximum torque for the screw flange is 0.3 Nm.

¹⁾ Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
Only for a 3.81 mm pitch		
	Insertion bridge EBPL...-3,81	829

- Flat design of the MC 1,5 connector range
- Generously dimensioned wiring space
- Plug-in direction parallel to the conductor axis
- Versions with and without screw flanges and lock & release levers
- Individual position keying by removing the keying tab and connecting the keying profile to the header
- Versions with a pullout aid can be provided; cables can be fixed to the pullout aid using cable binders
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group B C D
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	M2
Tightening torque	[Nm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data	
No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Dimensional drawing

Note derating curves
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
MC 1,5/ 2-ST-3,5	1840366	50	
MC 1,5/ 3-ST-3,5	1840379	50	
MC 1,5/ 4-ST-3,5	1840382	50	
MC 1,5/ 5-ST-3,5	1840395	50	
MC 1,5/ 6-ST-3,5	1840405	50	
MC 1,5/ 7-ST-3,5	1840418	50	
MC 1,5/ 8-ST-3,5	1840421	50	
MC 1,5/ 9-ST-3,5	1840434	50	
MC 1,5/10-ST-3,5	1840447	50	
MC 1,5/11-ST-3,5	1840450	50	
MC 1,5/12-ST-3,5	1840463	50	
MC 1,5/13-ST-3,5	1840476	50	
MC 1,5/14-ST-3,5	1840489	50	
MC 1,5/15-ST-3,5	1840492	50	
MC 1,5/16-ST-3,5	1840502	50	
Pitch 3.81 mm, color: Green			
MC 1,5/ 2-ST-3,81	1803578	50	
MC 1,5/ 3-ST-3,81	1803581	50	
MC 1,5/ 4-ST-3,81	1803594	50	
MC 1,5/ 5-ST-3,81	1803604	50	
MC 1,5/ 6-ST-3,81	1803617	50	
MC 1,5/ 7-ST-3,81	1803620	50	
MC 1,5/ 8-ST-3,81	1803633	50	
MC 1,5/ 9-ST-3,81	1803646	50	
MC 1,5/10-ST-3,81	1803659	50	
MC 1,5/11-ST-3,81	1803662	50	
MC 1,5/12-ST-3,81	1803675	50	
MC 1,5/13-ST-3,81	1803688	50	
MC 1,5/14-ST-3,81	1803691	50	
MC 1,5/15-ST-3,81	1803701	50	
MC 1,5/16-ST-3,81	1803714	50	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

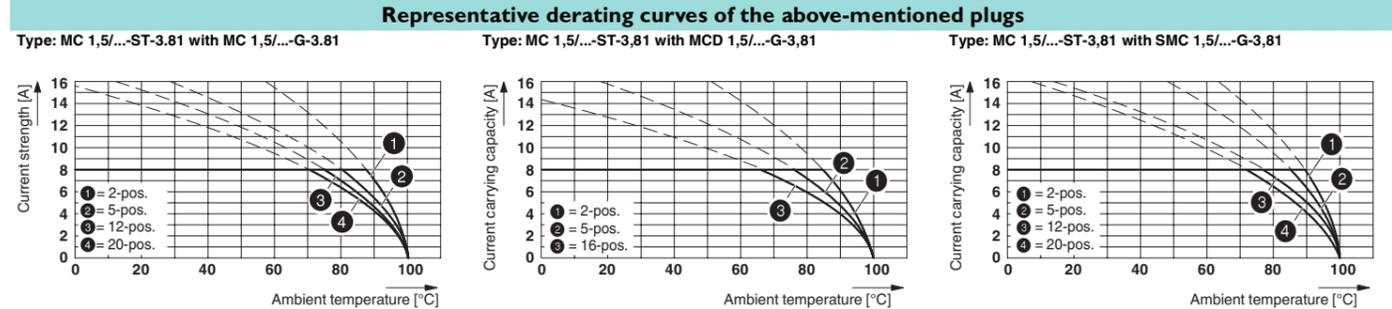
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



Dimensional drawing

Dimensional drawing

Dimensional drawing



Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 3-STZ1-3,5	1768871	50
MC 1,5/ 4-STZ1-3,5	1767500	50
MC 1,5/ 5-STZ2-3,5	1767623	50
MC 1,5/ 6-STZ2-3,5	1767610	50
MC 1,5/ 7-STZ2-3,5	1768884	50
MC 1,5/ 8-STZ3-3,5	1765599	50
MC 1,5/ 9-STZ3-3,5	1768897	50
MC 1,5/10-STZ4-3,5	1766255	50
MC 1,5/11-STZ4-3,5	1768907	50
MC 1,5/12-STZ4-3,5	1768910	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 3-STZ1-3,81	1768923	50
MC 1,5/ 4-STZ1-3,81	1767461	50
MC 1,5/ 5-STZ2-3,81	1768936	50
MC 1,5/ 6-STZ2-3,81	1767694	50
MC 1,5/ 7-STZ2-3,81	1768949	50
MC 1,5/ 8-STZ3-3,81	1768952	50
MC 1,5/ 9-STZ3-3,81	1767665	50
MC 1,5/10-STZ4-3,81	1767209	50
MC 1,5/11-STZ4-3,81	1768965	50
MC 1,5/12-STZ4-3,81	1768978	50
MC 1,5/13-STZ4-3,81	1765557	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-STF-3,5	1847055	50
MC 1,5/ 3-STF-3,5	1847068	50
MC 1,5/ 4-STF-3,5	1847071	50
MC 1,5/ 5-STF-3,5	1847084	50
MC 1,5/ 6-STF-3,5	1847097	50
MC 1,5/ 7-STF-3,5	1847107	50
MC 1,5/ 8-STF-3,5	1847181	50
MC 1,5/ 9-STF-3,5	1847194	50
MC 1,5/10-STF-3,5	1847204	50
MC 1,5/11-STF-3,5	1847217	50
MC 1,5/12-STF-3,5	1847220	50
MC 1,5/13-STF-3,5	1847233	50
MC 1,5/14-STF-3,5	1847246	50
MC 1,5/15-STF-3,5	1847259	50
MC 1,5/16-STF-3,5	1847262	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-STF-3,81	1827703	50
MC 1,5/ 3-STF-3,81	1827716	50
MC 1,5/ 4-STF-3,81	1827729	50
MC 1,5/ 5-STF-3,81	1827732	50
MC 1,5/ 6-STF-3,81	1827745	50
MC 1,5/ 7-STF-3,81	1827758	50
MC 1,5/ 8-STF-3,81	1827761	50
MC 1,5/ 9-STF-3,81	1827774	50
MC 1,5/10-STF-3,81	1827787	50
MC 1,5/11-STF-3,81	1827790	50
MC 1,5/12-STF-3,81	1827800	50
MC 1,5/13-STF-3,81	1827813	50
MC 1,5/14-STF-3,81	1827826	50
MC 1,5/15-STF-3,81	1827839	50
MC 1,5/16-STF-3,81	1827842	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-ST-3,5-LR	1816852	50
MC 1,5/ 3-ST-3,5-LR	1816865	50
MC 1,5/ 4-ST-3,5-LR	1816878	50
MC 1,5/ 5-ST-3,5-LR	1816881	50
MC 1,5/ 6-ST-3,5-LR	1816894	50
MC 1,5/ 7-ST-3,5-LR	1816904	50
MC 1,5/ 8-ST-3,5-LR	1816917	50
MC 1,5/ 9-ST-3,5-LR	1816920	50
MC 1,5/10-ST-3,5-LR	1816933	50
MC 1,5/11-ST-3,5-LR	1816946	50
MC 1,5/12-ST-3,5-LR	1816959	50
MC 1,5/13-ST-3,5-LR	1816962	50
MC 1,5/14-ST-3,5-LR	1816975	50
MC 1,5/15-ST-3,5-LR	1816988	50
MC 1,5/16-ST-3,5-LR	1816991	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-ST-3,81-LR	1817042	50
MC 1,5/ 3-ST-3,81-LR	1817055	50
MC 1,5/ 4-ST-3,81-LR	1817068	50
MC 1,5/ 5-ST-3,81-LR	1817071	50
MC 1,5/ 6-ST-3,81-LR	1817084	50
MC 1,5/ 7-ST-3,81-LR	1817097	50
MC 1,5/ 8-ST-3,81-LR	1817107	50
MC 1,5/ 9-ST-3,81-LR	1817110	50
MC 1,5/10-ST-3,81-LR	1817123	50
MC 1,5/11-ST-3,81-LR	1817136	50
MC 1,5/12-ST-3,81-LR	1817149	50
MC 1,5/13-ST-3,81-LR	1817152	50
MC 1,5/14-ST-3,81-LR	1817165	50
MC 1,5/15-ST-3,81-LR	1817178	50
MC 1,5/16-ST-3,81-LR	1817181	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Connector with a screw connection



- Connectors for vertical plug-in direction
- Compact dimensions of the MCV 1,5 connector range
- Generously dimensioned wiring space
- Versions with and without a screw flange
- Individual position keying by removing the keying tab and connecting the keying profile to the header

Notes:

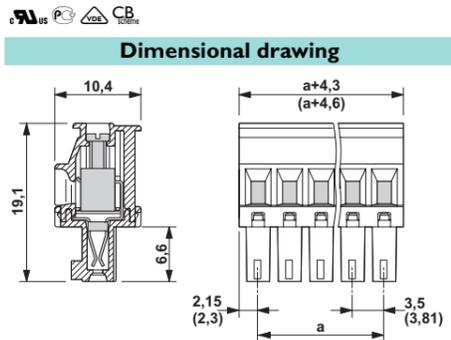
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

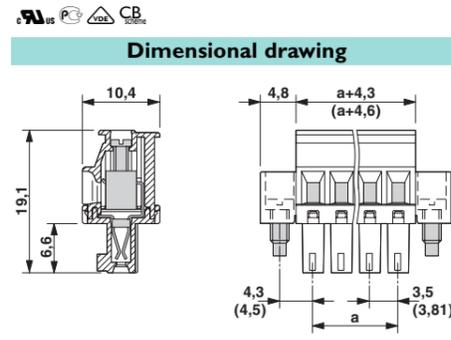
The maximum torque for the screw flange is 0.3 Nm.

1) Derating curves on request.

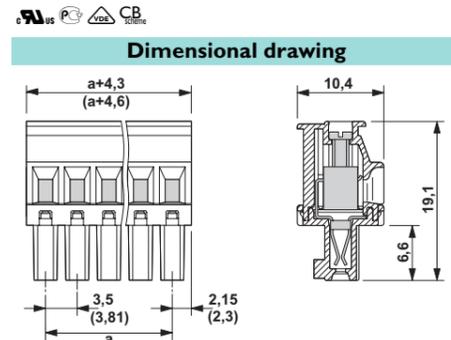
Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
Only for a 3.81 mm pitch		
	Insertion bridge EBPL...-3,81	829



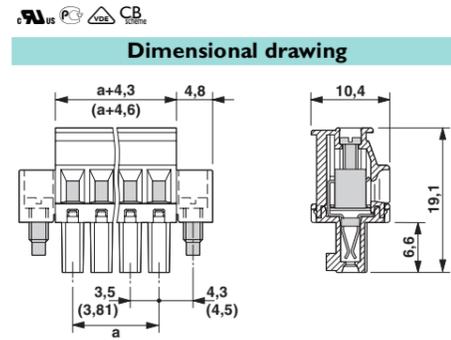
Conductor entry facing keying side



Conductor entry facing rippled side, with screw flange



Conductor entry facing rippled side



Conductor entry facing rippled side, with screw flange

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.5 / 3.81
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 0.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.08 - 0.5 / 0.08 - 0.75
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.34
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 0.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - - 300
Nominal current [A]	8 - - 8
Connection capacity AWG	30 - 14 - - 30 - 14
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Screw thread	M2
Tightening torque [Nm]	0.22 - 0.25
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

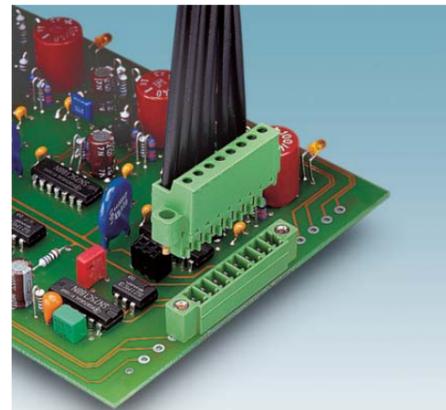
Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
MCVR 1,5/ 2-ST-3,5	1863152	50	
MCVR 1,5/ 3-ST-3,5	1863165	50	
MCVR 1,5/ 4-ST-3,5	1863178	50	
MCVR 1,5/ 5-ST-3,5	1863181	50	
MCVR 1,5/ 6-ST-3,5	1863194	50	
MCVR 1,5/ 7-ST-3,5	1863204	50	
MCVR 1,5/ 8-ST-3,5	1863217	50	
MCVR 1,5/ 9-ST-3,5	1863220	50	
MCVR 1,5/10-ST-3,5	1863233	50	
MCVR 1,5/11-ST-3,5	1863246	50	
MCVR 1,5/12-ST-3,5	1863259	50	
MCVR 1,5/13-ST-3,5	1863262	50	
MCVR 1,5/14-ST-3,5	1863275	50	
MCVR 1,5/15-ST-3,5	1863288	50	
MCVR 1,5/16-ST-3,5	1863291	50	
Pitch 3.81 mm, color: Green			
MCVR 1,5/ 2-ST-3,81	1827127	50	
MCVR 1,5/ 3-ST-3,81	1827130	50	
MCVR 1,5/ 4-ST-3,81	1827143	50	
MCVR 1,5/ 5-ST-3,81	1827156	50	
MCVR 1,5/ 6-ST-3,81	1827169	50	
MCVR 1,5/ 7-ST-3,81	1827172	50	
MCVR 1,5/ 8-ST-3,81	1827185	50	
MCVR 1,5/ 9-ST-3,81	1827198	50	
MCVR 1,5/10-ST-3,81	1827208	50	
MCVR 1,5/11-ST-3,81	1827211	50	
MCVR 1,5/12-ST-3,81	1827224	50	
MCVR 1,5/13-ST-3,81	1827237	50	
MCVR 1,5/14-ST-3,81	1827240	50	
MCVR 1,5/15-ST-3,81	1827253	50	
MCVR 1,5/16-ST-3,81	1827266	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
MCVR 1,5/ 2-STF-3,5	1863301	50	
MCVR 1,5/ 3-STF-3,5	1863314	50	
MCVR 1,5/ 4-STF-3,5	1863327	50	
MCVR 1,5/ 5-STF-3,5	1863330	50	
MCVR 1,5/ 6-STF-3,5	1863343	50	
MCVR 1,5/ 7-STF-3,5	1863356	50	
MCVR 1,5/ 8-STF-3,5	1863369	50	
MCVR 1,5/ 9-STF-3,5	1863372	50	
MCVR 1,5/10-STF-3,5	1863385	50	
MCVR 1,5/11-STF-3,5	1863398	50	
MCVR 1,5/12-STF-3,5	1863408	50	
MCVR 1,5/13-STF-3,5	1863411	50	
MCVR 1,5/14-STF-3,5	1863424	50	
MCVR 1,5/15-STF-3,5	1863437	50	
MCVR 1,5/16-STF-3,5	1863440	50	
Pitch 3.81 mm, color: Green			
MCVR 1,5/ 2-STF-3,81	1828346	50	
MCVR 1,5/ 3-STF-3,81	1828359	50	
MCVR 1,5/ 4-STF-3,81	1828362	50	
MCVR 1,5/ 5-STF-3,81	1828375	50	
MCVR 1,5/ 6-STF-3,81	1828388	50	
MCVR 1,5/ 7-STF-3,81	1828391	50	
MCVR 1,5/ 8-STF-3,81	1828401	50	
MCVR 1,5/ 9-STF-3,81	1828414	50	
MCVR 1,5/10-STF-3,81	1828427	50	
MCVR 1,5/11-STF-3,81	1828430	50	
MCVR 1,5/12-STF-3,81	1828443	50	
MCVR 1,5/13-STF-3,81	1828456	50	
MCVR 1,5/14-STF-3,81	1828469	50	
MCVR 1,5/15-STF-3,81	1828472	50	
MCVR 1,5/16-STF-3,81	1828485	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
MCVW 1,5/ 2-ST-3,5	1862852	50	
MCVW 1,5/ 3-ST-3,5	1862865	50	
MCVW 1,5/ 4-ST-3,5	1862878	50	
MCVW 1,5/ 5-ST-3,5	1862881	50	
MCVW 1,5/ 6-ST-3,5	1862894	50	
MCVW 1,5/ 7-ST-3,5	1862904	50	
MCVW 1,5/ 8-ST-3,5	1862917	50	
MCVW 1,5/ 9-ST-3,5	1862920	50	
MCVW 1,5/10-ST-3,5	1862933	50	
MCVW 1,5/11-ST-3,5	1862946	50	
MCVW 1,5/12-ST-3,5	1862959	50	
MCVW 1,5/13-ST-3,5	1862962	50	
MCVW 1,5/14-ST-3,5	1862975	50	
MCVW 1,5/15-ST-3,5	1862988	50	
MCVW 1,5/16-ST-3,5	1862991	50	
Pitch 3.81 mm, color: Green			
MCVW 1,5/ 2-ST-3,81	1828697	50	
MCVW 1,5/ 3-ST-3,81	1828692	50	
MCVW 1,5/ 4-ST-3,81	1828695	50	
MCVW 1,5/ 5-ST-3,81	1827004	50	
MCVW 1,5/ 6-ST-3,81	1827017	50	
MCVW 1,5/ 7-ST-3,81	1827020	50	
MCVW 1,5/ 8-ST-3,81	1827033	50	
MCVW 1,5/ 9-ST-3,81	1827046	50	
MCVW 1,5/10-ST-3,81	1827059	50	
MCVW 1,5/11-ST-3,81	1827062	50	
MCVW 1,5/12-ST-3,81	1827075	50	
MCVW 1,5/13-ST-3,81	1827088	50	
MCVW 1,5/14-ST-3,81	1827091	50	
MCVW 1,5/15-ST-3,81	1827101	50	
MCVW 1,5/16-ST-3,81	1827114	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
MCVW 1,5/ 2-STF-3,5	1863000	50	
MCVW 1,5/ 3-STF-3,5	1863013	50	
MCVW 1,5/ 4-STF-3,5	1863026	50	
MCVW 1,5/ 5-STF-3,5	1863039	50	
MCVW 1,5/ 6-STF-3,5	1863042	50	
MCVW 1,5/ 7-STF-3,5	1863055	50	
MCVW 1,5/ 8-STF-3,5	1863068	50	
MCVW 1,5/ 9-STF-3,5	1863071	50	
MCVW 1,5/10-STF-3,5	1863084	50	
MCVW 1,5/11-STF-3,5	1863097	50	
MCVW 1,5/12-STF-3,5	1863107	50	
MCVW 1,5/13-STF-3,5	1863110	50	
MCVW 1,5/14-STF-3,5	1863123	50	
MCVW 1,5/15-STF-3,5	1863136	50	
MCVW 1,5/16-STF-3,5	1863149	50	
Pitch 3.81 mm, color: Green			
MCVW 1,5/ 2-STF-3,81	1828498	50	
MCVW 1,5/ 3-STF-3,81	1828508	50	
MCVW 1,5/ 4-STF-3,81	1828511	50	
MCVW 1,5/ 5-STF-3,81	1828524	50	
MCVW 1,5/ 6-STF-3,81	1828537	50	
MCVW 1,5/ 7-STF-3,81	1828540	50	
MCVW 1,5/ 8-STF-3,81	1828553	50	
MCVW 1,5/ 9-STF-3,81	1828566	50	
MCVW 1,5/10-STF-3,81	1828579	50	
MCVW 1,5/11-STF-3,81	1828582	50	
MCVW 1,5/12-STF-3,81	1828595	50	
MCVW 1,5/13-STF-3,81	1828605	50	
MCVW 1,5/14-STF-3,81	1828618	50	
MCVW 1,5/15-STF-3,81	1828621	50	
MCVW 1,5/16-STF-3,81	1828634	50	

Connector with a screw connection



- Connectors with front screw connection
- Pitch: 3.81 mm
- Screwdriver axis parallel to the conductor axis
- Generously dimensioned wiring space
- Individual position keying by removing the keying tab and connecting the keying profile to the header
- Versions with and without a screw flange
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

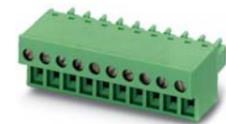
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

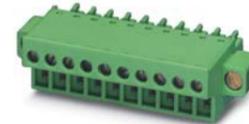
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

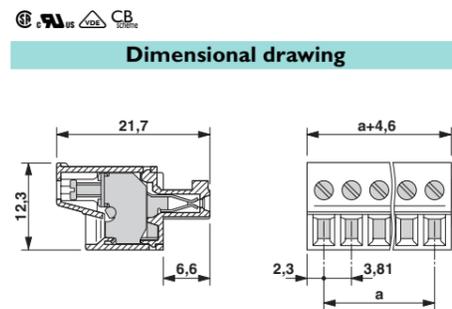


With front screw connection



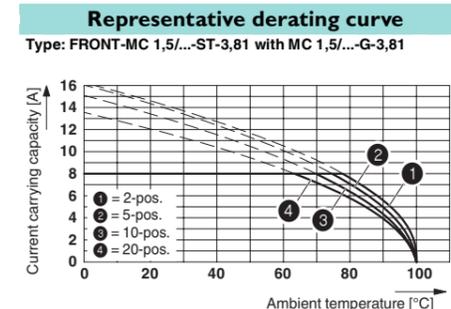
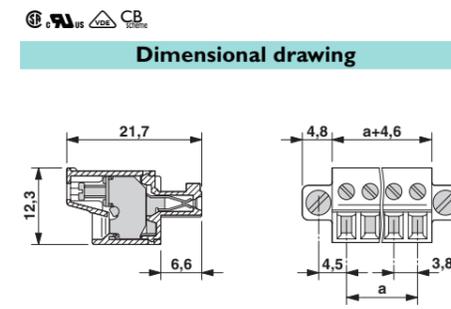
With front screw connection and screw flange

Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Insertion bridge EBPL...-3,81	829



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 8 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.81
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.14 - 1.5 / 0.14 - 1.5 / 28 - 16
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1.5
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 0.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.14 - 0.5 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 0.34
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 0.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 320
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	30 - 16 - 30 - 16
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	28 - 16 - 28 - 16
General data	
Stripping length	[mm] 9
Screw thread	M2
Tightening torque	[Nm] 0.22 - 0.25
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.18

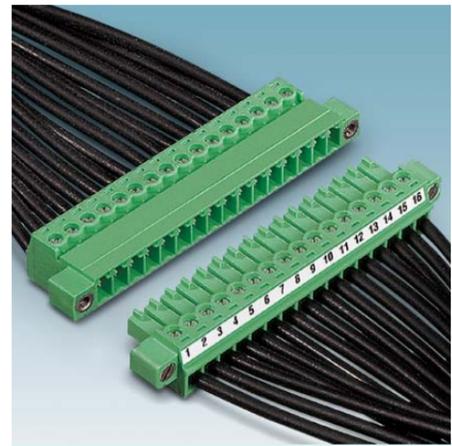
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
FRONT-MC 1,5/ 2-ST-3,81	1850660	50
FRONT-MC 1,5/ 3-ST-3,81	1850673	50
FRONT-MC 1,5/ 4-ST-3,81	1850686	50
FRONT-MC 1,5/ 5-ST-3,81	1850699	50
FRONT-MC 1,5/ 6-ST-3,81	1850709	50
FRONT-MC 1,5/ 7-ST-3,81	1850712	50
FRONT-MC 1,5/ 8-ST-3,81	1850725	50
FRONT-MC 1,5/ 9-ST-3,81	1850738	50
FRONT-MC 1,5/10-ST-3,81	1850741	50
FRONT-MC 1,5/11-ST-3,81	1850754	50
FRONT-MC 1,5/12-ST-3,81	1850767	50
FRONT-MC 1,5/13-ST-3,81	1850770	50
FRONT-MC 1,5/14-ST-3,81	1850783	50
FRONT-MC 1,5/15-ST-3,81	1850796	50
FRONT-MC 1,5/16-ST-3,81	1850806	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
FRONT-MC 1,5/ 2-STF-3,81	1850851	50
FRONT-MC 1,5/ 3-STF-3,81	1850864	50
FRONT-MC 1,5/ 4-STF-3,81	1850877	50
FRONT-MC 1,5/ 5-STF-3,81	1850880	50
FRONT-MC 1,5/ 6-STF-3,81	1850893	50
FRONT-MC 1,5/ 7-STF-3,81	1850903	50
FRONT-MC 1,5/ 8-STF-3,81	1850916	50
FRONT-MC 1,5/ 9-STF-3,81	1850929	50
FRONT-MC 1,5/10-STF-3,81	1850932	50
FRONT-MC 1,5/11-STF-3,81	1850945	50
FRONT-MC 1,5/12-STF-3,81	1850958	50
FRONT-MC 1,5/13-STF-3,81	1850961	50
FRONT-MC 1,5/14-STF-3,81	1850974	50
FRONT-MC 1,5/15-STF-3,81	1850987	50
FRONT-MC 1,5/16-STF-3,81	1850990	50

Inverted connectors with a screw connection



- Use in contact protected applications
- Combination options with MC 1,5 connectors for free hanging connections
- Pitch: 3.81 mm
- Combination options with IMC headers for a clear separation of PCB inputs/outputs
- Individual position coding by connecting the keying profile to the inverted connector and by removing the keying tab on the counterpart
- Versions with and without a threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

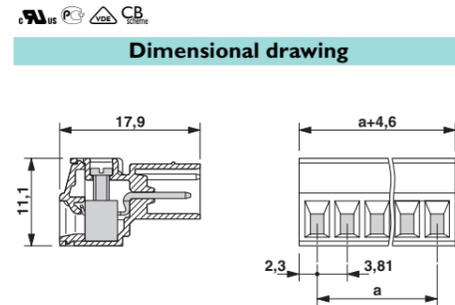


Inverted connector with screw connection



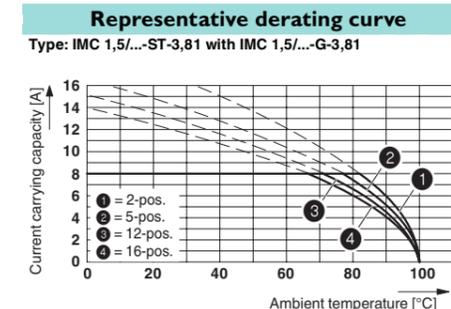
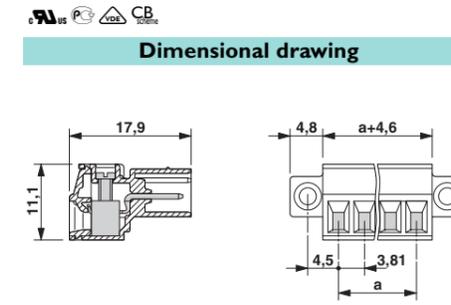
With threaded flange for screw connection with MC connectors

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Marker cards SK 3,81/2,8	797
	Insertion bridge EBPL...-3,81	829



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16
Solid / stranded [mm ²]	0.25 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.5
Stranded with ferrules with plastic sleeve [mm ²]	
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.08 - 0.5 / 0.08 - 0.75
Solid / stranded [mm ²]	0.2 - 0.34
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 0.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	30 - 14 - 30 - 14
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Screw thread	M2
Tightening torque [Nm]	0.22 - 0.25
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16
Solid / stranded [mm ²]	0.25 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.5
Stranded with ferrules with plastic sleeve [mm ²]	
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.08 - 0.5 / 0.08 - 0.75
Solid / stranded [mm ²]	0.2 - 0.34
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 0.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	30 - 14 - 30 - 14
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Screw thread	M2
Tightening torque [Nm]	0.22 - 0.25
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

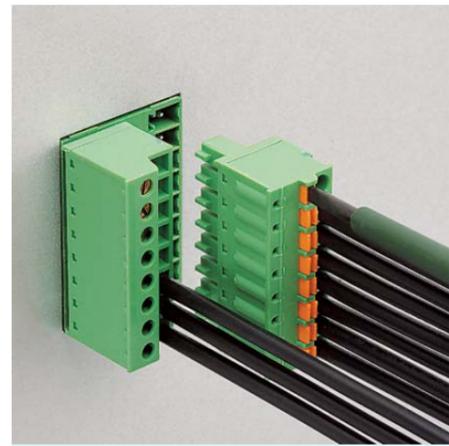
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: Green			
IMC 1,5/ 2-ST-3,81	1857883	50	
IMC 1,5/ 3-ST-3,81	1857896	50	
IMC 1,5/ 4-ST-3,81	1857906	50	
IMC 1,5/ 5-ST-3,81	1857919	50	
IMC 1,5/ 6-ST-3,81	1857922	50	
IMC 1,5/ 7-ST-3,81	1857935	50	
IMC 1,5/ 8-ST-3,81	1857948	50	
IMC 1,5/ 9-ST-3,81	1857951	50	
IMC 1,5/10-ST-3,81	1857964	50	
IMC 1,5/11-ST-3,81	1857977	50	
IMC 1,5/12-ST-3,81	1857980	50	
IMC 1,5/13-ST-3,81	1857993	50	
IMC 1,5/14-ST-3,81	1858002	50	
IMC 1,5/15-ST-3,81	1858015	50	
IMC 1,5/16-ST-3,81	1858028	50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
IMC 1,5/ 2-STGF-3,81	1858031	50
IMC 1,5/ 3-STGF-3,81	1858044	50
IMC 1,5/ 4-STGF-3,81	1858057	50
IMC 1,5/ 5-STGF-3,81	1858060	50
IMC 1,5/ 6-STGF-3,81	1858073	50
IMC 1,5/ 7-STGF-3,81	1858086	50
IMC 1,5/ 8-STGF-3,81	1858099	50
IMC 1,5/ 9-STGF-3,81	1858109	50
IMC 1,5/10-STGF-3,81	1858112	50
IMC 1,5/11-STGF-3,81	1858125	50
IMC 1,5/12-STGF-3,81	1858138	50
IMC 1,5/13-STGF-3,81	1858141	50
IMC 1,5/14-STGF-3,81	1858154	50
IMC 1,5/15-STGF-3,81	1858167	50
IMC 1,5/16-STGF-3,81	1858170	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Plug with push-in spring connection



- Different combination options with MC headers with a 3.5/3.81 pitch
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Test connection to accommodate 1.2 mm Ø test pins or 1 mm Ø test connectors
- Versions with and without a screw flange
- Versions with Lock & Release system
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

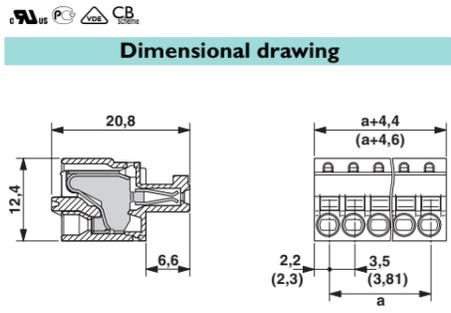
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

2) Use of ferrules with stripping length $L_2 = 10$ mm

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS-MT 1-S Order No. 1944372	831



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

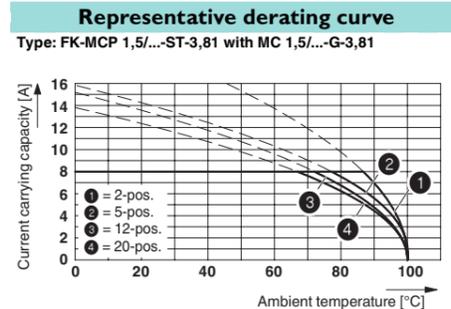
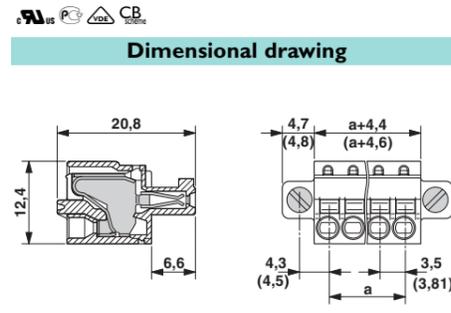
Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
FK-MCP 1,5/ 2-ST-3,5	1939918	50	
FK-MCP 1,5/ 3-ST-3,5	1939921	50	
FK-MCP 1,5/ 4-ST-3,5	1939934	50	
FK-MCP 1,5/ 5-ST-3,5	1939947	50	
FK-MCP 1,5/ 6-ST-3,5	1939950	50	
FK-MCP 1,5/ 7-ST-3,5	1939960	50	
FK-MCP 1,5/ 8-ST-3,5	1939963	50	
FK-MCP 1,5/ 9-ST-3,5	1939976	50	
FK-MCP 1,5/10-ST-3,5	1939989	50	
FK-MCP 1,5/11-ST-3,5	1939992	50	
FK-MCP 1,5/12-ST-3,5	1940004	50	
FK-MCP 1,5/13-ST-3,5	1940017	50	
FK-MCP 1,5/14-ST-3,5	1940020	50	
FK-MCP 1,5/15-ST-3,5	1940033	50	
FK-MCP 1,5/16-ST-3,5	1940046	50	
Pitch 3.81 mm, color: Green			
FK-MCP 1,5/ 2-ST-3,81	1851041	50	
FK-MCP 1,5/ 3-ST-3,81	1851054	50	
FK-MCP 1,5/ 4-ST-3,81	1851067	50	
FK-MCP 1,5/ 5-ST-3,81	1851070	50	
FK-MCP 1,5/ 6-ST-3,81	1851083	50	
FK-MCP 1,5/ 7-ST-3,81	1851096	50	
FK-MCP 1,5/ 8-ST-3,81	1851106	50	
FK-MCP 1,5/ 9-ST-3,81	1851119	50	
FK-MCP 1,5/10-ST-3,81	1851122	50	
FK-MCP 1,5/11-ST-3,81	1851135	50	
FK-MCP 1,5/12-ST-3,81	1851148	50	
FK-MCP 1,5/13-ST-3,81	1851151	50	
FK-MCP 1,5/14-ST-3,81	1851164	50	
FK-MCP 1,5/15-ST-3,81	1851177	50	
FK-MCP 1,5/16-ST-3,81	1851180	50	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

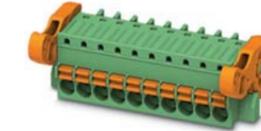
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



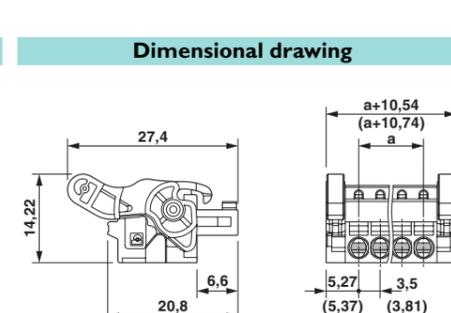
With screw flange



Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
FK-MCP 1,5/ 2-STF-3,5	1940091	50	
FK-MCP 1,5/ 3-STF-3,5	1940101	50	
FK-MCP 1,5/ 4-STF-3,5	1940114	50	
FK-MCP 1,5/ 5-STF-3,5	1940127	50	
FK-MCP 1,5/ 6-STF-3,5	1940130	50	
FK-MCP 1,5/ 7-STF-3,5	1940143	50	
FK-MCP 1,5/ 8-STF-3,5	1940156	50	
FK-MCP 1,5/ 9-STF-3,5	1940169	50	
FK-MCP 1,5/10-STF-3,5	1940172	50	
FK-MCP 1,5/11-STF-3,5	1940185	50	
FK-MCP 1,5/12-STF-3,5	1940198	50	
FK-MCP 1,5/13-STF-3,5	1940208	50	
FK-MCP 1,5/14-STF-3,5	1940211	50	
FK-MCP 1,5/15-STF-3,5	1940224	50	
FK-MCP 1,5/16-STF-3,5	1940237	50	
Pitch 3.81 mm, color: Green			
FK-MCP 1,5/ 2-STF-3,81	1851232	50	
FK-MCP 1,5/ 3-STF-3,81	1851245	50	
FK-MCP 1,5/ 4-STF-3,81	1851258	50	
FK-MCP 1,5/ 5-STF-3,81	1851261	50	
FK-MCP 1,5/ 6-STF-3,81	1851274	50	
FK-MCP 1,5/ 7-STF-3,81	1851287	50	
FK-MCP 1,5/ 8-STF-3,81	1851290	50	
FK-MCP 1,5/ 9-STF-3,81	1851300	50	
FK-MCP 1,5/10-STF-3,81	1851313	50	
FK-MCP 1,5/11-STF-3,81	1851326	50	
FK-MCP 1,5/12-STF-3,81	1851339	50	
FK-MCP 1,5/13-STF-3,81	1851342	50	
FK-MCP 1,5/14-STF-3,81	1851355	50	
FK-MCP 1,5/15-STF-3,81	1851368	50	
FK-MCP 1,5/16-STF-3,81	1851371	50	



With Lock & Release system

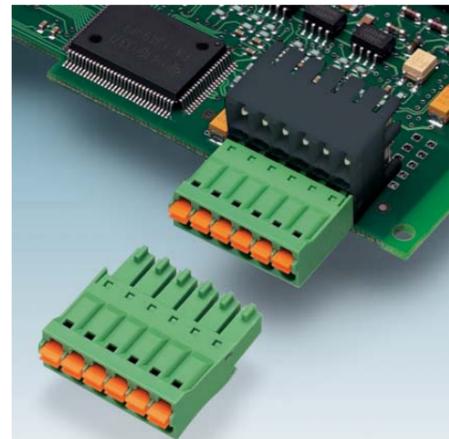


Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
FK-MCP 1,5/ 2-ST-3,5-LR	1817233	50	
FK-MCP 1,5/ 3-ST-3,5-LR	1817246	50	
FK-MCP 1,5/ 4-ST-3,5-LR	1817259	50	
FK-MCP 1,5/ 5-ST-3,5-LR	1817262	50	
FK-MCP 1,5/ 6-ST-3,5-LR	1817275	50	
FK-MCP 1,5/ 7-ST-3,5-LR	1817288	50	
FK-MCP 1,5/ 8-ST-3,5-LR	1817291	50	
FK-MCP 1,5/ 9-ST-3,5-LR	1817301	50	
FK-MCP 1,5/10-ST-3,5-LR	1817314	50	
FK-MCP 1,5/11-ST-3,5-LR	1817327	50	
FK-MCP 1,5/12-ST-3,5-LR	1817330	50	
FK-MCP 1,5/13-ST-3,5-LR	1817343	50	
FK-MCP 1,5/14-ST-3,5-LR	1817356	50	
FK-MCP 1,5/15-ST-3,5-LR	1817369	50	
FK-MCP 1,5/16-ST-3,5-LR	1817372	50	
Pitch 3.81 mm, color: Green			
FK-MCP 1,5/ 2-ST-3,81-LR	1817424	50	
FK-MCP 1,5/ 3-ST-3,81-LR	1817437	50	
FK-MCP 1,5/ 4-ST-3,81-LR	1817440	50	
FK-MCP 1,5/ 5-ST-3,81-LR	1817453	50	
FK-MCP 1,5/ 6-ST-3,81-LR	1817466	50	
FK-MCP 1,5/ 7-ST-3,81-LR	1817479	50	
FK-MCP 1,5/ 8-ST-3,81-LR	1817482	50	
FK-MCP 1,5/ 9-ST-3,81-LR	1817495	50	
FK-MCP 1,5/10-ST-3,81-LR	1817505	50	
FK-MCP 1,5/11-ST-3,81-LR	1817518	50	
FK-MCP 1,5/12-ST-3,81-LR	1817521	50	
FK-MCP 1,5/13-ST-3,81-LR	1817534	50	
FK-MCP 1,5/14-ST-3,81-LR	1817547	50	
FK-MCP 1,5/15-ST-3,81-LR	1817550	50	
FK-MCP 1,5/16-ST-3,81-LR	1817563	50	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Plug with push-in spring connection



- Extremely flat design, only 7.8 mm
- Different combination options with all MC 1,5 headers with a 3.5 mm pitch
- Maximum contact and packaging density in combination with double-level MCDN(V) 1,5 headers
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Touch connection for voltage testing using a 1 mm Ø test pin
- Versions with and without a screw flange or with a self-locking flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

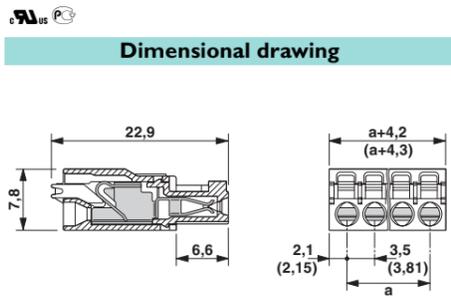
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

For larger numbers of positions up to 20-pos., visit www.phoenixcontact.net/products

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No. 1212034	



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

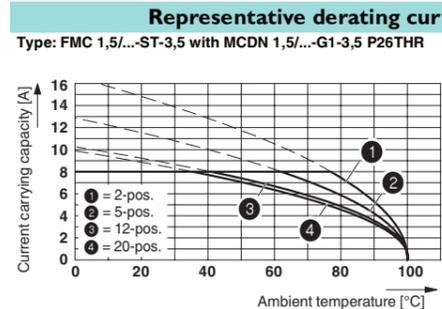
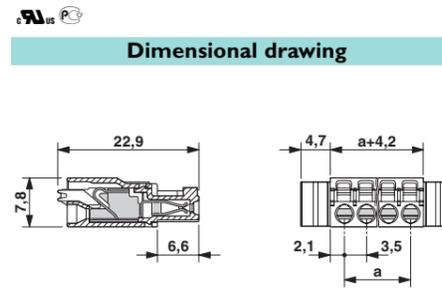
Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
FMC 1,5/ 2-ST-3,5	1952267	50	
FMC 1,5/ 3-ST-3,5	1952270	50	
FMC 1,5/ 4-ST-3,5	1952283	50	
FMC 1,5/ 5-ST-3,5	1952296	50	
FMC 1,5/ 6-ST-3,5	1952306	50	
FMC 1,5/ 7-ST-3,5	1952319	50	
FMC 1,5/ 8-ST-3,5	1952322	50	
FMC 1,5/ 9-ST-3,5	1952335	50	
FMC 1,5/10-ST-3,5	1952348	50	
FMC 1,5/11-ST-3,5	1952351	50	
FMC 1,5/12-ST-3,5	1952364	50	
FMC 1,5/13-ST-3,5	1952377	50	
FMC 1,5/14-ST-3,5	1952380	50	
FMC 1,5/15-ST-3,5	1952393	50	
FMC 1,5/16-ST-3,5	1952403	50	
Pitch 3.81 mm, color: Green			
FMC 1,5/ 2-ST-3,81	1745894	50	
FMC 1,5/ 3-ST-3,81	1745904	50	
FMC 1,5/ 4-ST-3,81	1745917	50	
FMC 1,5/ 5-ST-3,81	1745920	50	
FMC 1,5/ 6-ST-3,81	1748011	50	
FMC 1,5/ 7-ST-3,81	1748024	50	
FMC 1,5/ 8-ST-3,81	1748037	50	
FMC 1,5/ 9-ST-3,81	1748040	50	
FMC 1,5/10-ST-3,81	1748053	50	
FMC 1,5/11-ST-3,81	1748066	50	
FMC 1,5/12-ST-3,81	1748079	50	
FMC 1,5/13-ST-3,81	1748082	50	
FMC 1,5/14-ST-3,81	1748095	50	
FMC 1,5/15-ST-3,81	1748105	50	
FMC 1,5/16-ST-3,81	1748118	50	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



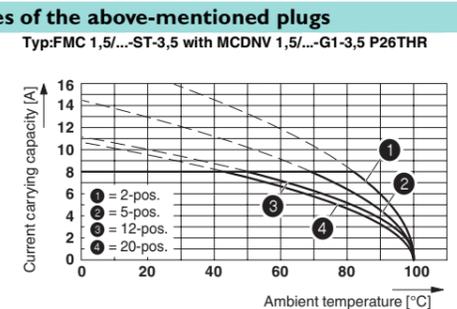
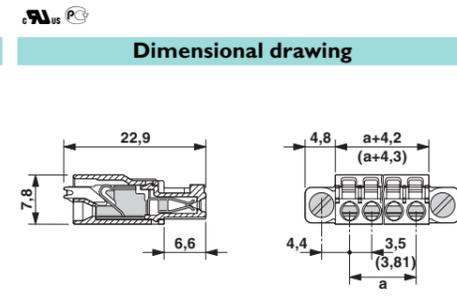
Connector with flat design with self-locking flange



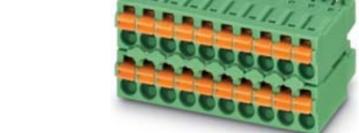
Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
FMC 1,5/ 2-ST-3,5-RF	1952021	50	
FMC 1,5/ 3-ST-3,5-RF	1952034	50	
FMC 1,5/ 4-ST-3,5-RF	1952047	50	
FMC 1,5/ 5-ST-3,5-RF	1952050	50	
FMC 1,5/ 6-ST-3,5-RF	1952063	50	
FMC 1,5/ 7-ST-3,5-RF	1952076	50	
FMC 1,5/ 8-ST-3,5-RF	1952089	50	
FMC 1,5/ 9-ST-3,5-RF	1952092	50	
FMC 1,5/10-ST-3,5-RF	1952102	50	
FMC 1,5/11-ST-3,5-RF	1952115	50	
FMC 1,5/12-ST-3,5-RF	1952128	50	
FMC 1,5/13-ST-3,5-RF	1952131	50	
FMC 1,5/14-ST-3,5-RF	1952144	50	
FMC 1,5/15-ST-3,5-RF	1952157	50	
FMC 1,5/16-ST-3,5-RF	1952160	50	



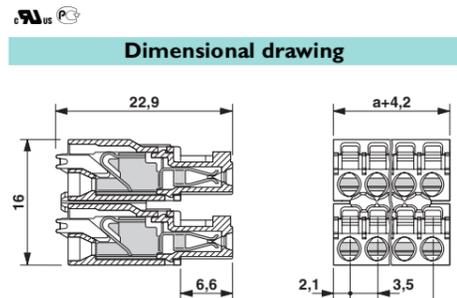
Connector with flat design with screw flange



Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
FMC 1,5/ 2-STF-3,5	1966091	50	
FMC 1,5/ 3-STF-3,5	1966101	50	
FMC 1,5/ 4-STF-3,5	1966114	50	
FMC 1,5/ 5-STF-3,5	1966127	50	
FMC 1,5/ 6-STF-3,5	1966130	50	
FMC 1,5/ 7-STF-3,5	1966143	50	
FMC 1,5/ 8-STF-3,5	1966156	50	
FMC 1,5/ 9-STF-3,5	1966169	50	
FMC 1,5/10-STF-3,5	1966172	50	
FMC 1,5/11-STF-3,5	1966185	50	
FMC 1,5/12-STF-3,5	1966198	50	
FMC 1,5/13-STF-3,5	1966208	50	
FMC 1,5/14-STF-3,5	1966211	50	
FMC 1,5/15-STF-3,5	1966224	50	
FMC 1,5/16-STF-3,5	1966237	50	
Pitch 3.81 mm, color: Green			
FMC 1,5/ 2-STF-3,81	1748354	50	
FMC 1,5/ 3-STF-3,81	1748367	50	
FMC 1,5/ 4-STF-3,81	1748370	50	
FMC 1,5/ 5-STF-3,81	1748383	50	
FMC 1,5/ 6-STF-3,81	1748396	50	
FMC 1,5/ 7-STF-3,81	1748406	50	
FMC 1,5/ 8-STF-3,81	1748419	50	
FMC 1,5/ 9-STF-3,81	1748422	50	
FMC 1,5/10-STF-3,81	1748435	50	
FMC 1,5/11-STF-3,81	1748448	50	
FMC 1,5/12-STF-3,81	1748451	50	
FMC 1,5/13-STF-3,81	1748464	50	
FMC 1,5/14-STF-3,81	1748477	50	
FMC 1,5/15-STF-3,81	1748480	50	
FMC 1,5/16-STF-3,81	1748493	50	

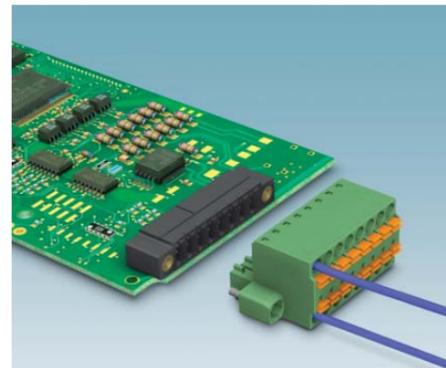


Double-row connector with flat design



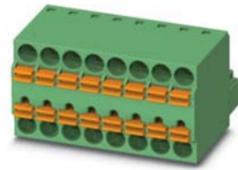
Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
FMCD 1,5/ 3-ST-3,5	1738814	50	
FMCD 1,5/ 4-ST-3,5	1738827	50	
FMCD 1,5/ 5-ST-3,5	1738830	50	
FMCD 1,5/ 6-ST-3,5	1738843	50	
FMCD 1,5/ 7-ST-3,5	1738856	50	
FMCD 1,5/ 8-ST-3,5	1738869	50	
FMCD 1,5/ 9-ST-3,5	1738872	50	
FMCD 1,5/10-ST-3,5	1738885	50	
FMCD 1,5/11-ST-3,5	1738898	50	
FMCD 1,5/12-ST-3,5	1738910	50	
FMCD 1,5/13-ST-3,5	1738911	50	
FMCD 1,5/14-ST-3,5	1738924	50	
FMCD 1,5/15-ST-3,5	1738937	50	
FMCD 1,5/16-ST-3,5	1738940	50	

Plug with push-in spring connection

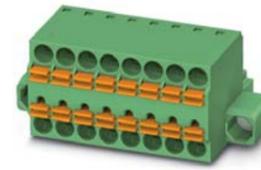


- Very compact front TWIN connection for 1.5 mm²
- Signal distribution up to 8 A directly on device
- Fast conductor connection, thanks to push-in spring connection
- Two connections per position
- Touch connection for voltage testing using a 1 mm Ø test pin
- Versions with and without a screw flange

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.
 The maximum torque for the screw flange is 0.3 Nm.

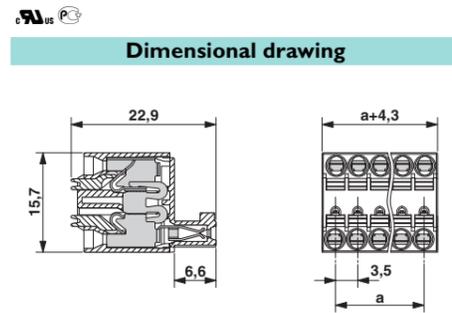


With two connections per position

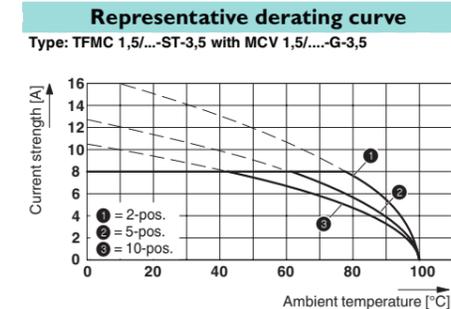
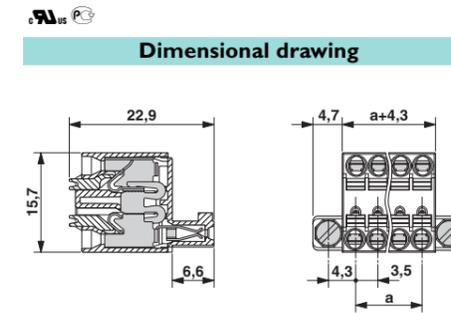


With screw flange

Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 1.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 / 1.5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.5
Connection capacity [mm ²] / [mm ²] / AWG	0.25 - 1.5 / 0.25 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 0.75
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	-
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - -
Nominal current [A]	8 - -
Connection capacity AWG	24 - 16 - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50

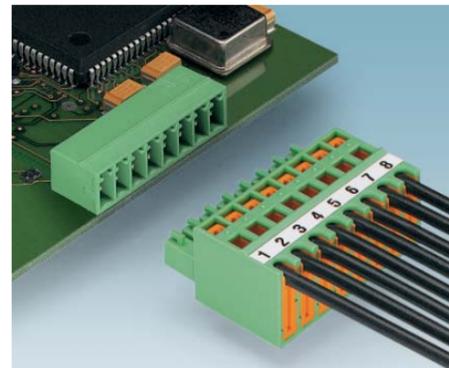
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
TFMC 1,5/ 2-ST-3,5	1772618	50
TFMC 1,5/ 3-ST-3,5	1772621	50
TFMC 1,5/ 4-ST-3,5	1772634	50
TFMC 1,5/ 5-ST-3,5	1772647	50
TFMC 1,5/ 6-ST-3,5	1772650	50
TFMC 1,5/ 7-ST-3,5	1772663	50
TFMC 1,5/ 8-ST-3,5	1772676	50
TFMC 1,5/ 9-ST-3,5	1772689	50
TFMC 1,5/10-ST-3,5	1772692	50

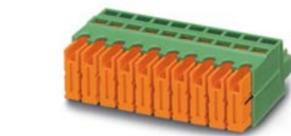
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
TFMC 1,5/ 2-STF-3,5	1772702	50
TFMC 1,5/ 3-STF-3,5	1772715	50
TFMC 1,5/ 4-STF-3,5	1772728	50
TFMC 1,5/ 5-STF-3,5	1772731	50
TFMC 1,5/ 6-STF-3,5	1772744	50
TFMC 1,5/ 7-STF-3,5	1772757	50
TFMC 1,5/ 8-STF-3,5	1772760	50
TFMC 1,5/ 9-STF-3,5	1772773	50
TFMC 1,5/10-STF-3,5	1772786	50

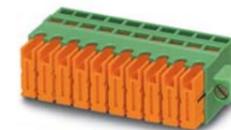
Plug with displacement connection



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.



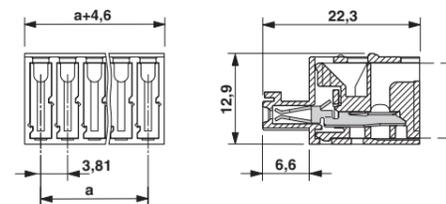
Plug with displacement connection



With screw flange



Dimensional drawing

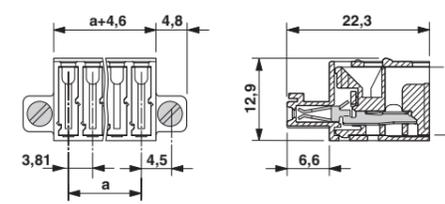


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 0.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

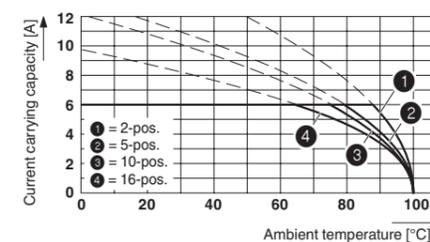


Dimensional drawing



Representative derating curve

Type: QC 0,5/...-ST-3,81 with MC 1,5/...-G-3,81



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	6 ¹⁾ / 0,5
Rated insulation voltage for pollution degree 2 [V]	200
Pitch [mm]	3.81
Connection capacity [mm ²] / [mm ²] / AWG	- / 0.34 - 0.5 / 22 - 20
Solid / stranded [mm ²]	-
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	-
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	200 200 400
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 300 -
Nominal current [A]	6 6 -
Connection capacity AWG	24 - 20 24 - 20 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Accessories

For all types	Type	Page
	Marker cards SK 3,81/2,8	797
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green				
2	3.81	QC 0,5/ 2-ST-3,81	1897393	50
3	7.62	QC 0,5/ 3-ST-3,81	1897403	50
4	11.43	QC 0,5/ 4-ST-3,81	1897416	50
5	15.24	QC 0,5/ 5-ST-3,81	1897429	50
6	19.05	QC 0,5/ 6-ST-3,81	1897432	50
7	22.86	QC 0,5/ 7-ST-3,81	1897445	50
8	26.67	QC 0,5/ 8-ST-3,81	1897458	50
9	30.48	QC 0,5/ 9-ST-3,81	1897461	50
10	34.29	QC 0,5/10-ST-3,81	1897474	50
11	38.10	QC 0,5/11-ST-3,81	1897487	50
12	41.91	QC 0,5/12-ST-3,81	1897490	50
13	45.72	QC 0,5/13-ST-3,81	1897500	50
14	49.53	QC 0,5/14-ST-3,81	1897513	50
15	53.34	QC 0,5/15-ST-3,81	1897526	50
16	57.15	QC 0,5/16-ST-3,81	1897539	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
QC 0,5/ 2-STF-3,81	1897542	50
QC 0,5/ 3-STF-3,81	1897555	50
QC 0,5/ 4-STF-3,81	1897568	50
QC 0,5/ 5-STF-3,81	1897571	50
QC 0,5/ 6-STF-3,81	1897584	50
QC 0,5/ 7-STF-3,81	1897597	50
QC 0,5/ 8-STF-3,81	1897607	50
QC 0,5/ 9-STF-3,81	1897610	50
QC 0,5/10-STF-3,81	1897623	50
QC 0,5/11-STF-3,81	1897636	50
QC 0,5/12-STF-3,81	1897649	50
QC 0,5/13-STF-3,81	1897652	50
QC 0,5/14-STF-3,81	1897665	50
QC 0,5/15-STF-3,81	1897678	50
QC 0,5/16-STF-3,81	1897681	50

Connectors with crimp connection



- Flat design of the MCC 1 connector range
- Versions with and without a screw flange
- With snap-lock option for pullout aid
- Can be combined with MC 1,5 base strips and IMC 1,5 connectors
- Two different crimp contacts can be used:

MCC-MT 0,2 -0,35
- for conductor cross sections of 0.2 to 0.34 mm² (AWG 24-22) and currents of 4 to 5 A

MCC-MT 0,5-1,0
- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of 6 to 8 A

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

For larger numbers of positions up to 20-pos. and additional technical data, visit www.phoenixcontact.com.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



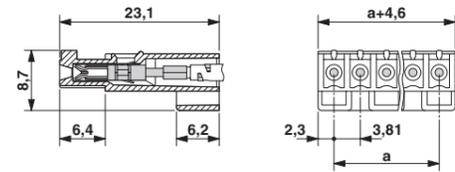
Connectors with crimp connection



With screw flange

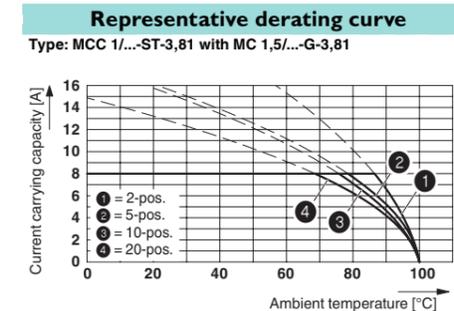
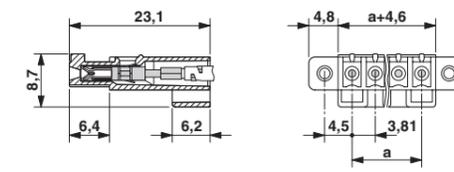
Accessories		
For all types	Type	Page
	Module female contact MCC-MT...	827
	Pullout aid STZ...-PCC 4-7,62	828
	Crimping pliers for 0.14 to 1.5 mm ² CRIMPFOX-1,6-ER-1,50-GH Order No. 1772793	
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	

Dimensional drawing



Note derating curves
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 ¹⁾ / 1
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	- / 0.2 - 1 / 24 - 18
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	20 - 18 - 20 - 18
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

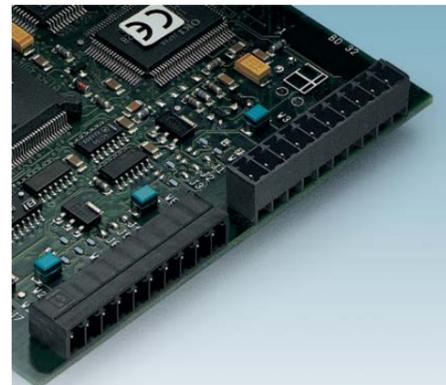
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: Green			
MCC 1/2-STZ-3,81	1852176	50	
MCC 1/3-STZ-3,81	1852189	50	
MCC 1/4-STZ-3,81	1852192	50	
MCC 1/5-STZ-3,81	1852202	50	
MCC 1/6-STZ-3,81	1852215	50	
MCC 1/7-STZ-3,81	1852228	50	
MCC 1/8-STZ-3,81	1852231	50	
MCC 1/9-STZ-3,81	1852244	50	
MCC 1/10-STZ-3,81	1852257	50	
MCC 1/11-STZ-3,81	1852260	50	
MCC 1/12-STZ-3,81	1852273	50	
MCC 1/13-STZ-3,81	1852286	50	
MCC 1/14-STZ-3,81	1852299	50	
MCC 1/15-STZ-3,81	1852309	50	
MCC 1/16-STZ-3,81	1852312	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: Green			
MCC 1/2-STZF-3,81	1852367	50	
MCC 1/3-STZF-3,81	1852370	50	
MCC 1/4-STZF-3,81	1852383	50	
MCC 1/5-STZF-3,81	1852396	50	
MCC 1/6-STZF-3,81	1852406	50	
MCC 1/7-STZF-3,81	1852419	50	
MCC 1/8-STZF-3,81	1852422	50	
MCC 1/9-STZF-3,81	1852435	50	
MCC 1/10-STZF-3,81	1852448	50	
MCC 1/11-STZF-3,81	1852451	50	
MCC 1/12-STZF-3,81	1852464	50	
MCC 1/13-STZF-3,81	1852477	50	
MCC 1/14-STZF-3,81	1852480	50	
MCC 1/15-STZF-3,81	1852493	50	
MCC 1/16-STZF-3,81	1852503	50	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for reflow processes



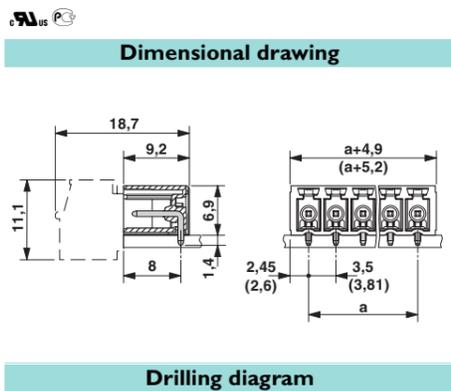
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.
 CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 1.4 mm pin, no overhang in 1.6 mm PCBs for two-sided mounting
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

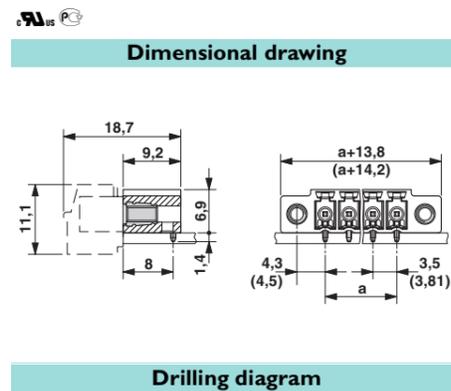
Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,81/2,8	797

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MC 1,5/ 2-G-3,5 P14 THRR32	1788958 470
MC 1,5/ 3-G-3,5 P14 THRR32	1788974 470
MC 1,5/ 4-G-3,5 P14 THRR32	1788990 470
MC 1,5/ 5-G-3,5 P14 THRR56	1789012 470
MC 1,5/ 6-G-3,5 P14 THRR56	1789038 470
MC 1,5/ 7-G-3,5 P14 THRR56	1789054 470
MC 1,5/ 8-G-3,5 P14 THRR56	1789070 470
MC 1,5/ 9-G-3,5 P14 THRR56	1789096 470
MC 1,5/10-G-3,5 P14 THRR56	1789119 470
MC 1,5/11-G-3,5 P14 THRR56	1789135 470
MC 1,5/12-G-3,5 P14 THRR72	1789151 380
3.81 mm pitch, color: Black	
MC 1,5/ 2-G-3,81 P14 THRR32	1722095 470
MC 1,5/ 3-G-3,81 P14 THRR32	1722105 470
MC 1,5/ 4-G-3,81 P14 THRR32	1722118 470
MC 1,5/ 5-G-3,81 P14 THRR56	1702662 470
MC 1,5/ 6-G-3,81 P14 THRR56	1702663 470
MC 1,5/ 7-G-3,81 P14 THRR56	1702664 470
MC 1,5/ 8-G-3,81 P14 THRR56	1702665 470
MC 1,5/ 9-G-3,81 P14 THRR56	1702666 470
MC 1,5/10-G-3,81 P14 THRR56	1702667 470
MC 1,5/11-G-3,81 P14 THRR56	1702668 470
MC 1,5/12-G-3,81 P14 THRR72	1702669 380



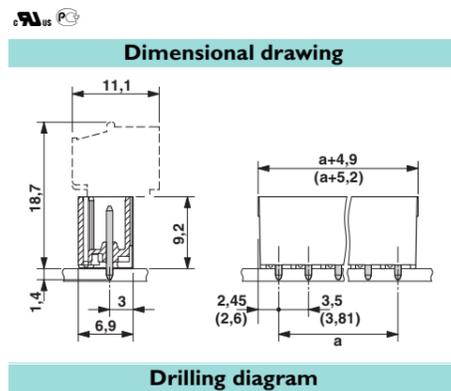
Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MC 1,5/ 2-GF-3,5 P14 THRR32	1789614 470
MC 1,5/ 3-GF-3,5 P14 THRR56	1789630 470
MC 1,5/ 4-GF-3,5 P14 THRR56	1789656 470
MC 1,5/ 5-GF-3,5 P14 THRR56	1789672 470
MC 1,5/ 6-GF-3,5 P14 THRR56	1789698 470
MC 1,5/ 7-GF-3,5 P14 THRR56	1789711 470
MC 1,5/ 8-GF-3,5 P14 THRR56	1789737 470
MC 1,5/ 9-GF-3,5 P14 THRR72	1789753 470
MC 1,5/10-GF-3,5 P14 THRR72	1789779 380
MC 1,5/11-GF-3,5 P14 THRR72	1789795 380
MC 1,5/12-GF-3,5 P14 THRR72	1789818 380
3.81 mm pitch, color: Black	
MC 1,5/ 2-GF-3,81 P14 THRR32	1782132 470
MC 1,5/ 3-GF-3,81 P14 THRR56	1782145 470
MC 1,5/ 4-GF-3,81 P14 THRR56	1782158 470
MC 1,5/ 5-GF-3,81 P14 THRR56	1782161 470
MC 1,5/ 6-GF-3,81 P14 THRR56	1782174 470
MC 1,5/ 7-GF-3,81 P14 THRR56	1782187 470
MC 1,5/ 8-GF-3,81 P14 THRR56	1782190 470
MC 1,5/ 9-GF-3,81 P14 THRR72	1782200 470
MC 1,5/10-GF-3,81 P14 THRR72	1782213 380
MC 1,5/11-GF-3,81 P14 THRR72	1782226 380
MC 1,5/12-GF-3,81 P14 THRR72	1782239 380



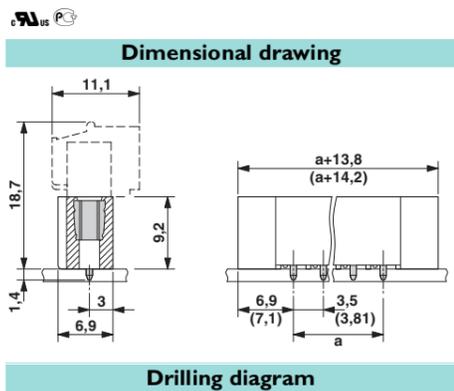
Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCV 1,5/ 2-G-3,5 P14 THRR32	1780202 200
MCV 1,5/ 3-G-3,5 P14 THRR32	1780228 200
MCV 1,5/ 4-G-3,5 P14 THRR32	1780244 200
MCV 1,5/ 5-G-3,5 P14 THRR56	1780260 200
MCV 1,5/ 6-G-3,5 P14 THRR56	1780286 200
MCV 1,5/ 7-G-3,5 P14 THRR56	1780309 200
MCV 1,5/ 8-G-3,5 P14 THRR56	1780325 200
MCV 1,5/ 9-G-3,5 P14 THRR56	1780341 200
MCV 1,5/10-G-3,5 P14 THRR56	1780367 200
MCV 1,5/11-G-3,5 P14 THRR56	1780383 200
MCV 1,5/12-G-3,5 P14 THRR72	1780406 180
3.81 mm pitch, color: Black	
MCV 1,5/ 2-G-3,81 P14 THRR32	1755473 200
MCV 1,5/ 3-G-3,81 P14 THRR32	1728374 200
MCV 1,5/ 4-G-3,81 P14 THRR32	1728387 200
MCV 1,5/ 8-G-3,81 P14 THRR56	1754526 200
MCV 1,5/10-G-3,81 P14 THRR56	1754539 200
MCV 1,5/10-GF-3,81 P14 THRR72	1763931 140

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCV 1,5/ 2-GF-3,5 P14 THRR32	1779941 200
MCV 1,5/ 3-GF-3,5 P14 THRR56	1779967 200
MCV 1,5/ 4-GF-3,5 P14 THRR56	1779983 200
MCV 1,5/ 5-GF-3,5 P14 THRR56	1780008 200
MCV 1,5/ 6-GF-3,5 P14 THRR56	1780024 200
MCV 1,5/ 7-GF-3,5 P14 THRR56	1780040 200
MCV 1,5/ 8-GF-3,5 P14 THRR56	1780066 200
MCV 1,5/ 9-GF-3,5 P14 THRR56	1780082 200
MCV 1,5/10-GF-3,5 P14 THRR72	1780105 180
MCV 1,5/11-GF-3,5 P14 THRR72	1780147 180
MCV 1,5/12-GF-3,5 P14 THRR72	1780189 180



Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCV 1,5/ 2-G-3,81 P14 THRR32	1755473 200
MCV 1,5/ 3-G-3,81 P14 THRR32	1728374 200
MCV 1,5/ 4-G-3,81 P14 THRR32	1728387 200
MCV 1,5/ 8-G-3,81 P14 THRR56	1754526 200
MCV 1,5/10-G-3,81 P14 THRR56	1754539 200
MCV 1,5/10-GF-3,81 P14 THRR72	1763931 140

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 2.0 mm pin for reduced overhang in 1.6 mm PCBs
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

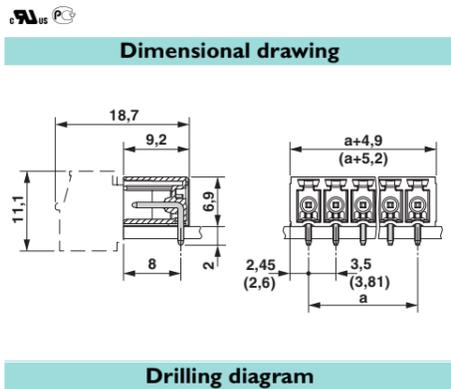
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

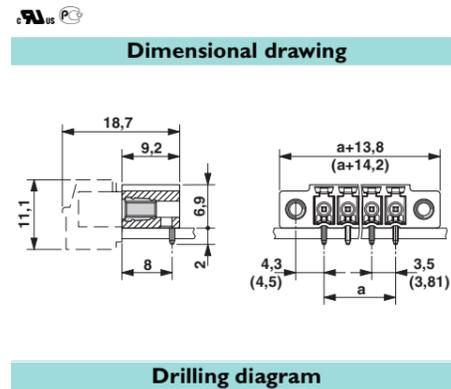
CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797



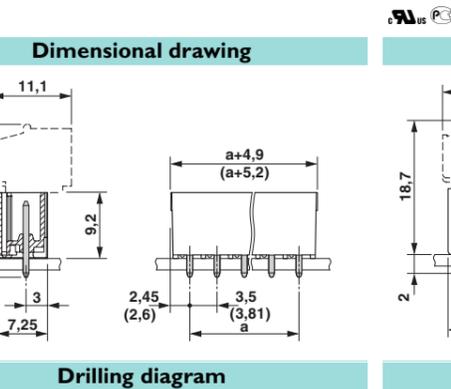
Ordering data				
Type	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
MC 1,5/ 2-G-3,5 P20 THRR32	1788738	470	No. of pos.	Dim. a [mm]
MC 1,5/ 3-G-3,5 P20 THRR32	1788754	470	2	3.50
MC 1,5/ 4-G-3,5 P20 THRR32	1788770	470	3	7.00
MC 1,5/ 5-G-3,5 P20 THRR56	1788796	470	4	10.50
MC 1,5/ 6-G-3,5 P20 THRR56	1788819	470	5	14.00
MC 1,5/ 7-G-3,5 P20 THRR56	1788835	470	6	17.50
MC 1,5/ 8-G-3,5 P20 THRR56	1788851	470	7	21.00
MC 1,5/ 9-G-3,5 P20 THRR56	1788877	470	8	24.50
MC 1,5/ 10-G-3,5 P20 THRR56	1788893	470	9	28.00
MC 1,5/ 11-G-3,5 P20 THRR56	1788916	470	10	31.50
MC 1,5/ 12-G-3,5 P20 THRR72	1788932	380	11	35.00
3.81 mm pitch, color: Black				
MC 1,5/ 2-G-3,81 P20 THRR32	1782572	470	12	38.50
MC 1,5/ 3-G-3,81 P20 THRR32	1782585	470	2	3.81
MC 1,5/ 4-G-3,81 P20 THRR32	1782598	470	3	7.62
MC 1,5/ 5-G-3,81 P20 THRR56	1782608	470	4	11.43
MC 1,5/ 6-G-3,81 P20 THRR56	1782611	470	5	15.24
MC 1,5/ 7-G-3,81 P20 THRR56	1782624	470	6	19.05
MC 1,5/ 8-G-3,81 P20 THRR56	1782637	470	7	22.86
MC 1,5/ 9-G-3,81 P20 THRR56	1782640	470	8	26.67
MC 1,5/ 10-G-3,81 P20 THRR56	1782653	470	9	30.48
MC 1,5/ 11-G-3,81 P20 THRR56	1782666	470	10	34.29
MC 1,5/ 12-G-3,81 P20 THRR72	1782679	380	11	38.10
			12	41.91



Ordering data				
Type	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
MC 1,5/ 2-GF-3,5 P20 THRR32	1789397	470	Type	Order No.
MC 1,5/ 3-GF-3,5 P20 THRR56	1789410	470	MCV 1,5/ 2-G-3,5 P20 THRR32	1780888
MC 1,5/ 4-GF-3,5 P20 THRR56	1789436	470	MCV 1,5/ 3-G-3,5 P20 THRR32	1780901
MC 1,5/ 5-GF-3,5 P20 THRR56	1789452	470	MCV 1,5/ 4-G-3,5 P20 THRR32	1780927
MC 1,5/ 6-GF-3,5 P20 THRR56	1789478	470	MCV 1,5/ 5-G-3,5 P20 THRR56	1780943
MC 1,5/ 7-GF-3,5 P20 THRR56	1789494	470	MCV 1,5/ 6-G-3,5 P20 THRR56	1780969
MC 1,5/ 8-GF-3,5 P20 THRR56	1789517	470	MCV 1,5/ 7-G-3,5 P20 THRR56	1780985
MC 1,5/ 9-GF-3,5 P20 THRR72	1789533	470	MCV 1,5/ 8-G-3,5 P20 THRR56	1781007
MC 1,5/ 10-GF-3,5 P20 THRR72	1789559	380	MCV 1,5/ 9-G-3,5 P20 THRR56	1781023
MC 1,5/ 11-GF-3,5 P20 THRR72	1789575	380	MCV 1,5/ 10-G-3,5 P20 THRR56	1781049
MC 1,5/ 12-GF-3,5 P20 THRR72	1789591	380	MCV 1,5/ 11-G-3,5 P20 THRR56	1781065
3.81 mm pitch, color: Black				
MC 1,5/ 2-GF-3,81 P20 THRR32	1782022	470	MCV 1,5/ 12-G-3,5 P20 THRR72	1781081
MC 1,5/ 3-GF-3,81 P20 THRR56	1782035	470	Type	Order No.
MC 1,5/ 4-GF-3,81 P20 THRR56	1782048	470	MCV 1,5/ 2-G-3,81 P20 THRR32	1825665
MC 1,5/ 5-GF-3,81 P20 THRR56	1782051	470	MCV 1,5/ 3-G-3,81 P20 THRR32	1825678
MC 1,5/ 6-GF-3,81 P20 THRR56	1782064	470	MCV 1,5/ 4-G-3,81 P20 THRR32	1825681
MC 1,5/ 7-GF-3,81 P20 THRR56	1782077	470	MCV 1,5/ 5-G-3,81 P20 THRR56	1825694
MC 1,5/ 8-GF-3,81 P20 THRR56	1782080	470	MCV 1,5/ 6-G-3,81 P20 THRR56	1825704
MC 1,5/ 9-GF-3,81 P20 THRR72	1782093	470	MCV 1,5/ 7-G-3,81 P20 THRR56	1825717
MC 1,5/ 10-GF-3,81 P20 THRR72	1782103	380	MCV 1,5/ 8-G-3,81 P20 THRR56	1825720
MC 1,5/ 11-GF-3,81 P20 THRR72	1782116	380	MCV 1,5/ 9-G-3,81 P20 THRR56	1825733
MC 1,5/ 12-GF-3,81 P20 THRR72	1782129	380	MCV 1,5/ 10-G-3,81 P20 THRR56	1825746
			MCV 1,5/ 11-G-3,81 P20 THRR72	1825759
			MCV 1,5/ 12-G-3,81 P20 THRR72	1825762

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



Ordering data				
Type	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
MCV 1,5/ 2-G-3,5 P20 THRR32	1780888	200	Type <td>Order No.</td>	Order No.
MCV 1,5/ 3-G-3,5 P20 THRR32	1780901	200	MCV 1,5/ 2-GF-3,5 P20 THRR32	1780668
MCV 1,5/ 4-G-3,5 P20 THRR32	1780927	200	MCV 1,5/ 3-GF-3,5 P20 THRR56	1780684
MCV 1,5/ 5-G-3,5 P20 THRR56	1780943	200	MCV 1,5/ 4-GF-3,5 P20 THRR56	1780707
MCV 1,5/ 6-G-3,5 P20 THRR56	1780969	200	MCV 1,5/ 5-GF-3,5 P20 THRR56	1780723
MCV 1,5/ 7-G-3,5 P20 THRR56	1780985	200	MCV 1,5/ 6-GF-3,5 P20 THRR56	1780749
MCV 1,5/ 8-G-3,5 P20 THRR56	1781007	200	MCV 1,5/ 7-GF-3,5 P20 THRR56	1780765
MCV 1,5/ 9-G-3,5 P20 THRR56	1781023	200	MCV 1,5/ 8-GF-3,5 P20 THRR56	1780781
MCV 1,5/ 10-G-3,5 P20 THRR56	1781049	200	MCV 1,5/ 9-GF-3,5 P20 THRR56	1780804
MCV 1,5/ 11-G-3,5 P20 THRR56	1781065	200	MCV 1,5/ 10-GF-3,5 P20 THRR72	1780820
MCV 1,5/ 12-G-3,5 P20 THRR72	1781081	180	MCV 1,5/ 11-GF-3,5 P20 THRR72	1780846
3.81 mm pitch, color: Black				
MCV 1,5/ 2-G-3,81 P20 THRR32	1825665	200	MCV 1,5/ 12-GF-3,5 P20 THRR72	1780862
MCV 1,5/ 3-G-3,81 P20 THRR32	1825678	200	Type <td>Order No.</td>	Order No.
MCV 1,5/ 4-GF-3,81 P20 THRR56	1825681	200	MCV 1,5/ 2-GF-3,81 P20 THRR32	1825775
MCV 1,5/ 5-G-3,81 P20 THRR56	1825694	200	MCV 1,5/ 3-GF-3,81 P20 THRR56	1825788
MCV 1,5/ 6-G-3,81 P20 THRR56	1825704	200	MCV 1,5/ 4-GF-3,81 P20 THRR56	1825791
MCV 1,5/ 7-G-3,81 P20 THRR56	1825717	200	MCV 1,5/ 5-GF-3,81 P20 THRR56	1825801
MCV 1,5/ 8-G-3,81 P20 THRR56	1825720	200	MCV 1,5/ 6-GF-3,81 P20 THRR56	1825814
MCV 1,5/ 9-G-3,81 P20 THRR56	1825733	200	MCV 1,5/ 7-GF-3,81 P20 THRR56	1825827
MCV 1,5/ 10-G-3,81 P20 THRR56	1825746	200	MCV 1,5/ 8-GF-3,81 P20 THRR56	1825830
MCV 1,5/ 11-G-3,81 P20 THRR72	1825759	200	MCV 1,5/ 9-GF-3,81 P20 THRR72	1825843
MCV 1,5/ 12-G-3,81 P20 THRR72	1825762	180	MCV 1,5/ 10-GF-3,81 P20 THRR72	1825856
			MCV 1,5/ 11-GF-3,81 P20 THRR72	1825869
			MCV 1,5/ 12-GF-3,81 P20 THRR72	1825872

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- 2.6 mm pin
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

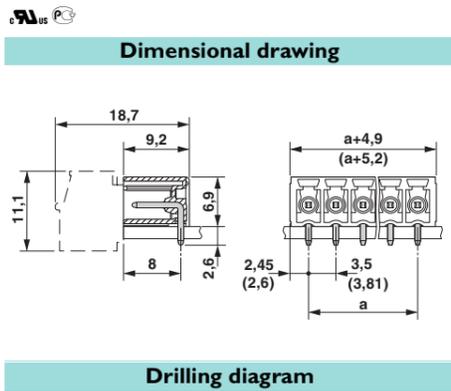
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

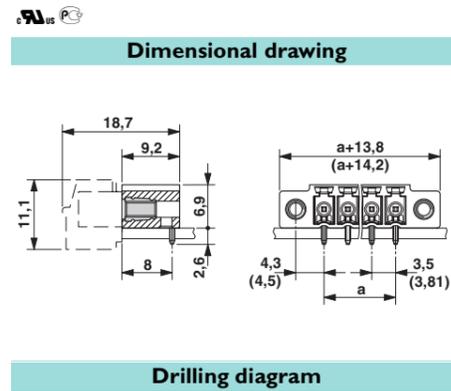
CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797



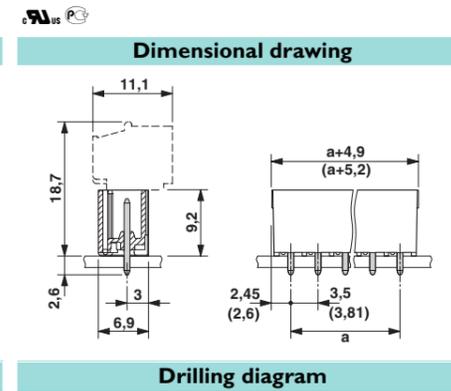
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
MC 1,5/ 2-G-3,5 P26 THRR32	1788518	470	
MC 1,5/ 3-G-3,5 P26 THRR32	1788534	470	
MC 1,5/ 4-G-3,5 P26 THRR32	1788550	470	
MC 1,5/ 5-G-3,5 P26 THRR56	1788576	470	
MC 1,5/ 6-G-3,5 P26 THRR56	1788592	470	
MC 1,5/ 7-G-3,5 P26 THRR56	1788615	470	
MC 1,5/ 8-G-3,5 P26 THRR56	1788631	470	
MC 1,5/ 9-G-3,5 P26 THRR56	1788657	470	
MC 1,5/10-G-3,5 P26 THRR56	1788673	470	
MC 1,5/11-G-3,5 P26 THRR56	1788699	470	
MC 1,5/12-G-3,5 P26 THRR72	1788712	380	
Pitch 3.5 mm, color: Black			
MC 1,5/ 2-G-3,81 P26 THRR32	1782462	470	
MC 1,5/ 3-G-3,81 P26 THRR32	1782475	470	
MC 1,5/ 4-G-3,81 P26 THRR32	1782488	470	
MC 1,5/ 5-G-3,81 P26 THRR56	1782491	470	
MC 1,5/ 6-G-3,81 P26 THRR56	1782501	470	
MC 1,5/ 7-G-3,81 P26 THRR56	1782514	470	
MC 1,5/ 8-G-3,81 P26 THRR56	1782527	470	
MC 1,5/ 9-G-3,81 P26 THRR56	1782530	470	
MC 1,5/10-G-3,81 P26 THRR56	1782543	470	
MC 1,5/11-G-3,81 P26 THRR56	1782556	470	
MC 1,5/12-G-3,81 P26 THRR72	1782569	380	



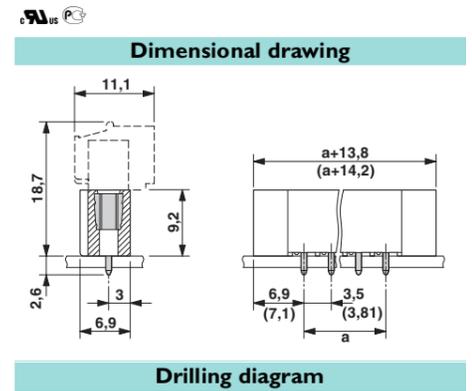
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
MC 1,5/ 2-GF-3,5 P26 THRR32	1789177	470	
MC 1,5/ 3-GF-3,5 P26 THRR56	1789193	470	
MC 1,5/ 4-GF-3,5 P26 THRR56	1789216	470	
MC 1,5/ 5-GF-3,5 P26 THRR56	1789232	470	
MC 1,5/ 6-GF-3,5 P26 THRR56	1789258	470	
MC 1,5/ 7-GF-3,5 P26 THRR56	1789274	470	
MC 1,5/ 8-GF-3,5 P26 THRR56	1789290	470	
MC 1,5/ 9-GF-3,5 P26 THRR72	1789313	470	
MC 1,5/10-GF-3,5 P26 THRR72	1789339	380	
MC 1,5/11-GF-3,5 P26 THRR72	1789355	380	
MC 1,5/12-GF-3,5 P26 THRR72	1789371	380	
Pitch 3.5 mm, color: Black			
MC 1,5/ 2-GF-3,81 P26 THRR32	1781913	470	
MC 1,5/ 3-GF-3,81 P26 THRR56	1781926	470	
MC 1,5/ 4-GF-3,81 P26 THRR56	1781939	470	
MC 1,5/ 5-GF-3,81 P26 THRR56	1781942	470	
MC 1,5/ 6-GF-3,81 P26 THRR56	1781955	470	
MC 1,5/ 7-GF-3,81 P26 THRR56	1781968	470	
MC 1,5/ 8-GF-3,81 P26 THRR56	1781971	470	
MC 1,5/ 9-GF-3,81 P26 THRR72	1781984	470	
MC 1,5/10-GF-3,81 P26 THRR72	1781997	380	
MC 1,5/11-GF-3,81 P26 THRR72	1782006	380	
MC 1,5/12-GF-3,81 P26 THRR72	1782019	380	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
MCV 1,5/ 2-G-3,5 P26 THRR32	1779378	200	
MCV 1,5/ 3-G-3,5 P26 THRR32	1779394	200	
MCV 1,5/ 4-G-3,5 P26 THRR32	1779417	200	
MCV 1,5/ 5-G-3,5 P26 THRR56	1779433	200	
MCV 1,5/ 6-G-3,5 P26 THRR56	1779459	200	
MCV 1,5/ 7-G-3,5 P26 THRR56	1779475	200	
MCV 1,5/ 8-G-3,5 P26 THRR56	1779491	200	
MCV 1,5/ 9-G-3,5 P26 THRR56	1779514	200	
MCV 1,5/10-G-3,5 P26 THRR56	1779530	200	
MCV 1,5/11-G-3,5 P26 THRR56	1779546	200	
MCV 1,5/12-G-3,5 P26 THRR72	1779572	180	
Pitch 3.5 mm, color: Black			
MCV 1,5/ 2-G-3,81 P26 THRR32	1713554	200	
MCV 1,5/ 3-G-3,81 P26 THRR32	1712843	200	
MCV 1,5/ 4-G-3,81 P26 THRR32	1712872	200	
MCV 1,5/ 5-G-3,81 P26 THRR56	1712898	200	
MCV 1,5/ 6-G-3,81 P26 THRR56	1712911	200	
MCV 1,5/ 7-G-3,81 P26 THRR56	1712937	200	
MCV 1,5/ 8-G-3,81 P26 THRR56	1712940	200	
MCV 1,5/ 9-G-3,81 P26 THRR56	1713567	200	
MCV 1,5/10-G-3,81 P26 THRR56	1712966	200	
MCV 1,5/11-G-3,81 P26 THRR72	1714003	180	
MCV 1,5/12-G-3,81 P26 THRR72	1712982	200	

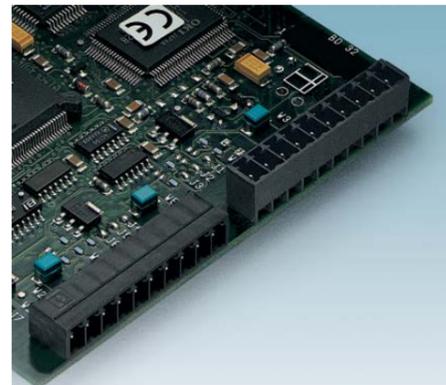


Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
MCV 1,5/ 2-GF-3,5 P26 THRR32	1779077	200	
MCV 1,5/ 3-GF-3,5 P26 THRR56	1779093	200	
MCV 1,5/ 4-GF-3,5 P26 THRR56	1779116	200	
MCV 1,5/ 5-GF-3,5 P26 THRR56	1779132	200	
MCV 1,5/ 6-GF-3,5 P26 THRR56	1779158	200	
MCV 1,5/ 7-GF-3,5 P26 THRR56	1779174	200	
MCV 1,5/ 8-GF-3,5 P26 THRR56	1779190	200	
MCV 1,5/ 9-GF-3,5 P26 THRR56	1779213	200	
MCV 1,5/10-GF-3,5 P26 THRR72	1779239	180	
MCV 1,5/11-GF-3,5 P26 THRR72	1780121	180	
MCV 1,5/12-GF-3,5 P26 THRR72	1780163	180	
Pitch 3.5 mm, color: Black			
MCV 1,5/ 2-GF-3,81 P26 THRR32	1713347	200	
MCV 1,5/ 3-GF-3,81 P26 THRR56	1713350	200	
MCV 1,5/ 4-GF-3,81 P26 THRR56	1713363	200	
MCV 1,5/ 5-GF-3,81 P26 THRR56	1713376	200	
MCV 1,5/ 6-GF-3,81 P26 THRR56	1713389	200	
MCV 1,5/ 7-GF-3,81 P26 THRR56	1713392	200	
MCV 1,5/ 8-GF-3,81 P26 THRR56	1713402	200	
MCV 1,5/ 9-GF-3,81 P26 THRR72	1713415	180	
MCV 1,5/10-GF-3,81 P26 THRR72	1713428	200	
MCV 1,5/11-GF-3,81 P26 THRR72	1713431	200	
MCV 1,5/12-GF-3,81 P26 THRR72	1713444	200	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 1.4 mm pin, no overhang in 1.6 mm PCBs for two-sided mounting
- Box packaging
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

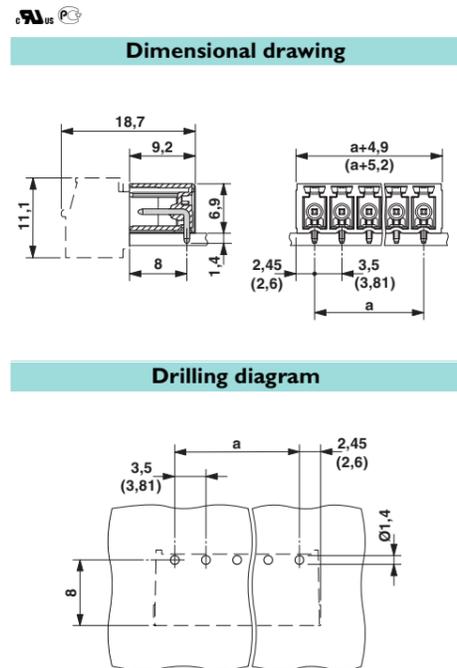
CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Dimensional drawings of the free space for solder paste, the tape, and pick-and-place pads can be found online at www.phoenixcontact.net/products.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5
Insulation coordination	III / 3 III / 2 II / 2
Surge voltage category / pollution degree	160 160 250
Rated insulation voltage	[V] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

Ordering data	
No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
3.81 mm pitch, color: Black	
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91



Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-G-3,5 P14 THR	1788945	50
MC 1,5/ 3-G-3,5 P14 THR	1788961	50
MC 1,5/ 4-G-3,5 P14 THR	1788987	50
MC 1,5/ 5-G-3,5 P14 THR	1789009	50
MC 1,5/ 6-G-3,5 P14 THR	1789025	50
MC 1,5/ 7-G-3,5 P14 THR	1789041	50
MC 1,5/ 8-G-3,5 P14 THR	1789067	50
MC 1,5/ 9-G-3,5 P14 THR	1789083	50
MC 1,5/10-G-3,5 P14 THR	1789106	50
MC 1,5/11-G-3,5 P14 THR	1789122	50
MC 1,5/12-G-3,5 P14 THR	1789148	50
3.81 mm pitch, color: Black		
MC 1,5/ 2-G-3,81 P14 THR	1782352	100
MC 1,5/ 3-G-3,81 P14 THR	1782365	100
MC 1,5/ 4-G-3,81 P14 THR	1782378	100
MC 1,5/ 5-G-3,81 P14 THR	1782381	50
MC 1,5/ 6-G-3,81 P14 THR	1782394	50
MC 1,5/ 7-G-3,81 P14 THR	1782404	50
MC 1,5/ 8-G-3,81 P14 THR	1782417	50
MC 1,5/ 9-G-3,81 P14 THR	1782420	50
MC 1,5/10-G-3,81 P14 THR	1782433	50
MC 1,5/11-G-3,81 P14 THR	1782446	50
MC 1,5/12-G-3,81 P14 THR	1782459	50

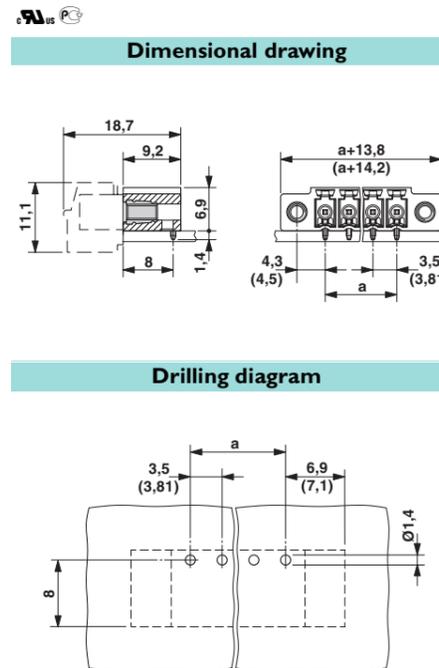
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Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



Pin length of 1.4 mm, with threaded flange
Box-packaged headers
Plug-in direction parallel to the PCB

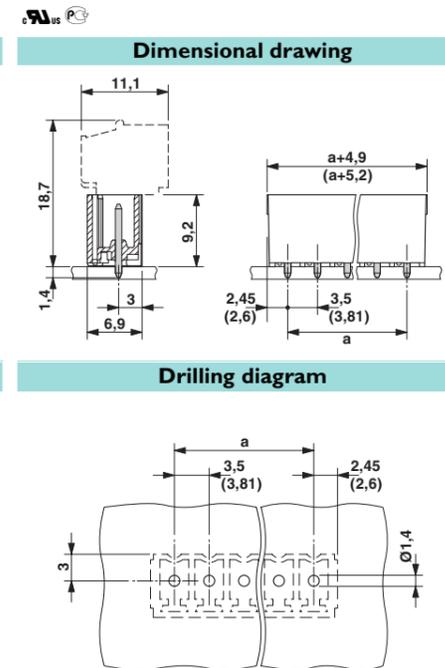


Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-GF-3,5 P14 THR	1789601	50
MC 1,5/ 3-GF-3,5 P14 THR	1789627	50
MC 1,5/ 4-GF-3,5 P14 THR	1789643	50
MC 1,5/ 5-GF-3,5 P14 THR	1789669	50
MC 1,5/ 6-GF-3,5 P14 THR	1789685	50
MC 1,5/ 7-GF-3,5 P14 THR	1789708	50
MC 1,5/ 8-GF-3,5 P14 THR	1789724	50
MC 1,5/ 9-GF-3,5 P14 THR	1789740	50
MC 1,5/10-GF-3,5 P14 THR	1789766	50
MC 1,5/11-GF-3,5 P14 THR	1789782	50
MC 1,5/12-GF-3,5 P26 THR	1789368	50
3.81 mm pitch, color: Black		
MC 1,5/ 2-GF-3,81 P14 THR	1781803	100
MC 1,5/ 3-GF-3,81 P14 THR	1781816	100
MC 1,5/ 4-GF-3,81 P14 THR	1781829	100
MC 1,5/ 5-GF-3,81 P14 THR	1781832	50
MC 1,5/ 6-GF-3,81 P14 THR	1781845	50
MC 1,5/ 7-GF-3,81 P14 THR	1781858	50
MC 1,5/ 8-GF-3,81 P14 THR	1781861	50
MC 1,5/ 9-GF-3,81 P14 THR	1781874	50
MC 1,5/10-GF-3,81 P14 THR	1781887	50
MC 1,5/11-GF-3,81 P14 THR	1781890	50
MC 1,5/12-GF-3,81 P14 THR	1781900	50

N



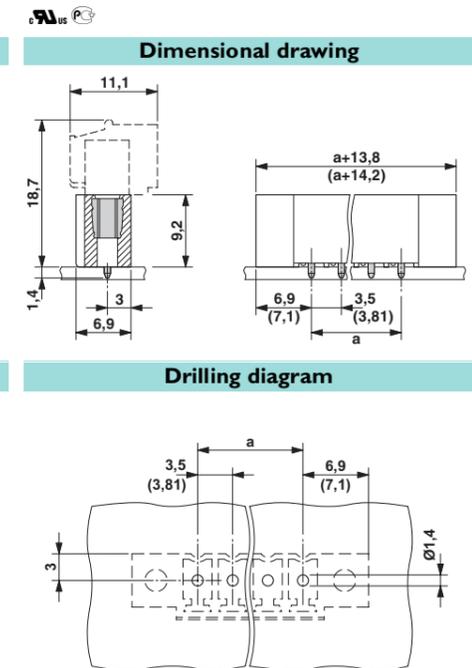
1.4 mm pin length, box-packaged headers,
plug-in direction vertical to the PCB



Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P14 THR	1780192	100
MCV 1,5/ 3-G-3,5 P14 THR	1780215	100
MCV 1,5/ 4-G-3,5 P14 THR	1780231	100
MCV 1,5/ 5-G-3,5 P14 THR	1780257	50
MCV 1,5/ 6-G-3,5 P14 THR	1780273	50
MCV 1,5/ 7-G-3,5 P14 THR	1780299	50
MCV 1,5/ 8-G-3,5 P14 THR	1780312	50
MCV 1,5/ 9-G-3,5 P14 THR	1780338	50
MCV 1,5/10-G-3,5 P14 THR	1780354	50
MCV 1,5/11-G-3,5 P14 THR	1780370	50
MCV 1,5/12-G-3,5 P14 THR	1780396	50
3.81 mm pitch, color: Black		
MCV 1,5/ 2-G-3,81 P14 THR	1707007	50
MCV 1,5/ 3-G-3,81 P14 THR	1707010	50
MCV 1,5/ 4-G-3,81 P14 THR	1707023	50
MCV 1,5/ 5-G-3,81 P14 THR	1707036	50
MCV 1,5/ 6-G-3,81 P14 THR	1707049	50
MCV 1,5/ 7-G-3,81 P14 THR	1707052	50
MCV 1,5/ 8-G-3,81 P14 THR	1707065	50
MCV 1,5/ 9-G-3,81 P14 THR	1707078	50
MCV 1,5/10-G-3,81 P14 THR	1707081	50
MCV 1,5/11-G-3,81 P14 THR	1707094	50
MCV 1,5/12-G-3,81 P14 THR	1707104	50



1.4 mm pin length, with threaded flange, box-packaged headers,
plug-in direction vertical to the PCB



Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,5 P14 THR	1779938	100
MCV 1,5/ 3-GF-3,5 P14 THR	1779954	100
MCV 1,5/ 4-GF-3,5 P14 THR	1779970	100
MCV 1,5/ 5-GF-3,5 P14 THR	1779996	50
MCV 1,5/ 6-GF-3,5 P14 THR	1780011	50
MCV 1,5/ 7-GF-3,5 P14 THR	1780037	50
MCV 1,5/ 8-GF-3,5 P14 THR	1780053	50
MCV 1,5/ 9-GF-3,5 P14 THR	1780079	50
MCV 1,5/10-GF-3,5 P14 THR	1780095	50
MCV 1,5/11-GF-3,5 P14 THR	1780134	50
MCV 1,5/12-GF-3,5 P14 THR	1780176	50
3.81 mm pitch, color: Black		
MCV 1,5/ 2-GF-3,81 P14 THR	1707214	50
MCV 1,5/ 3-GF-3,81 P14 THR	1707227	50
MCV 1,5/ 4-GF-3,81 P14 THR	1707230	50
MCV 1,5/ 5-GF-3,81 P14 THR	1707243	50
MCV 1,5/ 6-GF-3,81 P14 THR	1707256	50
MCV 1,5/ 7-GF-3,81 P14 THR	1707269	50
MCV 1,5/ 8-GF-3,81 P14 THR	1707272	50
MCV 1,5/ 9-GF-3,81 P14 THR	1707285	50
MCV 1,5/10-GF-3,81 P14 THR	1707298	50
MCV 1,5/11-GF-3,81 P14 THR	1707308	50
MCV 1,5/12-GF-3,81 P14 THR	1707311	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- 2.6 mm pin
- Box packaging
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

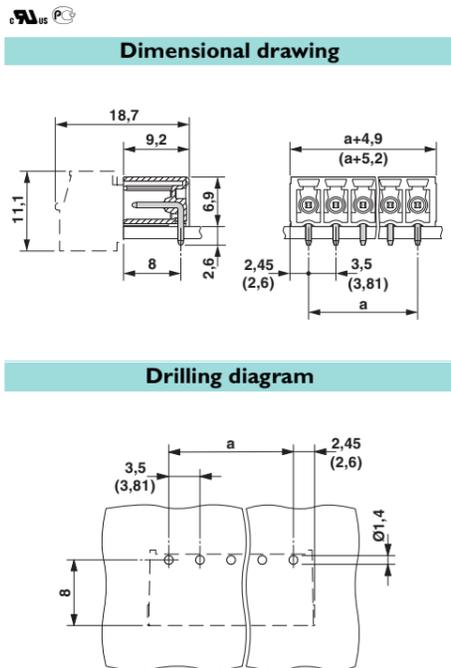
CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Dimensional drawings of the free space for solder paste, the tape, and pick-and-place pads can be found online at www.phoenixcontact.net/products.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Keying profile CP-MSTB NAT HT Order No. 1954359	38
	Marker cards SK 3,81/2,8	797

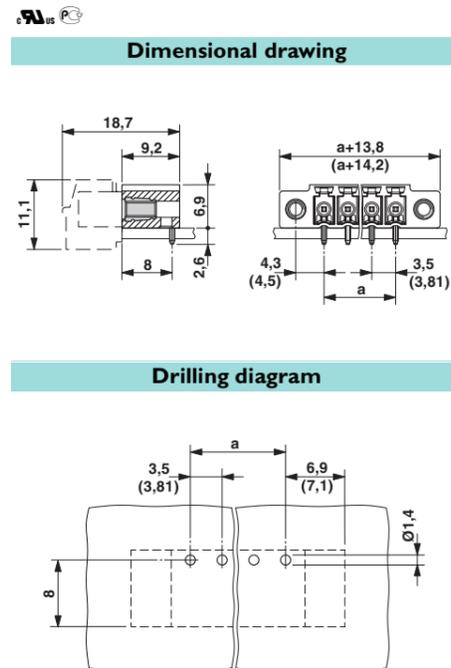
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5 / 3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

Ordering data	
Type	Order No.
Pitch 3.5 mm, color: Black	
MC 1,5/ 2-G-3,5 P26 THR	1788505
MC 1,5/ 3-G-3,5 P26 THR	1788521
MC 1,5/ 4-G-3,5 P26 THR	1788547
MC 1,5/ 5-G-3,5 P26 THR	1788563
MC 1,5/ 6-G-3,5 P26 THR	1788589
MC 1,5/ 7-G-3,5 P26 THR	1788602
MC 1,5/ 8-G-3,5 P26 THR	1788628
MC 1,5/ 9-G-3,5 P26 THR	1788644
MC 1,5/10-G-3,5 P26 THR	1788660
MC 1,5/11-G-3,5 P26 THR	1788686
MC 1,5/12-G-3,5 P26 THR	1788709
Pitch 3.5 mm, color: Black	
MC 1,5/ 2-G-3,81 P26 THR	1721986
MC 1,5/ 3-G-3,81 P26 THR	1721999
MC 1,5/ 4-G-3,81 P26 THR	1722008
MC 1,5/ 5-G-3,81 P26 THR	1722011
MC 1,5/ 6-G-3,81 P26 THR	1722024
MC 1,5/ 7-G-3,81 P26 THR	1722037
MC 1,5/ 8-G-3,81 P26 THR	1722040
MC 1,5/ 9-G-3,81 P26 THR	1722053
MC 1,5/10-G-3,81 P26 THR	1722066
MC 1,5/11-G-3,81 P26 THR	1722079
MC 1,5/12-G-3,81 P26 THR	1722082



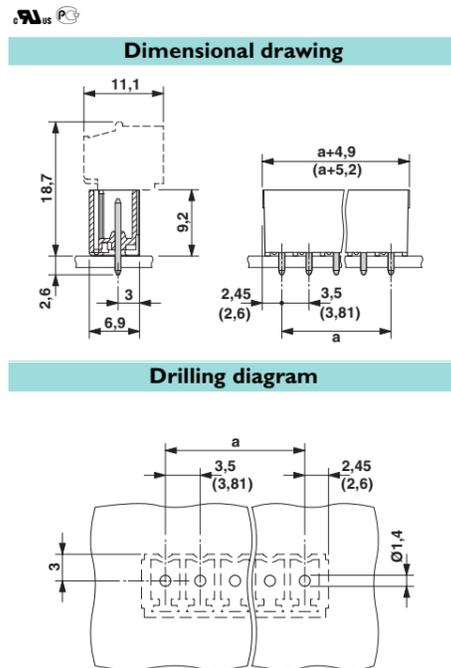
Ordering data	
Type	Order No.
Pitch 3.5 mm, color: Black	
MCV 1,5/ 2-GF-3,5 P26 THR	1779365
MCV 1,5/ 3-GF-3,5 P26 THR	1779381
MCV 1,5/ 4-GF-3,5 P26 THR	1779404
MCV 1,5/ 5-GF-3,5 P26 THR	1779420
MCV 1,5/ 6-GF-3,5 P26 THR	1779446
MCV 1,5/ 7-GF-3,5 P26 THR	1779462
MCV 1,5/ 8-GF-3,5 P26 THR	1779488
MCV 1,5/ 9-GF-3,5 P26 THR	1779501
MCV 1,5/10-GF-3,5 P26 THR	1779527
MCV 1,5/11-GF-3,5 P26 THR	1779543
MCV 1,5/12-GF-3,5 P26 THR	1779569
3.81 mm pitch, color: Black	
MCV 1,5/ 2-GF-3,81 P26 THR	1707421
MCV 1,5/ 3-GF-3,81 P26 THR	1707434
MCV 1,5/ 4-GF-3,81 P26 THR	1707447
MCV 1,5/ 5-GF-3,81 P26 THR	1707450
MCV 1,5/ 6-GF-3,81 P26 THR	1707463
MCV 1,5/ 7-GF-3,81 P26 THR	1707476
MCV 1,5/ 8-GF-3,81 P26 THR	1707489
MCV 1,5/ 9-GF-3,81 P26 THR	1707492
MCV 1,5/10-GF-3,81 P26 THR	1707502
MCV 1,5/11-GF-3,81 P26 THR	1707515
MCV 1,5/12-GF-3,81 P26 THR	1707528

N



Ordering data	
Type	Order No.
Pitch 3.5 mm, color: Black	
MCV 1,5/ 2-GF-3,5 P26 THR	1779365
MCV 1,5/ 3-GF-3,5 P26 THR	1779381
MCV 1,5/ 4-GF-3,5 P26 THR	1779404
MCV 1,5/ 5-GF-3,5 P26 THR	1779420
MCV 1,5/ 6-GF-3,5 P26 THR	1779446
MCV 1,5/ 7-GF-3,5 P26 THR	1779462
MCV 1,5/ 8-GF-3,5 P26 THR	1779488
MCV 1,5/ 9-GF-3,5 P26 THR	1779501
MCV 1,5/10-GF-3,5 P26 THR	1779527
MCV 1,5/11-GF-3,5 P26 THR	1779543
MCV 1,5/12-GF-3,5 P26 THR	1779569
3.81 mm pitch, color: Black	
MCV 1,5/ 2-GF-3,81 P26 THR	1707421
MCV 1,5/ 3-GF-3,81 P26 THR	1707434
MCV 1,5/ 4-GF-3,81 P26 THR	1707447
MCV 1,5/ 5-GF-3,81 P26 THR	1707450
MCV 1,5/ 6-GF-3,81 P26 THR	1707463
MCV 1,5/ 7-GF-3,81 P26 THR	1707476
MCV 1,5/ 8-GF-3,81 P26 THR	1707489
MCV 1,5/ 9-GF-3,81 P26 THR	1707492
MCV 1,5/10-GF-3,81 P26 THR	1707502
MCV 1,5/11-GF-3,81 P26 THR	1707515
MCV 1,5/12-GF-3,81 P26 THR	1707528

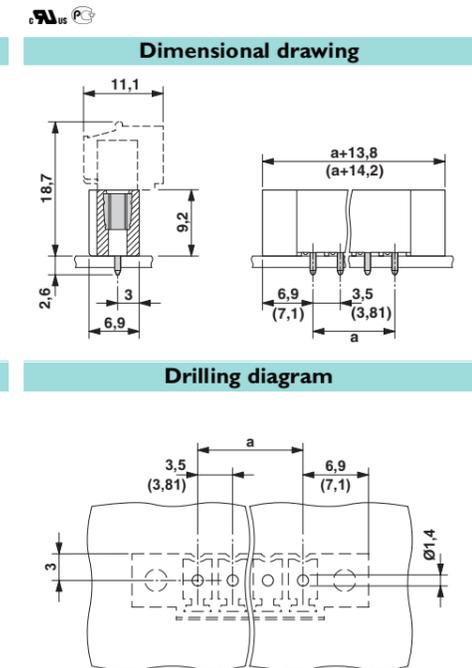
N



Ordering data	
Type	Order No.
Pitch 3.5 mm, color: Black	
MCV 1,5/ 2-GF-3,5 P26 THR	1779365
MCV 1,5/ 3-GF-3,5 P26 THR	1779381
MCV 1,5/ 4-GF-3,5 P26 THR	1779404
MCV 1,5/ 5-GF-3,5 P26 THR	1779420
MCV 1,5/ 6-GF-3,5 P26 THR	1779446
MCV 1,5/ 7-GF-3,5 P26 THR	1779462
MCV 1,5/ 8-GF-3,5 P26 THR	1779488
MCV 1,5/ 9-GF-3,5 P26 THR	1779501
MCV 1,5/10-GF-3,5 P26 THR	1779527
MCV 1,5/11-GF-3,5 P26 THR	1779543
MCV 1,5/12-GF-3,5 P26 THR	1779569
3.81 mm pitch, color: Black	
MCV 1,5/ 2-GF-3,81 P26 THR	1707421
MCV 1,5/ 3-GF-3,81 P26 THR	1707434
MCV 1,5/ 4-GF-3,81 P26 THR	1707447
MCV 1,5/ 5-GF-3,81 P26 THR	1707450
MCV 1,5/ 6-GF-3,81 P26 THR	1707463
MCV 1,5/ 7-GF-3,81 P26 THR	1707476
MCV 1,5/ 8-GF-3,81 P26 THR	1707489
MCV 1,5/ 9-GF-3,81 P26 THR	1707492
MCV 1,5/10-GF-3,81 P26 THR	1707502
MCV 1,5/11-GF-3,81 P26 THR	1707515
MCV 1,5/12-GF-3,81 P26 THR	1707528

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

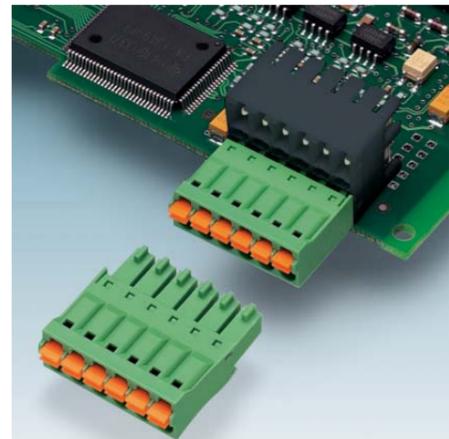


Ordering data	
Type	Order No.
Pitch 3.5 mm, color: Black	
MCV 1,5/ 2-GF-3,5 P26 THR	1779365
MCV 1,5/ 3-GF-3,5 P26 THR	1779381
MCV 1,5/ 4-GF-3,5 P26 THR	1779404
MCV 1,5/ 5-GF-3,5 P26 THR	1779420
MCV 1,5/ 6-GF-3,5 P26 THR	1779446
MCV 1,5/ 7-GF-3,5 P26 THR	1779462
MCV 1,5/ 8-GF-3,5 P26 THR	1779488
MCV 1,5/ 9-GF-3,5 P26 THR	1779501
MCV 1,5/10-GF-3,5 P26 THR	1779527
MCV 1,5/11-GF-3,5 P26 THR	1779543
MCV 1,5/12-GF-3,5 P26 THR	1779569
3.81 mm pitch, color: Black	
MCV 1,5/ 2-GF-3,81 P26 THR	1707421
MCV 1,5/ 3-GF-3,81 P26 THR	1707434
MCV 1,5/ 4-GF-3,81 P26 THR	1707447
MCV 1,5/ 5-GF-3,81 P26 THR	1707450
MCV 1,5/ 6-GF-3,81 P26 THR	1707463
MCV 1,5/ 7-GF-3,81 P26 THR	1707476
MCV 1,5/ 8-GF-3,81 P26 THR	1707489
MCV 1,5/ 9-GF-3,81 P26 THR	1707492
MCV 1,5/10-GF-3,81 P26 THR	1707502
MCV 1,5/11-GF-3,81 P26 THR	1707515
MCV 1,5/12-GF-3,81 P26 THR	1707528

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Double-level header for reflow processes

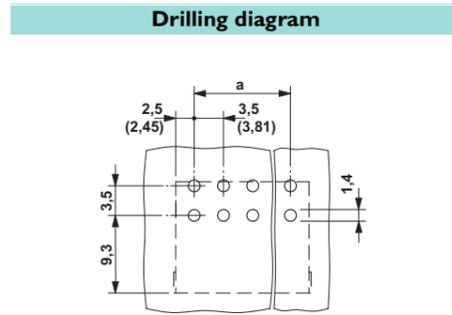
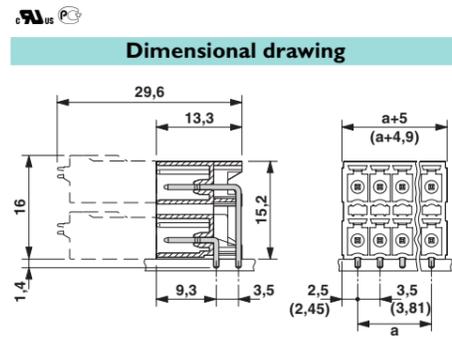


- Application in SMT reflow processes
- THR double-level pin strips with a flat design featuring compact pitches of 3.5 mm and 3.81 mm
- Alternative pin lengths 1.4 mm or 2.6 mm
- Plug-in direction parallel to the PCB
- Without a level offset, for flush installation in the front of the devices
- Versions with engagement noses for locking plugs with self-locking flanges
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products
- Relevant FMC 1,5/...connectors can be found on page 200

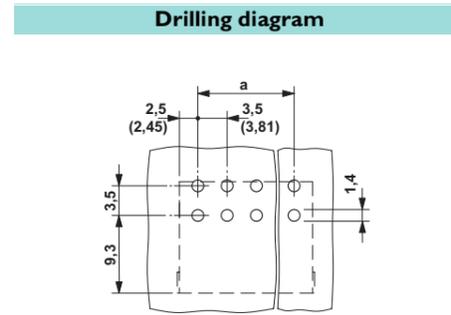
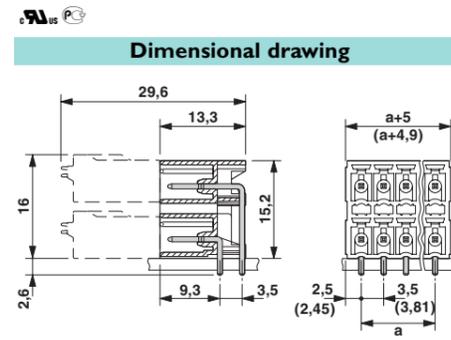
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.
 Application notes and suggestions for the THR process can be found on page 27
 CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797

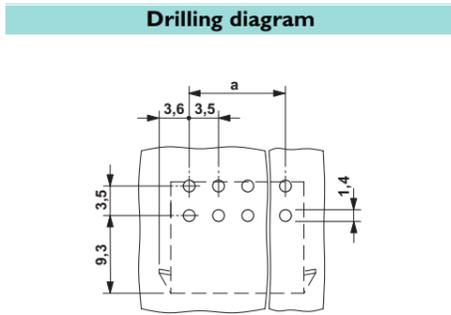
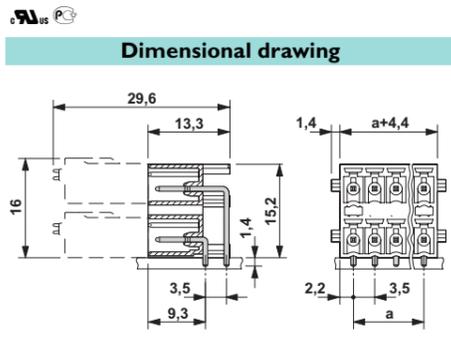
1.4 mm pin length, plug-in direction parallel to the PCB



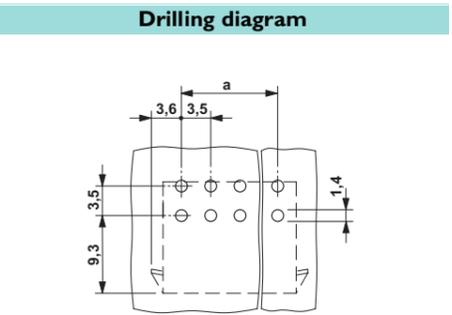
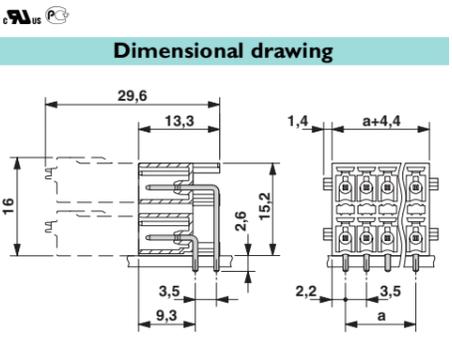
2.6 mm pin length, plug-in direction parallel to the PCB



1.4 mm pin length, with engagement noses, plug-in direction parallel to the PCB



2.6 mm pin length, with engagement noses, plug-in direction parallel to the PCB



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5 / 3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 150 - 150
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDN 1,5/ 2-G1-3,5 P14THR	1953907 50
MCDN 1,5/ 3-G1-3,5 P14THR	1953923 50
MCDN 1,5/ 4-G1-3,5 P14THR	1953936 50
MCDN 1,5/ 5-G1-3,5 P14THR	1953949 50
MCDN 1,5/ 6-G1-3,5 P14THR	1953952 50
MCDN 1,5/ 7-G1-3,5 P14THR	1953965 50
MCDN 1,5/ 8-G1-3,5 P14THR	1953978 50
MCDN 1,5/ 9-G1-3,5 P14THR	1953981 50
MCDN 1,5/10-G1-3,5 P14THR	1953994 50
MCDN 1,5/11-G1-3,5 P14THR	1954003 50
MCDN 1,5/12-G1-3,5 P14THR	1954032 50
MCDN 1,5/13-G1-3,5 P14THR	1954045 50
MCDN 1,5/14-G1-3,5 P14THR	1954058 50
MCDN 1,5/15-G1-3,5 P14THR	1954061 50
MCDN 1,5/16-G1-3,5 P14THR	1954074 50
3.81 mm pitch, color: Black	
MCDN 1,5/ 2-G1-3,81 P14THR	1749337 50
MCDN 1,5/ 3-G1-3,81 P14THR	1749340 50
MCDN 1,5/ 4-G1-3,81 P14THR	1749353 50
MCDN 1,5/ 5-G1-3,81 P14THR	1749366 50
MCDN 1,5/ 6-G1-3,81 P14THR	1749379 50
MCDN 1,5/ 7-G1-3,81 P14THR	1749382 50
MCDN 1,5/ 8-G1-3,81 P14THR	1749395 50
MCDN 1,5/ 9-G1-3,81 P14THR	1749405 50
MCDN 1,5/10-G1-3,81 P14THR	1749418 50
MCDN 1,5/11-G1-3,81 P14THR	1749421 50
MCDN 1,5/12-G1-3,81 P14THR	1749434 50
MCDN 1,5/13-G1-3,81 P14THR	1749447 50
MCDN 1,5/14-G1-3,81 P14THR	1749450 50
MCDN 1,5/15-G1-3,81 P14THR	1749463 50
MCDN 1,5/16-G1-3,81 P14THR	1749476 50

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDN 1,5/ 2-G1-3,5 P26THR	1953716 50
MCDN 1,5/ 3-G1-3,5 P26THR	1953729 50
MCDN 1,5/ 4-G1-3,5 P26THR	1953732 50
MCDN 1,5/ 5-G1-3,5 P26THR	1953745 50
MCDN 1,5/ 6-G1-3,5 P26THR	1953758 50
MCDN 1,5/ 7-G1-3,5 P26THR	1953761 50
MCDN 1,5/ 8-G1-3,5 P26THR	1953774 50
MCDN 1,5/ 9-G1-3,5 P26THR	1953787 50
MCDN 1,5/10-G1-3,5 P26THR	1953790 50
MCDN 1,5/11-G1-3,5 P26THR	1953800 50
MCDN 1,5/12-G1-3,5 P26THR	1953813 50
MCDN 1,5/13-G1-3,5 P26THR	1953826 50
MCDN 1,5/14-G1-3,5 P26THR	1953839 50
MCDN 1,5/15-G1-3,5 P26THR	1953842 50
MCDN 1,5/16-G1-3,5 P26THR	1953855 50
3.81 mm pitch, color: Black	
MCDN 1,5/ 2-G1-3,81 P26THR	1749528 50
MCDN 1,5/ 3-G1-3,81 P26THR	1749531 50
MCDN 1,5/ 4-G1-3,81 P26THR	1749544 50
MCDN 1,5/ 5-G1-3,81 P26THR	1749557 50
MCDN 1,5/ 6-G1-3,81 P26THR	1749560 50
MCDN 1,5/ 7-G1-3,81 P26THR	1749573 50
MCDN 1,5/ 8-G1-3,81 P26THR	1749586 50
MCDN 1,5/ 9-G1-3,81 P26THR	1749599 50
MCDN 1,5/10-G1-3,81 P26THR	1749609 50
MCDN 1,5/11-G1-3,81 P26THR	1749612 50
MCDN 1,5/12-G1-3,81 P26THR	1749625 50
MCDN 1,5/13-G1-3,81 P26THR	1749638 50
MCDN 1,5/14-G1-3,81 P26THR	1749641 50
MCDN 1,5/15-G1-3,81 P26THR	1749654 50
MCDN 1,5/16-G1-3,81 P26THR	1749667 50

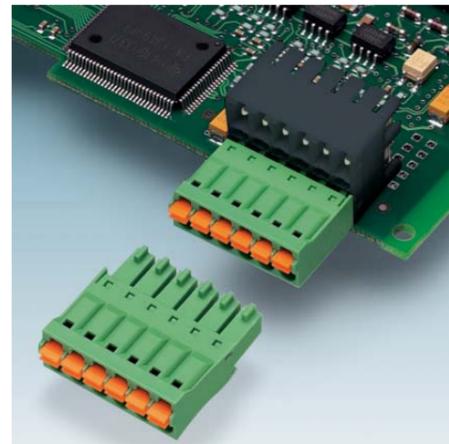
Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDN 1,5/ 2-G1-3,5 RNP14THR	1953208 50
MCDN 1,5/ 3-G1-3,5 RNP14THR	1953211 50
MCDN 1,5/ 4-G1-3,5 RNP14THR	1953224 50
MCDN 1,5/ 5-G1-3,5 RNP14THR	1953237 50
MCDN 1,5/ 6-G1-3,5 RNP14THR	1953240 50
MCDN 1,5/ 7-G1-3,5 RNP14THR	1953253 50
MCDN 1,5/ 8-G1-3,5 RNP14THR	1953266 50
MCDN 1,5/ 9-G1-3,5 RNP14THR	1953279 50
MCDN 1,5/10-G1-3,5 RNP14THR	1953282 50
MCDN 1,5/11-G1-3,5 RNP14THR	1953295 50
MCDN 1,5/12-G1-3,5 RNP14THR	1953305 50
MCDN 1,5/13-G1-3,5 RNP14THR	1953318 50
MCDN 1,5/14-G1-3,5 RNP14THR	1953321 50
MCDN 1,5/15-G1-3,5 RNP14THR	1953334 50
MCDN 1,5/16-G1-3,5 RNP14THR	1953350 50

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDN 1,5/ 2-G1-3,5 RNP26THR	1953402 50
MCDN 1,5/ 3-G1-3,5 RNP26THR	1953415 50
MCDN 1,5/ 4-G1-3,5 RNP26THR	1953428 50
MCDN 1,5/ 5-G1-3,5 RNP26THR	1953554 50
MCDN 1,5/ 6-G1-3,5 RNP26THR	1953567 50
MCDN 1,5/ 7-G1-3,5 RNP26THR	1953570 50
MCDN 1,5/ 8-G1-3,5 RNP26THR	1953583 50
MCDN 1,5/ 9-G1-3,5 RNP26THR	1953596 50
MCDN 1,5/10-G1-3,5 RNP26THR	1953606 50
MCDN 1,5/11-G1-3,5 RNP26THR	1953619 50
MCDN 1,5/12-G1-3,5 RNP26THR	1953622 50
MCDN 1,5/13-G1-3,5 RNP26THR	1953635 50
MCDN 1,5/14-G1-3,5 RNP26THR	1953648 50
MCDN 1,5/15-G1-3,5 RNP26THR	1953651 50
MCDN 1,5/16-G1-3,5 RNP26THR	1953664 50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Double-level header for reflow processes

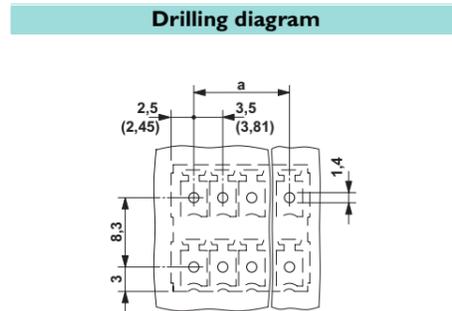
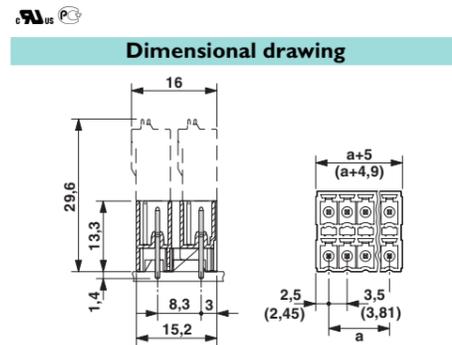


- Application in SMT reflow processes
- THR double-level pin strips with a flat design featuring compact pitches of 3.5 mm and 3.81 mm
- Alternative pin lengths 1.4 mm or 2.6 mm
- Plug-in direction vertical to the PCB
- Without a level offset, for flush installation in the front of the devices
- Versions with engagement noses for locking plugs with self-locking flanges
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products
- Relevant FMC 1,5/...connectors can be found on page 200

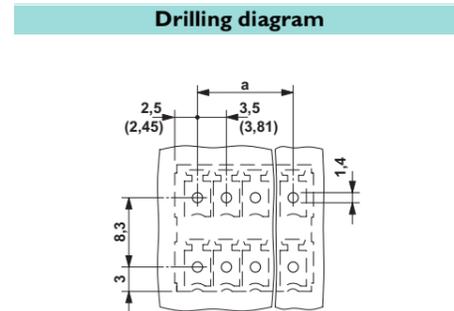
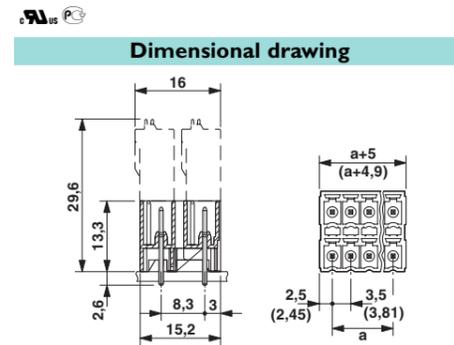
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.
 Application notes and suggestions for the THR process can be found on page 27.
 CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797

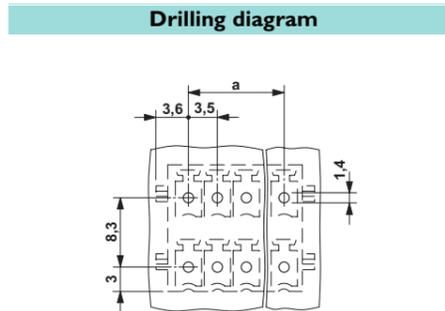
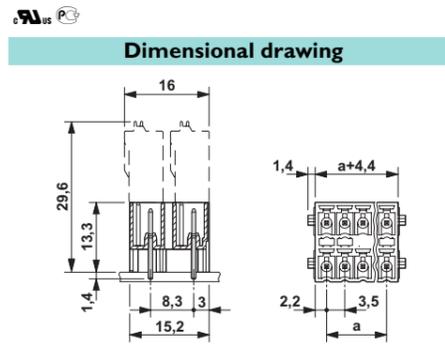
1.4 mm pin length, plug-in direction vertical to the PCB



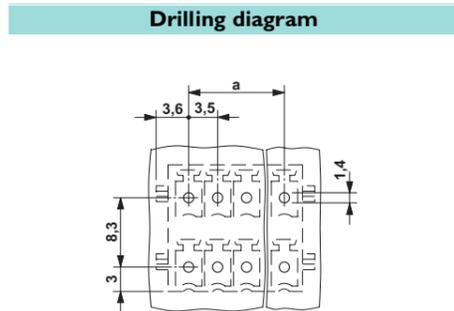
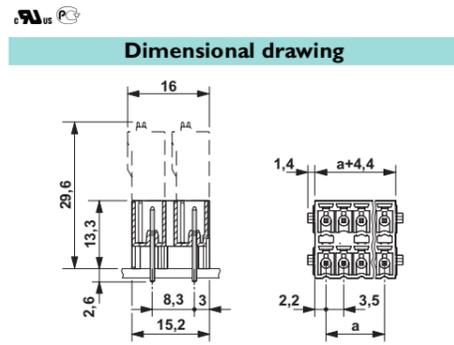
2.6 mm pin length, plug-in direction vertical to the PCB



1.4 mm pin length, with engagement noses, plug-in direction vertical to the PCB



2.6 mm pin length, with engagement noses, plug-in direction vertical to the PCB



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 200
Pitch	[mm] 3.5 / 3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 200 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 150 - 150
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 0.8 x 0.8 mm

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDNV 1,5/ 2-G1-3,5 P14THR	1952979 50
MCDNV 1,5/ 3-G1-3,5 P14THR	1952982 50
MCDNV 1,5/ 4-G1-3,5 P14THR	1952995 50
MCDNV 1,5/ 5-G1-3,5 P14THR	1953004 50
MCDNV 1,5/ 6-G1-3,5 P14THR	1953046 50
MCDNV 1,5/ 7-G1-3,5 P14THR	1953059 50
MCDNV 1,5/ 8-G1-3,5 P14THR	1953062 50
MCDNV 1,5/ 9-G1-3,5 P14THR	1953075 50
MCDNV 1,5/10-G1-3,5 P14THR	1953088 50
MCDNV 1,5/11-G1-3,5 P14THR	1953101 50
MCDNV 1,5/12-G1-3,5 P14THR	1953114 50
MCDNV 1,5/13-G1-3,5 P14THR	1953127 50
MCDNV 1,5/14-G1-3,5 P14THR	1953130 50
MCDNV 1,5/15-G1-3,5 P14THR	1953143 50
MCDNV 1,5/16-G1-3,5 P14THR	1953156 50
3.81 mm pitch, color: Black	
MCDNV 1,5/ 2-G1-3,81 P14THR	1750106 50
MCDNV 1,5/ 3-G1-3,81 P14THR	1750119 50
MCDNV 1,5/ 4-G1-3,81 P14THR	1750122 50
MCDNV 1,5/ 5-G1-3,81 P14THR	1750135 50
MCDNV 1,5/ 6-G1-3,81 P14THR	1750148 50
MCDNV 1,5/ 7-G1-3,81 P14THR	1750151 50
MCDNV 1,5/ 8-G1-3,81 P14THR	1750164 50
MCDNV 1,5/ 9-G1-3,81 P14THR	1750177 50
MCDNV 1,5/10-G1-3,81 P14THR	1750180 50
MCDNV 1,5/11-G1-3,81 P14THR	1750193 50
MCDNV 1,5/12-G1-3,81 P14THR	1750203 50
MCDNV 1,5/13-G1-3,81 P14THR	1750216 50
MCDNV 1,5/14-G1-3,81 P14THR	1750229 50
MCDNV 1,5/15-G1-3,81 P14THR	1750232 50
MCDNV 1,5/16-G1-3,81 P14THR	1750245 50

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDNV 1,5/ 2-G1-3,5 P26THR	1952788 50
MCDNV 1,5/ 3-G1-3,5 P26THR	1952791 50
MCDNV 1,5/ 4-G1-3,5 P26THR	1952801 50
MCDNV 1,5/ 5-G1-3,5 P26THR	1952814 50
MCDNV 1,5/ 6-G1-3,5 P26THR	1952827 50
MCDNV 1,5/ 7-G1-3,5 P26THR	1952830 50
MCDNV 1,5/ 8-G1-3,5 P26THR	1952843 50
MCDNV 1,5/ 9-G1-3,5 P26THR	1952856 50
MCDNV 1,5/10-G1-3,5 P26THR	1952869 50
MCDNV 1,5/11-G1-3,5 P26THR	1952872 50
MCDNV 1,5/12-G1-3,5 P26THR	1952885 50
MCDNV 1,5/13-G1-3,5 P26THR	1952898 50
MCDNV 1,5/14-G1-3,5 P26THR	1952908 50
MCDNV 1,5/15-G1-3,5 P26THR	1952911 50
MCDNV 1,5/16-G1-3,5 P26THR	1952924 50
3.81 mm pitch, color: Black	
MCDNV 1,5/ 2-G1-3,81 P26THR	1750290 50
MCDNV 1,5/ 3-G1-3,81 P26THR	1750300 50
MCDNV 1,5/ 4-G1-3,81 P26THR	1750313 50
MCDNV 1,5/ 5-G1-3,81 P26THR	1750326 50
MCDNV 1,5/ 6-G1-3,81 P26THR	1750339 50
MCDNV 1,5/ 7-G1-3,81 P26THR	1750342 50
MCDNV 1,5/ 8-G1-3,81 P26THR	1750355 50
MCDNV 1,5/ 9-G1-3,81 P26THR	1750368 50
MCDNV 1,5/10-G1-3,81 P26THR	1750371 50
MCDNV 1,5/11-G1-3,81 P26THR	1750384 50
MCDNV 1,5/12-G1-3,81 P26THR	1750397 50
MCDNV 1,5/13-G1-3,81 P26THR	1750407 50
MCDNV 1,5/14-G1-3,81 P26THR	1750410 50
MCDNV 1,5/15-G1-3,81 P26THR	1750423 50
MCDNV 1,5/16-G1-3,81 P26THR	1750436 50

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDNV 1,5/ 2-G1-3,5 RNP14THR	1952500 50
MCDNV 1,5/ 3-G1-3,5 RNP14THR	1952513 50
MCDNV 1,5/ 4-G1-3,5 RNP14THR	1952526 50
MCDNV 1,5/ 5-G1-3,5 RNP14THR	1952539 50
MCDNV 1,5/ 6-G1-3,5 RNP14THR	1952542 50
MCDNV 1,5/ 7-G1-3,5 RNP14THR	1952555 50
MCDNV 1,5/ 8-G1-3,5 RNP14THR	1952568 50
MCDNV 1,5/ 9-G1-3,5 RNP14THR	1952571 50
MCDNV 1,5/10-G1-3,5 RNP14THR	1952584 50
MCDNV 1,5/11-G1-3,5 RNP14THR	1952597 50
MCDNV 1,5/12-G1-3,5 RNP14THR	1952607 50
MCDNV 1,5/13-G1-3,5 RNP14THR	1952610 50
MCDNV 1,5/14-G1-3,5 RNP14THR	1952623 50
MCDNV 1,5/15-G1-3,5 RNP14THR	1952636 50
MCDNV 1,5/16-G1-3,5 RNP14THR	1952649 50

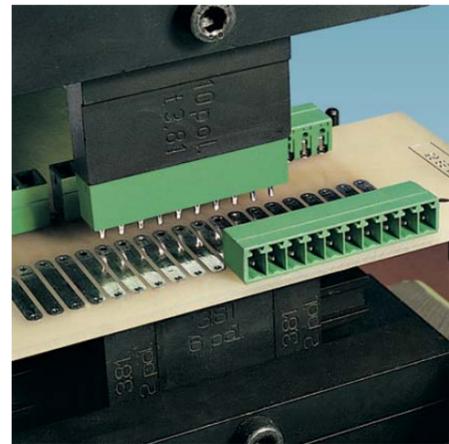
Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDNV 1,5/ 2-G1-3,5 RNP26THR	1952458 50
MCDNV 1,5/ 3-G1-3,5 RNP26THR	1952461 50
MCDNV 1,5/ 4-G1-3,5 RNP26THR	1952474 50
MCDNV 1,5/ 5-G1-3,5 RNP26THR	1952487 50
MCDNV 1,5/ 6-G1-3,5 RNP26THR	1952490 50
MCDNV 1,5/ 7-G1-3,5 RNP26THR	1952212 50
MCDNV 1,5/ 8-G1-3,5 RNP26THR	1952225 50
MCDNV 1,5/ 9-G1-3,5 RNP26THR	1952238 50
MCDNV 1,5/10-G1-3,5 RNP26THR	1952241 50
MCDNV 1,5/11-G1-3,5 RNP26THR	1952254 50
MCDNV 1,5/12-G1-3,5 RNP26THR	1952694 50
MCDNV 1,5/13-G1-3,5 RNP26THR	1952704 50
MCDNV 1,5/14-G1-3,5 RNP26THR	1952717 50
MCDNV 1,5/15-G1-3,5 RNP26THR	1952720 50
MCDNV 1,5/16-G1-3,5 RNP26THR	1952733 50

Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 3.5 mm, color: Black	
MCDNV 1,5/ 2-G1-3,5 RNP26THR	1952458 50
MCDNV 1,5/ 3-G1-3,5 RNP26THR	1952461 50
MCDNV 1,5/ 4-G1-3,5 RNP26THR	1952474 50
MCDNV 1,5/ 5-G1-3,5 RNP26THR	1952487 50
MCDNV 1,5/ 6-G1-3,5 RNP26THR	1952490 50
MCDNV 1,5/ 7-G1-3,5 RNP26THR	1952212 50
MCDNV 1,5/ 8-G1-3,5 RNP26THR	1952225 50
MCDNV 1,5/ 9-G1-3,5 RNP26THR	1952238 50
MCDNV 1,5/10-G1-3,5 RNP26THR	1952241 50
MCDNV 1,5/11-G1-3,5 RNP26THR	1952254 50
MCDNV 1,5/12-G1-3,5 RNP26THR	1952694 50
MCDNV 1,5/13-G1-3,5 RNP26THR	1952704 50
MCDNV 1,5/14-G1-3,5 RNP26THR	1952717 50
MCDNV 1,5/15-G1-3,5 RNP26THR	1952720 50
MCDNV 1,5/16-G1-3,5 RNP26THR	1952733 50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for press-in technology



- Pin strips with flexible press-in zone ERNI-PRESS
- Plug-in direction horizontal and vertical to the PCB
- Processing as per EN 60352-5
- Press-in tools available on request
- Versions with and without a threaded flange
- You can find user notes and recommendations for the press-in technology on page 31

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

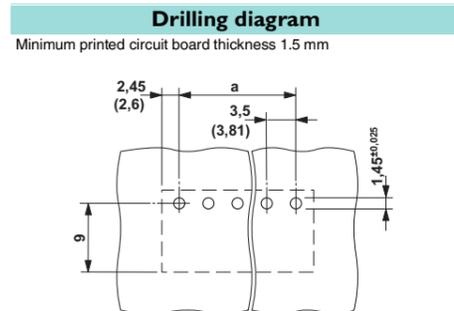
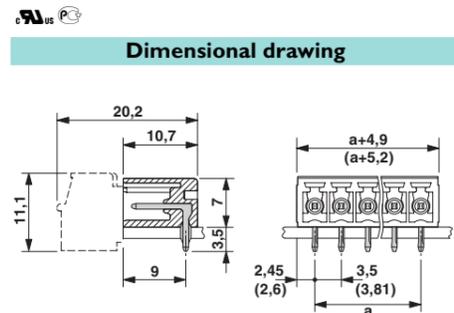
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C.

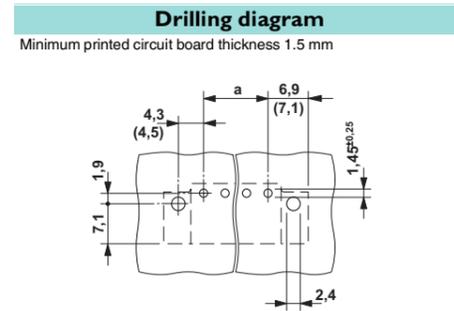
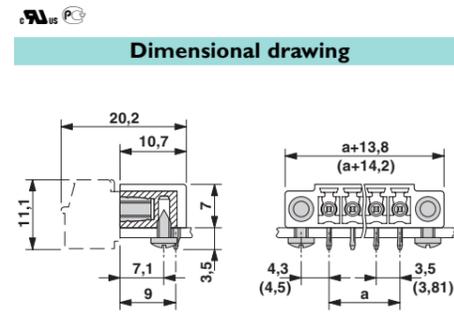
For the structure of the plated bore hole for EMC 1,5/...-G(F).... and EMCV 1,5/...-G(F).... see page 31.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
	Stamp holder EMC 1,5-SH Order No. 1877258	826
Only for EMCV 1,5/...-G(F)-3,81		
	Stamp set EMCV 1,5-SS 1 Order No. 1877274	826

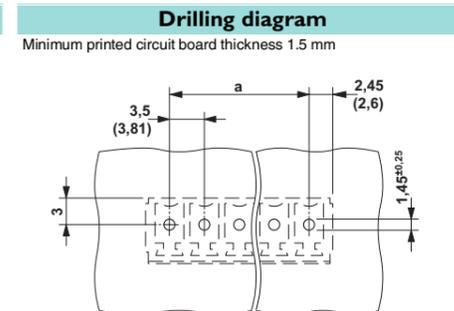
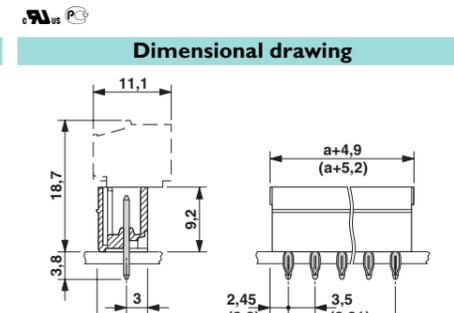
Plug-in direction parallel to the PCB



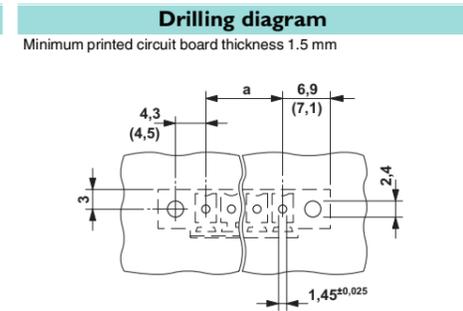
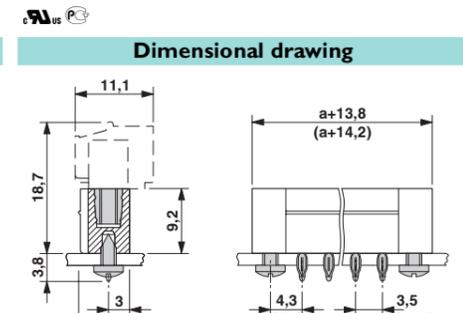
With threaded flange, plug-in direction parallel to the PCB



Plug-in direction vertical to the PCB



With threaded flange, plug-in direction vertical to the PCB



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5 / 3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - -
Nominal current	[A] - -
Connection capacity AWG	AWG - -
General data	
Type of insulation material / insulation material group	PBT / Illa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.45 / 0.8 x 0.8 mm

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
EMC 1,5/ 2-G-3,5	1897092	50	
EMC 1,5/ 3-G-3,5	1897102	50	
EMC 1,5/ 4-G-3,5	1897115	50	
EMC 1,5/ 5-G-3,5	1897128	50	
EMC 1,5/ 6-G-3,5	1897131	50	
EMC 1,5/ 7-G-3,5	1897144	50	
EMC 1,5/ 8-G-3,5	1897157	50	
EMC 1,5/ 9-G-3,5	1897160	50	
EMC 1,5/10-G-3,5	1897173	50	
EMC 1,5/11-G-3,5	1897186	50	
EMC 1,5/12-G-3,5	1897199	50	
EMC 1,5/13-G-3,5	1897209	50	
EMC 1,5/14-G-3,5	1897212	50	
EMC 1,5/15-G-3,5	1897225	50	
EMC 1,5/16-G-3,5	1897238	50	
Pitch 3.81 mm, color: Green			
EMC 1,5/ 2-G-3,81	1897801	50	
EMC 1,5/ 3-G-3,81	1897814	50	
EMC 1,5/ 4-G-3,81	1897827	50	
EMC 1,5/ 5-G-3,81	1897830	50	
EMC 1,5/ 6-G-3,81	1897843	50	
EMC 1,5/ 7-G-3,81	1897856	50	
EMC 1,5/ 8-G-3,81	1897869	50	
EMC 1,5/ 9-G-3,81	1897872	50	
EMC 1,5/10-G-3,81	1897885	50	
EMC 1,5/11-G-3,81	1897898	50	
EMC 1,5/12-G-3,81	1897908	50	
EMC 1,5/13-G-3,81	1897911	50	
EMC 1,5/14-G-3,81	1897924	50	
EMC 1,5/15-G-3,81	1897937	50	
EMC 1,5/16-G-3,81	1897940	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
EMC 1,5/ 2-GF-3,5	1897241	50	
EMC 1,5/ 3-GF-3,5	1897254	50	
EMC 1,5/ 4-GF-3,5	1897267	50	
EMC 1,5/ 5-GF-3,5	1897270	50	
EMC 1,5/ 6-GF-3,5	1897283	50	
EMC 1,5/ 7-GF-3,5	1897296	50	
EMC 1,5/ 8-GF-3,5	1897306	50	
EMC 1,5/ 9-GF-3,5	1897319	50	
EMC 1,5/10-GF-3,5	1897322	50	
EMC 1,5/11-GF-3,5	1897335	50	
EMC 1,5/12-GF-3,5	1897348	50	
EMC 1,5/13-GF-3,5	1897351	50	
EMC 1,5/14-GF-3,5	1897364	50	
EMC 1,5/15-GF-3,5	1897377	50	
EMC 1,5/16-GF-3,5	1897380	50	
Pitch 3.81 mm, color: Green			
EMC 1,5/ 2-GF-3,81	1896941	50	
EMC 1,5/ 3-GF-3,81	1896954	50	
EMC 1,5/ 4-GF-3,81	1896967	50	
EMC 1,5/ 5-GF-3,81	1896970	50	
EMC 1,5/ 6-GF-3,81	1896983	50	
EMC 1,5/ 7-GF-3,81	1896996	50	
EMC 1,5/ 8-GF-3,81	1897005	50	
EMC 1,5/ 9-GF-3,81	1897018	50	
EMC 1,5/10-GF-3,81	1897021	50	
EMC 1,5/11-GF-3,81	1897034	50	
EMC 1,5/12-GF-3,81	1897047	50	
EMC 1,5/13-GF-3,81	1897050	50	
EMC 1,5/14-GF-3,81	1897063	50	
EMC 1,5/15-GF-3,81	1897076	50	
EMC 1,5/16-GF-3,81	1897089	50	

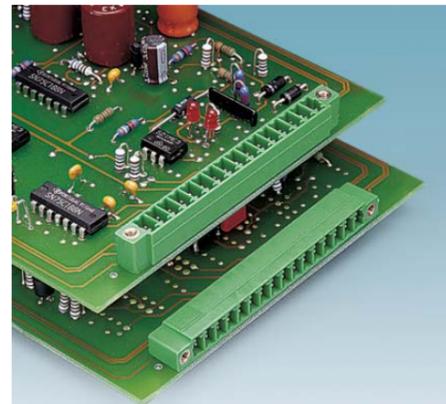
Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
EMCV 1,5/ 2-G-3,5	1911017	50	
EMCV 1,5/ 3-G-3,5	1911020	50	
EMCV 1,5/ 4-G-3,5	1911033	50	
EMCV 1,5/ 5-G-3,5	1911046	50	
EMCV 1,5/ 6-G-3,5	1911059	50	
EMCV 1,5/ 7-G-3,5	1911062	50	
EMCV 1,5/ 8-G-3,5	1911075	50	
EMCV 1,5/ 9-G-3,5	1911088	50	
EMCV 1,5/10-G-3,5	1911091	50	
EMCV 1,5/11-G-3,5	1911101	50	
EMCV 1,5/12-G-3,5	1911114	50	
EMCV 1,5/13-G-3,5	1911127	50	
EMCV 1,5/14-G-3,5	1911130	50	
EMCV 1,5/15-G-3,5	1911143	50	
EMCV 1,5/16-G-3,5	1911156	50	
Pitch 3.81 mm, color: Green			
EMCV 1,5/ 2-G-3,81	1860647	50	
EMCV 1,5/ 3-G-3,81	1860650	50	
EMCV 1,5/ 4-G-3,81	1860663	50	
EMCV 1,5/ 5-G-3,81	1860676	50	
EMCV 1,5/ 6-G-3,81	1860689	50	
EMCV 1,5/ 7-G-3,81	1860692	50	
EMCV 1,5/ 8-G-3,81	1860702	50	
EMCV 1,5/ 9-G-3,81	1860715	50	
EMCV 1,5/10-G-3,81	1860728	50	
EMCV 1,5/11-G-3,81	1860731	50	
EMCV 1,5/12-G-3,81	1860744	50	
EMCV 1,5/13-G-3,81	1860757	50	
EMCV 1,5/14-G-3,81	1860760	50	
EMCV 1,5/15-G-3,81	1860773	50	
EMCV 1,5/16-G-3,81	1860786	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: Green			
EMCV 1,5/ 2-GF-3,5	1911169	50	
EMCV 1,5/ 3-GF-3,5	1911172	50	
EMCV 1,5/ 4-GF-3,5	1911185	50	
EMCV 1,5/ 5-GF-3,5	1911198	50	
EMCV 1,5/ 6-GF-3,5	1911208	50	
EMCV 1,5/ 7-GF-3,5	1911211	50	
EMCV 1,5/ 8-GF-3,5	1911224	50	
EMCV 1,5/ 9-GF-3,5	1911237	50	
EMCV 1,5/10-GF-3,5	1911240	50	
EMCV 1,5/11-GF-3,5	1911253	50	
EMCV 1,5/12-GF-3,5	1911266	50	
EMCV 1,5/13-GF-3,5	1911279	50	
EMCV 1,5/14-GF-3,5	1911282	50	
EMCV 1,5/15-GF-3,5	1911295	50	
EMCV 1,5/16-GF-3,5	1911305	50	
Pitch 3.81 mm, color: Green			
EMCV 1,5/ 2-GF-3,81	1879285	50	
EMCV 1,5/ 3-GF-3,81	1879298	50	
EMCV 1,5/ 4-GF-3,81	1879308	50	
EMCV 1,5/ 5-GF-3,81	1879311	50	
EMCV 1,5/ 6-GF-3,81	1879324	50	
EMCV 1,5/ 7-GF-3,81	1879337	50	
EMCV 1,5/ 8-GF-3,81	1879340	50	
EMCV 1,5/ 9-GF-3,81	1879353	50	
EMCV 1,5/10-GF-3,81	1879366	50	
EMCV 1,5/11-GF-3,81	1879379	50	
EMCV 1,5/12-GF-3,81	1879382	50	
EMCV 1,5/13-GF-3,81	1879395	50	
EMCV 1,5/14-GF-3,81	1879405	50	
EMCV 1,5/15-GF-3,81	1879418	50	
EMCV 1,5/16-GF-3,81	1879421	50	

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction parallel and vertical to the PCB
- Versions with and without a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with Lock & Release locking and threaded flange can be used with plugs with Lock & Release or with screw flange
- Individual position keying by inserting the keying profiles
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5 / 3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
General data	
Type of insulation material / insulation material group	PBT / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0,8 x 0,8 mm

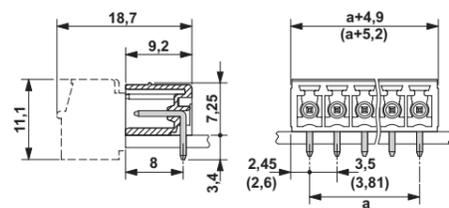
No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data

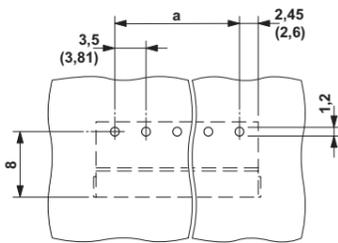
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-G-3,5	1844210	250
MC 1,5/ 3-G-3,5	1844223	250
MC 1,5/ 4-G-3,5	1844236	250
MC 1,5/ 5-G-3,5	1844249	250
MC 1,5/ 6-G-3,5	1844252	100
MC 1,5/ 7-G-3,5	1844265	100
MC 1,5/ 8-G-3,5	1844278	100
MC 1,5/ 9-G-3,5	1844281	100
MC 1,5/10-G-3,5	1844294	100
MC 1,5/11-G-3,5	1844304	50
MC 1,5/12-G-3,5	1844317	50
MC 1,5/13-G-3,5	1844320	50
MC 1,5/14-G-3,5	1844333	50
MC 1,5/15-G-3,5	1844346	50
MC 1,5/16-G-3,5	1844359	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-G-3,81	1803277	250
MC 1,5/ 3-G-3,81	1803280	250
MC 1,5/ 4-G-3,81	1803293	250
MC 1,5/ 5-G-3,81	1803303	250
MC 1,5/ 6-G-3,81	1803316	100
MC 1,5/ 7-G-3,81	1803329	100
MC 1,5/ 8-G-3,81	1803332	100
MC 1,5/ 9-G-3,81	1803345	100
MC 1,5/10-G-3,81	1803358	100
MC 1,5/11-G-3,81	1803361	50
MC 1,5/12-G-3,81	1803374	50
MC 1,5/13-G-3,81	1803387	50
MC 1,5/14-G-3,81	1803390	50
MC 1,5/15-G-3,81	1803400	50
MC 1,5/16-G-3,81	1803413	50



Dimensional drawing



Drilling diagram



Ordering data

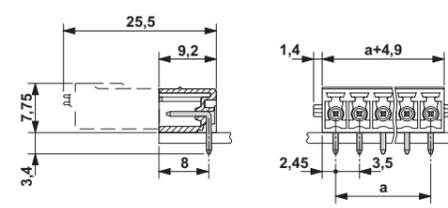
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-G-3,5	1844210	250
MC 1,5/ 3-G-3,5	1844223	250
MC 1,5/ 4-G-3,5	1844236	250
MC 1,5/ 5-G-3,5	1844249	250
MC 1,5/ 6-G-3,5	1844252	100
MC 1,5/ 7-G-3,5	1844265	100
MC 1,5/ 8-G-3,5	1844278	100
MC 1,5/ 9-G-3,5	1844281	100
MC 1,5/10-G-3,5	1844294	100
MC 1,5/11-G-3,5	1844304	50
MC 1,5/12-G-3,5	1844317	50
MC 1,5/13-G-3,5	1844320	50
MC 1,5/14-G-3,5	1844333	50
MC 1,5/15-G-3,5	1844346	50
MC 1,5/16-G-3,5	1844359	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-G-3,81	1803277	250
MC 1,5/ 3-G-3,81	1803280	250
MC 1,5/ 4-G-3,81	1803293	250
MC 1,5/ 5-G-3,81	1803303	250
MC 1,5/ 6-G-3,81	1803316	100
MC 1,5/ 7-G-3,81	1803329	100
MC 1,5/ 8-G-3,81	1803332	100
MC 1,5/ 9-G-3,81	1803345	100
MC 1,5/10-G-3,81	1803358	100
MC 1,5/11-G-3,81	1803361	50
MC 1,5/12-G-3,81	1803374	50
MC 1,5/13-G-3,81	1803387	50
MC 1,5/14-G-3,81	1803390	50
MC 1,5/15-G-3,81	1803400	50
MC 1,5/16-G-3,81	1803413	50



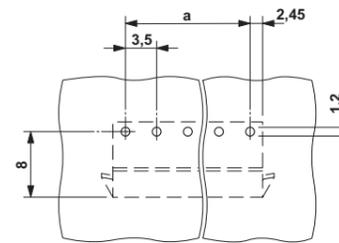
With engagement noses, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-G-3,5-RN	1731675	50
MC 1,5/ 3-G-3,5-RN	1731688	50
MC 1,5/ 4-G-3,5-RN	1731691	50
MC 1,5/ 5-G-3,5-RN	1731701	50
MC 1,5/ 6-G-3,5-RN	1731714	50
MC 1,5/ 7-G-3,5-RN	1731727	50
MC 1,5/ 8-G-3,5-RN	1731730	50
MC 1,5/ 9-G-3,5-RN	1731743	50
MC 1,5/10-G-3,5-RN	1731756	50
MC 1,5/11-G-3,5-RN	1731769	50
MC 1,5/12-G-3,5-RN	1731772	50
MC 1,5/13-G-3,5-RN	1731785	50
MC 1,5/14-G-3,5-RN	1731798	50
MC 1,5/15-G-3,5-RN	1731808	50
MC 1,5/16-G-3,5-RN	1731811	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

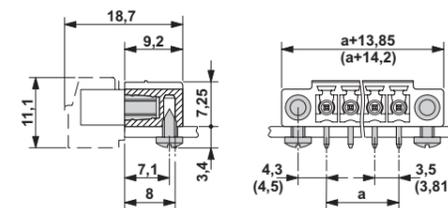
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



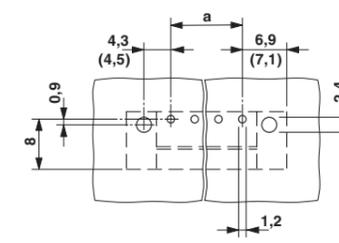
With threaded flange, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram



Ordering data

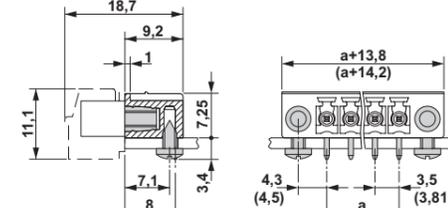
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-GF-3,5	1843790	250
MC 1,5/ 3-GF-3,5	1843800	250
MC 1,5/ 4-GF-3,5	1843813	250
MC 1,5/ 5-GF-3,5	1843826	250
MC 1,5/ 6-GF-3,5	1843839	100
MC 1,5/ 7-GF-3,5	1843842	100
MC 1,5/ 8-GF-3,5	1843855	100
MC 1,5/ 9-GF-3,5	1843868	100
MC 1,5/10-GF-3,5	1843871	100
MC 1,5/11-GF-3,5	1843884	50
MC 1,5/12-GF-3,5	1843897	50
MC 1,5/13-GF-3,5	1843907	50
MC 1,5/14-GF-3,5	1843910	50
MC 1,5/15-GF-3,5	1843923	50
MC 1,5/16-GF-3,5	1843936	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-GF-3,81	1827868	250
MC 1,5/ 3-GF-3,81	1827871	250
MC 1,5/ 4-GF-3,81	1827884	250
MC 1,5/ 5-GF-3,81	1827897	250
MC 1,5/ 6-GF-3,81	1827907	100
MC 1,5/ 7-GF-3,81	1827910	100
MC 1,5/ 8-GF-3,81	1827923	100
MC 1,5/ 9-GF-3,81	1827936	100
MC 1,5/10-GF-3,81	1827949	100
MC 1,5/11-GF-3,81	1827952	50
MC 1,5/12-GF-3,81	1827965	50
MC 1,5/13-GF-3,81	1827978	50
MC 1,5/14-GF-3,81	1827981	50
MC 1,5/15-GF-3,81	1827994	50
MC 1,5/16-GF-3,81	1828003	50



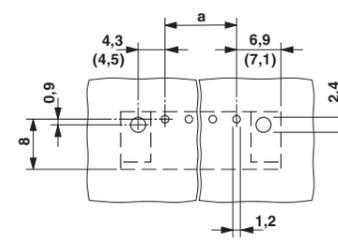
With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram



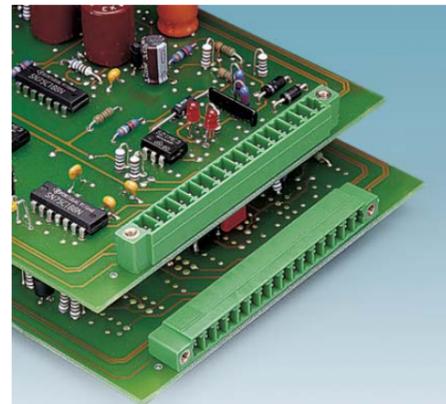
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-GF-3,5-LR	1817615	50
MC 1,5/ 3-GF-3,5-LR	1817628	50
MC 1,5/ 4-GF-3,5-LR	1817631	50
MC 1,5/ 5-GF-3,5-LR	1817644	50
MC 1,5/ 6-GF-3,5-LR	1817657	50
MC 1,5/ 7-GF-3,5-LR	1817660	50
MC 1,5/ 8-GF-3,5-LR	1817673	50
MC 1,5/ 9-GF-3,5-LR	1817686	50
MC 1,5/10-GF-3,5-LR	1817699	50
MC 1,5/11-GF-3,5-LR	1817709	50
MC 1,5/12-GF-3,5-LR	1817712	50
MC 1,5/13-GF-3,5-LR	1817725	50
MC 1,5/14-GF-3,5-LR	1817738	50
MC 1,5/15-GF-3,5-LR	1817741	50
MC 1,5/16-GF-3,5-LR	1817754	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-GF-3,81-LR	1817806	50
MC 1,5/ 3-GF-3,81-LR	1817819	50
MC 1,5/ 4-GF-3,81-LR	1817822	50
MC 1,5/ 5-GF-3,81-LR	1817835	50
MC 1,5/ 6-GF-3,81-LR	1817848	50
MC 1,5/ 7-GF-3,81-LR	1817851	50
MC 1,5/ 8-GF-3,81-LR	1817864	50
MC 1,5/ 9-GF-3,81-LR	1817877	50
MC 1,5/10-GF-3,81-LR	1817880	50
MC 1,5/11-GF-3,81-LR	1817893	50
MC 1,5/12-GF-3,81-LR	1817906	50
MC 1,5/13-GF-3,81-LR	1817919	50
MC 1,5/14-GF-3,81-LR	1817929	50
MC 1,5/15-GF-3,81-LR	1817932	50
MC 1,5/16-GF-3,81-LR	1817945	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction vertical to the PCB
- Versions with and without a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with Lock & Release locking and threaded flange can be used with plugs with Lock & Release or with screw flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

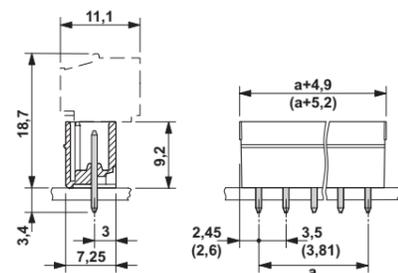
Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.

Accessories

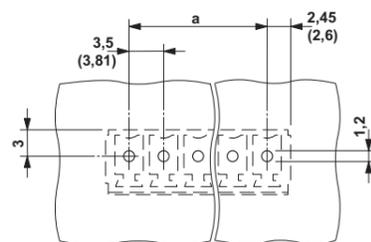
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,81/2,8	797



Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green				
2	3.50	MCV 1,5/ 2-G-3,5	1843606	250
3	7.00	MCV 1,5/ 3-G-3,5	1843619	250
4	10.50	MCV 1,5/ 4-G-3,5	1843622	250
5	14.00	MCV 1,5/ 5-G-3,5	1843635	250
6	17.50	MCV 1,5/ 6-G-3,5	1843648	100
7	21.00	MCV 1,5/ 7-G-3,5	1843651	100
8	24.50	MCV 1,5/ 8-G-3,5	1843664	100
9	28.00	MCV 1,5/ 9-G-3,5	1843677	100
10	31.50	MCV 1,5/10-G-3,5	1843680	100
11	35.00	MCV 1,5/11-G-3,5	1843693	50
12	38.50	MCV 1,5/12-G-3,5	1843703	50
13	42.00	MCV 1,5/13-G-3,5	1843716	50
14	45.50	MCV 1,5/14-G-3,5	1843729	50
15	49.00	MCV 1,5/15-G-3,5	1843732	50
16	52.50	MCV 1,5/16-G-3,5	1843745	50
Pitch 3.81 mm, color: Green				
2	3.81	MCV 1,5/ 2-G-3,81	1803426	250
3	7.62	MCV 1,5/ 3-G-3,81	1803439	250
4	11.43	MCV 1,5/ 4-G-3,81	1803442	250
5	15.24	MCV 1,5/ 5-G-3,81	1803455	250
6	19.05	MCV 1,5/ 6-G-3,81	1803468	100
7	22.86	MCV 1,5/ 7-G-3,81	1803471	100
8	26.67	MCV 1,5/ 8-G-3,81	1803484	100
9	30.48	MCV 1,5/ 9-G-3,81	1803497	100
10	34.29	MCV 1,5/10-G-3,81	1803507	100
11	38.10	MCV 1,5/11-G-3,81	1803510	50
12	41.91	MCV 1,5/12-G-3,81	1803523	50
13	45.72	MCV 1,5/13-G-3,81	1803536	50
14	49.53	MCV 1,5/14-G-3,81	1803549	50
15	53.34	MCV 1,5/15-G-3,81	1803552	50
16	57.15	MCV 1,5/16-G-3,81	1803565	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

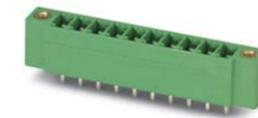
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



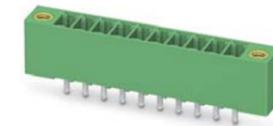
Plug-in direction vertical to the PCB



With engagement noses, plug-in direction vertical to the PCB



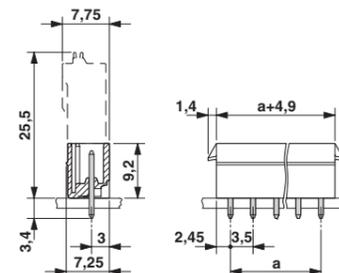
With threaded flange, plug-in direction vertical to the PCB



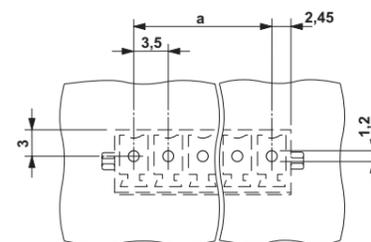
With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram

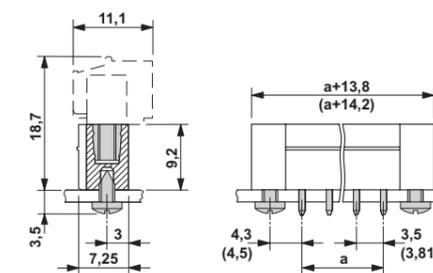


Ordering data

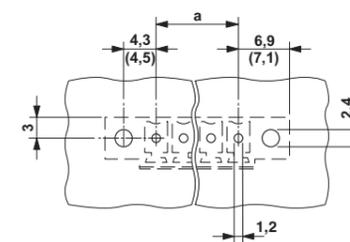
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCV 1,5/ 2-G-3,5-RN	1731471	50
MCV 1,5/ 3-G-3,5-RN	1731484	50
MCV 1,5/ 4-G-3,5-RN	1731497	50
MCV 1,5/ 5-G-3,5-RN	1731510	50
MCV 1,5/ 6-G-3,5-RN	1731523	50
MCV 1,5/ 7-G-3,5-RN	1731536	50
MCV 1,5/ 8-G-3,5-RN	1731549	50
MCV 1,5/ 9-G-3,5-RN	1731552	50
MCV 1,5/10-G-3,5-RN	1731565	50
MCV 1,5/11-G-3,5-RN	1731578	50
MCV 1,5/12-G-3,5-RN	1731581	50
MCV 1,5/13-G-3,5-RN	1731594	50
MCV 1,5/14-G-3,5-RN	1731604	50
MCV 1,5/15-G-3,5-RN	1731617	50
MCV 1,5/16-G-3,5-RN	1731620	50



Dimensional drawing



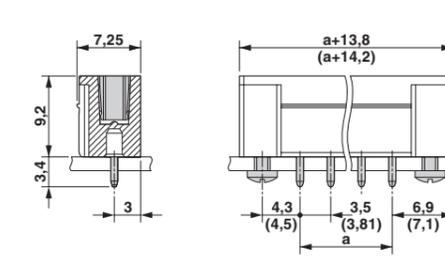
Drilling diagram



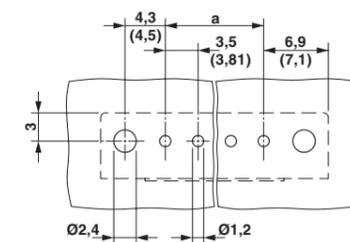
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCV 1,5/ 2-GF-3,5	1843224	250
MCV 1,5/ 3-GF-3,5	1843237	250
MCV 1,5/ 4-GF-3,5	1843240	250
MCV 1,5/ 5-GF-3,5	1843253	250
MCV 1,5/ 6-GF-3,5	1843266	100
MCV 1,5/ 7-GF-3,5	1843279	100
MCV 1,5/ 8-GF-3,5	1843282	100
MCV 1,5/ 9-GF-3,5	1843295	100
MCV 1,5/10-GF-3,5	1843305	100
MCV 1,5/11-GF-3,5	1843318	50
MCV 1,5/12-GF-3,5	1843321	50
MCV 1,5/13-GF-3,5	1843334	50
MCV 1,5/14-GF-3,5	1843347	50
MCV 1,5/15-GF-3,5	1843350	50
MCV 1,5/16-GF-3,5	1843363	50
Pitch 3.81 mm, color: Green		
MCV 1,5/ 2-GF-3,81	1830596	250
MCV 1,5/ 3-GF-3,81	1830606	250
MCV 1,5/ 4-GF-3,81	1830619	250
MCV 1,5/ 5-GF-3,81	1830622	250
MCV 1,5/ 6-GF-3,81	1830635	100
MCV 1,5/ 7-GF-3,81	1830648	100
MCV 1,5/ 8-GF-3,81	1830651	100
MCV 1,5/ 9-GF-3,81	1830664	100
MCV 1,5/10-GF-3,81	1830677	100
MCV 1,5/11-GF-3,81	1830680	50
MCV 1,5/12-GF-3,81	1830693	50
MCV 1,5/13-GF-3,81	1830703	50
MCV 1,5/14-GF-3,81	1830716	50
MCV 1,5/15-GF-3,81	1830729	50
MCV 1,5/16-GF-3,81	1830732	50

Dimensional drawing



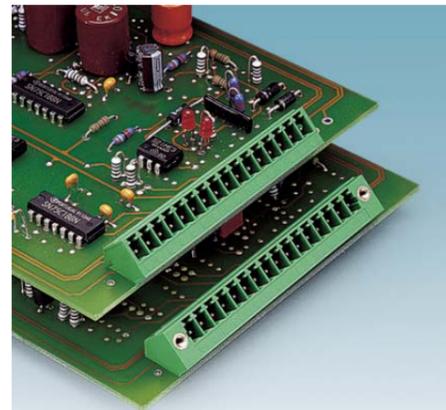
Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCV 1,5/ 2-GF-3,5-LR	1817990	50
MCV 1,5/ 3-GF-3,5-LR	1818009	50
MCV 1,5/ 4-GF-3,5-LR	1818012	50
MCV 1,5/ 5-GF-3,5-LR	1818025	50
MCV 1,5/ 6-GF-3,5-LR	1818038	50
MCV 1,5/ 7-GF-3,5-LR	1818041	50
MCV 1,5/ 8-GF-3,5-LR	1818054	50
MCV 1,5/ 9-GF-3,5-LR	1818067	50
MCV 1,5/10-GF-3,5-LR	1818070	50
MCV 1,5/11-GF-3,5-LR	1818083	50
MCV 1,5/12-GF-3,5-LR	1818096	50
MCV 1,5/13-GF-3,5-LR	1818106	50
MCV 1,5/14-GF-3,5-LR	1818119	50
MCV 1,5/15-GF-3,5-LR	1818122	50
MCV 1,5/16-GF-3,5-LR	1818135	50
Pitch 3.81 mm, color: Green		
MCV 1,5/ 2-GF-3,81-LR	1818180	50
MCV 1,5/ 3-GF-3,81-LR	1818193	50
MCV 1,5/ 4-GF-3,81-LR	1818203	50
MCV 1,5/ 5-GF-3,81-LR	1818216	50
MCV 1,5/ 6-GF-3,81-LR	1818229	50
MCV 1,5/ 7-GF-3,81-LR	1818232	50
MCV 1,5/ 8-GF-3,81-LR	1818245	50
MCV 1,5/ 9-GF-3,81-LR	1818258	50
MCV 1,5/10-GF-3,81-LR	1818261	50
MCV 1,5/11-GF-3,81-LR	1818274	50
MCV 1,5/12-GF-3,81-LR	1818287	50
MCV 1,5/13-GF-3,81-LR	1818290	50
MCV 1,5/14-GF-3,81-LR	1818300	50
MCV 1,5/15-GF-3,81-LR	1818313	50
MCV 1,5/16-GF-3,81-LR	1818326	50

Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction at an angle of 45° to the PCB
- 45° angle makes it easier to plug in the connector in restricted spaces
- Versions with and without a threaded flange

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.



Plug-in direction 45° to the PCB

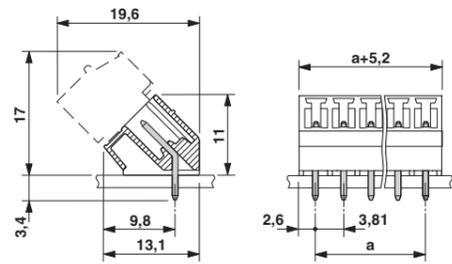


With threaded flange, plug-in direction 45° to the PCB

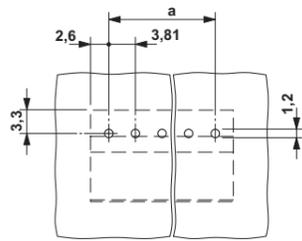
Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,81/2,8	797

Dimensional drawing



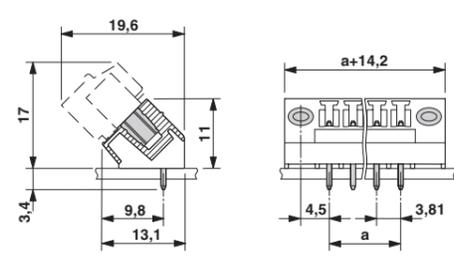
Drilling diagram



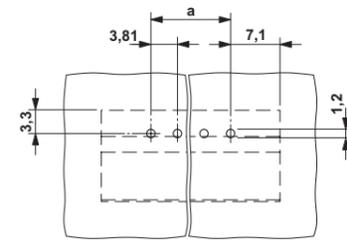
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green				
2	3.81	SMC 1,5/ 2-G-3,81	1827279	50
3	7.62	SMC 1,5/ 3-G-3,81	1827282	50
4	11.43	SMC 1,5/ 4-G-3,81	1827295	50
5	15.24	SMC 1,5/ 5-G-3,81	1827305	50
6	19.05	SMC 1,5/ 6-G-3,81	1827318	50
7	22.86	SMC 1,5/ 7-G-3,81	1827321	50
8	26.67	SMC 1,5/ 8-G-3,81	1827334	50
9	30.48	SMC 1,5/ 9-G-3,81	1827347	50
10	34.29	SMC 1,5/10-G-3,81	1827350	50
11	38.10	SMC 1,5/11-G-3,81	1827363	50
12	41.91	SMC 1,5/12-G-3,81	1827376	50
13	45.72	SMC 1,5/13-G-3,81	1827389	50
14	49.53	SMC 1,5/14-G-3,81	1827392	50
15	53.34	SMC 1,5/15-G-3,81	1827402	50
16	57.15	SMC 1,5/16-G-3,81	1827415	50

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
SMC 1,5/ 2-GF-3,81	1827428	50
SMC 1,5/ 3-GF-3,81	1827431	50
SMC 1,5/ 4-GF-3,81	1827444	50
SMC 1,5/ 5-GF-3,81	1827457	50
SMC 1,5/ 6-GF-3,81	1827460	50
SMC 1,5/ 7-GF-3,81	1827473	50
SMC 1,5/ 8-GF-3,81	1827486	50
SMC 1,5/ 9-GF-3,81	1827499	50
SMC 1,5/10-GF-3,81	1827509	50
SMC 1,5/11-GF-3,81	1827512	50
SMC 1,5/12-GF-3,81	1827525	50
SMC 1,5/13-GF-3,81	1827538	50
SMC 1,5/14-GF-3,81	1827541	50
SMC 1,5/15-GF-3,81	1827554	50
SMC 1,5/16-GF-3,81	1827567	50

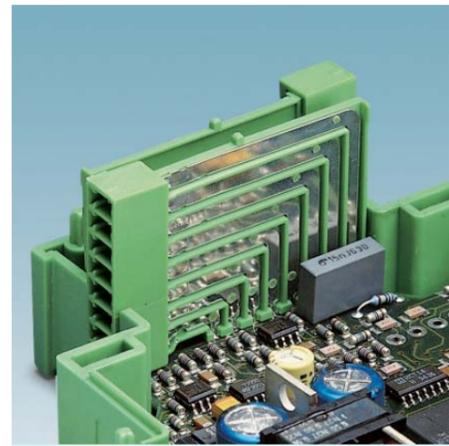
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	8
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.2 / 0.8 x 0.8 mm

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Single-level header for the wave soldering processes



- Space-saving header
- Pin strip perpendicular (orthogonal) to the PCB
- Pitch: 3.81 mm

MCO 1,5/...-GL

- The PCB is to the left of the header

MCO 1,5/...-GR

- The PCB is to the right of the header

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Dimension b:

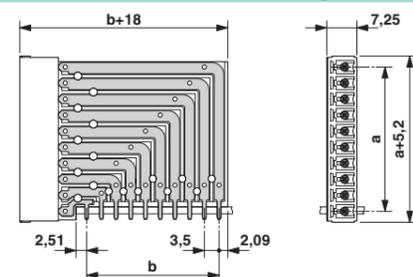
- 3-pos. = 7.00 mm
- 4-pos. = 10.50 mm
- 5-pos. = 14.00 mm
- 6-pos. = 17.50 mm
- 7-pos. = 21.00 mm
- 8-pos. = 24.50 mm
- 9-pos. = 28.00 mm
- 10-pos. = 31.50 mm

Accessories

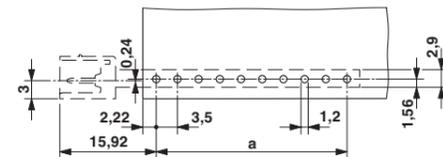
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38



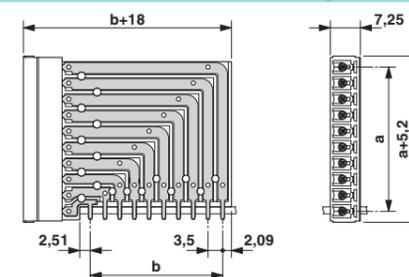
Dimensional drawing



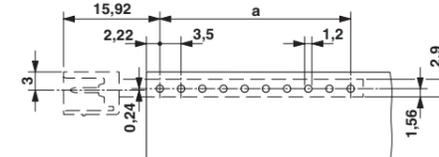
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 125 160 200
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	- - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA (PBT) / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1 / 0,9 x 0,32 mm

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green				
3	7.62	MCO 1,5/ 3-GL-3,81	1861730	50
4	11.43	MCO 1,5/ 4-GL-3,81	1861743	50
5	15.24	MCO 1,5/ 5-GL-3,81	1861756	50
6	19.05	MCO 1,5/ 6-GL-3,81	1861769	50
7	22.86	MCO 1,5/ 7-GL-3,81	1861772	50
8	26.67	MCO 1,5/ 8-GL-3,81	1861785	50
9	30.48	MCO 1,5/ 9-GL-3,81	1861798	50
10	34.29	MCO 1,5/10-GL-3,81	1861808	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCO 1,5/ 3-GR-3,81	1861659	50
MCO 1,5/ 4-GR-3,81	1861662	50
MCO 1,5/ 5-GR-3,81	1861675	50
MCO 1,5/ 6-GR-3,81	1861688	50
MCO 1,5/ 7-GR-3,81	1861691	50
MCO 1,5/ 8-GR-3,81	1861701	50
MCO 1,5/ 9-GR-3,81	1861714	50
MCO 1,5/10-GR-3,81	1861727	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Orthogonal headers for wave soldering processes



- Headers for ME and ME MAX electronic housings
- Plug-in direction orthogonal to the PCB
- Pitch: 3.5 mm
- "Left" and "right" design
- Number of positions between 3 and 5

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.



Pin strip leading off at a right angle "left"

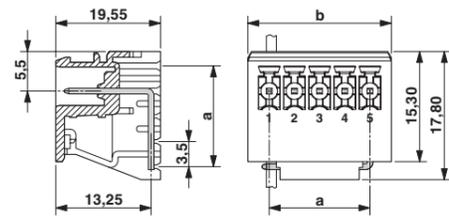


Pin strip leading off at a right angle "right"

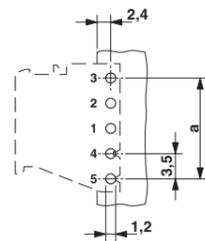
Accessories

For all types	Type	Page
	Keying section CR-MSTBO G1 Order No. 2199618	38

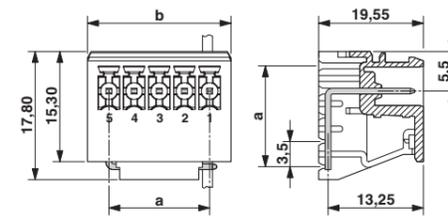
Dimensional drawing



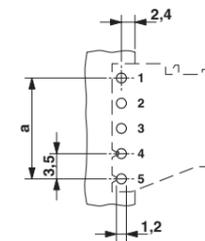
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 320
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0.8 x 0.8 mm

Technical data		
Rated current	[A] 8	
Rated insulation voltage for pollution degree 2	[V] 160	
Pitch	[mm] 3.5	
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	
Rated insulation voltage	[V] 160 160 320	
Rated surge voltage	[kV] 2.5 2.5 2.5	
Approval data (UL/CUL)	Use Group B C D	
Nominal voltage	[V] 300 - 300	
Nominal current	[A] 8 - 8	
Connection capacity AWG	AWG - - -	
Approval data (CSA)	Use Group B C D	
Nominal voltage	[V] - - -	
Nominal current	[A] - - -	
Connection capacity AWG	AWG - - -	
General data		
Type of insulation material / insulation material group	PA / I	
Inflammability class according to UL 94	V0	
Drill hole diameter / pin dimensions	[mm] 1.2 / 0.8 x 0.8 mm	

No. of pos.	Dim. a [mm]
3	7.00
4	10.50
5	14.00

Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON headers, left, pitch: 3.5 mm,color: light gray		
MCO 1,5/ 3-G1L-3,5 KMGY	2278319	50
MCO 1,5/ 4-G1L-3,5 KMGY	2278364	50
MCO 1,5/ 5-G1L-3,5 KMGY	2278380	50

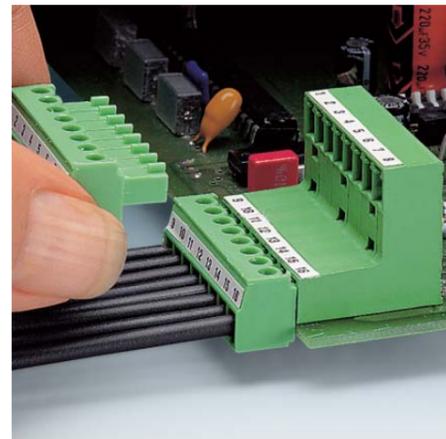
Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON headers, right, pitch: 3.5 mm, color: light gray		
MCO 1,5/ 3-G1R-3,5 KMGY	2278322	50
MCO 1,5/ 4-G1R-3,5 KMGY	2278377	50
MCO 1,5/ 5-G1R-3,5 KMGY	2278351	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Double-level header for the wave soldering processes



- Low-profile double-level headers with high contact density
- Plug-in direction parallel to the PCB
- Versions with and without a threaded flange

MCD 1,5/...-G-3,81

- With offset levels
- Improved view and accessibility to the lower level

MCD 1,5/...-G1-3,81

- Without a level offset, for flush installation in the front of the devices

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,81/2,8	797

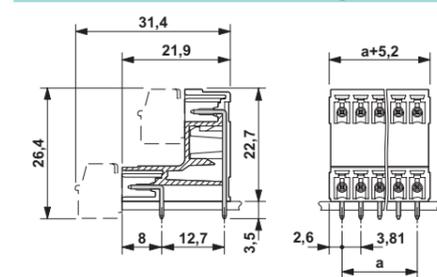
Technical data

Technical data in accordance to IEC / DIN VDE		Pitch 3.81 mm, color: Green		
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Insulation coordination		III / 3	III / 2	II / 2
Surge voltage category / pollution degree		160	160	250
Rated insulation voltage	[V]	2.5	2.5	2.5
Rated surge voltage	[kV]	B	C	D
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data		PA / I		
Type of insulation material / insulation material group		V0		
Inflammability class according to UL 94		1.2 / 0.8 x 0.8 mm		
Drill hole diameter / pin dimensions	[mm]			

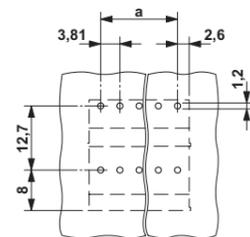
No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15



Dimensional drawing



Drilling diagram



Ordering data

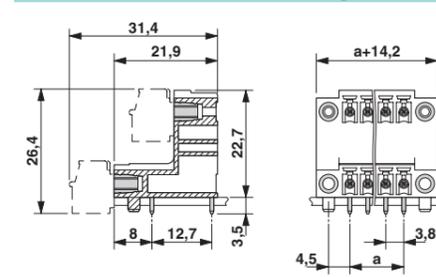
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-G-3,81	1829950	50
MCD 1,5/ 3-G-3,81	1829963	50
MCD 1,5/ 4-G-3,81	1829976	50
MCD 1,5/ 5-G-3,81	1829989	50
MCD 1,5/ 6-G-3,81	1829992	50
MCD 1,5/ 7-G-3,81	1830004	50
MCD 1,5/ 8-G-3,81	1830017	50
MCD 1,5/ 9-G-3,81	1830020	50
MCD 1,5/10-G-3,81	1830033	50
MCD 1,5/11-G-3,81	1830046	50
MCD 1,5/12-G-3,81	1830059	50
MCD 1,5/13-G-3,81	1830062	50
MCD 1,5/14-G-3,81	1830075	50
MCD 1,5/15-G-3,81	1830088	50
MCD 1,5/16-G-3,81	1830091	50



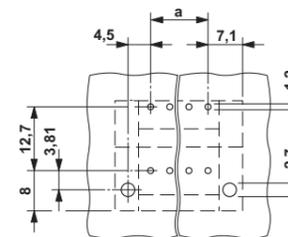
With offset levels and threaded flange



Dimensional drawing



Drilling diagram

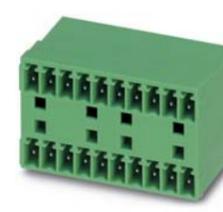


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-GF-3,81	1830101	50
MCD 1,5/ 3-GF-3,81	1830114	50
MCD 1,5/ 4-GF-3,81	1830127	50
MCD 1,5/ 5-GF-3,81	1830130	50
MCD 1,5/ 6-GF-3,81	1830143	50
MCD 1,5/ 7-GF-3,81	1830156	50
MCD 1,5/ 8-GF-3,81	1830169	50
MCD 1,5/ 9-GF-3,81	1830172	50
MCD 1,5/10-GF-3,81	1830185	50
MCD 1,5/11-GF-3,81	1830198	50
MCD 1,5/12-GF-3,81	1830208	50
MCD 1,5/13-GF-3,81	1830211	50
MCD 1,5/14-GF-3,81	1830224	50
MCD 1,5/15-GF-3,81	1830237	50
MCD 1,5/16-GF-3,81	1830240	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

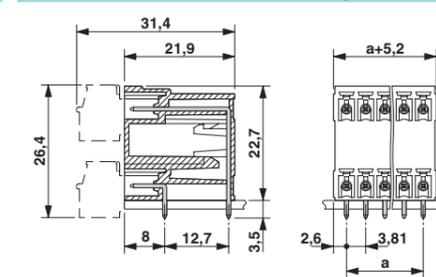
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



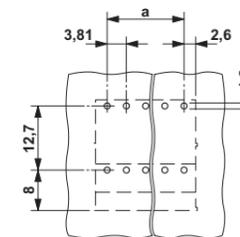
Without offset levels



Dimensional drawing



Drilling diagram



Ordering data

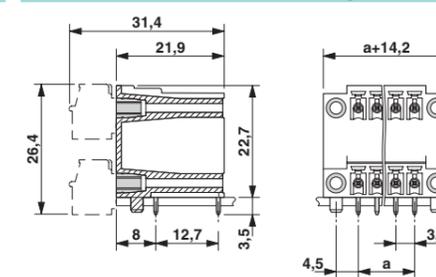
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-G1-3,81	1843075	50
MCD 1,5/ 3-G1-3,81	1843088	50
MCD 1,5/ 4-G1-3,81	1843091	50
MCD 1,5/ 5-G1-3,81	1843101	50
MCD 1,5/ 6-G1-3,81	1843114	50
MCD 1,5/ 7-G1-3,81	1843127	50
MCD 1,5/ 8-G1-3,81	1843130	50
MCD 1,5/ 9-G1-3,81	1843143	50
MCD 1,5/10-G1-3,81	1843156	50
MCD 1,5/11-G1-3,81	1843169	50
MCD 1,5/12-G1-3,81	1843172	50
MCD 1,5/13-G1-3,81	1843185	50
MCD 1,5/14-G1-3,81	1843198	50
MCD 1,5/15-G1-3,81	1843208	50
MCD 1,5/16-G1-3,81	1843211	50



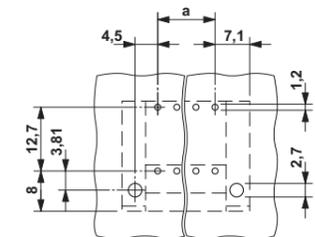
Without offset levels, with threaded flange



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-G1F-3,81	1842911	50
MCD 1,5/ 3-G1F-3,81	1842924	50
MCD 1,5/ 4-G1F-3,81	1842937	50
MCD 1,5/ 5-G1F-3,81	1842940	50
MCD 1,5/ 6-G1F-3,81	1842953	50
MCD 1,5/ 7-G1F-3,81	1842966	50
MCD 1,5/ 8-G1F-3,81	1842979	50
MCD 1,5/ 9-G1F-3,81	1842982	50
MCD 1,5/10-G1F-3,81	1842995	50
MCD 1,5/11-G1F-3,81	1843004	50
MCD 1,5/12-G1F-3,81	1843017	50
MCD 1,5/13-G1F-3,81	1843033	50
MCD 1,5/14-G1F-3,81	1843046	50
MCD 1,5/15-G1F-3,81	1843059	50
MCD 1,5/16-G1F-3,81	1843062	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Double-level header for the wave soldering processes



- Low-profile double-level headers with high contact density
- Plug-in direction vertical to the PCB
- Versions with and without a threaded flange

MCDV 1,5/...-G-3,81

- With offset levels
- Improved view and accessibility to the lower level

MCDV 1,5/...-G1-3,81

- Without a level offset, for flush installation in the front of the devices

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,81/2,8	797

Technical data

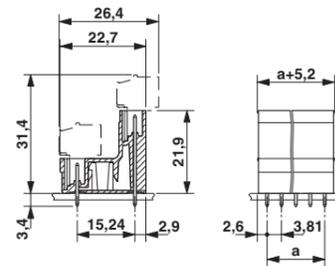
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 160
Pitch	[mm] 3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 160 160 250
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0.8 x 0.8 mm

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

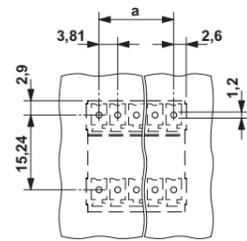
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G-3,81	1830402	50
MCDV 1,5/ 3-G-3,81	1830415	50
MCDV 1,5/ 4-G-3,81	1830428	50
MCDV 1,5/ 5-G-3,81	1830431	50
MCDV 1,5/ 6-G-3,81	1830444	50
MCDV 1,5/ 7-G-3,81	1830457	50
MCDV 1,5/ 8-G-3,81	1830460	50
MCDV 1,5/ 9-G-3,81	1830473	50
MCDV 1,5/10-G-3,81	1830486	50
MCDV 1,5/11-G-3,81	1830499	50
MCDV 1,5/12-G-3,81	1830509	50
MCDV 1,5/13-G-3,81	1830512	50
MCDV 1,5/14-G-3,81	1830525	50
MCDV 1,5/15-G-3,81	1830538	50
MCDV 1,5/16-G-3,81	1830541	50



Dimensional drawing



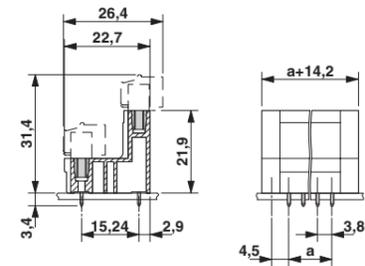
Drilling diagram



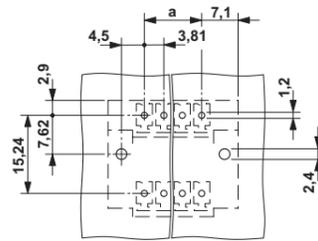
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-GF-3,81	1830253	50
MCDV 1,5/ 3-GF-3,81	1830266	50
MCDV 1,5/ 4-GF-3,81	1830279	50
MCDV 1,5/ 5-GF-3,81	1830282	50
MCDV 1,5/ 6-GF-3,81	1830295	50
MCDV 1,5/ 7-GF-3,81	1830305	50
MCDV 1,5/ 8-GF-3,81	1830318	50
MCDV 1,5/ 9-GF-3,81	1830321	50
MCDV 1,5/10-GF-3,81	1830334	50
MCDV 1,5/11-GF-3,81	1830347	50
MCDV 1,5/12-GF-3,81	1830350	50
MCDV 1,5/13-GF-3,81	1830363	50
MCDV 1,5/14-GF-3,81	1830376	50
MCDV 1,5/15-GF-3,81	1830389	50
MCDV 1,5/16-GF-3,81	1830392	50



Dimensional drawing



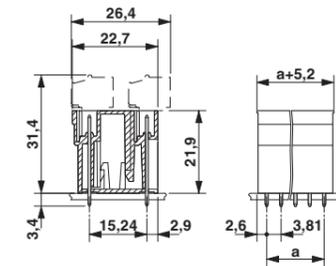
Drilling diagram



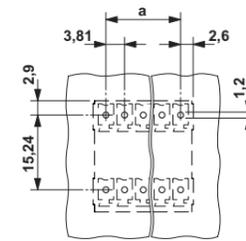
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G1-3,81	1847725	50
MCDV 1,5/ 3-G1-3,81	1847738	50
MCDV 1,5/ 4-G1-3,81	1847741	50
MCDV 1,5/ 5-G1-3,81	1847754	50
MCDV 1,5/ 6-G1-3,81	1847767	50
MCDV 1,5/ 7-G1-3,81	1847783	50
MCDV 1,5/ 8-G1-3,81	1847796	50
MCDV 1,5/ 9-G1-3,81	1847806	50
MCDV 1,5/10-G1-3,81	1847819	50
MCDV 1,5/11-G1-3,81	1847822	50
MCDV 1,5/12-G1-3,81	1847835	50
MCDV 1,5/13-G1-3,81	1847848	50
MCDV 1,5/14-G1-3,81	1847851	50
MCDV 1,5/15-G1-3,81	1847864	50
MCDV 1,5/16-G1-3,81	1847877	50



Dimensional drawing



Drilling diagram



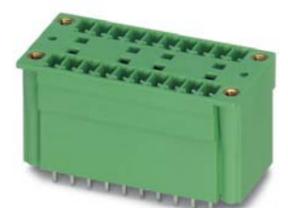
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G1F-3,81	1842762	50
MCDV 1,5/ 3-G1F-3,81	1842775	50
MCDV 1,5/ 4-G1F-3,81	1842788	50
MCDV 1,5/ 5-G1F-3,81	1842791	50
MCDV 1,5/ 6-G1F-3,81	1842801	50
MCDV 1,5/ 7-G1F-3,81	1842814	50
MCDV 1,5/ 8-G1F-3,81	1842827	50
MCDV 1,5/ 9-G1F-3,81	1842830	50
MCDV 1,5/10-G1F-3,81	1842843	50
MCDV 1,5/11-G1F-3,81	1842856	50
MCDV 1,5/12-G1F-3,81	1842869	50
MCDV 1,5/13-G1F-3,81	1842872	50
MCDV 1,5/14-G1F-3,81	1842885	50
MCDV 1,5/15-G1F-3,81	1842898	50
MCDV 1,5/16-G1F-3,81	1842908	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



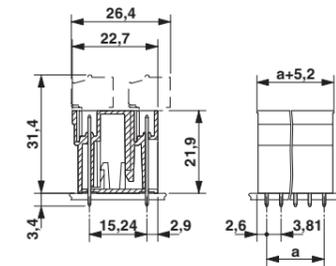
Without offset levels



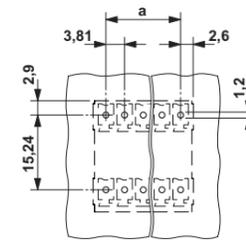
Without offset levels, with threaded flange



Dimensional drawing



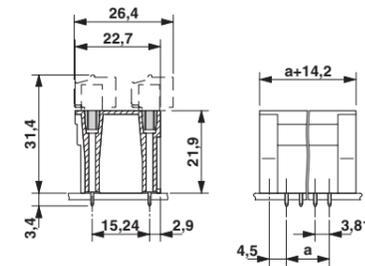
Drilling diagram



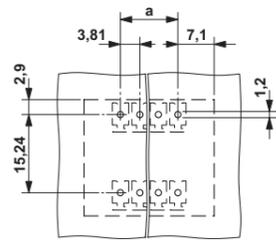
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G1F-3,81	1842762	50
MCDV 1,5/ 3-G1F-3,81	1842775	50
MCDV 1,5/ 4-G1F-3,81	1842788	50
MCDV 1,5/ 5-G1F-3,81	1842791	50
MCDV 1,5/ 6-G1F-3,81	1842801	50
MCDV 1,5/ 7-G1F-3,81	1842814	50
MCDV 1,5/ 8-G1F-3,81	1842827	50
MCDV 1,5/ 9-G1F-3,81	1842830	50
MCDV 1,5/10-G1F-3,81	1842843	50
MCDV 1,5/11-G1F-3,81	1842856	50
MCDV 1,5/12-G1F-3,81	1842869	50
MCDV 1,5/13-G1F-3,81	1842872	50
MCDV 1,5/14-G1F-3,81	1842885	50
MCDV 1,5/15-G1F-3,81	1842898	50
MCDV 1,5/16-G1F-3,81	1842908	50



Dimensional drawing



Drilling diagram



Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G1F-3,81	1842762	50
MCDV 1,5/ 3-G1F-3,81	1842775	50
MCDV 1,5/ 4-G1F-3,81	1842788	50
MCDV 1,5/ 5-G1F-3,81	1842791	50
MCDV 1,5/ 6-G1F-3,81	1842801	50
MCDV 1,5/ 7-G1F-3,81	1842814	50
MCDV 1,5/ 8-G1F-3,81	1842827	50
MCDV 1,5/ 9-G1F-3,81	1842830	50
MCDV 1,5/10-G1F-3,81	1842843	50
MCDV 1,5/11-G1F-3,81	1842856	50
MCDV 1,5/12-G1F-3,81	1842869	50
MCDV 1,5/13-G1F-3,81	1842872	50
MCDV 1,5/14-G1F-3,81	1842885	50
MCDV 1,5/15-G1F-3,81	1842898	50
MCDV 1,5/16-G1F-3,81	1842908	50

Inverted header for the wave soldering processes



- Use in contact protected applications
- Plug-in direction horizontal and vertical to the PCB
- Combination with MC 1,5 pin strips for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- Individual position coding by removing the keying tab and by connecting the keying profile to the counterpart

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Accessories

For all types	Type	Page
	Marker cards SK 3,81/2,8	797

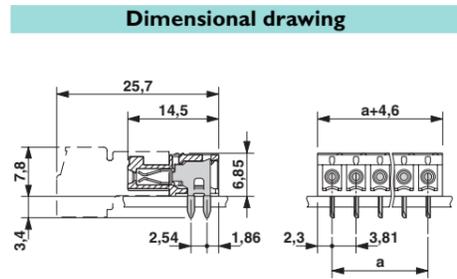
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	8
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.2 / 0.8 x 0.8 mm

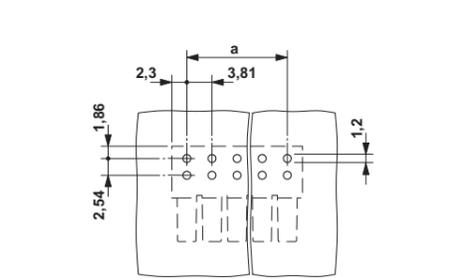
III / 3	III / 2	II / 2
160	160	320
2.5	2.5	2.5
B	C	D
300	-	300
8	-	8
-	-	-
B	C	D
-	-	-
-	-	-
-	-	-
PA / I		
V0		
1.2 / 0.8 x 0.8 mm		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Dimensional drawing



Drilling diagram



Ordering data

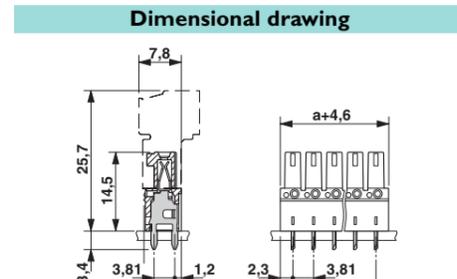
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
IMC 1,5/ 2-G-3,81	1862577	50
IMC 1,5/ 3-G-3,81	1862580	50
IMC 1,5/ 4-G-3,81	1862593	50
IMC 1,5/ 5-G-3,81	1862603	50
IMC 1,5/ 6-G-3,81	1862616	50
IMC 1,5/ 7-G-3,81	1862629	50
IMC 1,5/ 8-G-3,81	1862632	50
IMC 1,5/ 9-G-3,81	1862645	50
IMC 1,5/10-G-3,81	1862658	50
IMC 1,5/11-G-3,81	1862661	50
IMC 1,5/12-G-3,81	1862674	50
IMC 1,5/13-G-3,81	1862687	50
IMC 1,5/14-G-3,81	1862690	50
IMC 1,5/15-G-3,81	1862700	50
IMC 1,5/16-G-3,81	1862713	50

Plug-in direction parallel to the PCB

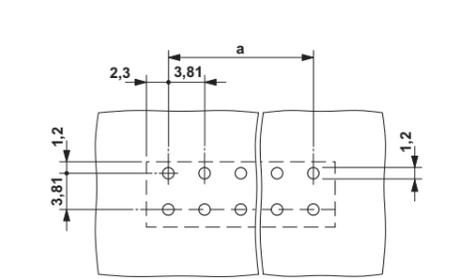


Plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



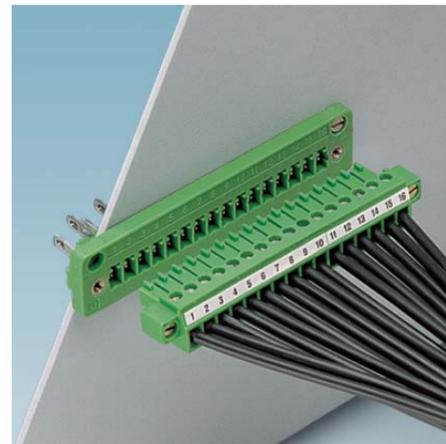
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
IMCV 1,5/ 2-G-3,81	1875425	50
IMCV 1,5/ 3-G-3,81	1875438	50
IMCV 1,5/ 4-G-3,81	1875441	50
IMCV 1,5/ 5-G-3,81	1875454	50
IMCV 1,5/ 6-G-3,81	1875467	50
IMCV 1,5/ 7-G-3,81	1875470	50
IMCV 1,5/ 8-G-3,81	1875483	50
IMCV 1,5/ 9-G-3,81	1875496	50
IMCV 1,5/10-G-3,81	1875506	50
IMCV 1,5/11-G-3,81	1875519	50
IMCV 1,5/12-G-3,81	1875522	50
IMCV 1,5/13-G-3,81	1875535	50
IMCV 1,5/14-G-3,81	1875548	50
IMCV 1,5/15-G-3,81	1875551	50
IMCV 1,5/16-G-3,81	1875564	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Header for panel feed-throughs



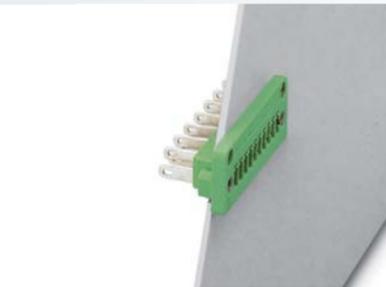
- Header for assembly in a device/housing panel
- Outer plug-in connection for corresponding connectors with 3.81 mm pitch
- Internal optional solder or 2.8 mm slip-on connection
- Separate screw connection with the device/housing wall

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

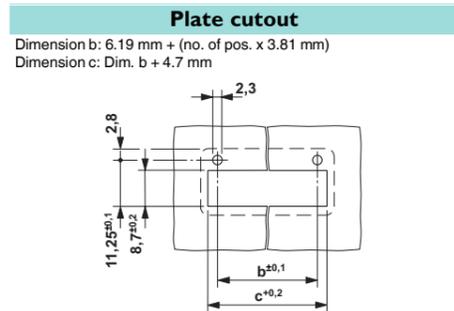
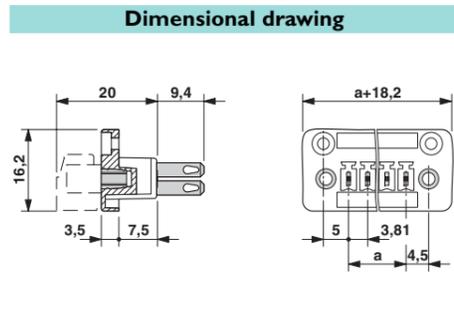
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Sheet metal cutout dimensions b and c, refer to page 838.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,81/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	M2 x 8 mm screw set DFK-MC-SS Order No. 0710015	



With threaded flange, with solder or slip-on connection for housing walls 0.5 to 4 mm thick

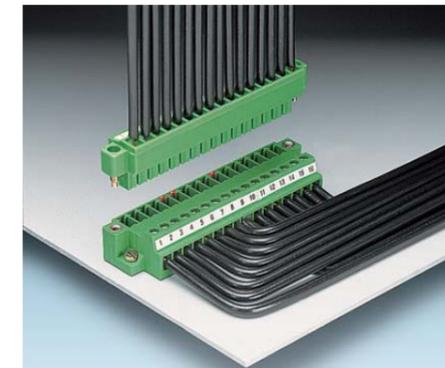


Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: Green			
DFK-MC 1,5/ 2-GF-3,81	1829345	50	
DFK-MC 1,5/ 3-GF-3,81	1829358	50	
DFK-MC 1,5/ 4-GF-3,81	1829361	50	
DFK-MC 1,5/ 5-GF-3,81	1829374	50	
DFK-MC 1,5/ 6-GF-3,81	1829387	50	
DFK-MC 1,5/ 7-GF-3,81	1829390	50	
DFK-MC 1,5/ 8-GF-3,81	1827596	50	
DFK-MC 1,5/ 9-GF-3,81	1829400	50	
DFK-MC 1,5/10-GF-3,81	1829413	50	
DFK-MC 1,5/11-GF-3,81	1829426	50	
DFK-MC 1,5/12-GF-3,81	1829439	50	
DFK-MC 1,5/13-GF-3,81	1829442	50	
DFK-MC 1,5/14-GF-3,81	1829455	50	
DFK-MC 1,5/15-GF-3,81	1829468	50	
DFK-MC 1,5/16-GF-3,81	1829471	50	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 / 1.5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	150 - 150
Nominal current [A]	8 - 8
Connection capacity AWG	28 - 16 - 28 - 16
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Slip-on connection (DIN 46249-1) [A]/[mm]	- / 2,8 x 0,8 mm

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Header for direct mounting



- Direct plug-in block with mounting flanges for screw connection on mounting plates or unit housings
- Shock-proof connection block in combination with MC plug-in system
- Design with a threaded flange

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 / 1.5
Rated insulation voltage for pollution degree 2 [V]	160
Pitch [mm]	3.81
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 0.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.14 - 0.5 / 0.14 - 0.75
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.34
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 0.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 160 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	30 - 14 - 30 - 14
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	28 - 16 - 28 - 16
General data	
Stripping length [mm]	7
Screw thread	M2
Tightening torque [Nm]	0.22 - 0.25
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

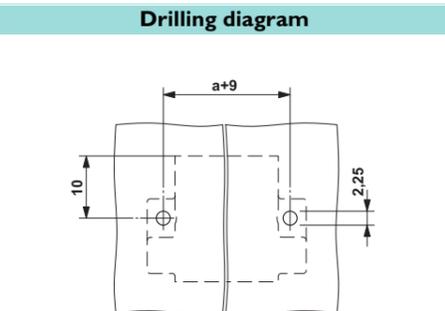
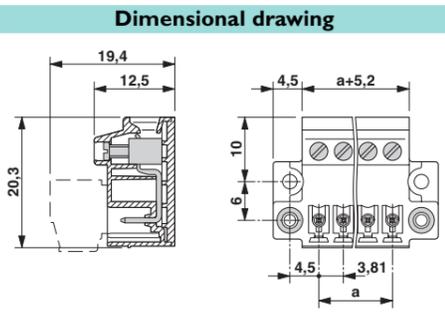
Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,81/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

With threaded flange and flange for direct mounting



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: Green			
MCVU 1,5/ 2-GFD-3,81	1833027	50	
MCVU 1,5/ 3-GFD-3,81	1833030	50	
MCVU 1,5/ 4-GFD-3,81	1833043	50	
MCVU 1,5/ 5-GFD-3,81	1833056	50	
MCVU 1,5/ 6-GFD-3,81	1833069	50	
MCVU 1,5/ 7-GFD-3,81	1833072	50	
MCVU 1,5/ 8-GFD-3,81	1833085	50	
MCVU 1,5/ 9-GFD-3,81	1833098	50	
MCVU 1,5/10-GFD-3,81	1833108	50	
MCVU 1,5/11-GFD-3,81	1833111	50	
MCVU 1,5/12-GFD-3,81	1833124	50	
MCVU 1,5/13-GFD-3,81	1833137	50	
MCVU 1,5/14-GFD-3,81	1833140	50	
MCVU 1,5/15-GFD-3,81	1833153	50	
MCVU 1,5/16-GFD-3,81	1833166	50	

Cable housings



- For MC or IMC plugs with and without flange, with 3.81 mm pitch
- Complete snap-locking of the two half shells of the cable housing
- Cable strain relief using cable binder or cable clamp
- Straight cable outlet for aligning multiple cable housings
- Easier plugging and unplugging processes
- Incl. cable binders and marker strips for all numbers of positions
- Incl. transparent label carriers from 6- to 16-pos.

Technical data

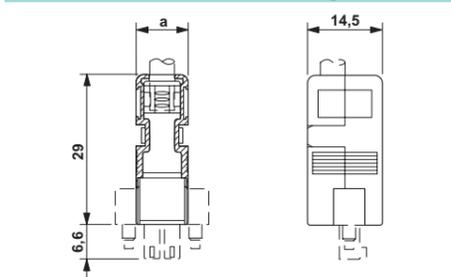
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
General data	
Type of insulation material / insulation material group	ABS / I
Inflammability class according to UL 94	HB

Accessories

For all types	Type	Page
	Simplex marking card SBS 10:Unprinted Order No. 1007248	
	Transparent marker carrier KGG-MC 1,5/DST Order No. 1839050	



Dimensional drawing



2- to 5-pos., for cable diameters up to 5 mm
with 2-pos. housings, up to 8.5 mm with
3- to 5-pos. housings

Ordering data

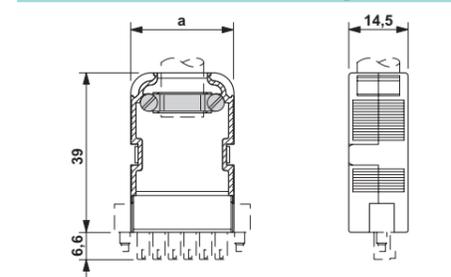
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green				
2	10.01	KGG-MC 1,5/ 2	1834343	10
3	13.82	KGG-MC 1,5/ 3	1834356	10
4	17.63	KGG-MC 1,5/ 4	1834369	10
5	21.44	KGG-MC 1,5/ 5	1834372	10
6	25.25			
7	29.09			
8	32.87			
9	36.68			
10	40.49			
11	44.30			
12	48.11			
13	51.92			
14	55.73			
15	59.54			
16	63.35			



6- to 16-pos., for cable diameters of 4 - 11 mm

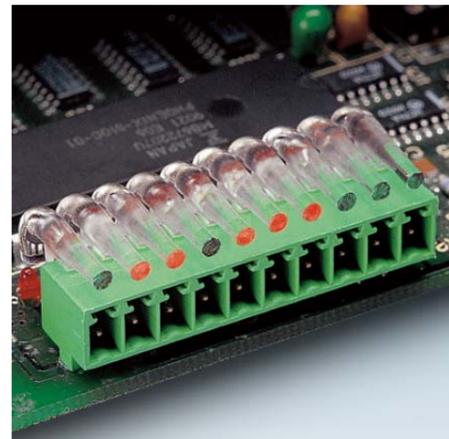


Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
KGG-MC 1,5/ 6	1834385	10
KGG-MC 1,5/ 7	1834398	10
KGG-MC 1,5/ 8	1834408	10
KGG-MC 1,5/ 9	1834411	10
KGG-MC 1,5/10	1834424	10
KGG-MC 1,5/11	1834437	10
KGG-MC 1,5/12	1834440	10
KGG-MC 1,5/13	1834453	10
KGG-MC 1,5/14	1834466	10
KGG-MC 1,5/15	1834479	10
KGG-MC 1,5/16	1834482	10



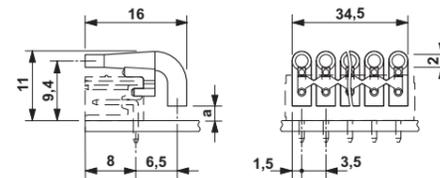
- "Bending" the light of the flat SMD LEDs by 90°. This is thus visible from the front
- Snap-locking on the back side of the standard MC header
- 10-pos., can be separated for small numbers of positions
- Pitch: 3.5 and 3.81 mm
- Distance of 1.5, 2.3 and 4.0 mm from the PCB for a possible use of all conventional SMD LEDs



3.5 mm pitch, snapped onto the rear of the MC header



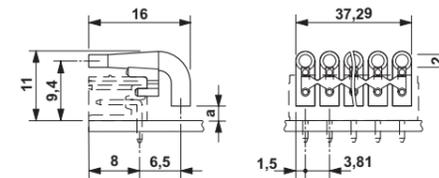
Dimensional drawing



3.81 mm pitch, snapped onto the rear of the MC header



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section	[A] / [mm ²]	- / -
Rated insulation voltage for pollution degree 2	[V]	-
Pitch	[mm]	3.5 / 3.81
Insulation coordination		
Surge voltage category / pollution degree		III / 3 III / 2 II / 2
Rated insulation voltage	[V]	
Rated surge voltage	[kV]	
Approval data (UL/CUL)	Use Group	B C D
Nominal voltage	[V]	- - -
Nominal current	[A]	- - -
Connection capacity AWG	AWG	- - -
Approval data (CSA)	Use Group	B C D
Nominal voltage	[V]	- - -
Nominal current	[A]	- - -
Connection capacity AWG	AWG	- - -
General data		
Type of insulation material / insulation material group		- / -
Inflammability class according to UL 94		-

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Transparent		
10	1.50	MC 1,5/10-LWL 1,5-3,5	1841161	50
10	2.30	MC 1,5/10-LWL 2,3-3,5	1841187	50
10	4.00	MC 1,5/10-LWL 4-3,5	1841200	50

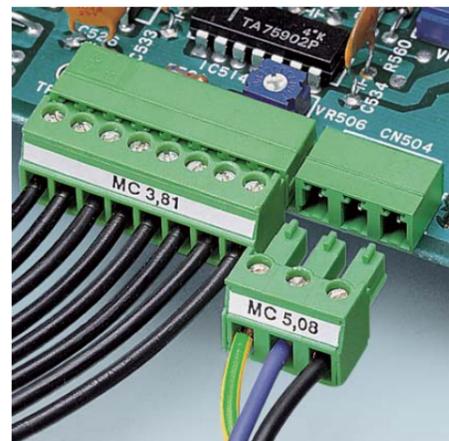
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Transparent		
MC 1,5/10-LWL 1,5-3,81	1841174	50
MC 1,5/10-LWL 2,3-3,81	1841190	50
MC 1,5/10-LWL 4-3,81	1841213	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

Plugs with screw connection, pitch 5.08 mm



- High dielectric strength up to 320 V in acc. with III/2
- Flat design of the MC 1,5 connector range
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange
- Individual position keying by removing the keying tab and connecting the keying profile to the header
- ST1 version with a plug-in zone with downward offset, locks flush with the lower edge of the housing

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

2) CSA data for MC 1,5/...-ST(F)-5,08 on request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Marker cards SK 5,08/2,8	797

Technical data

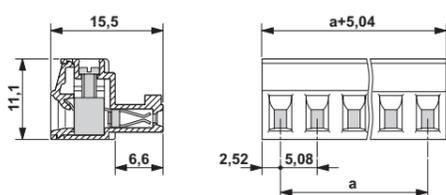
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

No. of pos.	Dim. a [mm]	Order No.	Pcs. / Pkt.
2	5.08	1900772	50
3	10.16	1900785	50
4	15.24	1900798	50
5	20.32	1900808	50
6	25.40	1900811	50
7	30.48	1900824	50
8	35.56	1900837	50
9	40.64	1900840	50
10	45.72	1900853	50
11	50.80	1900866	50
12	55.88	1900879	50

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
MC 1,5/ 2-ST1-5,08	1900772	50	
MC 1,5/ 3-ST1-5,08	1900785	50	
MC 1,5/ 4-ST1-5,08	1900798	50	
MC 1,5/ 5-ST1-5,08	1900808	50	
MC 1,5/ 6-ST1-5,08	1900811	50	
MC 1,5/ 7-ST1-5,08	1900824	50	
MC 1,5/ 8-ST1-5,08	1900837	50	
MC 1,5/ 9-ST1-5,08	1900840	50	
MC 1,5/10-ST1-5,08	1900853	50	
MC 1,5/11-ST1-5,08	1900866	50	
MC 1,5/12-ST1-5,08	1900879	50	



Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



With connection area moved to the bottom, with screw flange



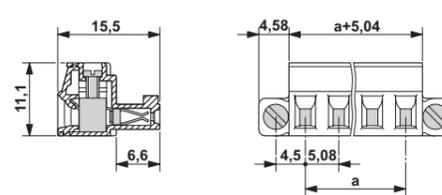
Standard connector



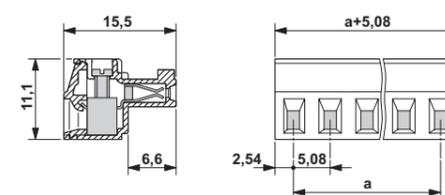
With screw flange



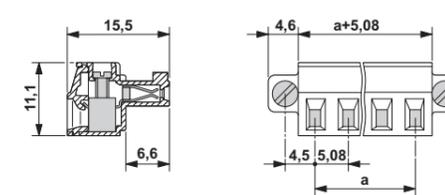
Dimensional drawing



Dimensional drawing

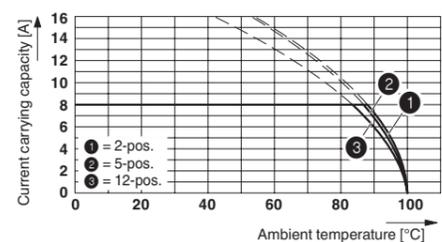


Dimensional drawing

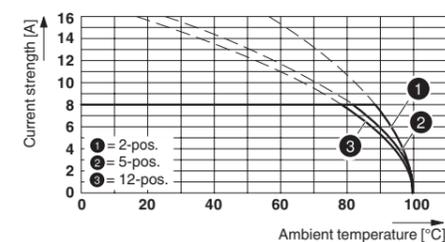


Representative derating curves of the above-mentioned plugs

Type: MC 1,5/...-ST1-5,08 with MC 1,5/...-G-5,08



Type: MC 1,5/...-ST-5,08 with MC 1,5/...-G-5,08



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-ST1F-5,08	1900882	50
MC 1,5/ 3-ST1F-5,08	1900895	50
MC 1,5/ 4-ST1F-5,08	1900905	50
MC 1,5/ 5-ST1F-5,08	1900918	50
MC 1,5/ 6-ST1F-5,08	1900921	50
MC 1,5/ 7-ST1F-5,08	1900934	50
MC 1,5/ 8-ST1F-5,08	1900947	50
MC 1,5/ 9-ST1F-5,08	1900950	50
MC 1,5/10-ST1F-5,08	1900963	50
MC 1,5/11-ST1F-5,08	1900976	50
MC 1,5/12-ST1F-5,08	1900989	50

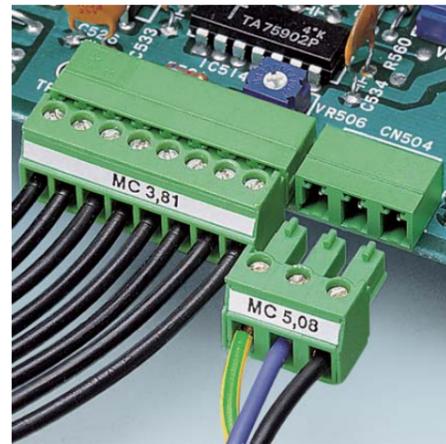
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-ST-5,08	1836079	50
MC 1,5/ 3-ST-5,08	1836082	50
MC 1,5/ 4-ST-5,08	1836095	50
MC 1,5/ 5-ST-5,08	1836105	50
MC 1,5/ 6-ST-5,08	1836118	50
MC 1,5/ 7-ST-5,08	1836121	50
MC 1,5/ 8-ST-5,08	1836134	50
MC 1,5/ 9-ST-5,08	1836147	50
MC 1,5/10-ST-5,08	1836150	50
MC 1,5/11-ST-5,08	1836163	50
MC 1,5/12-ST-5,08	1836176	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-STF-5,08	1847356	50
MC 1,5/ 3-STF-5,08	1847369	50
MC 1,5/ 4-STF-5,08	1847372	50
MC 1,5/ 5-STF-5,08	1847385	50
MC 1,5/ 6-STF-5,08	1847398	50
MC 1,5/ 7-STF-5,08	1847408	50
MC 1,5/ 8-STF-5,08	1847411	50
MC 1,5/ 9-STF-5,08	1847424	50
MC 1,5/10-STF-5,08	1847437	50
MC 1,5/11-STF-5,08	1847440	50
MC 1,5/12-STF-5,08	1847453	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

A header with a 5.08 mm pitch for wave soldering processes



- High dielectric strength up to 320 V in acc. with III/2
- Low-profile header
- Plug-in direction parallel and vertical to the PCB
- Versions with and without a threaded flange
- Individual position keying by inserting the keying profiles

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for MCV 1,5/...-GF-5,08: sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/2,8	797

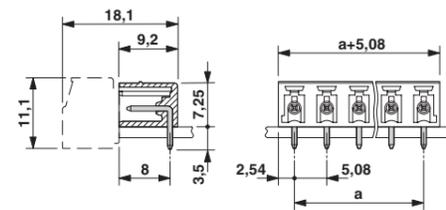
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 8
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 8 - 8
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PBT / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.2 / 0.8 x 0.8 mm

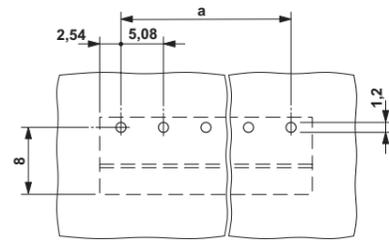


Plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

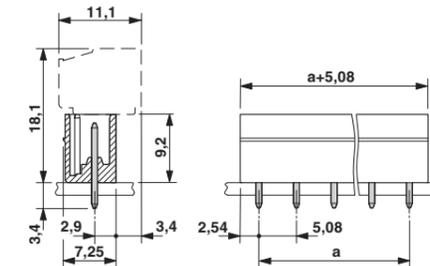
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-G-5,08	1836189	50
MC 1,5/ 3-G-5,08	1836192	50
MC 1,5/ 4-G-5,08	1836202	50
MC 1,5/ 5-G-5,08	1836215	50
MC 1,5/ 6-G-5,08	1836228	50
MC 1,5/ 7-G-5,08	1836231	50
MC 1,5/ 8-G-5,08	1836244	50
MC 1,5/ 9-G-5,08	1836257	50
MC 1,5/10-G-5,08	1836260	50
MC 1,5/11-G-5,08	1836273	50
MC 1,5/12-G-5,08	1836286	50



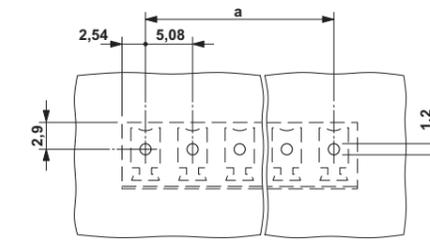
Plug-in direction vertical to the PCB



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MCV 1,5/ 2-G-5,08	1836299	50
MCV 1,5/ 3-G-5,08	1836309	50
MCV 1,5/ 4-G-5,08	1836312	50
MCV 1,5/ 5-G-5,08	1836325	50
MCV 1,5/ 6-G-5,08	1836338	50
MCV 1,5/ 7-G-5,08	1836341	50
MCV 1,5/ 8-G-5,08	1836354	50
MCV 1,5/ 9-G-5,08	1836367	50
MCV 1,5/10-G-5,08	1836370	50
MCV 1,5/11-G-5,08	1836383	50
MCV 1,5/12-G-5,08	1836396	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

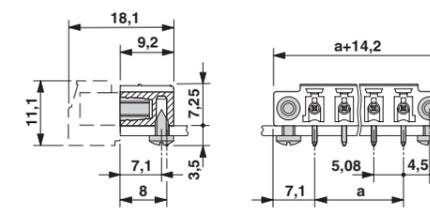
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



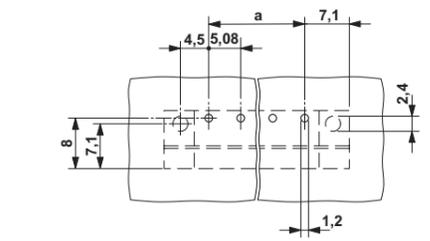
With threaded flange, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram



Ordering data

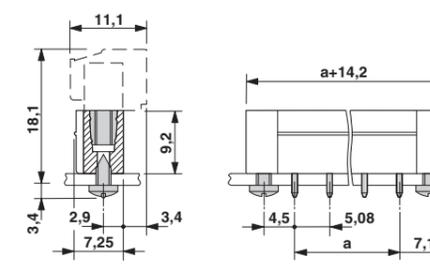
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-GF-5,08	1847466	50
MC 1,5/ 3-GF-5,08	1847479	50
MC 1,5/ 4-GF-5,08	1847482	50
MC 1,5/ 5-GF-5,08	1847495	50
MC 1,5/ 6-GF-5,08	1847505	50
MC 1,5/ 7-GF-5,08	1847518	50
MC 1,5/ 8-GF-5,08	1847521	50
MC 1,5/ 9-GF-5,08	1847534	50
MC 1,5/10-GF-5,08	1847547	50
MC 1,5/11-GF-5,08	1847550	50
MC 1,5/12-GF-5,08	1847563	50



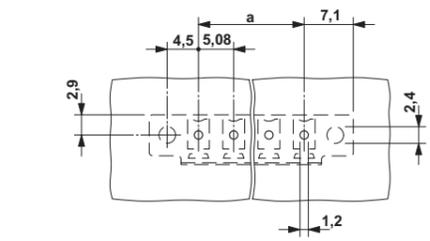
With threaded flange, plug-in direction vertical to the PCB



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MCV 1,5/ 2-GF-5,08	1847615	50
MCV 1,5/ 3-GF-5,08	1847628	50
MCV 1,5/ 4-GF-5,08	1847631	50
MCV 1,5/ 5-GF-5,08	1847644	50
MCV 1,5/ 6-GF-5,08	1847657	50
MCV 1,5/ 7-GF-5,08	1847660	50
MCV 1,5/ 8-GF-5,08	1847673	50
MCV 1,5/ 9-GF-5,08	1847686	50
MCV 1,5/10-GF-5,08	1847699	50
MCV 1,5/11-GF-5,08	1847709	50
MCV 1,5/12-GF-5,08	1847712	50

SUBCON header with MINI COMBICON connection



- A combination of MINI-COMBICON connectors and the good shielding properties and the geometry of D-SUB connectors
- 3-pos. POWER SUBCON in the shape of the 9-pos. D-SUB
- 5-pos. POWER SUBCON in the shape of the 15-pos. D-SUB
- Can be used in a conventional D-SUB housing

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 When used in metal or metal-plated housing, SELV protection must be used with AC = 25 V and DC = 60 V.
 For assembly cutout drawings see page 840.

Accessories		
For all types	Type	Page
For PSC 1,5/3-M	Keying profile CP-MSTB Order No. 1734634	38

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	PSC 1,5/ 3-F	PSC 1,5/ 5-F	PSC 1,5/ 3-M
Rated current / conductor cross section	8 / 1.5	8 / 1.5	8
Rated insulation voltage for pollution degree 2	-	-	-
Pitch	3.5	3.5	3.5
Connection capacity			
Solid / stranded	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16	- / - / -
Stranded with ferrules without plastic sleeve	0.25 - 1.5	0.25 - 1.5	-
Stranded with ferrules with plastic sleeve	0.25 - 1.5	0.25 - 1.5	-
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	- / -	- / -	- / -
Stranded with ferrules without plastic sleeve	-	-	-
Stranded with TWIN ferrule with plastic sleeve	-	-	-
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	250	250	250
Rated surge voltage			
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	300 - - 300	300 - - 300	300 - - 300
Nominal current	8 - - 8	8 - - 8	8 - - 8
Connection capacity AWG	30 - 14 - - 30 - 14	30 - 14 - - 30 - 14	- - - -
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	300 - - 300	300 - - 300	300 - - 300
Nominal current	8 - - 8	8 - - 8	8 - - 8
Connection capacity AWG	28 - 16 - - 28 - 16	28 - 16 - - 28 - 16	- - - -
General data			
Screw thread	M2	M2	-
Tightening torque	0.22 - 0.25	0.22 - 0.25	-
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0

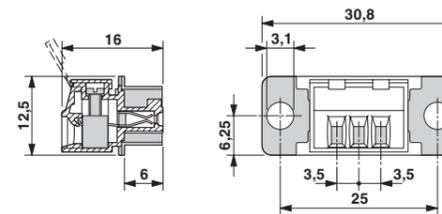
No. of pos.	Dim. a [mm]
3	7.00
5	14.00



Shielded POWER SUBCON connector with screw connection and cover cap



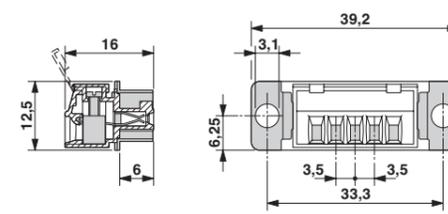
Dimensional drawing



Shielded POWER SUBCON connector with screw connection and cover cap



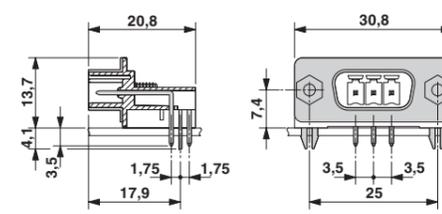
Dimensional drawing



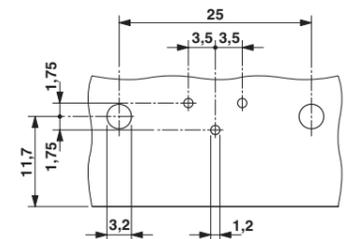
Shielded POWER SUBCON header, for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread



Dimensional drawing



Drilling diagram



Ordering data		
Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 3-F	1841909	50

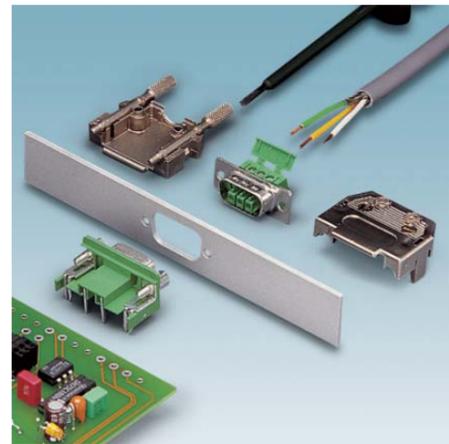
Ordering data		
Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 5-F	1841912	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 3-M	1841857	50

Special designs

Special designs

SUBCON header with MINI COMBICON connection



- A combination of MINI-COMBICON connectors and the good shielding properties and the geometry of D-SUB connectors
- 3-pos. POWER SUBCON in the shape of the 9-pos. D-SUB
- 5-pos. POWER SUBCON in the shape of the 15-pos. D-SUB
- Can be used in a conventional D-SUB housing
- PSC 1,5/...-M-PE version with leading, medium PE contact

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 When used in metal or metal-plated housing, SELV protection must be used with AC = 25 V and DC = 60 V.
 For assembly cutout drawings see page 840.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

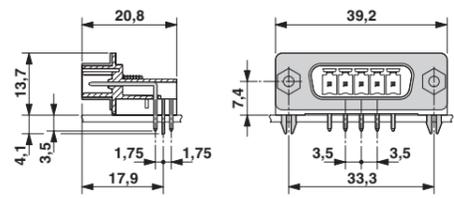
	PSC 1,5/ 5-M			PSC 1,5/ 3-M-PE			PSC 1,5/ 5-M-PE		
	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	250			250			250		
Rated surge voltage									
Approval data (UL/CUL)	B	C	D	B	C	D	B	C	D
Nominal voltage	300	-	300	300	-	300	300	-	300
Nominal current	8	-	8	8	-	8	8	-	8
Connection capacity AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	B	C	D	B	C	D	B	C	D
Nominal voltage	300	-	300	300	-	300	300	-	300
Nominal current	8	-	8	8	-	8	8	-	8
Connection capacity AWG	-	-	-	-	-	-	-	-	-
Type of insulation material / insulation material group	PA / I			PA / I			PA / I		
Inflammability class according to UL 94	V0			V0			V0		

No. of pos.	Dim. a [mm]
3	7.00
5	14.00

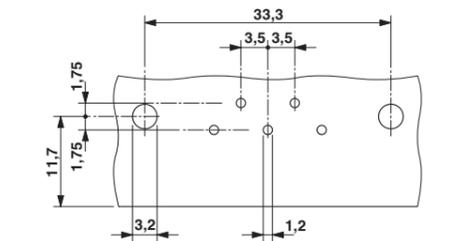


Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread

Dimensional drawing



Drilling diagram

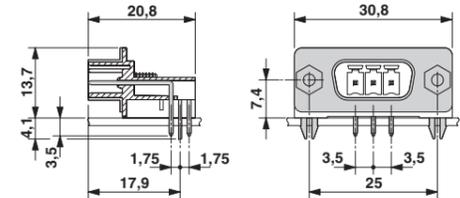


Ordering data		
Type	Order No.	Pcs. / Pkt.
PSC 1,5/ 5-M	1841899	50

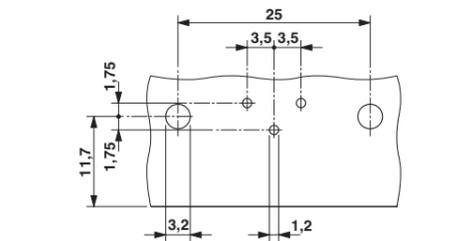


Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread, with leading medium PE contact

Dimensional drawing



Drilling diagram

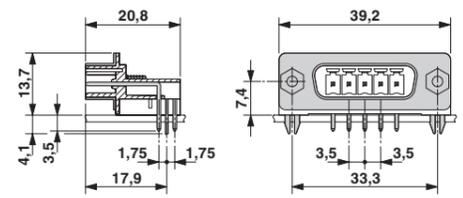


Ordering data		
Type	Order No.	Pcs. / Pkt.
PSC 1,5/ 3-M-PE	1848122	50

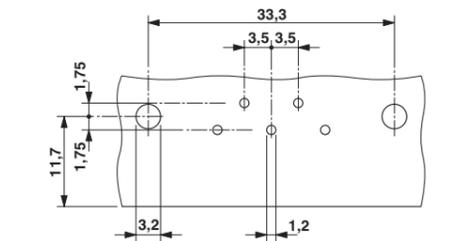


Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread, with leading medium PE contact

Dimensional drawing



Drilling diagram



Ordering data		
Type	Order No.	Pcs. / Pkt.
PSC 1,5/ 5-M-PE	1848135	50

Plug-in connector systems with 5.0 to 7.62 mm pitch

COMBICON plug-in connectors have established themselves as the worldwide standard in industrial electronics.

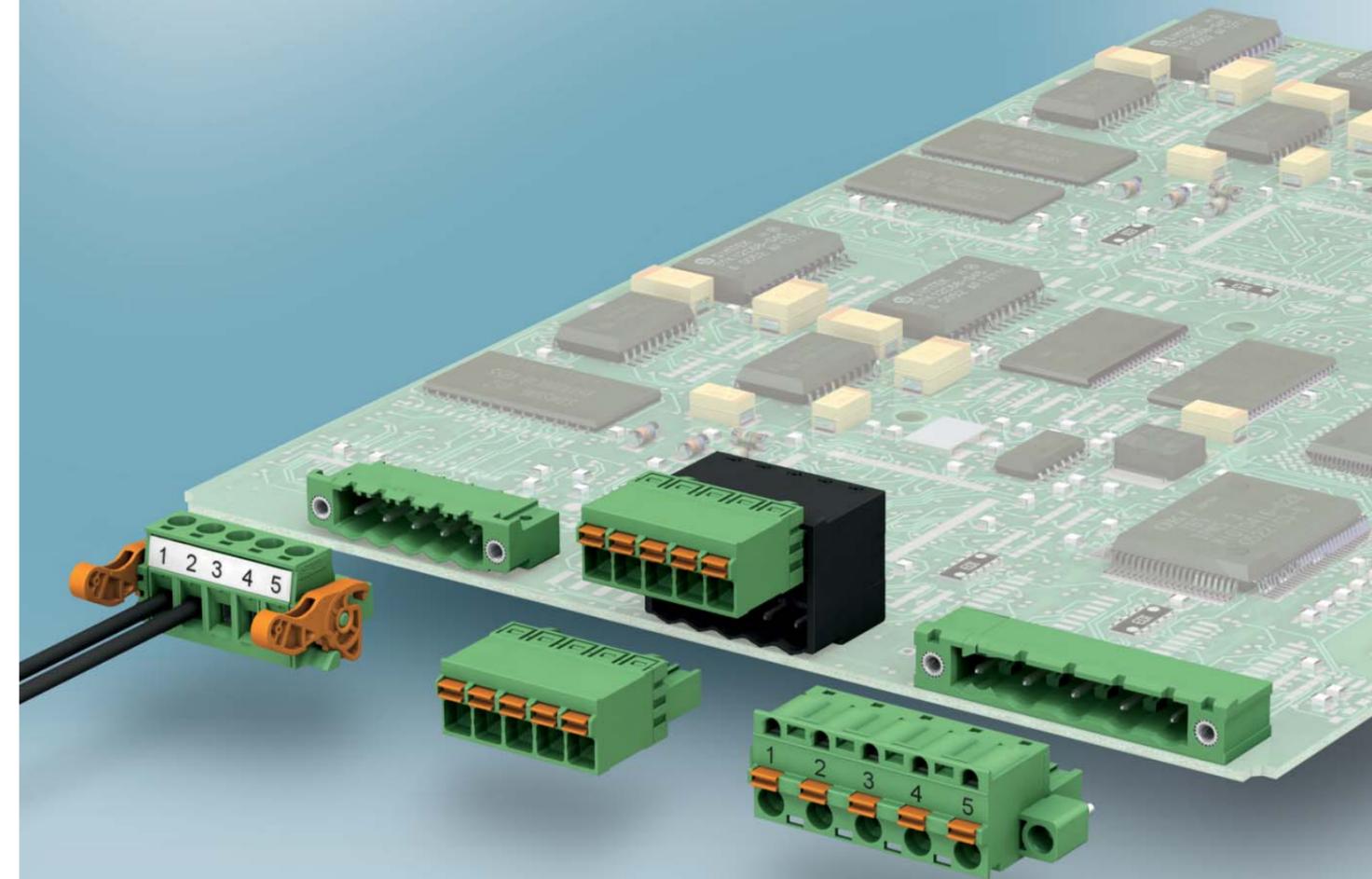
A wide range of plugs and headers are available with 5.0/5.08 and 7.5/7.62 mm pitch.

Choose from screw, push-in spring, crimp or displacement connection for conductor contacting. Horizontal, vertical, and inverted plug and header designs enable plug-in PCB connections, PCB pairing with PCB or free-hanging connections.

Customer-specific versions complete the range of services. In addition to the standard green housing, a further 20 colors are available on request. The headers and plugs can be labeled individually for clear identification of each terminal point. For external device connections or harsh operating conditions such as vibrations, additional locking of the plug and header is advisable. This can be achieved with the particularly user-friendly Lock & Release connection, a self-locking flange connection or proven screw flanges.

When using several plug-in connections in an application, clear assignment of the plugs and headers is possible by means of individual keying.

General	256
COMBICON control cross-reference list	259
CLASSIC COMBICON plug-in connectors Pitch 5.0/5.08 mm up to 12 A	262
Plugs with screw connection	262
Inverted plugs with screw connection	272
Plugs with push-in spring connection	274
Inverted plugs with push-in spring connection	286
Plugs with displacement connection	290
Plugs with crimp connection	294
Inverted connectors with crimp connection	296
Headers for reflow processes	298
Headers for press-in technology	310
Headers for wave soldering processes	312
Inverted headers for wave soldering processes	332
CLASSIC COMBICON plug-in connectors Pitch 7.5/7.62 mm up to 12 A	334
Plugs with screw connection	334
Inverted plugs with screw connection	338
Plugs with push-in spring connection	340
Inverted plugs with push-in spring connection	341
Headers for wave soldering processes	342
Inverted headers for wave soldering processes	346
Special designs	348
Cable housing	348
Feed-through headers and assembly frames	350
Plug-in blocks for direct mounting	356
Plug-in blocks for DIN rail mounting	358
ZEC series - direct plug-in connectors	365
MINI-COMBICON for D-SUB	251
CLASSIC COMBICON plug connectors for the Ex area with 5.08 and 7.62 mm pitch	369
Plugs with screw connection with 5.08 mm pitch	369
Plugs with push-in spring connection	371
Inverted plugs with 5.08 mm pitch	373
Headers for wave soldering processes	369
Inverted headers for wave soldering processes	377
Plugs with screw connection with 7.62 mm pitch	379
Headers for wave soldering processes with 7.62 mm pitch	383



Customer-specific standard plug-in connectors

Customer-specific requirements and requests can also be taken into account when producing plug-in connectors. Usually plug-in connectors are available as partially assembled versions and in various colors.

Standard plug-in connectors with special pins

Individual processing of pin strips in the soldering process as well as the special environmental requirements are taken into consideration in many product ranges, which is why solder pins of different lengths and with different surfaces (e.g., tin or gold) are available for these pins.

Test connections

Test connections or touch connections are integrated in many plugs for measurement and test purposes.

Encoding

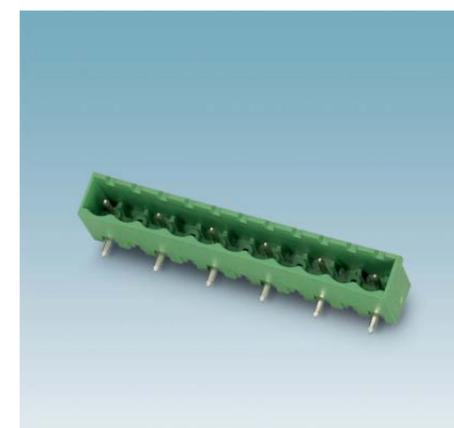
If connectors from a series with the same number of positions are used in an application, clear assignment of the connectors and headers is possible by means of individual keying. The keying can be implemented later on site or is provided in pre-assembled versions.

Bridges

In addition to conventional TWIN plug-in connectors, standard plug-in connectors can also be used for potential distribution by means of separate bridges. The fixed bridge is connected directly in the connection area, if necessary, with a supply conductor.

Marking

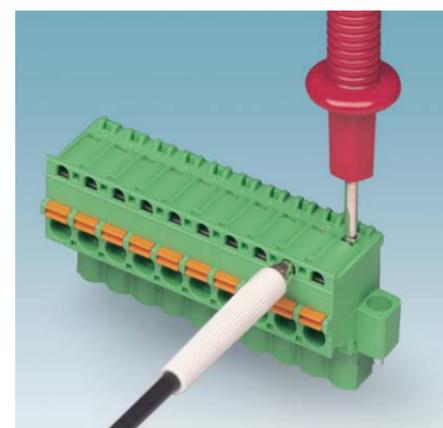
For marking individual terminal points, marker cards (SK strips with consecutive numbers 1 - 10, 11 - 20) are available with 2.5 to 7.62 mm pitch. Alternatively, the terminal blocks can also be supplied with individual labeling.



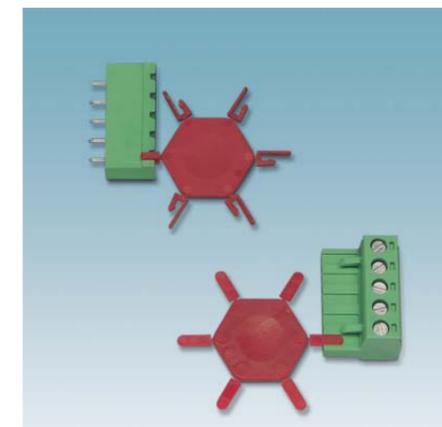
Partially assembled pin strip



Version with tin-plated pins



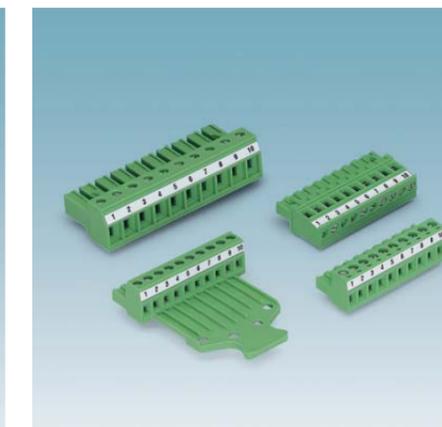
Integrated test connections



Keying with keying section and keying profile



Separate fixed bridges



SK marker strips



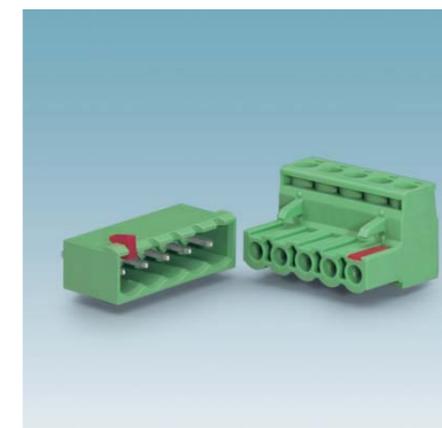
Color options



Version with partially gold-plated pins

COMBICON plug-in connectors

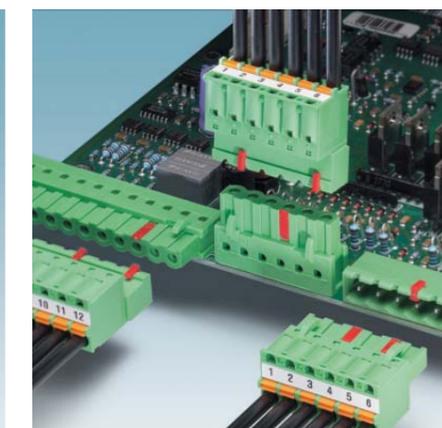
In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. When used as intended, they may not be connected or disconnected while they are live or under load.



Example for combination that cannot be plugged in



Separate fixed bridges



Keying/printing

Note:

Since the installation environment of the entire PCB cannot be influenced, the specified nominal voltage of all COMBICON plug-in connectors refers to the "as-delivered" state. For more detailed information about the dimensioning of air and creepage distances of PCBs, see page 849.

CLASSIC COMBICON Plugs	Type	CLASSIC COMBICON headers	CLASSIC COMBICON headers																
			IC...ST(F) Page 272	IC...STGF Page 273	FKIC(S)...ST(F) Page 273	FKIC(S)...ST(D)...RN Page 287	ICC...STZ(F) Page 296	CC(A)...G CCV(A)...G Page 298	CC...GF CCV...GF Page 299		CCA...G...RN CCVA...G...RN Page 299	CCDN...G1(F) Page 306	MSTBO...G1R(L) Page 308	EMSTBA...G MSTB(A)(W)...G Page 310	EMSTB...GF MSTB...GF Page 311	EMSTBVA...G MSTBV(A)...G MSTB...GEH Page 311/317	EMSTBV...GF MSTBV...GF Page 344/311	SMSTB(A)...G Page 318	MSTB(V)A... ...G RN Page 313
	Pitch		5.08	5.08	5.0 5.08	5.08	5.08	5.08	5.08		5.08	5.0 5.08	5.0	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.08
	QC 1...ST Page 290		•		•		•	•					•		•		•		•
	QC 1...STF Page 291			•										•					
	QC 1,5...ST Page 292				•								•		•		•		
	QC 1,5...STF Page 293				•									•					
	MSTB(T)...ST Page 262		•		•			•	•				•		•		•		•
	MSTB(T)...STF Page 265			•										•					
	SMSTB...ST Page 268		•		•			•	•					•		•		•	•
	SMSTB...STF Page 269			•										•					
	MVSTBR(W)...ST Page 266		•		•			•	•					•		•		•	•
	MVSTBR(W)...STF Page 267			•										•					
	FRONT-MSTB...ST Page 269		•		•			•	•					•		•		•	•
	FRONT-MSTB...STF Page 269			•										•					
	TMSTBP...ST Page 270		•		•			•	•					•		•		•	•
	TMSTBP...STF Page 271			•										•					
	TVMSTB...ST Page 271		•		•			•	•					•		•		•	•
	TVMSTB...STF Page 271			•										•					
	FKC(S)...ST Page 274		•		•			•	•					•		•		•	•
	FKC(S)...STF Page 275			•										•					
	FKC...ST...RF Page 275					•		•				•						•	•
	FKCT...ST Page 277		•		•			•	•				•		•		•		•
	FKCT...STF Page 277			•										•					
	FKCN...ST Page 278		•		•			•	•				•		•		•		•
	FKCN...STF Page 279			•									•						
	FKCVR(W)...ST Page 280		•		•			•	•					•		•		•	•
	FKCVR(W)...STF Page 281			•										•					
	TVFKC...ST Page 282				•								•		•		•		•
	TVFKCL...ST Page 283				•								•		•		•		•
	TFKC...ST Page 284		•		•			•	•					•		•		•	•
	TFKC...STF Page 284			•										•					
	MSTBC...ST(Z) Page 294		•		•			•	•					•		•		•	•
	MSTBC...STZF Page 295			•										•					
	MSTBC...STZ...R Page 295					•		•										•	•
	IC(V)...G Page 332		•		•			•	•					•		•		•	•
	IC(V)...GF Page 333		•		•			•											

COMBICON control cross-reference list

COMBICON control cross-reference list

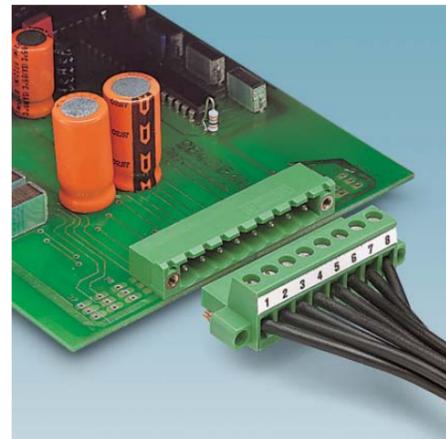
CLASSIC COMBICON Plugs	Type	Pitch	CLASSIC COMBICON headers						
			CC...GF...LR THR CCV...GF...LR THR THR Page 299 301	MDSTB(A)...G MDSTBW...G MDSTBV(A)...G 326 / 329 / 320 5.0 5.08	MDSTB...GF MDSTBV...GF Page 327 331	MDSTB...G1 MDSTBV...G1 Page 329 329	DFK-MSTB...G DFK-MSTB(V)A...G Page 352 354	DFK-MSTB...GF DFK-MSTB(V)A...GF Page 353 355	MVSTBU...GB MVSTBU...GFB Page 357
	QC 1...ST Page 290	5.08		•					•
	QC 1...STF Page 291	5.08	•						•
	QC 1,5...ST Page 292	5.0		•					•
	QC 1,5...STF Page 293	5.0			•				•
	MSTB(T)...ST Page 262	5.0		•					•
	MSTB(T)...STF Page 265	5.08	•						•
	SMSTB...ST Page 268	5.0		•					•
	SMSTB...STF Page 269	5.08	•						•
	MVSTBR(W)...ST Page 266	5.0		•					•
	MVSTBR(W)...STF Page 267	5.08	•						•
	FRONT-MSTB...ST Page 267	5.0		•					•
	FRONT-MSTB...STF Page 269	5.08	•						•
	TMSTBP...ST Page 270	5.08							•
	TMSTBP...STF Page 271	5.08	•						•
	TVMSTB...ST Page 271	5.08							•
	TVMSTB...STF Page 271	5.08	•						•
	FKC(S)...ST Page 274	5.0		•					•
	FKC(S)...STF Page 274	5.08	•						•
	MSTB...ST...LR Page 263	5.08	•						•
	FKC...ST...LR Page 275	5.08	•						•
	FKCT...ST Page 277	5.0		•					•
	FKCT...STF Page 277	5.08	•						•
	FKCN...ST Page 278	5.0		•					•
	FKCN...STF Page 279	5.08	•						•
	FKCVR(W)...ST Page 280	5.0							•
	FKCVR(W)...STF Page 281	5.08	•						•
	TVFKC...ST Page 282	5.0							•
	TVFKCL...ST Page 283	5.0							•
	TFKC...ST Page 284	5.08							•
	TFKC...STF Page 285	5.08	•						•
	MSTBC...ST(Z) Page 294	5.08		•					•
	MSTBC...STZF Page 295	5.08	•						•
	MSTBC...STZ...R Page 295	5.08							•
	IC(V)...G Page 332	5.08		•					•
	IC(V)...GF Page 333	5.08	•						•

CLASSIC COMBICON Plugs	Type	Pitch	CLASSIC COMBICON Headers						
			GIC... ST Page 338	GIC... STF Page 339	GIC... STGF Page 339	GFKIC... ST Page 341	GMSTB...G GMSTBA...G Page 343 / 342	GMSTB...GF GMSTBV...GF Page 343	GMSTBV...G GMSTBVA...G Page 344
	GMSTB...ST Page 334	7.5 7.62	•				•		•
	GMSTB...STF Page 335	7.62				•		•	
	FRONT-GMSTB...ST Page 335	7.62	•				•		•
	FRONT-GMSTB...STF Page 335	7.62				•		•	
	GMVSTBR(W)...ST Page 336	7.5 7.62	•				•		•
	GMVSTBR(W)...STF Page 337	7.62				•		•	
	GFKC...ST Page 340	7.5 7.62	•				•		•
	GFKC...STF Page 341	7.62				•		•	
	GIC...G Page 346	7.62	•				•		•
	GIC...GF Page 347	7.62				•			
	GICV...G Page 347	7.62	•				•		•
	GICV...GF Page 347	7.62				•			

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Connector with a screw connection



- Standard plug-in system for 320 V (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with screw flange, pull-out aid, and Lock & Release levers
- Individual position keying by inserting the keying profiles
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

MSTB 2,5/...-STZ
Dimension b Dimension c

	[mm]	[mm]
2- to 4-pos.	9.9	46
5- to 8-pos.	19.9	46
From 9-pos. onwards	39.9	55.6

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Keying profile CP-MSTB Order No. 1734634	38
	Insertion bridge EBP...-5	829

Dimensional drawing

Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Ordering data				
Type	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
MSTB 2,5/ 2-ST	1754449	50		
MSTB 2,5/ 3-ST	1754465	50		
MSTB 2,5/ 4-ST	1754481	50		
MSTB 2,5/ 5-ST	1754504	50		
MSTB 2,5/ 6-ST	1754520	50		
MSTB 2,5/ 7-ST	1754546	50		
MSTB 2,5/ 8-ST	1754562	50		
MSTB 2,5/ 9-ST	1754588	50		
MSTB 2,5/10-ST	1754601	50		
MSTB 2,5/11-ST	1754627	50		
MSTB 2,5/12-ST	1754643	50		
MSTB 2,5/13-ST	1754669	50		
MSTB 2,5/14-ST	1754685	50		
MSTB 2,5/15-ST	1754708	50		
MSTB 2,5/16-ST	1754724	50		
5.08 mm pitch, color: Green				
MSTB 2,5/ 2-ST-5,08	1757019	50		
MSTB 2,5/ 3-ST-5,08	1757022	50		
MSTB 2,5/ 4-ST-5,08	1757035	50		
MSTB 2,5/ 5-ST-5,08	1757048	50		
MSTB 2,5/ 6-ST-5,08	1757051	50		
MSTB 2,5/ 7-ST-5,08	1757064	50		
MSTB 2,5/ 8-ST-5,08	1757077	50		
MSTB 2,5/ 9-ST-5,08	1757080	50		
MSTB 2,5/10-ST-5,08	1757093	50		
MSTB 2,5/11-ST-5,08	1757103	50		
MSTB 2,5/12-ST-5,08	1757116	50		
MSTB 2,5/13-ST-5,08	1757129	50		
MSTB 2,5/14-ST-5,08	1757132	50		
MSTB 2,5/15-ST-5,08	1757145	50		
MSTB 2,5/16-ST-5,08	1757158	50		

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Solid / stranded [mm ²]	0.25 - 2.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1 / 0.2 - 1.5
Solid / stranded [mm ²]	0.25 - 1
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 1.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	
Nominal voltage [V]	B C D
Nominal current [A]	300 - - 300
Connection capacity AWG	15 - - 15
Connection capacity AWG	30 - 12 - - 30 - 12
Approval data (CSA) Use Group	
Nominal voltage [V]	B C D
Nominal current [A]	300 - - 300
Connection capacity AWG	10 - - 10
Connection capacity AWG	28 - 12 - - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



Dimensional drawing

Representative derating curves of the above-mentioned plugs

Type: MSTB 2,5/...-ST(-5,08) with MSTBA 2,5/...-G(-5,08)

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5/ 2-STF	1786831	50
MSTB 2,5/ 3-STF	1786844	50
MSTB 2,5/ 4-STF	1786857	50
MSTB 2,5/ 5-STF	1786860	50
MSTB 2,5/ 6-STF	1786873	50
MSTB 2,5/ 7-STF	1786886	50
MSTB 2,5/ 8-STF	1786899	50
MSTB 2,5/ 9-STF	1786909	50
MSTB 2,5/10-STF	1786912	50
MSTB 2,5/11-STF	1786925	50
MSTB 2,5/12-STF	1786938	50
MSTB 2,5/13-STF	1786941	50
MSTB 2,5/14-STF	1786954	50
MSTB 2,5/15-STF	1786967	50
MSTB 2,5/16-STF	1786970	50
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-STF-5,08	1777989	50
MSTB 2,5/ 3-STF-5,08	1777992	50
MSTB 2,5/ 4-STF-5,08	1778001	50
MSTB 2,5/ 5-STF-5,08	1778014	50
MSTB 2,5/ 6-STF-5,08	1778027	50
MSTB 2,5/ 7-STF-5,08	1778030	50
MSTB 2,5/ 8-STF-5,08	1778043	50
MSTB 2,5/ 9-STF-5,08	1778056	50
MSTB 2,5/10-STF-5,08	1778069	50
MSTB 2,5/11-STF-5,08	1778072	50
MSTB 2,5/12-STF-5,08	1778085	50
MSTB 2,5/13-STF-5,08	1778098	50
MSTB 2,5/14-STF-5,08	1778108	50
MSTB 2,5/15-STF-5,08	1778111	50
MSTB 2,5/16-STF-5,08	1778124	50

Dimensional drawing

Representative derating curves of the above-mentioned plugs

Type: MSTB 2,5/...-5,08 with CC 2,5/...-G-5,08 P26THR

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5/ 4-STZ	1739114	50
MSTB 2,5/ 8-STZ	1758982	50
MSTB 2,5/ 9-STZ	1758995	50
MSTB 2,5/10-STZ	1759004	50
MSTB 2,5/11-STZ	1759347	50
MSTB 2,5/12-STZ	1759350	50
MSTB 2,5/13-STZ	1759363	50
MSTB 2,5/14-STZ	1759376	50
MSTB 2,5/15-STZ	1759389	50
MSTB 2,5/16-STZ	1759392	50
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-STZ-5,08	1709791	50
MSTB 2,5/ 3-STZ-5,08	1776168	50
MSTB 2,5/ 4-STZ-5,08	1776155	50
MSTB 2,5/ 5-STZ-5,08	1776142	50
MSTB 2,5/ 6-STZ-5,08	1776126	50
MSTB 2,5/ 7-STZ-5,08	1776113	50
MSTB 2,5/ 8-STZ-5,08	1764235	50
MSTB 2,5/ 9-STZ-5,08	1764316	50
MSTB 2,5/10-STZ-5,08	1764303	50
MSTB 2,5/11-STZ-5,08	1764293	50
MSTB 2,5/12-STZ-5,08	1764280	50
MSTB 2,5/13-STZ-5,08	1764277	50
MSTB 2,5/14-STZ-5,08	1764264	50
MSTB 2,5/15-STZ-5,08	1764251	50
MSTB 2,5/16-STZ-5,08	1764248	50

Dimensional drawing		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-ST-5,08-LR	1808886	50
MSTB 2,5/ 3-ST-5,08-LR	1808899	50
MSTB 2,5/ 4-ST-5,08-LR	1808909	50
MSTB 2,5/ 5-ST-5,08-LR	1808912	50
MSTB 2,5/ 6-ST-5,08-LR	1808925	50
MSTB 2,5/ 7-ST-5,08-LR	1808938	50
MSTB 2,5/ 8-ST-5,08-LR	1808941	50
MSTB 2,5/ 9-ST-5,08-LR	1808954	50
MSTB 2,5/10-ST-5,08-LR	1808967	50
MSTB 2,5/11-ST-5,08-LR	1808970	50
MSTB 2,5/12-ST-5,08-LR	1808983	50
MSTB 2,5/13-ST-5,08-LR	1808996	50
MSTB 2,5/14-ST-5,08-LR	1809005	50
MSTB 2,5/15-ST-5,08-LR	1809018	50
MSTB 2,5/16-ST-5,08-LR	1809021	50

Connector with a screw connection



- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products
- Plug-in direction parallel to the conductor axis

MSTBP 2,5/...

- Test connection for MPS plugs

MSTBT 2,5/...

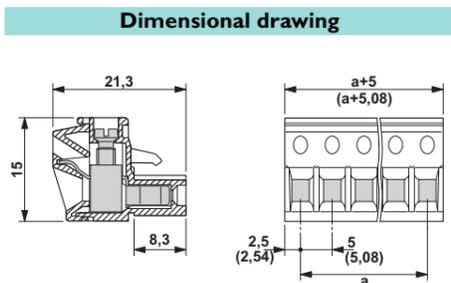
- The cable connection area of the MSTBT 2,5/... is located deeper than that of the MSTB 2,5/...

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829
Only for MSTBP 2,5/...-ST		
	Test plug MPS	831



With a test connection



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	15 - 15
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA)	Use Group B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

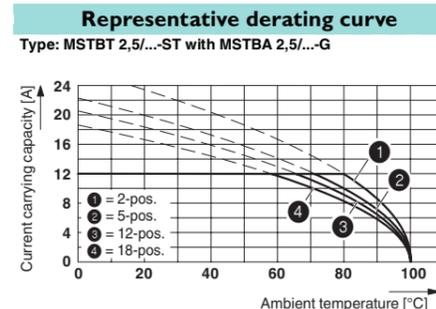
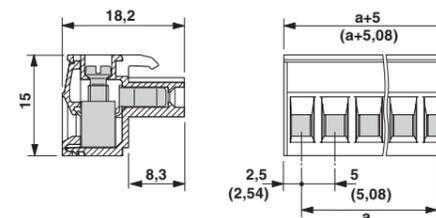
		Ordering data		
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green				
2	5.00	MSTBP 2,5/ 2-ST	1765771	50
3	10.00	MSTBP 2,5/ 3-ST	1765784	50
4	15.00	MSTBP 2,5/ 4-ST	1765797	50
5	20.00	MSTBP 2,5/ 5-ST	1765807	50
6	25.00	MSTBP 2,5/ 6-ST	1765810	50
7	30.00	MSTBP 2,5/ 7-ST	1765823	50
8	35.00	MSTBP 2,5/ 8-ST	1765836	50
9	40.00	MSTBP 2,5/ 9-ST	1765849	50
10	45.00	MSTBP 2,5/10-ST	1765852	50
11	50.00	MSTBP 2,5/11-ST	1765865	50
12	55.00	MSTBP 2,5/12-ST	1765878	50
13	60.00	MSTBP 2,5/13-ST	1765881	50
14	65.00	MSTBP 2,5/14-ST	1765894	50
15	70.00	MSTBP 2,5/15-ST	1765904	50
16	75.00	MSTBP 2,5/16-ST	1765917	50
5.08 mm pitch, color: Green				
2	5.08	MSTBP 2,5/ 2-ST-5,08	1769010	50
3	10.16	MSTBP 2,5/ 3-ST-5,08	1769023	50
4	15.24	MSTBP 2,5/ 4-ST-5,08	1769036	50
5	20.32	MSTBP 2,5/ 5-ST-5,08	1769049	50
6	25.40	MSTBP 2,5/ 6-ST-5,08	1769052	50
7	30.48	MSTBP 2,5/ 7-ST-5,08	1769065	50
8	35.56	MSTBP 2,5/ 8-ST-5,08	1769078	50
9	40.64	MSTBP 2,5/ 9-ST-5,08	1769081	50
10	45.72	MSTBP 2,5/10-ST-5,08	1769094	50
11	50.80	MSTBP 2,5/11-ST-5,08	1769104	50
12	55.88	MSTBP 2,5/12-ST-5,08	1769117	50
13	60.96	MSTBP 2,5/13-ST-5,08	1769120	50
14	66.04	MSTBP 2,5/14-ST-5,08	1769133	50
15	71.12	MSTBP 2,5/15-ST-5,08	1769146	50
16	76.20	MSTBP 2,5/16-ST-5,08	1769159	50



With connection area moved to the top



Dimensional drawing

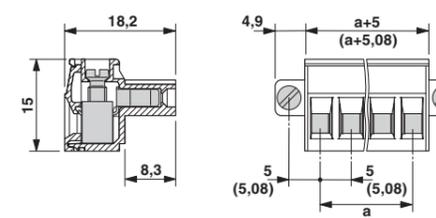


		Ordering data			
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
COMBICON screw connectors, 5.0 mm pitch, color: green					
MSTBT 2,5/ 2-ST	1779835	50	MSTBT 2,5/ 2-STF	1919718	50
MSTBT 2,5/ 3-ST	1779848	50	MSTBT 2,5/ 3-STF	1919721	50
MSTBT 2,5/ 4-ST	1779851	50	MSTBT 2,5/ 4-STF	1919734	50
MSTBT 2,5/ 5-ST	1779864	50	MSTBT 2,5/ 5-STF	1919747	50
MSTBT 2,5/ 6-ST	1779877	50	MSTBT 2,5/ 6-STF	1919750	50
MSTBT 2,5/ 7-ST	1779880	50	MSTBT 2,5/ 7-STF	1919763	50
MSTBT 2,5/ 8-ST	1779893	50	MSTBT 2,5/ 8-STF	1919776	50
MSTBT 2,5/ 9-ST	1779903	50	MSTBT 2,5/ 9-STF	1919789	50
MSTBT 2,5/10-ST	1779916	50	MSTBT 2,5/10-STF	1919792	50
MSTBT 2,5/11-ST	1779929	50	MSTBT 2,5/11-STF	1919802	50
MSTBT 2,5/12-ST	1779932	50	MSTBT 2,5/12-STF	1919815	50
MSTBT 2,5/13-ST	1779945	50	MSTBT 2,5/13-STF	1919828	50
MSTBT 2,5/14-ST	1779958	50	MSTBT 2,5/14-STF	1919831	50
MSTBT 2,5/15-ST	1779961	50	MSTBT 2,5/15-STF	1919844	50
MSTBT 2,5/16-ST	1779974	50	MSTBT 2,5/16-STF	1919857	50
5.08 mm pitch, color: Green					
MSTBT 2,5/ 2-ST-5,08	1779987	50	MSTBT 2,5/ 2-STF-5,08	1805301	50
MSTBT 2,5/ 3-ST-5,08	1779990	50	MSTBT 2,5/ 3-STF-5,08	1805314	50
MSTBT 2,5/ 4-ST-5,08	1780002	50	MSTBT 2,5/ 4-STF-5,08	1805327	50
MSTBT 2,5/ 5-ST-5,08	1781014	50	MSTBT 2,5/ 5-STF-5,08	1805330	50
MSTBT 2,5/ 6-ST-5,08	1781027	50	MSTBT 2,5/ 6-STF-5,08	1805343	50
MSTBT 2,5/ 7-ST-5,08	1781030	50	MSTBT 2,5/ 7-STF-5,08	1805356	50
MSTBT 2,5/ 8-ST-5,08	1781043	50	MSTBT 2,5/ 8-STF-5,08	1804661	50
MSTBT 2,5/ 9-ST-5,08	1734207	50	MSTBT 2,5/ 9-STF-5,08	1805369	50
MSTBT 2,5/10-ST-5,08	1781069	50	MSTBT 2,5/10-STF-5,08	1805372	50
MSTBT 2,5/11-ST-5,08	1781072	50	MSTBT 2,5/11-STF-5,08	1805385	50
MSTBT 2,5/12-ST-5,08	1781085	50	MSTBT 2,5/12-STF-5,08	1805398	50
MSTBT 2,5/13-ST-5,08	1781098	50	MSTBT 2,5/13-STF-5,08	1805408	50
MSTBT 2,5/14-ST-5,08	1781108	50	MSTBT 2,5/14-STF-5,08	1805411	50
MSTBT 2,5/15-ST-5,08	1781111	50	MSTBT 2,5/15-STF-5,08	1805424	50
MSTBT 2,5/16-ST-5,08	1781124	50	MSTBT 2,5/16-STF-5,08	1805437	50

With connection area moved to the top and screw flange



Dimensional drawing

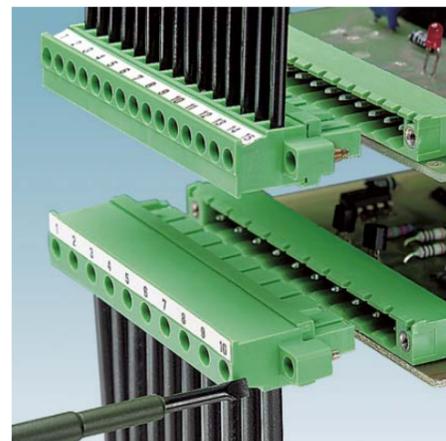


For additional information, visit www.phoenixcontact.net/products

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Connector with a screw connection



- MSTB plugs for vertical plug-in direction
- Versions with and without a screw flange
- MVSTBR 2,5...-ST(-5,08)**
- Conductor entry on the coded side of the connector
- MVSTBW 2,5...-ST(-5,08)**
- Conductor entry on the rippled side of the connector

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	20
	Insertion bridge EBP...-5	829

Dimensional drawing

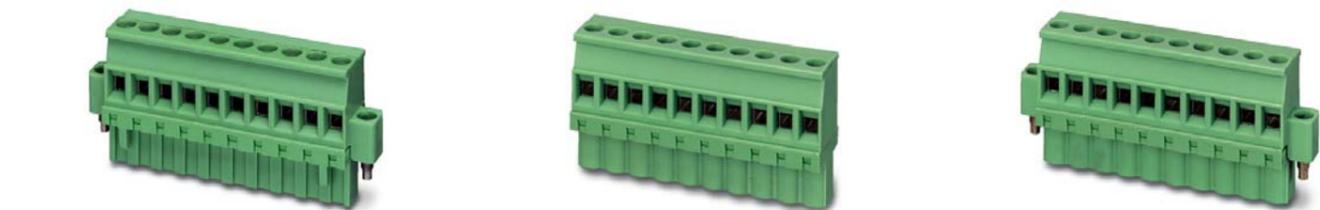
Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MVSTBR 2,5/ 2-ST	1792016	50	
MVSTBR 2,5/ 3-ST	1792029	50	
MVSTBR 2,5/ 4-ST	1792032	50	
MVSTBR 2,5/ 5-ST	1792045	50	
MVSTBR 2,5/ 6-ST	1792058	50	
MVSTBR 2,5/ 7-ST	1792061	50	
MVSTBR 2,5/ 8-ST	1792074	50	
MVSTBR 2,5/ 9-ST	1792087	50	
MVSTBR 2,5/10-ST	1792090	50	
MVSTBR 2,5/11-ST	1792100	50	
MVSTBR 2,5/12-ST	1792113	50	
MVSTBR 2,5/13-ST	1792126	50	
MVSTBR 2,5/14-ST	1792139	50	
MVSTBR 2,5/15-ST	1792142	50	
MVSTBR 2,5/16-ST	1792155	50	
5.08 mm pitch, color: Green			
MVSTBR 2,5/ 2-ST-5,08	1792249	50	
MVSTBR 2,5/ 3-ST-5,08	1792252	50	
MVSTBR 2,5/ 4-ST-5,08	1792265	50	
MVSTBR 2,5/ 5-ST-5,08	1792278	50	
MVSTBR 2,5/ 6-ST-5,08	1792281	50	
MVSTBR 2,5/ 7-ST-5,08	1792294	50	
MVSTBR 2,5/ 8-ST-5,08	1792304	50	
MVSTBR 2,5/ 9-ST-5,08	1792317	50	
MVSTBR 2,5/10-ST-5,08	1792320	50	
MVSTBR 2,5/11-ST-5,08	1792333	50	
MVSTBR 2,5/12-ST-5,08	1792346	50	
MVSTBR 2,5/13-ST-5,08	1792359	50	
MVSTBR 2,5/14-ST-5,08	1792362	50	
MVSTBR 2,5/15-ST-5,08	1792375	50	
MVSTBR 2,5/16-ST-5,08	1792388	50	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2,5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Solid / stranded [mm ²]	0.25 - 2.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1 / 0.2 - 1.5
Solid / stranded [mm ²]	0.25 - 1
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	
Nominal voltage [V]	B C D
Nominal current [A]	300 - - 300
Connection capacity AWG	30 - 12 - - 30 - 12
Approval data (CSA) Use Group	
Nominal voltage [V]	B C D
Nominal current [A]	300 - - 300
Connection capacity AWG	28 - 12 - - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



Conductor entry facing keying side
 Conductor entry facing keying side, with screw flange
 Conductor entry facing rippled side
 Conductor entry facing rippled side, with screw flange

Dimensional drawing

Representative derating curves of the above-mentioned plugs
 Type: MVSTBR 2,5...-ST(-5,08) with MSTBA 2,5/...-G(-5,08)

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MVSTBR 2,5/ 2-STF	1835478	50	
MVSTBR 2,5/ 3-STF	1835481	50	
MVSTBR 2,5/ 4-STF	1835494	50	
MVSTBR 2,5/ 5-STF	1835504	50	
MVSTBR 2,5/ 6-STF	1835517	50	
MVSTBR 2,5/ 7-STF	1835520	50	
MVSTBR 2,5/ 8-STF	1835533	50	
MVSTBR 2,5/ 9-STF	1835546	50	
MVSTBR 2,5/10-STF	1835559	50	
MVSTBR 2,5/11-STF	1835562	50	
MVSTBR 2,5/12-STF	1835575	50	
MVSTBR 2,5/13-STF	1835588	50	
MVSTBR 2,5/14-STF	1835591	50	
MVSTBR 2,5/15-STF	1835601	50	
MVSTBR 2,5/16-STF	1835614	50	
5.08 mm pitch, color: Green			
MVSTBR 2,5/ 2-STF-5,08	1835096	50	
MVSTBR 2,5/ 3-STF-5,08	1835106	50	
MVSTBR 2,5/ 4-STF-5,08	1835119	50	
MVSTBR 2,5/ 5-STF-5,08	1835122	50	
MVSTBR 2,5/ 6-STF-5,08	1835135	50	
MVSTBR 2,5/ 7-STF-5,08	1835148	50	
MVSTBR 2,5/ 8-STF-5,08	1835151	50	
MVSTBR 2,5/ 9-STF-5,08	1835164	50	
MVSTBR 2,5/10-STF-5,08	1835177	50	
MVSTBR 2,5/11-STF-5,08	1835180	50	
MVSTBR 2,5/12-STF-5,08	1835193	50	
MVSTBR 2,5/13-STF-5,08	1835203	50	
MVSTBR 2,5/14-STF-5,08	1835216	50	
MVSTBR 2,5/15-STF-5,08	1835229	50	
MVSTBR 2,5/16-STF-5,08	1835232	50	

Dimensional drawing

Representative derating curves of the above-mentioned plugs
 Type: MVSTBW 2,5...-ST(-5,08) with (U)MSTBVK 2,5/...-G-5,08

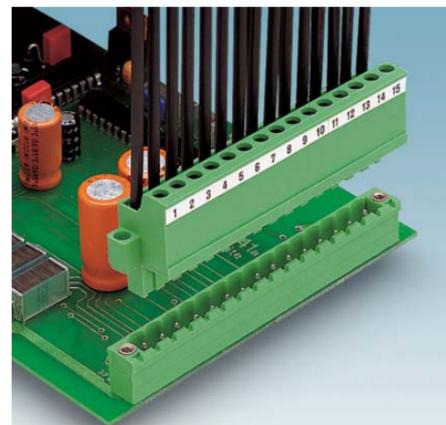
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MVSTBW 2,5/ 2-ST	1792524	50	
MVSTBW 2,5/ 3-ST	1792537	50	
MVSTBW 2,5/ 4-ST	1792540	50	
MVSTBW 2,5/ 5-ST	1792553	50	
MVSTBW 2,5/ 6-ST	1792566	50	
MVSTBW 2,5/ 7-ST	1792579	50	
MVSTBW 2,5/ 8-ST	1792582	50	
MVSTBW 2,5/ 9-ST	1792595	50	
MVSTBW 2,5/10-ST	1792605	50	
MVSTBW 2,5/11-ST	1792618	50	
MVSTBW 2,5/12-ST	1792621	50	
MVSTBW 2,5/13-ST	1792634	50	
MVSTBW 2,5/14-ST	1792647	50	
MVSTBW 2,5/15-ST	1792650	50	
MVSTBW 2,5/16-ST	1792663	50	
5.08 mm pitch, color: Green			
MVSTBW 2,5/ 2-ST-5,08	1792757	50	
MVSTBW 2,5/ 3-ST-5,08	1792760	50	
MVSTBW 2,5/ 4-ST-5,08	1792773	50	
MVSTBW 2,5/ 5-ST-5,08	1792786	50	
MVSTBW 2,5/ 6-ST-5,08	1792799	50	
MVSTBW 2,5/ 7-ST-5,08	1792809	50	
MVSTBW 2,5/ 8-ST-5,08	1792812	50	
MVSTBW 2,5/ 9-ST-5,08	1792825	50	
MVSTBW 2,5/10-ST-5,08	1792838	50	
MVSTBW 2,5/11-ST-5,08	1792841	50	
MVSTBW 2,5/12-ST-5,08	1792854	50	
MVSTBW 2,5/13-ST-5,08	1792867	50	
MVSTBW 2,5/14-ST-5,08	1792870	50	
MVSTBW 2,5/15-ST-5,08	1792883	50	
MVSTBW 2,5/16-ST-5,08	1792896	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MVSTBW 2,5/ 2-STF	1835287	50	
MVSTBW 2,5/ 3-STF	1835290	50	
MVSTBW 2,5/ 4-STF	1835300	50	
MVSTBW 2,5/ 5-STF	1835313	50	
MVSTBW 2,5/ 6-STF	1835326	50	
MVSTBW 2,5/ 7-STF	1835339	50	
MVSTBW 2,5/ 8-STF	1835342	50	
MVSTBW 2,5/ 9-STF	1835355	50	
MVSTBW 2,5/10-STF	1835368	50	
MVSTBW 2,5/11-STF	1835371	50	
MVSTBW 2,5/12-STF	1835384	50	
MVSTBW 2,5/13-STF	1835397	50	
MVSTBW 2,5/14-STF	1835407	50	
MVSTBW 2,5/15-STF	1835410	50	
MVSTBW 2,5/16-STF	1835423	50	
5.08 mm pitch, color: Green			
MVSTBW 2,5/ 2-STF-5,08	1834903	50	
MVSTBW 2,5/ 3-STF-5,08	1834916	50	
MVSTBW 2,5/ 4-STF-5,08	1834929	50	
MVSTBW 2,5/ 5-STF-5,08	1834932	50	
MVSTBW 2,5/ 6-STF-5,08	1834945	50	
MVSTBW 2,5/ 7-STF-5,08	1834958	50	
MVSTBW 2,5/ 8-STF-5,08	1834961	50	
MVSTBW 2,5/ 9-STF-5,08	1834974	50	
MVSTBW 2,5/10-STF-5,08	1834987	50	
MVSTBW 2,5/11-STF-5,08	1834990	50	
MVSTBW 2,5/12-STF-5,08	1835009	50	
MVSTBW 2,5/13-STF-5,08	1835012	50	
MVSTBW 2,5/14-STF-5,08	1835025	50	
MVSTBW 2,5/15-STF-5,08	1835038	50	
MVSTBW 2,5/16-STF-5,08	1835041	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Connector with a screw connection



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.
 2) Diverging data with FRONT-MSTB 2,5/... - stripping length 10 mm



Plug-in direction 45° to the conductor axis



Plug-in direction 45° to the conductor axis, with screw flange



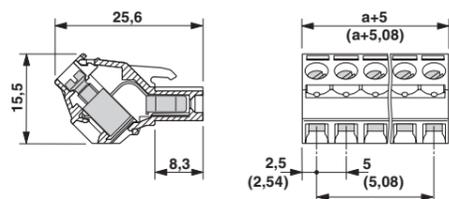
With front screw connection, plug-in direction parallel to the conductor axis



With front screw connection and screw flange, plug-in direction parallel to the conductor axis



Dimensional drawing

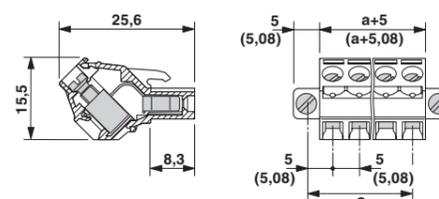


Note derating curves

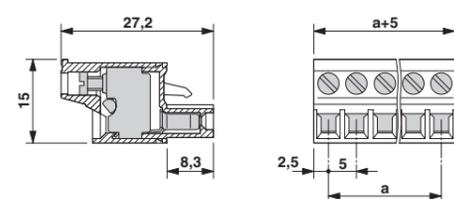
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



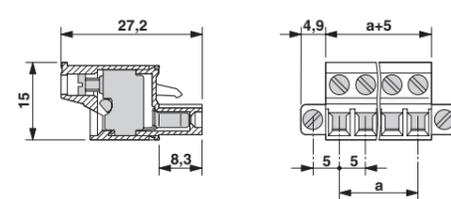
Dimensional drawing



Dimensional drawing

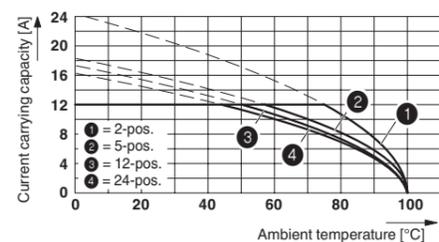


Dimensional drawing

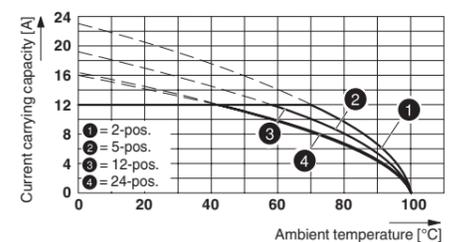


Representative derating curves of the above-mentioned plugs

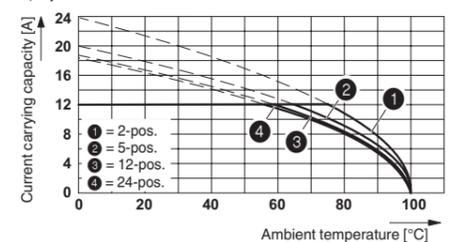
Type: SMSTB 2,5/...-ST with MSTBA 2,5/...-G



Type: SMSTB 2,5/...-ST with SMSTBA 2,5/...-G



Type: FRONT-MSTB 2,5/...-ST(-5,08) with MSTBA 2,5/...-G(-5,08)



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	M3
Tightening torque	[Nm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data		Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green				
		SMSTB 2,5/ 2-ST	1768765	50
		SMSTB 2,5/ 3-ST	1768778	50
		SMSTB 2,5/ 4-ST	1768781	50
		SMSTB 2,5/ 5-ST	1768794	50
		SMSTB 2,5/ 6-ST	1768804	50
		SMSTB 2,5/ 7-ST	1768817	50
		SMSTB 2,5/ 8-ST	1768448	50
		SMSTB 2,5/ 9-ST	1768820	50
		SMSTB 2,5/10-ST	1768833	50
		SMSTB 2,5/11-ST	1768846	50
		SMSTB 2,5/12-ST	1768859	50
		SMSTB 2,5/13-ST	1768862	50
		SMSTB 2,5/14-ST	1768875	50
		SMSTB 2,5/15-ST	1768888	50
		SMSTB 2,5/16-ST	1768891	50
5.08 mm pitch, color: Green				
		SMSTB 2,5/ 2-ST-5,08	1826283	50
		SMSTB 2,5/ 3-ST-5,08	1826296	50
		SMSTB 2,5/ 4-ST-5,08	1826306	50
		SMSTB 2,5/ 5-ST-5,08	1826319	50
		SMSTB 2,5/ 6-ST-5,08	1826322	50
		SMSTB 2,5/ 7-ST-5,08	1826335	50
		SMSTB 2,5/ 8-ST-5,08	1826348	50
		SMSTB 2,5/ 9-ST-5,08	1826351	50
		SMSTB 2,5/10-ST-5,08	1826364	50
		SMSTB 2,5/11-ST-5,08	1826377	50
		SMSTB 2,5/12-ST-5,08	1826380	50
		SMSTB 2,5/13-ST-5,08	1826393	50
		SMSTB 2,5/14-ST-5,08	1826403	50
		SMSTB 2,5/15-ST-5,08	1826416	50
		SMSTB 2,5/16-ST-5,08	1826429	50

Ordering data

Ordering data		Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green				
		SMSTB 2,5/ 2-STF	1970870	50
		SMSTB 2,5/ 3-STF	1970883	50
		SMSTB 2,5/ 4-STF	1970896	50
		SMSTB 2,5/ 5-STF	1970906	50
		SMSTB 2,5/ 6-STF	1970919	50
		SMSTB 2,5/ 7-STF	1970922	50
		SMSTB 2,5/ 8-STF	1970935	50
		SMSTB 2,5/ 9-STF	1970948	50
		SMSTB 2,5/10-STF	1970951	50
		SMSTB 2,5/11-STF	1970964	50
		SMSTB 2,5/12-STF	1970977	50
		SMSTB 2,5/13-STF	1970980	50
		SMSTB 2,5/14-STF	1970993	50
		SMSTB 2,5/15-STF	1971002	50
		SMSTB 2,5/16-STF	1971015	50
5.08 mm pitch, color: Green				
		SMSTB 2,5/ 2-STF-5,08	1971060	50
		SMSTB 2,5/ 3-STF-5,08	1971073	50
		SMSTB 2,5/ 4-STF-5,08	1971086	50
		SMSTB 2,5/ 5-STF-5,08	1971099	50
		SMSTB 2,5/ 6-STF-5,08	1971109	50
		SMSTB 2,5/ 7-STF-5,08	1971112	50
		SMSTB 2,5/ 8-STF-5,08	1971125	50
		SMSTB 2,5/ 9-STF-5,08	1971138	50
		SMSTB 2,5/10-STF-5,08	1971141	50
		SMSTB 2,5/11-STF-5,08	1971154	50
		SMSTB 2,5/12-STF-5,08	1971167	50
		SMSTB 2,5/13-STF-5,08	1971170	50
		SMSTB 2,5/14-STF-5,08	1971183	50
		SMSTB 2,5/15-STF-5,08	1971196	50
		SMSTB 2,5/16-STF-5,08	1971206	50

Ordering data

Ordering data		Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green				
		FRONT-MSTB 2,5/ 2-ST	1779411	50
		FRONT-MSTB 2,5/ 3-ST	1779424	50
		FRONT-MSTB 2,5/ 4-ST	1779437	50
		FRONT-MSTB 2,5/ 5-ST	1779440	50
		FRONT-MSTB 2,5/ 6-ST	1779453	50
		FRONT-MSTB 2,5/ 7-ST	1779466	50
		FRONT-MSTB 2,5/ 8-ST	1779479	50
		FRONT-MSTB 2,5/ 9-ST	1779482	50
		FRONT-MSTB 2,5/10-ST	1779495	50
		FRONT-MSTB 2,5/11-ST	1779505	50
		FRONT-MSTB 2,5/12-ST	1779518	50
		FRONT-MSTB 2,5/13-ST	1779521	50
		FRONT-MSTB 2,5/14-ST	1779534	50
		FRONT-MSTB 2,5/15-ST	1779547	50
		FRONT-MSTB 2,5/16-ST	1779550	50
5.08 mm pitch, color: Green				
		FRONT-MSTB 2,5/ 2-ST-5,08	1777280	50
		FRONT-MSTB 2,5/ 3-ST-5,08	1777293	50
		FRONT-MSTB 2,5/ 4-ST-5,08	1777303	50
		FRONT-MSTB 2,5/ 5-ST-5,08	1777316	50
		FRONT-MSTB 2,5/ 6-ST-5,08	1777329	50
		FRONT-MSTB 2,5/ 7-ST-5,08	1777332	50
		FRONT-MSTB 2,5/ 8-ST-5,08	1777345	50
		FRONT-MSTB 2,5/ 9-ST-5,08	1777358	50
		FRONT-MSTB 2,5/10-ST-5,08	1777361	50
		FRONT-MSTB 2,5/11-ST-5,08	1777374	50
		FRONT-MSTB 2,5/12-ST-5,08	1777387	50
		FRONT-MSTB 2,5/13-ST-5,08	1777390	50
		FRONT-MSTB 2,5/14-ST-5,08	1777400	50
		FRONT-MSTB 2,5/15-ST-5,08	1777413	50
		FRONT-MSTB 2,5/16-ST-5,08	1777426	50

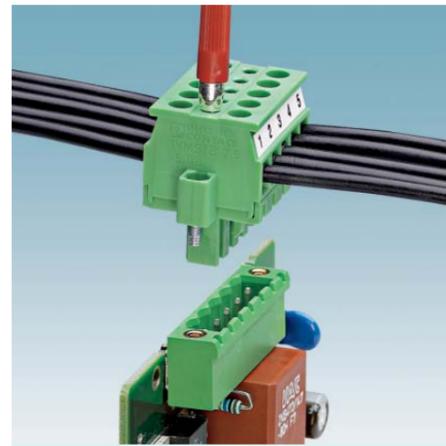
Ordering data

Ordering data		Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green				
		FRONT-MSTB 2,5/ 2-STF	1779644	50
		FRONT-MSTB 2,5/ 3-STF	1779657	50
		FRONT-MSTB 2,5/ 4-STF	1779660	50
		FRONT-MSTB 2,5/ 5-STF	1779673	50
		FRONT-MSTB 2,5/ 6-STF	1779686	50
		FRONT-MSTB 2,5/ 7-STF	1779699	50
		FRONT-MSTB 2,5/ 8-STF	1779709	50
		FRONT-MSTB 2,5/ 9-STF	1779712	50
		FRONT-MSTB 2,5/10-STF	1779725	50
		FRONT-MSTB 2,5/11-STF	1779738	50
		FRONT-MSTB 2,5/12-STF	1779741	50
		FRONT-MSTB 2,5/13-STF	1779754	50
		FRONT-MSTB 2,5/14-STF	1779767	50
		FRONT-MSTB 2,5/15-STF	1779770	50
		FRONT-MSTB 2,5/16-STF	1779783	50
5.08 mm pitch, color: Green				
		FRONT-MSTB 2,5/ 2-STF-5,08	1777808	50
		FRONT-MSTB 2,5/ 3-STF-5,08	1777811	50
		FRONT-MSTB 2,5/ 4-STF-5,08	1777824	50
		FRONT-MSTB 2,5/ 5-STF-5,08	1777837	50
		FRONT-MSTB 2,5/ 6-STF-5,08	1777840	50
		FRONT-MSTB 2,5/ 7-STF-5,08	1777853	50
		FRONT-MSTB 2,5/ 8-STF-5,08	1777866	50
		FRONT-MSTB 2,5/ 9-STF-5,08	1777879	50
		FRONT-MSTB 2,5/10-STF-5,08	1777892	50
		FRONT-MSTB 2,5/11-STF-5,08	1777905	50
		FRONT-MSTB 2,5/12-STF-5,08	1777918	50
		FRONT-MSTB 2,5/13-STF-5,08	1777931	50
		FRONT-MSTB 2,5/14-STF-5,08	1777944	50
		FRONT-MSTB 2,5/15-STF-5,08	1777957	50
		FRONT-MSTB 2,5/16-STF-5,08	1777970	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

TWIN screw plugs with connection cross section of up to 2.5 mm²



- Convenient double conductor connection for potential / signal distribution directly in the device
- Retaining the function of the following devices when unplugging individual connectors within a device series
- Versions with and without a screw flange
- 2.3 mm Ø test connection

TMSTBP 2,5...:
- For the DeviceNet-compliant version with gold-plated contact system, visit www.phoenixcontact.com

TVMSTB 2,5...:
- Compact TWIN plug
- Conductor exits perpendicular to the plug-in direction

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

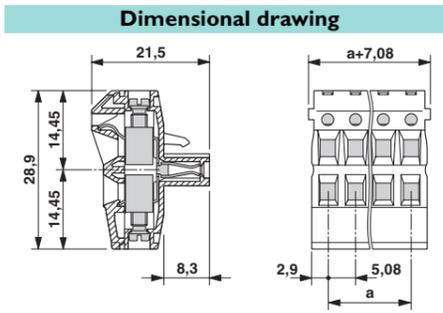
The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/3,8	798
	Test plug MPS	831
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



With double screw connection and test connection, plug-in direction parallel to the conductor axis



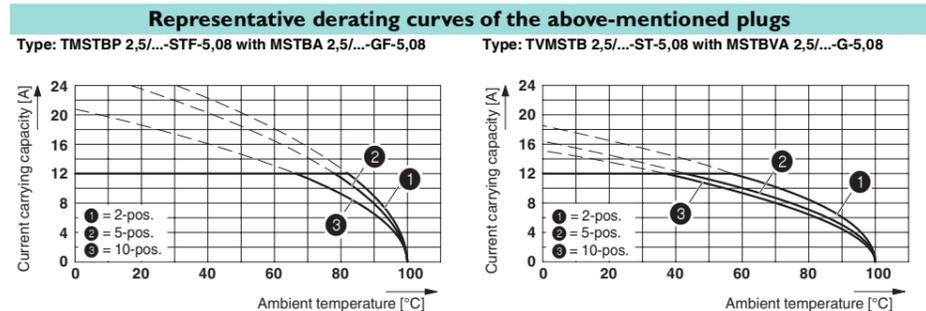
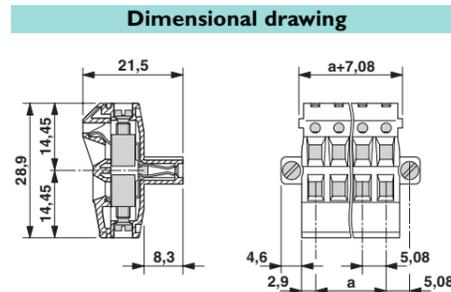
Note derating curves
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Classic plug-in connector with 5.0 to 7.62 mm pitch

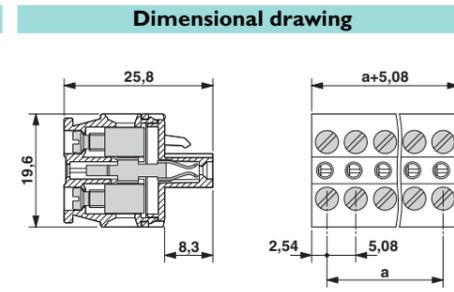
CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



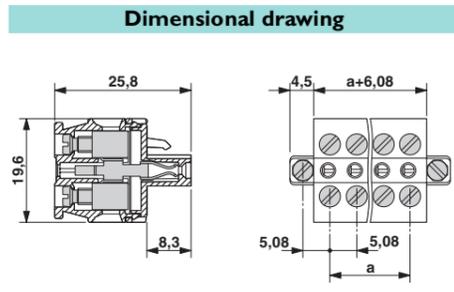
With double screw connection Test connection and screw flange, plug-in direction parallel to the conductor axis



With double screw connection and test connection, plug-in direction vertical to the conductor axis



With double screw connection Screw flange and test connection, plug-in direction vertical to the conductor axis



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 12 / 2.5
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 2.5
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 630
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 15 - 15
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length	[mm] 7
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
TMSTBP 2,5/ 2-ST-5,08	1853010	50	
TMSTBP 2,5/ 3-ST-5,08	1853023	50	
TMSTBP 2,5/ 4-ST-5,08	1853036	50	
TMSTBP 2,5/ 5-ST-5,08	1853049	50	
TMSTBP 2,5/ 6-ST-5,08	1853052	50	
TMSTBP 2,5/ 7-ST-5,08	1853065	50	
TMSTBP 2,5/ 8-ST-5,08	1853078	50	
TMSTBP 2,5/ 9-ST-5,08	1853081	50	
TMSTBP 2,5/10-ST-5,08	1853094	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
TMSTBP 2,5/ 2-STF-5,08	1853104	50	
TMSTBP 2,5/ 3-STF-5,08	1853117	50	
TMSTBP 2,5/ 4-STF-5,08	1853120	50	
TMSTBP 2,5/ 5-STF-5,08	1853133	50	
TMSTBP 2,5/ 6-STF-5,08	1853146	50	
TMSTBP 2,5/ 7-STF-5,08	1853159	50	
TMSTBP 2,5/ 8-STF-5,08	1853162	50	
TMSTBP 2,5/ 9-STF-5,08	1853175	50	
TMSTBP 2,5/10-STF-5,08	1853188	50	

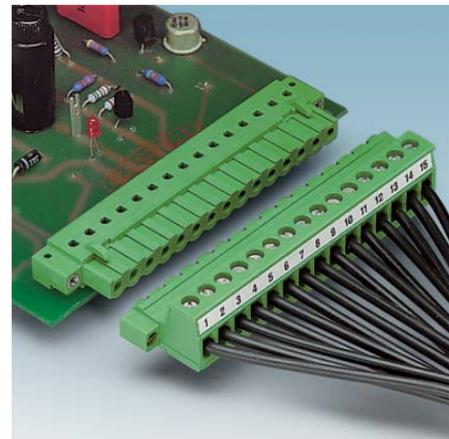
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
TVMSTB 2,5/ 2-ST-5,08	1719008	50	
TVMSTB 2,5/ 3-ST-5,08	1719011	50	
TVMSTB 2,5/ 4-ST-5,08	1719024	50	
TVMSTB 2,5/ 5-ST-5,08	1719037	50	
TVMSTB 2,5/ 6-ST-5,08	1719040	50	
TVMSTB 2,5/ 7-ST-5,08	1719053	50	
TVMSTB 2,5/ 8-ST-5,08	1719066	50	
TVMSTB 2,5/ 9-ST-5,08	1719079	50	
TVMSTB 2,5/10-ST-5,08	1719082	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
TVMSTB 2,5/ 2-STF-5,08	1719095	50	
TVMSTB 2,5/ 3-STF-5,08	1719105	50	
TVMSTB 2,5/ 4-STF-5,08	1719118	50	
TVMSTB 2,5/ 5-STF-5,08	1719121	50	
TVMSTB 2,5/ 6-STF-5,08	1719134	50	
TVMSTB 2,5/ 7-STF-5,08	1719147	50	
TVMSTB 2,5/ 8-STF-5,08	1719150	50	
TVMSTB 2,5/ 9-STF-5,08	1719163	50	
TVMSTB 2,5/10-STF-5,08	1719176	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Inverted connectors with a screw connection



- Connectors with inverted contact system (male contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products
- The IC 2,5/...-STGF-5,08 becomes a panel feed-through terminal block in combination with the IC-DFR assembly frame, see page 350

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The inverted contact system is explained on page 34.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

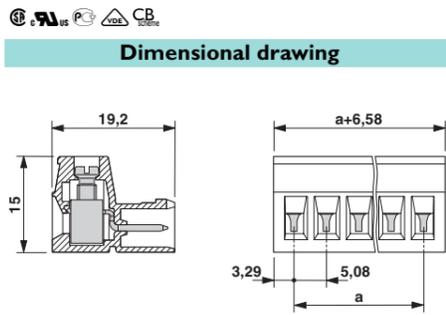
The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Marker cards SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Keying section CR-MSTB Order No. 1734401	38
	Insertion bridge EBP...-5	829
Only for IC 2,5/...-STGF-5,08		
	Feed-through assembly frame IC-DFR...	350



Inverted connector with screw connection



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

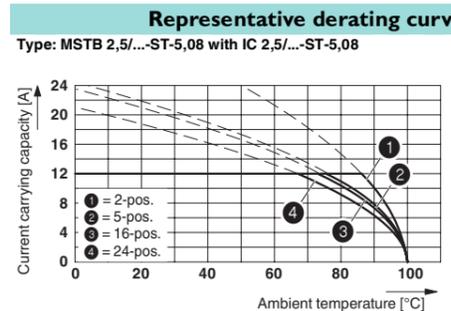
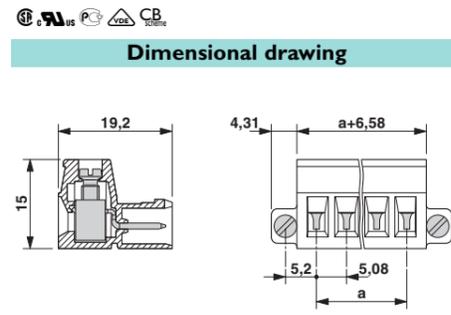
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
IC 2,5/ 2-ST-5,08	1786174	50	
IC 2,5/ 3-ST-5,08	1786187	50	
IC 2,5/ 4-ST-5,08	1786190	50	
IC 2,5/ 5-ST-5,08	1786200	50	
IC 2,5/ 6-ST-5,08	1786213	50	
IC 2,5/ 7-ST-5,08	1786226	50	
IC 2,5/ 8-ST-5,08	1786239	50	
IC 2,5/ 9-ST-5,08	1786242	50	
IC 2,5/10-ST-5,08	1786255	50	
IC 2,5/11-ST-5,08	1786268	50	
IC 2,5/12-ST-5,08	1786271	50	
IC 2,5/13-ST-5,08	1786284	50	
IC 2,5/14-ST-5,08	1786297	50	
IC 2,5/15-ST-5,08	1786307	50	
IC 2,5/16-ST-5,08	1786310	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



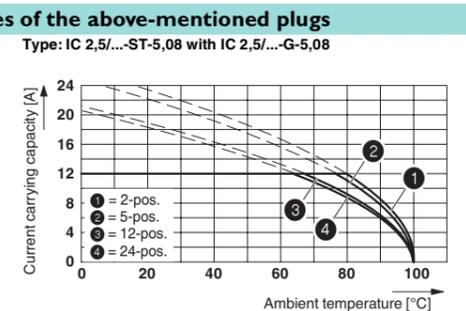
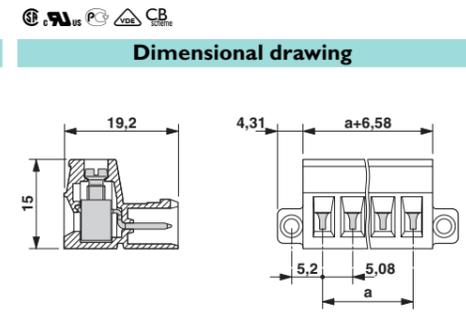
With screw flange, for screw connection using inverted headers



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-STF-5,08	1825310	50
IC 2,5/ 3-STF-5,08	1825323	50
IC 2,5/ 4-STF-5,08	1825336	50
IC 2,5/ 5-STF-5,08	1825349	50
IC 2,5/ 6-STF-5,08	1825352	50
IC 2,5/ 7-STF-5,08	1825365	50
IC 2,5/ 8-STF-5,08	1825378	50
IC 2,5/ 9-STF-5,08	1825391	50
IC 2,5/10-STF-5,08	1825404	50
IC 2,5/11-STF-5,08	1825417	50
IC 2,5/12-STF-5,08	1825420	50
IC 2,5/13-STF-5,08	1825433	50
IC 2,5/14-STF-5,08	1825446	50
IC 2,5/15-STF-5,08	1825459	50



With threaded flange for screw connection using MSTB connectors with screw flange

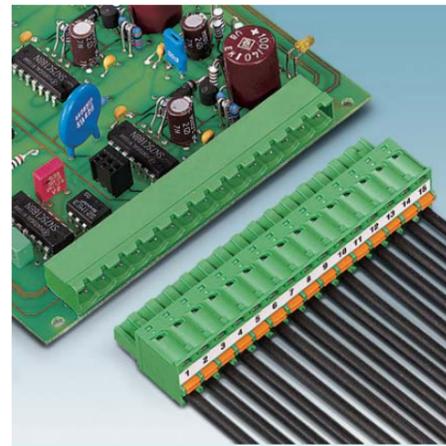


Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-STGF-5,08	1825501	50
IC 2,5/ 3-STGF-5,08	1825514	50
IC 2,5/ 4-STGF-5,08	1825527	50
IC 2,5/ 5-STGF-5,08	1825530	50
IC 2,5/ 6-STGF-5,08	1825543	50
IC 2,5/ 7-STGF-5,08	1825556	50
IC 2,5/ 8-STGF-5,08	1825569	50
IC 2,5/ 9-STGF-5,08	1825572	50
IC 2,5/10-STGF-5,08	1825585	50
IC 2,5/11-STGF-5,08	1825598	50
IC 2,5/12-STGF-5,08	1825608	50
IC 2,5/13-STGF-5,08	1825611	50
IC 2,5/14-STGF-5,08	1825624	50
IC 2,5/15-STGF-5,08	1825637	50
IC 2,5/16-STGF-5,08	1825640	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

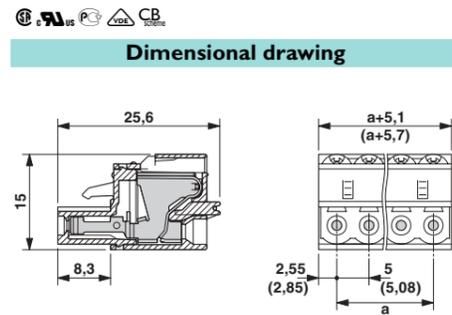
Plugs with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Can be combined with the MSTB 2', 5 range
- Contacting of solid or stranded conductors with a ferrule without operating the opening lever directly in the terminal point
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors
- Versions with and without a screw flange, with a self-locking flange, and with lock & release levers
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying profile CP-MSTB Order No. 1734634	38
	Strain relief STZ ...-FKC-5,08	837
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS	831

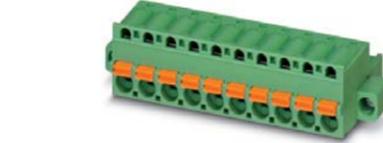


Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

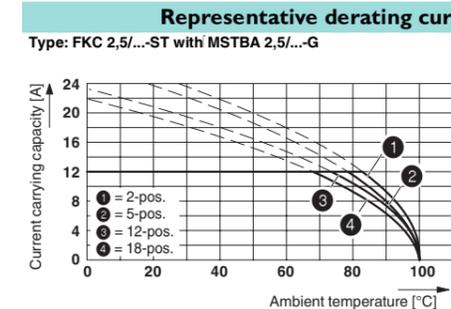
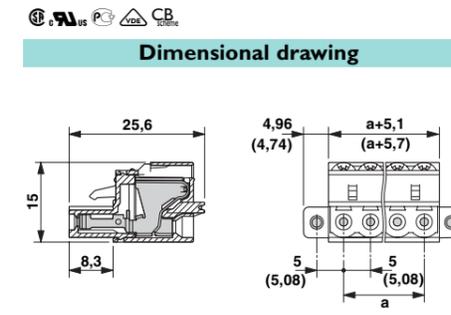
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5/ 2-ST	1910351	50
FKC 2,5/ 3-ST	1910364	50
FKC 2,5/ 4-ST	1910377	50
FKC 2,5/ 5-ST	1910380	50
FKC 2,5/ 6-ST	1910393	50
FKC 2,5/ 7-ST	1910403	50
FKC 2,5/ 8-ST	1910416	50
FKC 2,5/ 9-ST	1910429	50
FKC 2,5/10-ST	1910432	50
FKC 2,5/11-ST	1910445	50
FKC 2,5/12-ST	1910458	50
FKC 2,5/13-ST	1910461	50
FKC 2,5/14-ST	1910474	50
FKC 2,5/15-ST	1910487	50
FKC 2,5/16-ST	1910490	50
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08	1873058	50
FKC 2,5/ 3-ST-5,08	1873061	50
FKC 2,5/ 4-ST-5,08	1873074	50
FKC 2,5/ 5-ST-5,08	1873087	50
FKC 2,5/ 6-ST-5,08	1873090	50
FKC 2,5/ 7-ST-5,08	1873100	50
FKC 2,5/ 8-ST-5,08	1873113	50
FKC 2,5/ 9-ST-5,08	1873126	50
FKC 2,5/10-ST-5,08	1873139	50
FKC 2,5/11-ST-5,08	1873142	50
FKC 2,5/12-ST-5,08	1873155	50
FKC 2,5/13-ST-5,08	1873168	50
FKC 2,5/14-ST-5,08	1873171	50
FKC 2,5/15-ST-5,08	1873184	50
FKC 2,5/16-ST-5,08	1873197	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

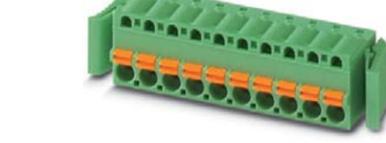
CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



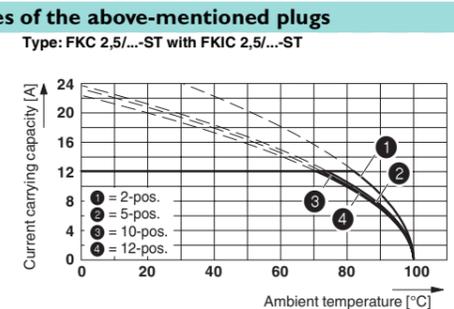
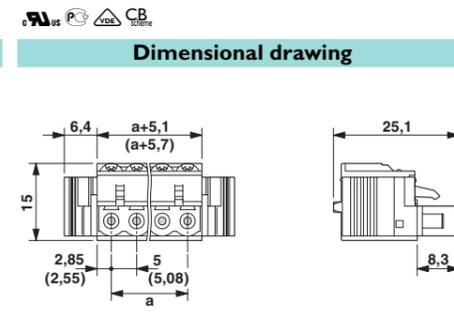
With test connection and screw flange



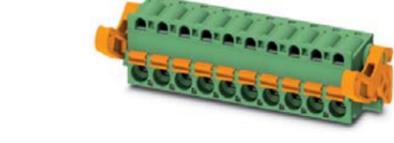
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5/ 2-STF	1910526	50
FKC 2,5/ 3-STF	1910539	50
FKC 2,5/ 4-STF	1910542	50
FKC 2,5/ 5-STF	1910555	50
FKC 2,5/ 6-STF	1910568	50
FKC 2,5/ 7-STF	1910571	50
FKC 2,5/ 8-STF	1910584	50
FKC 2,5/ 9-STF	1910597	50
FKC 2,5/10-STF	1910607	50
FKC 2,5/11-STF	1910610	50
FKC 2,5/12-STF	1910623	50
FKC 2,5/13-STF	1910636	50
FKC 2,5/14-STF	1910649	50
FKC 2,5/15-STF	1910652	50
FKC 2,5/16-STF	1910665	50
5.08 mm pitch, color: Green		
FKC 2,5/ 2-STF-5,08	1873207	50
FKC 2,5/ 3-STF-5,08	1873210	50
FKC 2,5/ 4-STF-5,08	1873223	50
FKC 2,5/ 5-STF-5,08	1873236	50
FKC 2,5/ 6-STF-5,08	1873249	50
FKC 2,5/ 7-STF-5,08	1873252	50
FKC 2,5/ 8-STF-5,08	1873265	50
FKC 2,5/ 9-STF-5,08	1873278	50
FKC 2,5/10-STF-5,08	1873281	50
FKC 2,5/11-STF-5,08	1873294	50
FKC 2,5/12-STF-5,08	1873307	50
FKC 2,5/13-STF-5,08	1873317	50
FKC 2,5/14-STF-5,08	1873320	50
FKC 2,5/15-STF-5,08	1873333	50
FKC 2,5/16-STF-5,08	1873346	50



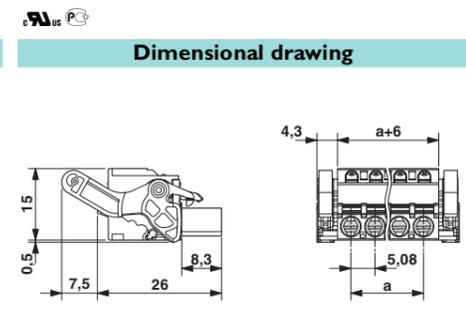
With test connection and self-locking flange



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5/ 2-ST-RF	1947052	50
FKC 2,5/ 3-ST-RF	1947065	50
FKC 2,5/ 4-ST-RF	1947078	50
FKC 2,5/ 5-ST-RF	1947081	50
FKC 2,5/ 6-ST-RF	1947094	50
FKC 2,5/ 7-ST-RF	1947104	50
FKC 2,5/ 8-ST-RF	1947117	50
FKC 2,5/ 9-ST-RF	1947120	50
FKC 2,5/10-ST-RF	1947133	50
FKC 2,5/11-ST-RF	1947146	50
FKC 2,5/12-ST-RF	1947159	50
FKC 2,5/13-ST-RF	1947162	50
FKC 2,5/14-ST-RF	1947175	50
FKC 2,5/15-ST-RF	1947188	50
FKC 2,5/16-ST-RF	1947191	50
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08-RF	1925692	50
FKC 2,5/ 3-ST-5,08-RF	1925702	50
FKC 2,5/ 4-ST-5,08-RF	1925715	50
FKC 2,5/ 5-ST-5,08-RF	1925728	50
FKC 2,5/ 6-ST-5,08-RF	1925731	50
FKC 2,5/ 7-ST-5,08-RF	1925744	50
FKC 2,5/ 8-ST-5,08-RF	1925757	50
FKC 2,5/ 9-ST-5,08-RF	1925760	50
FKC 2,5/10-ST-5,08-RF	1925773	50
FKC 2,5/11-ST-5,08-RF	1925786	50
FKC 2,5/12-ST-5,08-RF	1925799	50
FKC 2,5/13-ST-5,08-RF	1925809	50
FKC 2,5/14-ST-5,08-RF	1925812	50
FKC 2,5/15-ST-5,08-RF	1925825	50
FKC 2,5/16-ST-5,08-RF	1925838	50



With test connection and lock & release levers for snapping on and ejecting

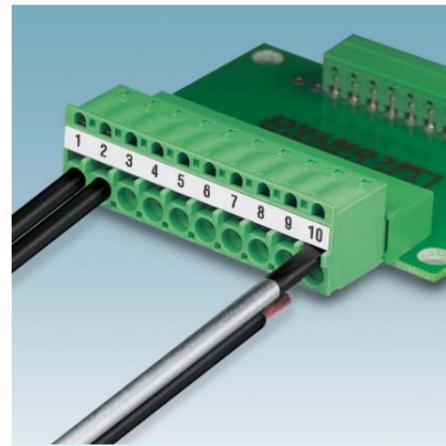


Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08-LR	1792517	50
FKC 2,5/ 3-ST-5,08-LR	1792520	50
FKC 2,5/ 4-ST-5,08-LR	1792533	50
FKC 2,5/ 5-ST-5,08-LR	1792546	50
FKC 2,5/ 6-ST-5,08-LR	1792559	50
FKC 2,5/ 7-ST-5,08-LR	1792562	50
FKC 2,5/ 8-ST-5,08-LR	1792575	50
FKC 2,5/ 9-ST-5,08-LR	1792588	50
FKC 2,5/10-ST-5,08-LR	1792591	50
FKC 2,5/11-ST-5,08-LR	1792601	50
FKC 2,5/12-ST-5,08-LR	1792614	50
FKC 2,5/13-ST-5,08-LR	1810900	50
FKC 2,5/14-ST-5,08-LR	1810913	50
FKC 2,5/15-ST-5,08-LR	1810926	50
FKC 2,5/16-ST-5,08-LR	1810939	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Plugs with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Versions with and without a screw flange
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

FKCS 2,5/...-ST(F)-...
- with actuation shaft for screwdriver, comfortable "two-hand operation"

FKCT 2,5/...-ST(F)-....
- The cable connection area of the FKCT 2,5/... is located deeper than that of the FKCS 2,5/... or the FKCS 2,5/...

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

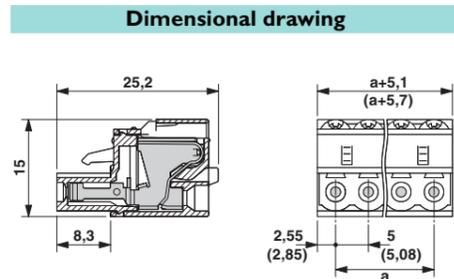
The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.
2) CSA data for FKCT 2,5/...-ST(F) on request.

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Strain relief STZ ...-FKC-5,08	837
	Keying profile CP-MSTB Order No. 1734634	38
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS	831



With screwdriver actuation shaft and test connection



Note derating curves
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKCS 2,5/ 2-ST	1974737	50	
FKCS 2,5/ 3-ST	1974740	50	
FKCS 2,5/ 4-ST	1974753	50	
FKCS 2,5/ 5-ST	1974766	50	
FKCS 2,5/ 6-ST	1974779	50	
FKCS 2,5/ 7-ST	1974782	50	
FKCS 2,5/ 8-ST	1974795	50	
FKCS 2,5/ 9-ST	1974805	50	
FKCS 2,5/10-ST	1974818	50	
FKCS 2,5/11-ST	1974821	50	
FKCS 2,5/12-ST	1974834	50	
FKCS 2,5/13-ST	1974847	50	
FKCS 2,5/14-ST	1974850	50	
FKCS 2,5/15-ST	1974863	50	
FKCS 2,5/16-ST	1974876	50	
5.08 mm pitch, color: Green			
FKCS 2,5/ 2-ST-5,08	1975079	50	
FKCS 2,5/ 3-ST-5,08	1975082	50	
FKCS 2,5/ 4-ST-5,08	1975095	50	
FKCS 2,5/ 5-ST-5,08	1975105	50	
FKCS 2,5/ 6-ST-5,08	1975118	50	
FKCS 2,5/ 7-ST-5,08	1975121	50	
FKCS 2,5/ 8-ST-5,08	1975134	50	
FKCS 2,5/ 9-ST-5,08	1975147	50	
FKCS 2,5/10-ST-5,08	1975150	50	
FKCS 2,5/11-ST-5,08	1975163	50	
FKCS 2,5/12-ST-5,08	1975176	50	
FKCS 2,5/13-ST-5,08	1975189	50	
FKCS 2,5/14-ST-5,08	1975192	50	
FKCS 2,5/15-ST-5,08	1975202	50	
FKCS 2,5/16-ST-5,08	1975215	50	

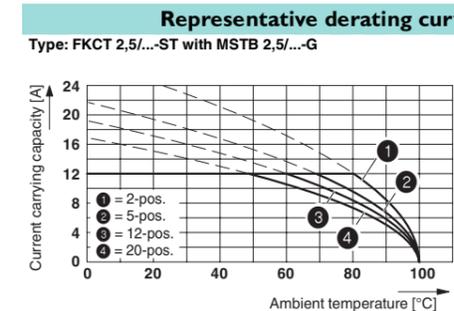
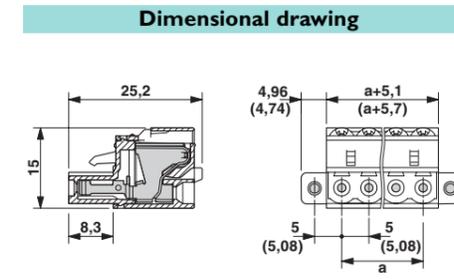
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Solid / stranded [mm ²]	0.25 - 2.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	26 - 12 - 26 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



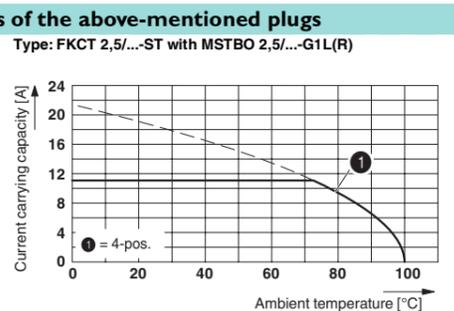
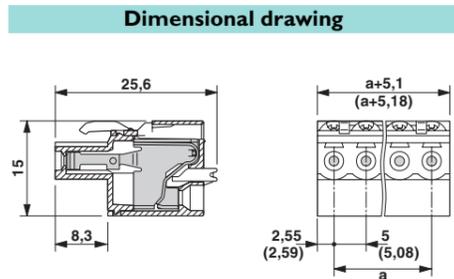
With screwdriver actuation shaft, test connection and screw flange



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCS 2,5/ 2-STF	1974928	50
FKCS 2,5/ 3-STF	1974931	50
FKCS 2,5/ 4-STF	1974944	50
FKCS 2,5/ 5-STF	1974957	50
FKCS 2,5/ 6-STF	1974960	50
FKCS 2,5/ 7-STF	1974973	50
FKCS 2,5/ 8-STF	1974986	50
FKCS 2,5/ 9-STF	1974999	50
FKCS 2,5/10-STF	1975008	50
FKCS 2,5/11-STF	1975011	50
FKCS 2,5/12-STF	1975024	50
FKCS 2,5/13-STF	1975037	50
FKCS 2,5/14-STF	1975040	50
FKCS 2,5/15-STF	1975053	50
FKCS 2,5/16-STF	1975066	50
5.08 mm pitch, color: Green		
FKCS 2,5/ 2-STF-5,08	1975260	50
FKCS 2,5/ 3-STF-5,08	1975273	50
FKCS 2,5/ 4-STF-5,08	1975286	50
FKCS 2,5/ 5-STF-5,08	1975299	50
FKCS 2,5/ 6-STF-5,08	1975309	50
FKCS 2,5/ 7-STF-5,08	1975312	50
FKCS 2,5/ 8-STF-5,08	1975325	50
FKCS 2,5/ 9-STF-5,08	1975338	50
FKCS 2,5/10-STF-5,08	1975341	50
FKCS 2,5/11-STF-5,08	1975354	50
FKCS 2,5/12-STF-5,08	1975367	50
FKCS 2,5/13-STF-5,08	1975370	50
FKCS 2,5/14-STF-5,08	1975383	50
FKCS 2,5/15-STF-5,08	1975396	50
FKCS 2,5/16-STF-5,08	1975406	50



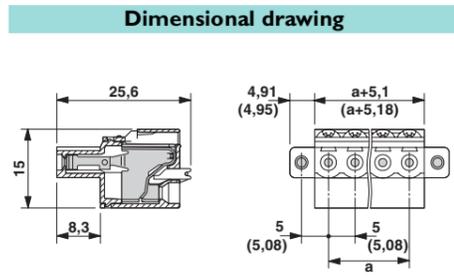
With connection area moved to the top and test connection



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCT 2,5/ 2-ST	1909210	50
FKCT 2,5/ 3-ST	1909223	50
FKCT 2,5/ 4-ST	1909236	50
FKCT 2,5/ 5-ST	1909249	50
FKCT 2,5/ 6-ST	1909252	50
FKCT 2,5/ 7-ST	1909265	50
FKCT 2,5/ 8-ST	1909278	50
FKCT 2,5/ 9-ST	1909281	50
FKCT 2,5/10-ST	1909294	50
FKCT 2,5/11-ST	1909304	50
FKCT 2,5/12-ST	1909317	50
FKCT 2,5/13-ST	1909320	50
FKCT 2,5/14-ST	1909333	50
FKCT 2,5/15-ST	1909346	50
FKCT 2,5/16-ST	1909359	50
5.08 mm pitch, color: Green		
FKCT 2,5/ 2-ST-5,08	1902110	50
FKCT 2,5/ 3-ST-5,08	1902123	50
FKCT 2,5/ 4-ST-5,08	1902136	50
FKCT 2,5/ 5-ST-5,08	1902149	50
FKCT 2,5/ 6-ST-5,08	1902152	50
FKCT 2,5/ 7-ST-5,08	1902165	50
FKCT 2,5/ 8-ST-5,08	1902178	50
FKCT 2,5/ 9-ST-5,08	1902181	50
FKCT 2,5/10-ST-5,08	1902194	50
FKCT 2,5/11-ST-5,08	1902204	50
FKCT 2,5/12-ST-5,08	1902217	50
FKCT 2,5/13-ST-5,08	1902220	50
FKCT 2,5/14-ST-5,08	1902233	50
FKCT 2,5/15-ST-5,08	1902246	50
FKCT 2,5/16-ST-5,08	1902259	50



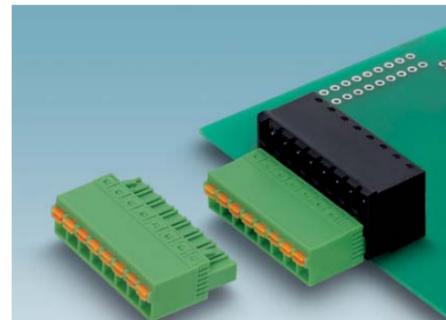
With connection area moved to the top, test connection and screw flange



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCT 2,5/ 2-STF	1909401	50
FKCT 2,5/ 3-STF	1909414	50
FKCT 2,5/ 4-STF	1909427	50
FKCT 2,5/ 5-STF	1909430	50
FKCT 2,5/ 6-STF	1909443	50
FKCT 2,5/ 7-STF	1909456	50
FKCT 2,5/ 8-STF	1909469	50
FKCT 2,5/ 9-STF	1909472	50
FKCT 2,5/10-STF	1909485	50
FKCT 2,5/11-STF	1909498	50
FKCT 2,5/12-STF	1909511	50
FKCT 2,5/13-STF	1909518	50
FKCT 2,5/14-STF	1909524	50
FKCT 2,5/15-STF	1909537	50
FKCT 2,5/16-STF	1909540	50
5.08 mm pitch, color: Green		
FKCT 2,5/ 2-STF-5,08	1902301	50
FKCT 2,5/ 3-STF-5,08	1902314	50
FKCT 2,5/ 4-STF-5,08	1902327	50
FKCT 2,5/ 5-STF-5,08	1902330	50
FKCT 2,5/ 6-STF-5,08	1902343	50
FKCT 2,5/ 7-STF-5,08	1902356	50
FKCT 2,5/ 8-STF-5,08	1902369	50
FKCT 2,5/ 9-STF-5,08	1902372	50
FKCT 2,5/10-STF-5,08	1902385	50
FKCT 2,5/11-STF-5,08	1902398	50
FKCT 2,5/12-STF-5,08	1902411	50
FKCT 2,5/13-STF-5,08	1902418	50
FKCT 2,5/14-STF-5,08	1902424	50
FKCT 2,5/15-STF-5,08	1902437	50
FKCT 2,5/16-STF-5,08	1902440	50

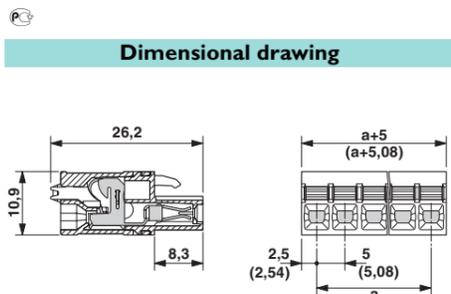
Plugs with push-in spring connection

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.
 2) UL/CUL on request.
 3) The insulation material type of the 5.08 mm pitch is Pa and the insulation material group is I.

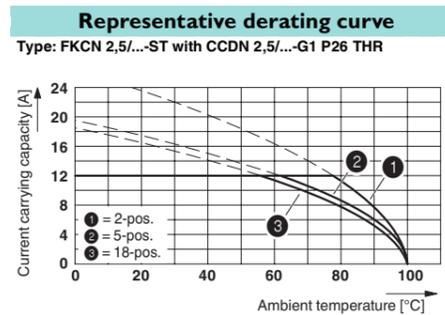
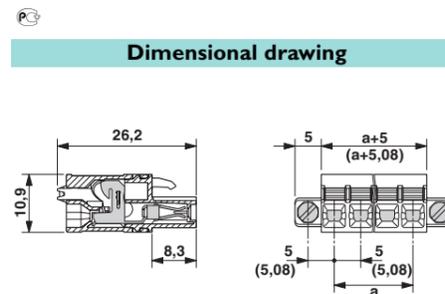
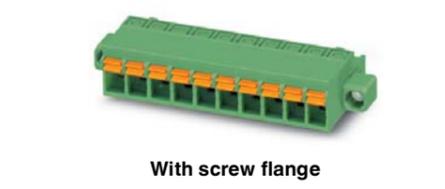


- Extremely flat design of just 10.9 mm
- Connection space for conductor cross sections of up to 2.5 mm²
- Maximum contact and packing density in combination with double-level CCDN 2,5 headers
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Versions with and without a screw flange
- Higher numbers of positions up to 18-pos. can be found at: www.phoenixcontact.net/products

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5/3,8	798
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 2.5 / 24 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	320 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA)	Use Group B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Type of insulation material / insulation material group	PBT / I ³⁾
Inflammability class according to UL 94	V0

Ordering data	
Type	Order No.
5.0 mm pitch, color: green	
FKCN 2,5/ 2-ST	1732742
FKCN 2,5/ 3-ST	1732755
FKCN 2,5/ 4-ST	1732768
FKCN 2,5/ 5-ST	1732771
FKCN 2,5/ 6-ST	1732784
FKCN 2,5/ 7-ST	1732797
FKCN 2,5/ 8-ST	1732807
FKCN 2,5/ 9-ST	1732810
FKCN 2,5/10-ST	1732823
FKCN 2,5/11-ST	1732833
FKCN 2,5/12-ST	1732836
FKCN 2,5/13-ST	1732849
FKCN 2,5/14-ST	1732852
FKCN 2,5/15-ST	1732865
FKCN 2,5/16-ST	1732878
5.08 mm pitch, color: Green	
FKCN 2,5/ 2-ST-5,08	1754568
FKCN 2,5/ 3-ST-5,08	1754571
FKCN 2,5/ 4-ST-5,08	1754584
FKCN 2,5/ 5-ST-5,08	1754597
FKCN 2,5/ 6-ST-5,08	1754607
FKCN 2,5/ 7-ST-5,08	1754610
FKCN 2,5/ 8-ST-5,08	1754623
FKCN 2,5/ 9-ST-5,08	1754636
FKCN 2,5/10-ST-5,08	1754649
FKCN 2,5/11-ST-5,08	1754652
FKCN 2,5/12-ST-5,08	1754665
FKCN 2,5/13-ST-5,08	1754678
FKCN 2,5/14-ST-5,08	1754681
FKCN 2,5/15-ST-5,08	1754694
FKCN 2,5/16-ST-5,08	1754704

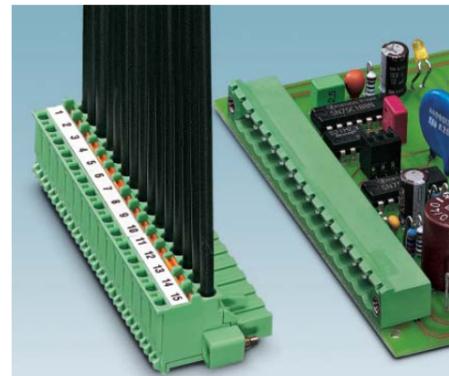
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
2	5.00	FKCN 2,5/ 2-ST	1732742	50
3	10.00	FKCN 2,5/ 3-ST	1732755	50
4	15.00	FKCN 2,5/ 4-ST	1732768	50
5	20.00	FKCN 2,5/ 5-ST	1732771	50
6	25.00	FKCN 2,5/ 6-ST	1732784	50
7	30.00	FKCN 2,5/ 7-ST	1732797	50
8	35.00	FKCN 2,5/ 8-ST	1732807	50
9	40.00	FKCN 2,5/ 9-ST	1732810	50
10	45.00	FKCN 2,5/10-ST	1732823	50
11	50.00	FKCN 2,5/11-ST	1732833	50
12	55.00	FKCN 2,5/12-ST	1732836	50
13	60.00	FKCN 2,5/13-ST	1732849	50
14	65.00	FKCN 2,5/14-ST	1732852	50
15	70.00	FKCN 2,5/15-ST	1732865	50
16	75.00	FKCN 2,5/16-ST	1732878	50

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCN 2,5/ 2-STF	1732962	50
FKCN 2,5/ 3-STF	1732975	50
FKCN 2,5/ 4-STF	1732988	50
FKCN 2,5/ 5-STF	1732991	50
FKCN 2,5/ 6-STF	1733000	50
FKCN 2,5/ 7-STF	1733013	50
FKCN 2,5/ 8-STF	1733026	50
FKCN 2,5/ 9-STF	1733039	50
FKCN 2,5/10-STF	1733042	50
FKCN 2,5/11-STF	1733050	50
FKCN 2,5/12-STF	1733055	50
FKCN 2,5/13-STF	1733068	50
FKCN 2,5/14-STF	1733071	50
FKCN 2,5/15-STF	1733084	50
FKCN 2,5/16-STF	1733097	50
5.08 mm pitch, color: Green		
FKCN 2,5/ 2-STF-5,08	1754791	50
FKCN 2,5/ 3-STF-5,08	1754801	50
FKCN 2,5/ 4-STF-5,08	1754814	50
FKCN 2,5/ 5-STF-5,08	1754827	50
FKCN 2,5/ 6-STF-5,08	1754830	50
FKCN 2,5/ 7-STF-5,08	1754843	50
FKCN 2,5/ 8-STF-5,08	1754856	50
FKCN 2,5/ 9-STF-5,08	1754869	50
FKCN 2,5/10-STF-5,08	1754872	50
FKCN 2,5/11-STF-5,08	1754885	50
FKCN 2,5/12-STF-5,08	1754898	50
FKCN 2,5/13-STF-5,08	1754908	50
FKCN 2,5/14-STF-5,08	1754911	50
FKCN 2,5/15-STF-5,08	1754924	50
FKCN 2,5/16-STF-5,08	1754937	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Plug with push-in spring connection



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

- Fast conductor connection, thanks to push-in spring connection
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors
- Versions with and without a screw flange
- You can find higher numbers of positions under: www.phoenixcontact.net/products

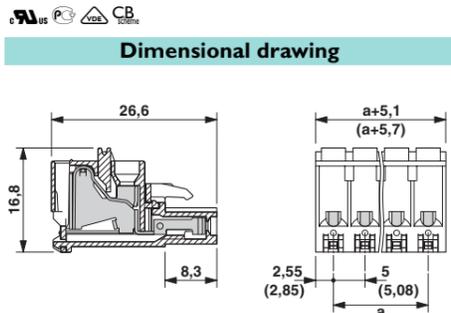
FKCVR 2,5/...-ST...

- Conductor entry on the coded side of the connector

FKCVW 2,5/...-ST...

- Conductor entry on the rippled side of the connector

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Keying profile CP-MSTB Order No. 1734634	38
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS	831

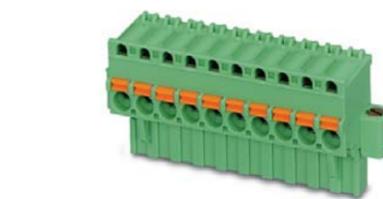


Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

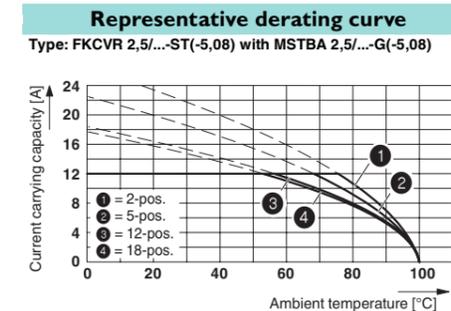
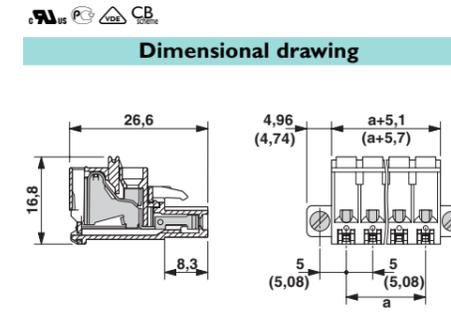
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKCVR 2,5/ 2-ST	1909715	50	
FKCVR 2,5/ 3-ST	1909728	50	
FKCVR 2,5/ 4-ST	1909731	50	
FKCVR 2,5/ 5-ST	1909744	50	
FKCVR 2,5/ 7-ST	1909760	50	
FKCVR 2,5/ 8-ST	1909773	50	
FKCVR 2,5/ 9-ST	1909786	50	
FKCVR 2,5/10-ST	1909799	50	
FKCVR 2,5/11-ST	1909809	50	
FKCVR 2,5/12-ST	1909812	50	
FKCVR 2,5/13-ST	1909825	50	
FKCVR 2,5/14-ST	1909838	50	
FKCVR 2,5/15-ST	1909841	50	
FKCVR 2,5/16-ST	1909854	50	
5.08 mm pitch, color: Green			
FKCVR 2,5/ 2-ST-5,08	1873951	50	
FKCVR 2,5/ 3-ST-5,08	1873964	50	
FKCVR 2,5/ 4-ST-5,08	1873977	50	
FKCVR 2,5/ 5-ST-5,08	1873980	50	
FKCVR 2,5/ 6-ST-5,08	1873993	50	
FKCVR 2,5/ 7-ST-5,08	1874002	50	
FKCVR 2,5/ 8-ST-5,08	1874015	50	
FKCVR 2,5/ 9-ST-5,08	1874028	50	
FKCVR 2,5/10-ST-5,08	1874031	50	
FKCVR 2,5/11-ST-5,08	1874044	50	
FKCVR 2,5/12-ST-5,08	1874057	50	
FKCVR 2,5/13-ST-5,08	1874060	50	
FKCVR 2,5/14-ST-5,08	1874073	50	
FKCVR 2,5/15-ST-5,08	1874086	50	
FKCVR 2,5/16-ST-5,08	1874099	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



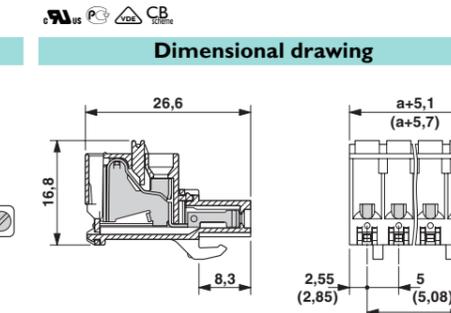
Conductor entry facing keyed side, with screw flange



Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKCVR 2,5/ 2-STF	1909883	50	
FKCVR 2,5/ 3-STF	1909896	50	
FKCVR 2,5/ 4-STF	1909906	50	
FKCVR 2,5/ 5-STF	1909919	50	
FKCVR 2,5/ 7-STF	1909935	50	
FKCVR 2,5/ 8-STF	1909948	50	
FKCVR 2,5/ 9-STF	1909951	50	
FKCVR 2,5/10-STF	1909964	50	
FKCVR 2,5/11-STF	1909977	50	
FKCVR 2,5/12-STF	1909980	50	
FKCVR 2,5/13-STF	1909993	50	
FKCVR 2,5/14-STF	1910005	50	
FKCVR 2,5/15-STF	1910018	50	
FKCVR 2,5/16-STF	1910021	50	
5.08 mm pitch, color: Green			
FKCVR 2,5/ 2-STF-5,08	1874109	50	
FKCVR 2,5/ 3-STF-5,08	1874112	50	
FKCVR 2,5/ 4-STF-5,08	1874125	50	
FKCVR 2,5/ 5-STF-5,08	1874138	50	
FKCVR 2,5/ 6-STF-5,08	1874141	50	
FKCVR 2,5/ 7-STF-5,08	1874154	50	
FKCVR 2,5/ 8-STF-5,08	1874167	50	
FKCVR 2,5/ 9-STF-5,08	1874170	50	
FKCVR 2,5/10-STF-5,08	1874183	50	
FKCVR 2,5/11-STF-5,08	1874196	50	
FKCVR 2,5/12-STF-5,08	1874206	50	
FKCVR 2,5/13-STF-5,08	1874219	50	
FKCVR 2,5/14-STF-5,08	1874222	50	
FKCVR 2,5/15-STF-5,08	1874235	50	
FKCVR 2,5/16-STF-5,08	1874248	50	



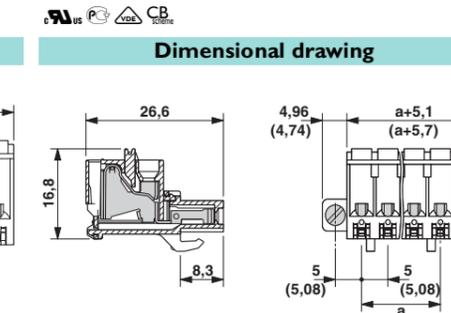
Conductor entry facing rippled side



Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKCVW 2,5/ 2-ST	1910034	50	
FKCVW 2,5/ 3-ST	1910047	50	
FKCVW 2,5/ 4-ST	1910050	50	
FKCVW 2,5/ 5-ST	1910063	50	
FKCVW 2,5/ 7-ST	1910089	50	
FKCVW 2,5/ 8-ST	1910092	50	
FKCVW 2,5/ 9-ST	1910102	50	
FKCVW 2,5/10-ST	1910115	50	
FKCVW 2,5/11-ST	1910128	50	
FKCVW 2,5/12-ST	1910131	50	
FKCVW 2,5/13-ST	1910144	50	
FKCVW 2,5/14-ST	1910157	50	
FKCVW 2,5/15-ST	1910160	50	
FKCVW 2,5/16-ST	1910173	50	
5.08 mm pitch, color: Green			
FKCVW 2,5/ 2-ST-5,08	1873650	50	
FKCVW 2,5/ 3-ST-5,08	1873663	50	
FKCVW 2,5/ 4-ST-5,08	1873676	50	
FKCVW 2,5/ 5-ST-5,08	1873689	50	
FKCVW 2,5/ 6-ST-5,08	1873692	50	
FKCVW 2,5/ 7-ST-5,08	1873702	50	
FKCVW 2,5/ 8-ST-5,08	1873715	50	
FKCVW 2,5/ 9-ST-5,08	1873728	50	
FKCVW 2,5/10-ST-5,08	1873731	50	
FKCVW 2,5/11-ST-5,08	1873744	50	
FKCVW 2,5/12-ST-5,08	1873757	50	
FKCVW 2,5/13-ST-5,08	1873760	50	
FKCVW 2,5/14-ST-5,08	1873773	50	
FKCVW 2,5/15-ST-5,08	1873786	50	
FKCVW 2,5/16-ST-5,08	1873799	50	



Conductor entry facing rippled side, with screw flange



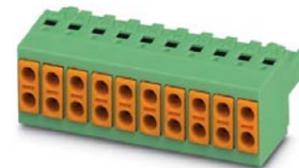
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKCVW 2,5/ 2-STF	1910209	50	
FKCVW 2,5/ 3-STF	1910212	50	
FKCVW 2,5/ 4-STF	1910225	50	
FKCVW 2,5/ 5-STF	1910238	50	
FKCVW 2,5/ 7-STF	1910254	50	
FKCVW 2,5/ 8-STF	1910267	50	
FKCVW 2,5/ 9-STF	1910270	50	
FKCVW 2,5/10-STF	1910283	50	
FKCVW 2,5/11-STF	1910296	50	
FKCVW 2,5/12-STF	1910306	50	
FKCVW 2,5/13-STF	1910319	50	
FKCVW 2,5/14-STF	1910322	50	
FKCVW 2,5/15-STF	1910335	50	
FKCVW 2,5/16-STF	1910348	50	
5.08 mm pitch, color: Green			
FKCVW 2,5/ 2-STF-5,08	1873809	50	
FKCVW 2,5/ 3-STF-5,08	1873812	50	
FKCVW 2,5/ 4-STF-5,08	1873825	50	
FKCVW 2,5/ 5-STF-5,08	1873838	50	
FKCVW 2,5/ 6-STF-5,08	1873841	50	
FKCVW 2,5/ 7-STF-5,08	1873854	50	
FKCVW 2,5/ 8-STF-5,08	1873867	50	
FKCVW 2,5/ 9-STF-5,08	1873870	50	
FKCVW 2,5/10-STF-5,08	1873883	50	
FKCVW 2,5/11-STF-5,08	1873896	50	
FKCVW 2,5/12-STF-5,08	1873906	50	
FKCVW 2,5/13-STF-5,08	1873919	50	
FKCVW 2,5/14-STF-5,08	1873922	50	
FKCVW 2,5/15-STF-5,08	1873935	50	
FKCVW 2,5/16-STF-5,08	1873948	50	

Plug with push-in spring connection

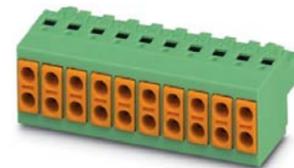


- Front TWIN connection for 1.5 mm²
- Additional actuation option of 90° in relation to the conductor axis
- For 90° actuation in relation to the conductor axis, the TVFKCL 1.5 extended design is required in the lower level of the ME housing

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 1) Please observe the derating curves. Derating curves of further combination options on request.

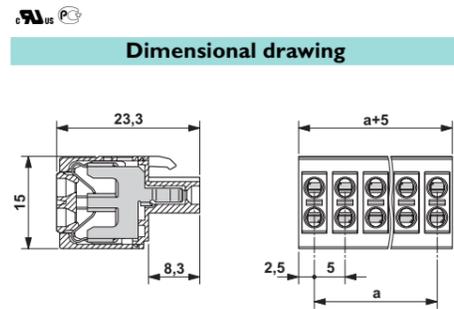


With double connection, short design

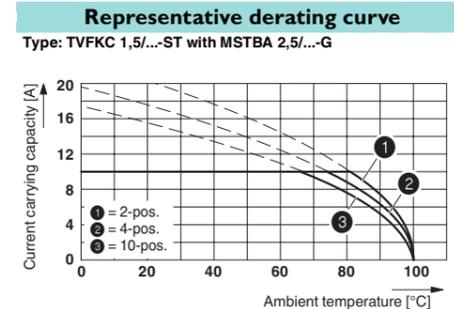
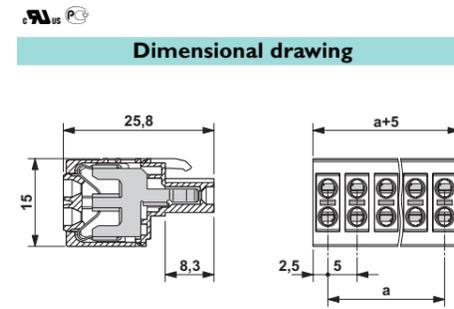


With double connection, long design

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Marker cards SK 5/3,8	798
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 1.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



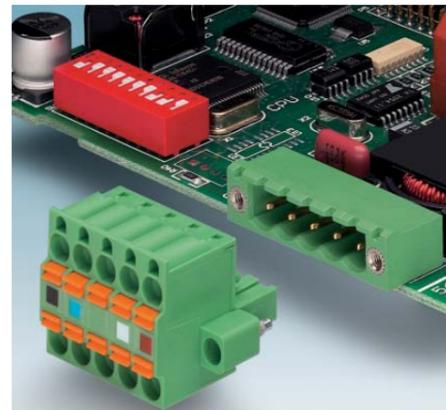
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	10 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	24 - 16 - 24 - 16
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	10 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	24 - 16 - 24 - 16
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data			
No. of pos.	Dim. a [mm]	Type	Order No. Pcs. / Pkt.
5.0 mm pitch, color: green			
2	5.00	TVFKC 1,5/ 2-ST	1713839 50
3	10.00	TVFKC 1,5/ 3-ST	1713842 50
4	15.00	TVFKC 1,5/ 4-ST	1713855 50
5	20.00	TVFKC 1,5/ 5-ST	1713868 50
6	25.00	TVFKC 1,5/ 6-ST	1713871 50
7	30.00	TVFKC 1,5/ 7-ST	1713884 50
8	35.00	TVFKC 1,5/ 8-ST	1713897 50
9	40.00	TVFKC 1,5/ 9-ST	1713907 50
10	45.00	TVFKC 1,5/10-ST	1713910 50

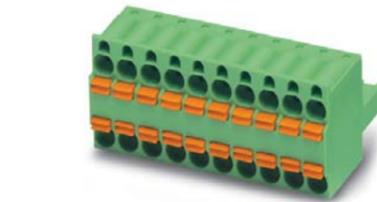
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
TVFKCL 1,5/ 2-ST	1715921	50	
TVFKCL 1,5/ 3-ST	1715934	50	
TVFKCL 1,5/ 4-ST	1715947	50	
TVFKCL 1,5/ 5-ST	1715950	50	
TVFKCL 1,5/ 6-ST	1715963	50	
TVFKCL 1,5/ 7-ST	1715976	50	
TVFKCL 1,5/ 8-ST	1715989	50	
TVFKCL 1,5/ 9-ST	1715992	50	
TVFKCL 1,5/10-ST	1716001	50	

Plug with push-in spring connection

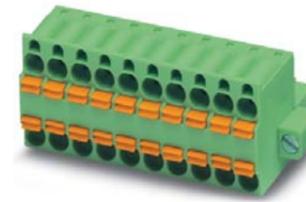


- Front TWIN connection for 2.5 mm²
- Integrated 2.3 mm Ø test connection
- DeviceNet-compliant design with a gold-plated contact system
- SK marking strips for DeviceNet color coding: SK 5,08/3,8 DN / order no. 1965458

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

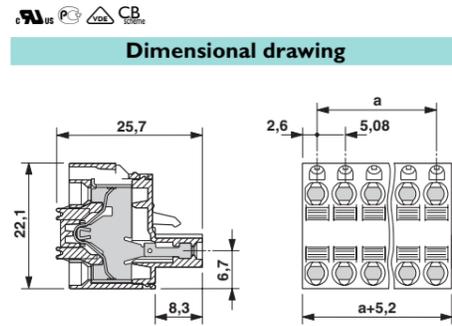


With double connection

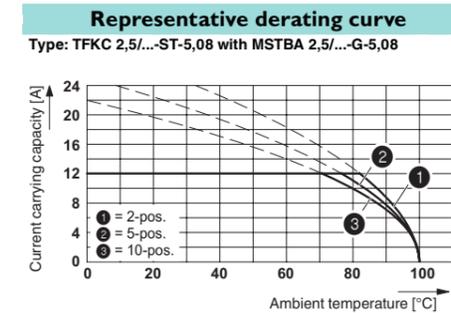
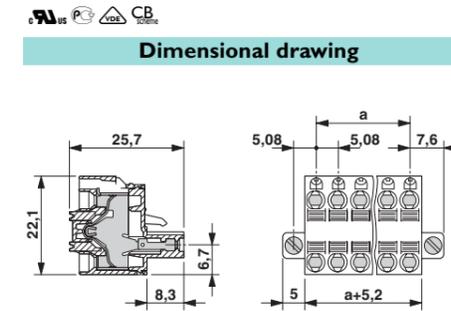


With double connection and screw flange

Accessories		
For all types	Type	Page
	Marking card, 4-color, for DeviceNet applications SK 5,08/3,8 DN Order No. 1965458	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Keying profile CP-MSTB Order No. 1734634	38
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS	831



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



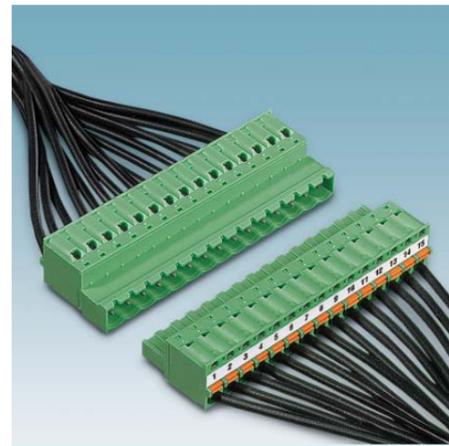
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5.08
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	320 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	26 - 12 - 26 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
5	20.32
7	30.48
8	35.56

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
TFKC 2,5/ 2-ST-5,08	1962600	50	
TFKC 2,5/ 3-ST-5,08	1962613	50	
TFKC 2,5/ 4-ST-5,08	1962626	50	
TFKC 2,5/ 5-ST-5,08	1962639	50	
TFKC 2,5/ 6-ST-5,08	1962642	50	
TFKC 2,5/ 7-ST-5,08	1962655	50	
TFKC 2,5/ 8-ST-5,08	1962668	50	
TFKC 2,5/ 9-ST-5,08	1962671	50	
TFKC 2,5/10-ST-5,08	1962684	50	
5.08 mm pitch, color: Green, contact system: Gold-plated			
TFKC 2,5/ 5-ST-5,08 AU	1965461	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
TFKC 2,5/ 2-STF-5,08	1962697	50	
TFKC 2,5/ 3-STF-5,08	1962707	50	
TFKC 2,5/ 4-STF-5,08	1962710	50	
TFKC 2,5/ 5-STF-5,08	1962723	50	
TFKC 2,5/ 6-STF-5,08	1962736	50	
TFKC 2,5/ 7-STF-5,08	1962749	50	
TFKC 2,5/ 8-STF-5,08	1962752	50	
TFKC 2,5/ 9-STF-5,08	1962765	50	
TFKC 2,5/10-STF-5,08	1962778	50	
5.08 mm pitch, color: Green, contact system: Gold-plated			
TFKC 2,5/ 5-STF-5,08 AU	1962590	50	
TFKC 2,5/ 7-STF-5,08 AU	1765748	50	
TFKC 2,5/ 8-STF-5,08 AU	1710272	50	

Inverted plugs with push-in spring connection



- Connectors with inverted contact system (male contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- Versions with and without a screw flange
- Versions with engagement noses for locking plugs with self-locking flanges
- SK 5/3,8 or SK 5,08/3,8 marker cards can be found on page 798

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The inverted contact system is explained on page 34.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

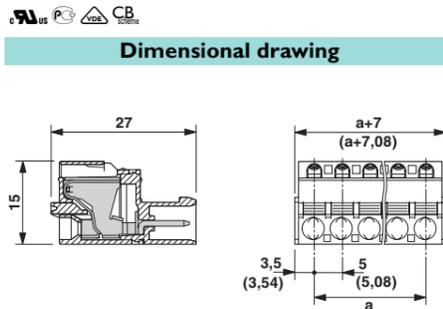
The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Strain relief STZ ...-FKC-5,08	837
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS	831



Inverted plug with push-in spring connection

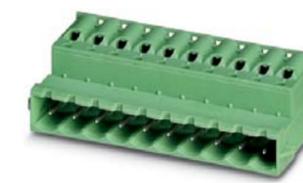
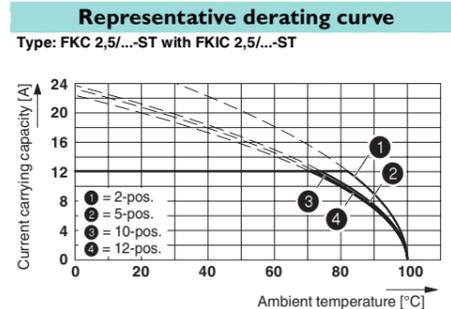
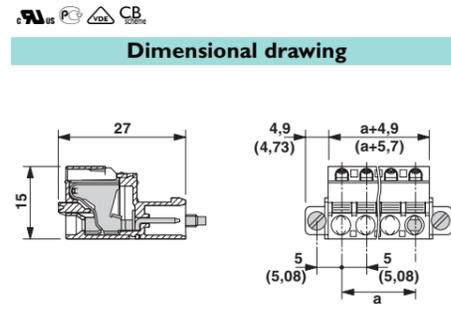


Note derating curves

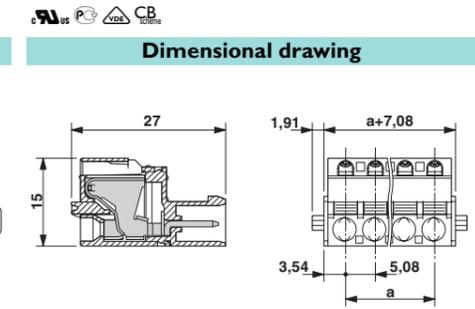
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



With screw flange, for screw connection using inverted headers



With engagement nose for snapping onto connectors with a self-locking flange



Ordering data

Type	Order No.	Pcs. / Pkt.
FKIC 2,5/ 2-ST	1910678	50
FKIC 2,5/ 3-ST	1910681	50
FKIC 2,5/ 4-ST	1910694	50
FKIC 2,5/ 5-ST	1910704	50
FKIC 2,5/ 6-ST	1910717	50
FKIC 2,5/ 7-ST	1910720	50
FKIC 2,5/ 8-ST	1910733	50
FKIC 2,5/ 9-ST	1910746	50
FKIC 2,5/10-ST	1910759	50
FKIC 2,5/11-ST	1910762	50
FKIC 2,5/12-ST	1910775	50
FKIC 2,5/13-ST	1910788	50
FKIC 2,5/14-ST	1910791	50
FKIC 2,5/15-ST	1910801	50
FKIC 2,5/16-ST	1910814	50

Technical data

Technical data in accordance to IEC / DIN VDE

Rated current / conductor cross section	[A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	[V]	320
Pitch	[mm]	5 / 5.08
Connection capacity	[mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Solid / stranded	[mm ²] / [mm ²] / AWG	0.25 - 2.5
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve	[mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]	- / -
Solid / stranded	[mm ²]	-
Stranded with ferrules without plastic sleeve	[mm ²]	-
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	0.5 - 1
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	320 320 630
Rated insulation voltage	[V]	4 4 4
Rated surge voltage	[kV]	B C D
Approval data (UL/CUL)	Use Group	B C D
Nominal voltage	[V]	300 - - 300
Nominal current	[A]	10 - - 10
Connection capacity AWG	AWG	26 - 12 - - 26 - 12
Approval data (CSA)	Use Group	B C D
Nominal voltage	[V]	- - -
Nominal current	[A]	- - -
Connection capacity AWG	AWG	- - -
General data		
Stripping length	[mm]	10
Type of insulation material / insulation material group		PA / I
Inflammability class according to UL 94		V0

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
2	5.00	FKIC 2,5/ 2-ST	1910678	50
3	10.00	FKIC 2,5/ 3-ST	1910681	50
4	15.00	FKIC 2,5/ 4-ST	1910694	50
5	20.00	FKIC 2,5/ 5-ST	1910704	50
6	25.00	FKIC 2,5/ 6-ST	1910717	50
7	30.00	FKIC 2,5/ 7-ST	1910720	50
8	35.00	FKIC 2,5/ 8-ST	1910733	50
9	40.00	FKIC 2,5/ 9-ST	1910746	50
10	45.00	FKIC 2,5/10-ST	1910759	50
11	50.00	FKIC 2,5/11-ST	1910762	50
12	55.00	FKIC 2,5/12-ST	1910775	50
13	60.00	FKIC 2,5/13-ST	1910788	50
14	65.00	FKIC 2,5/14-ST	1910791	50
15	70.00	FKIC 2,5/15-ST	1910801	50
16	75.00	FKIC 2,5/16-ST	1910814	50
2	5.08	FKIC 2,5/ 2-ST-5,08	1873359	50
3	10.16	FKIC 2,5/ 3-ST-5,08	1873362	50
4	15.24	FKIC 2,5/ 4-ST-5,08	1873375	50
5	20.32	FKIC 2,5/ 5-ST-5,08	1873388	50
6	25.40	FKIC 2,5/ 6-ST-5,08	1873391	50
7	30.48	FKIC 2,5/ 7-ST-5,08	1873401	50
8	35.56	FKIC 2,5/ 8-ST-5,08	1873414	50
9	40.64	FKIC 2,5/ 9-ST-5,08	1873427	50
10	45.72	FKIC 2,5/10-ST-5,08	1873430	50
11	50.80	FKIC 2,5/11-ST-5,08	1873443	50
12	55.88	FKIC 2,5/12-ST-5,08	1873456	50
13	60.96	FKIC 2,5/13-ST-5,08	1873469	50
14	66.04	FKIC 2,5/14-ST-5,08	1873472	50
15	71.12	FKIC 2,5/15-ST-5,08	1873485	50
16	76.20	FKIC 2,5/16-ST-5,08	1873498	50

Ordering data

Type	Order No.	Pcs. / Pkt.
FKIC 2,5/ 2-STF	1910827	50
FKIC 2,5/ 3-STF	1910830	50
FKIC 2,5/ 4-STF	1910843	50
FKIC 2,5/ 5-STF	1910856	50
FKIC 2,5/ 6-STF	1910869	50
FKIC 2,5/ 7-STF	1910872	50
FKIC 2,5/ 8-STF	1910885	50
FKIC 2,5/ 9-STF	1910898	50
FKIC 2,5/10-STF	1910908	50
FKIC 2,5/11-STF	1910911	50
FKIC 2,5/12-STF	1910924	50
FKIC 2,5/13-STF	1910937	50
FKIC 2,5/14-STF	1910940	50
FKIC 2,5/15-STF	1910953	50
FKIC 2,5/16-STF	1910966	50
FKIC 2,5/ 2-STF-5,08	1873508	50
FKIC 2,5/ 3-STF-5,08	1873511	50
FKIC 2,5/ 4-STF-5,08	1873524	50
FKIC 2,5/ 5-STF-5,08	1873537	50
FKIC 2,5/ 6-STF-5,08	1873540	50
FKIC 2,5/ 7-STF-5,08	1873553	50
FKIC 2,5/ 8-STF-5,08	1873566	50
FKIC 2,5/ 9-STF-5,08	1873579	50
FKIC 2,5/10-STF-5,08	1873582	50
FKIC 2,5/11-STF-5,08	1873595	50
FKIC 2,5/12-STF-5,08	1873608	50
FKIC 2,5/13-STF-5,08	1873618	50
FKIC 2,5/14-STF-5,08	1873621	50
FKIC 2,5/15-STF-5,08	1873634	50
FKIC 2,5/16-STF-5,08	1873647	50

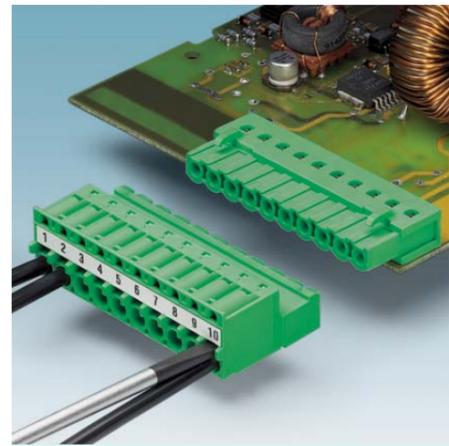
Ordering data

Type	Order No.	Pcs. / Pkt.
FKIC 2,5/ 2-ST-5,08-RN	1925867	50
FKIC 2,5/ 3-ST-5,08-RN	1925870	50
FKIC 2,5/ 4-ST-5,08-RN	1925883	50
FKIC 2,5/ 5-ST-5,08-RN	1925896	50
FKIC 2,5/ 6-ST-5,08-RN	1925906	50
FKIC 2,5/ 7-ST-5,08-RN	1925919	50
FKIC 2,5/ 8-ST-5,08-RN	1925922	50
FKIC 2,5/ 9-ST-5,08-RN	1925935	50
FKIC 2,5/10-ST-5,08-RN	1925948	50
FKIC 2,5/11-ST-5,08-RN	1925951	50
FKIC 2,5/12-ST-5,08-RN	1925964	50
FKIC 2,5/13-ST-5,08-RN	1925977	50
FKIC 2,5/14-ST-5,08-RN	1925980	50
FKIC 2,5/15-ST-5,08-RN	1925993	50
FKIC 2,5/16-ST-5,08-RN	1926002	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Inverted plugs with push-in spring connection



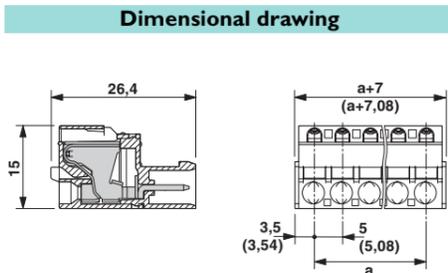
- Connectors with inverted contact system (male contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- With actuation shaft for screwdriver, user-friendly "two-hand operation"
- Versions with and without a screw flange
- SK 5/3,8 or SK 5,08/3,8 marker cards can be found on page 798

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The inverted contact system is explained on page 34.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Strain relief STZ ...-FKC-5,08	837
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS	831



Inverted plug with push-in spring connection, with screwdriver actuation shaft, and test connection



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKICS 2,5/ 2-ST	1981445	50	
FKICS 2,5/ 3-ST	1981458	50	
FKICS 2,5/ 4-ST	1981461	50	
FKICS 2,5/ 5-ST	1981474	50	
FKICS 2,5/ 6-ST	1981487	50	
FKICS 2,5/ 7-ST	1981490	50	
FKICS 2,5/ 8-ST	1981500	50	
FKICS 2,5/ 9-ST	1981513	50	
FKICS 2,5/10-ST	1981526	50	
FKICS 2,5/11-ST	1981539	50	
FKICS 2,5/12-ST	1981542	50	
FKICS 2,5/13-ST	1981555	50	
FKICS 2,5/14-ST	1981568	50	
FKICS 2,5/15-ST	1981571	50	
FKICS 2,5/16-ST	1981584	50	
5.08 mm pitch, color: Green			
FKICS 2,5/ 2-ST-5,08	1981746	50	
FKICS 2,5/ 3-ST-5,08	1981759	50	
FKICS 2,5/ 4-ST-5,08	1981762	50	
FKICS 2,5/ 5-ST-5,08	1981775	50	
FKICS 2,5/ 6-ST-5,08	1981788	50	
FKICS 2,5/ 7-ST-5,08	1981791	50	
FKICS 2,5/ 8-ST-5,08	1981801	50	
FKICS 2,5/ 9-ST-5,08	1981814	50	
FKICS 2,5/10-ST-5,08	1981827	50	
FKICS 2,5/11-ST-5,08	1981830	50	
FKICS 2,5/12-ST-5,08	1981843	50	
FKICS 2,5/13-ST-5,08	1981856	50	
FKICS 2,5/14-ST-5,08	1981869	50	
FKICS 2,5/15-ST-5,08	1981872	50	
FKICS 2,5/16-ST-5,08	1981885	50	

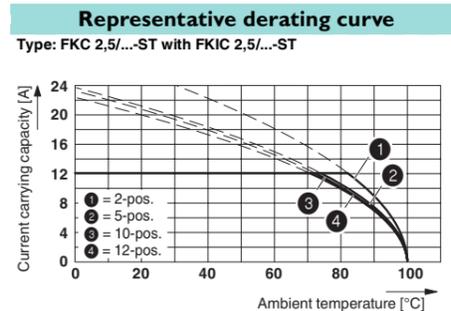
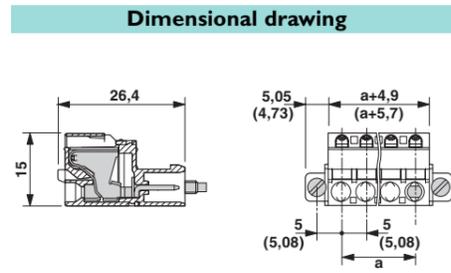
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Connection capacity [mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Solid / stranded [mm²]	0.25 - 2.5
Stranded with ferrules without plastic sleeve [mm²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm²]	- / -
Solid / stranded [mm²]	-
Stranded with ferrules without plastic sleeve [mm²]	-
Stranded with TWIN ferrule with plastic sleeve [mm²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	320 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	26 - 12 - 26 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



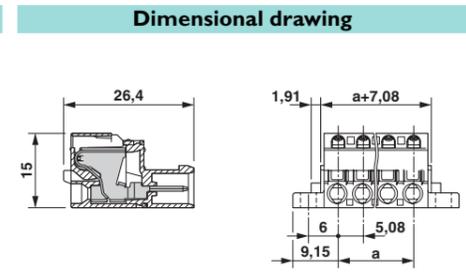
With screw flange, for screw connection using inverted headers



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKICS 2,5/ 2-STF	1981597	50
FKICS 2,5/ 3-STF	1981607	50
FKICS 2,5/ 4-STF	1981610	50
FKICS 2,5/ 5-STF	1981623	50
FKICS 2,5/ 6-STF	1981636	50
FKICS 2,5/ 7-STF	1981649	50
FKICS 2,5/ 8-STF	1981652	50
FKICS 2,5/ 9-STF	1981665	50
FKICS 2,5/10-STF	1981678	50
FKICS 2,5/11-STF	1981681	50
FKICS 2,5/12-STF	1981694	50
FKICS 2,5/13-STF	1981704	50
FKICS 2,5/14-STF	1981717	50
FKICS 2,5/15-STF	1981720	50
FKICS 2,5/16-STF	1981733	50
5.08 mm pitch, color: Green		
FKICS 2,5/ 2-STF-5,08	1981898	50
FKICS 2,5/ 3-STF-5,08	1981908	50
FKICS 2,5/ 4-STF-5,08	1981911	50
FKICS 2,5/ 5-STF-5,08	1981924	50
FKICS 2,5/ 6-STF-5,08	1981937	50
FKICS 2,5/ 7-STF-5,08	1981940	50
FKICS 2,5/ 8-STF-5,08	1981953	50
FKICS 2,5/ 9-STF-5,08	1981966	50
FKICS 2,5/10-STF-5,08	1981979	50
FKICS 2,5/11-STF-5,08	1981982	50
FKICS 2,5/12-STF-5,08	1981995	50
FKICS 2,5/13-STF-5,08	1982004	50
FKICS 2,5/14-STF-5,08	1982017	50
FKICS 2,5/15-STF-5,08	1982020	50
FKICS 2,5/16-STF-5,08	1982033	50



Inverted connector with Push-in spring connection, engagement noses and flanges for direct fixing

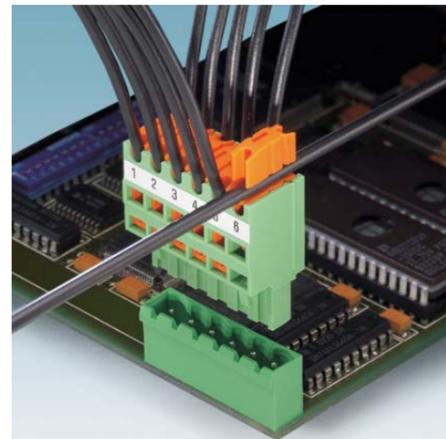


Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKICS 2,5/ 2-STD-5,08-RN	1808721	50
FKICS 2,5/ 3-STD-5,08-RN	1808734	50
FKICS 2,5/ 4-STD-5,08-RN	1808747	50
FKICS 2,5/ 5-STD-5,08-RN	1808750	50
FKICS 2,5/ 6-STD-5,08-RN	1808763	50
FKICS 2,5/ 7-STD-5,08-RN	1808776	50
FKICS 2,5/ 8-STD-5,08-RN	1808789	50
FKICS 2,5/ 9-STD-5,08-RN	1808792	50
FKICS 2,5/10-STD-5,08-RN	1808802	50
FKICS 2,5/11-STD-5,08-RN	1808815	50
FKICS 2,5/12-STD-5,08-RN	1808828	50
FKICS 2,5/13-STD-5,08-RN	1808831	50
FKICS 2,5/14-STD-5,08-RN	1808844	50
FKICS 2,5/15-STD-5,08-RN	1808857	50
FKICS 2,5/16-STD-5,08-RN	1808860	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Plug with displacement connection



Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

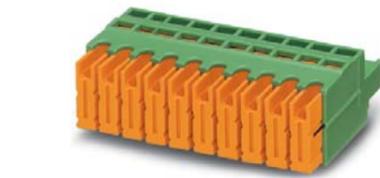
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

- Reduced wiring time since pretreatment of the conductor is no longer necessary
- For stranded conductors with PVC or PE insulation
- Connection as per EN 60352-4
- Integrated 1.2 mm Ø test connection
- Bus plug version
- Higher numbers of positions up to 18-pos. can be found at: www.phoenixcontact.net/products
- User notes and recommendations for the insulation displacement technology can be found on page 22

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Marker cards SK 5,08/3,8	798



Plug with displacement connection

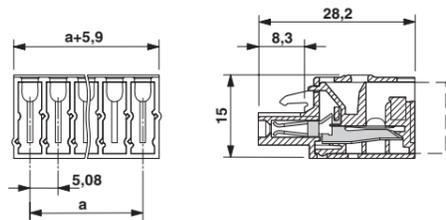


With screw flange



BUS connector for the looping through of conductors

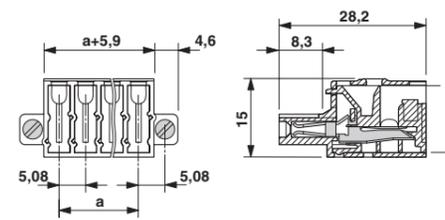
Dimensional drawing



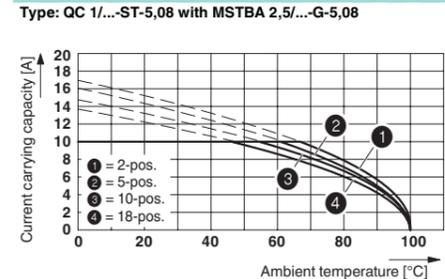
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1 mm²
Reduction factor = 0.8
Number of positions = see diagram

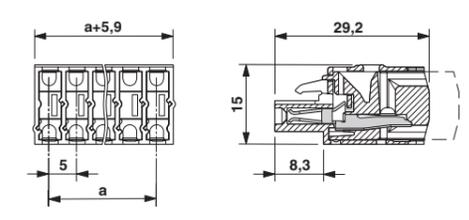
Dimensional drawing



Representative derating curve



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	10 ¹) / 1
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	5.08 / 5
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	- / 0.5 - 1 / 20 - 18
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	22 - 18 - 22 - 18
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
QC 1/ 2-ST-5,08	1883255	50
QC 1/ 3-ST-5,08	1883268	50
QC 1/ 4-ST-5,08	1883271	50
QC 1/ 5-ST-5,08	1883284	50
QC 1/ 6-ST-5,08	1883297	50
QC 1/ 7-ST-5,08	1883307	50
QC 1/ 8-ST-5,08	1883310	50
QC 1/ 9-ST-5,08	1883323	50
QC 1/10-ST-5,08	1883336	50
QC 1/11-ST-5,08	1883349	50
QC 1/12-ST-5,08	1883705	50
QC 1/13-ST-5,08	1883815	50
QC 1/14-ST-5,08	1883828	50
QC 1/15-ST-5,08	1883831	50
QC 1/16-ST-5,08	1883844	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
QC 1/ 2-STF-5,08	1883352	50
QC 1/ 3-STF-5,08	1883365	50
QC 1/ 4-STF-5,08	1883378	50
QC 1/ 5-STF-5,08	1883381	50
QC 1/ 6-STF-5,08	1883394	50
QC 1/ 7-STF-5,08	1883404	50
QC 1/ 8-STF-5,08	1883417	50
QC 1/ 9-STF-5,08	1883420	50
QC 1/10-STF-5,08	1883433	50
QC 1/11-STF-5,08	1883446	50
QC 1/12-STF-5,08	1883459	50
QC 1/13-STF-5,08	1883857	50
QC 1/14-STF-5,08	1883860	50
QC 1/15-STF-5,08	1883886	50
QC 1/16-STF-5,08	1883899	50

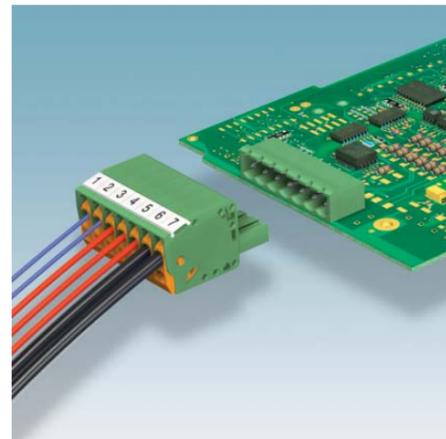
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
QC 1/ 2-ST-BUS	1921670	50
QC 1/ 3-ST-BUS	1921683	50
QC 1/ 4-ST-BUS	1921696	50
QC 1/ 5-ST-BUS	1921706	50
QC 1/ 6-ST-BUS	1921719	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
QC 1/ 2-ST-BUS	1921670	50
QC 1/ 3-ST-BUS	1921683	50
QC 1/ 4-ST-BUS	1921696	50
QC 1/ 5-ST-BUS	1921706	50
QC 1/ 6-ST-BUS	1921719	50

Plug with displacement connection



- Easy operation through IDC displacement connection
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange
- This connection method is suitable for cables with PVC and PE insulation
- User notes and recommendations for the insulation displacement technology can be found on page 22

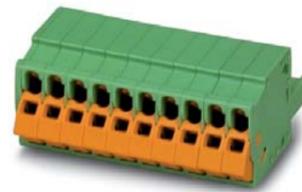
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

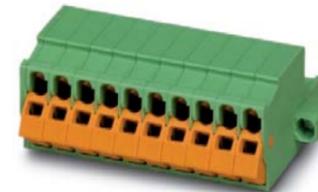
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

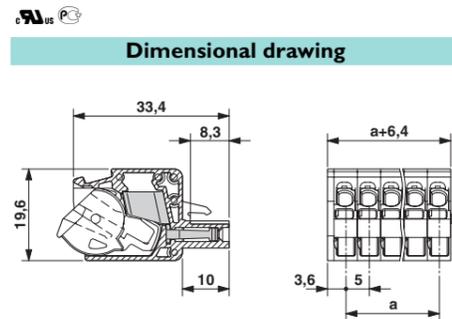


With displacement connection



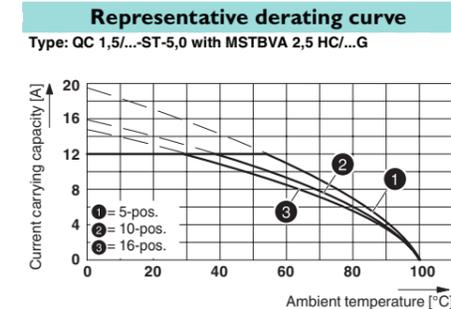
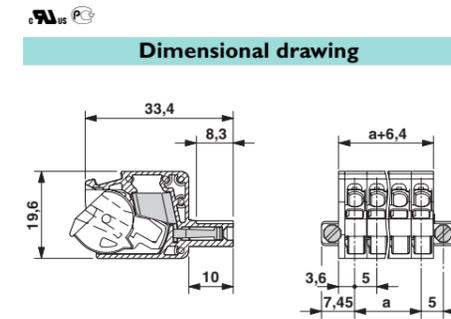
With screw flange

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5/3,8	798
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Zack marker strip, flat ZBF 5/...	806



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = AWG 16
Reduction factor = 0.8
Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Solid / stranded [mm ²]	-
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	-
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	24 - 16 24 - 16 24 - 16
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
QC 1,5/ 2-ST	1717961	50	
QC 1,5/ 3-ST	1717974	50	
QC 1,5/ 4-ST	1717987	50	
QC 1,5/ 5-ST	1717990	50	
QC 1,5/ 6-ST	1718009	50	
QC 1,5/ 7-ST	1718012	50	
QC 1,5/ 8-ST	1718025	50	
QC 1,5/ 9-ST	1718038	50	
QC 1,5/10-ST	1718041	50	
QC 1,5/11-ST	1718054	50	
QC 1,5/12-ST	1718067	50	
QC 1,5/13-ST	1718070	50	
QC 1,5/14-ST	1718083	50	
QC 1,5/15-ST	1718096	50	
QC 1,5/16-ST	1718106	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
QC 1,5/ 2-STF	1718119	50	
QC 1,5/ 3-STF	1718122	50	
QC 1,5/ 4-STF	1718135	50	
QC 1,5/ 5-STF	1718148	50	
QC 1,5/ 6-STF	1718151	50	
QC 1,5/ 7-STF	1718164	50	
QC 1,5/ 8-STF	1718177	50	
QC 1,5/ 9-STF	1718180	50	
QC 1,5/10-STF	1718193	50	
QC 1,5/11-STF	1718203	50	
QC 1,5/12-STF	1718216	50	
QC 1,5/13-STF	1718229	50	
QC 1,5/14-STF	1718232	50	
QC 1,5/15-STF	1718245	50	
QC 1,5/16-STF	1718258	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Connectors with crimp connection



- Flat design of the MSTBC 2,5 connector range
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange or a self-locking flange
- Versions with and without a snap-lock option for pullout aid
- Compatible with MSTB 2,5 headers, IC 2,5 and ICC 2,5 connectors

MSTBC-MT 0,5-1,0

- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of up to 10 A

MSTBC-MT 1,5-2,5

- for conductor cross sections of 1.5 to 2.5 mm² (AWG 16-14) and currents of up to 12 A

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Larger numbers of positions up to 24-pos. and additional technical information can be found at www.phoenixcontact.com

The maximum torque for the screw flange is 0.3 Nm.

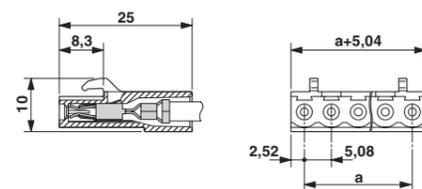
¹⁾ Please observe the derating curves. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/3,8	798
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Module female contact MSTBC-MT...	827
	Crimping pliers for 0.5 to 2.5 mm ² CRIMPFOX MT 2,5 Order No. 1204038	
Only for MSTBC 2,5/...STZ...		
	Pullout aid STZ...MSTBC-5,08	828



Dimensional drawing

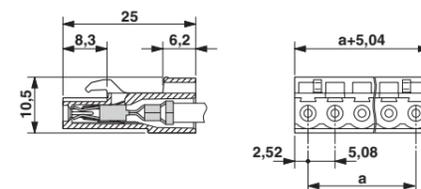


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

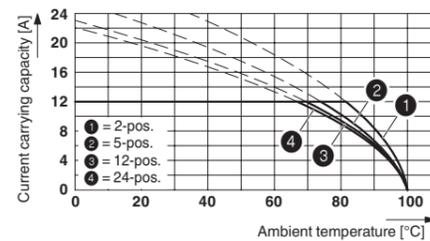


Dimensional drawing



Representative derating curve

Type: MSTBC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08; contact: MSTBC-MT 1,5 - 2,5



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBC 2,5/ 2-STZ-5,08	1809501	50
MSTBC 2,5/ 3-STZ-5,08	1809514	50
MSTBC 2,5/ 4-STZ-5,08	1809527	50
MSTBC 2,5/ 5-STZ-5,08	1809530	50
MSTBC 2,5/ 6-STZ-5,08	1809543	50
MSTBC 2,5/ 7-STZ-5,08	1809556	50
MSTBC 2,5/ 8-STZ-5,08	1809569	50
MSTBC 2,5/ 9-STZ-5,08	1809572	50
MSTBC 2,5/10-STZ-5,08	1809585	50
MSTBC 2,5/11-STZ-5,08	1809598	50
MSTBC 2,5/12-STZ-5,08	1809608	50
MSTBC 2,5/13-STZ-5,08	1809611	50
MSTBC 2,5/14-STZ-5,08	1809624	50
MSTBC 2,5/15-STZ-5,08	1809637	50
MSTBC 2,5/16-STZ-5,08	1809640	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



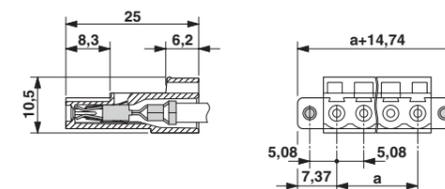
With screw flange and snap-lock option for pull-out aid



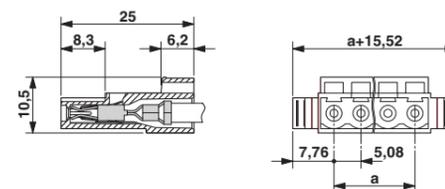
With self-locking flange and snap-lock option for pull-out aid



Dimensional drawing



Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBC 2,5/ 2-STZF-5,08	1809734	50
MSTBC 2,5/ 3-STZF-5,08	1809747	50
MSTBC 2,5/ 4-STZF-5,08	1809750	50
MSTBC 2,5/ 5-STZF-5,08	1809763	50
MSTBC 2,5/ 6-STZF-5,08	1809776	50
MSTBC 2,5/ 7-STZF-5,08	1809789	50
MSTBC 2,5/ 8-STZF-5,08	1809792	50
MSTBC 2,5/ 9-STZF-5,08	1809802	50
MSTBC 2,5/10-STZF-5,08	1809815	50
MSTBC 2,5/11-STZF-5,08	1809828	50
MSTBC 2,5/12-STZF-5,08	1809831	50
MSTBC 2,5/13-STZF-5,08	1809844	50
MSTBC 2,5/14-STZF-5,08	1809857	50
MSTBC 2,5/15-STZF-5,08	1809860	50
MSTBC 2,5/16-STZF-5,08	1809873	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBC 2,5/ 2-STZ-5,08-R	1809048	50
MSTBC 2,5/ 3-STZ-5,08-R	1809051	50
MSTBC 2,5/ 4-STZ-5,08-R	1809064	50
MSTBC 2,5/ 5-STZ-5,08-R	1809077	50
MSTBC 2,5/ 6-STZ-5,08-R	1809080	50
MSTBC 2,5/ 7-STZ-5,08-R	1809093	50
MSTBC 2,5/ 8-STZ-5,08-R	1809103	50
MSTBC 2,5/ 9-STZ-5,08-R	1809116	50
MSTBC 2,5/10-STZ-5,08-R	1809129	50
MSTBC 2,5/11-STZ-5,08-R	1809132	50
MSTBC 2,5/12-STZ-5,08-R	1809145	50
MSTBC 2,5/13-STZ-5,08-R	1809158	50
MSTBC 2,5/14-STZ-5,08-R	1809161	50
MSTBC 2,5/15-STZ-5,08-R	1809174	50
MSTBC 2,5/16-STZ-5,08-R	1809187	50

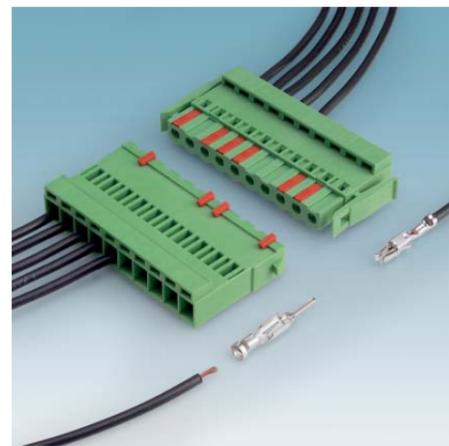
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[kV]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

12 ¹⁾ / 2.5
320
5.08
- / 0.5 - 2.5 / 20 - 14
- / -
III / 3 III / 2 II / 2
320 320 630
4 4 4
B C D
250 - 300
10 - 10
20 - 14 - 20 - 14
B C D
- - -
- - -
- - -
PA / I
V0

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green				
2	5.08	MSTBC 2,5/ 2-ST-5,08	1808816	50
3	10.16	MSTBC 2,5/ 3-ST-5,08	1808829	50
4	15.24	MSTBC 2,5/ 4-ST-5,08	1808832	50
5	20.32	MSTBC 2,5/ 5-ST-5,08	1808845	50
6	25.40	MSTBC 2,5/ 6-ST-5,08	1808858	50
7	30.48	MSTBC 2,5/ 7-ST-5,08	1808861	50
8	35.56	MSTBC 2,5/ 8-ST-5,08	1808874	50
9	40.64	MSTBC 2,5/ 9-ST-5,08	1808887	50
10	45.72	MSTBC 2,5/10-ST-5,08	1808890	50
11	50.80	MSTBC 2,5/11-ST-5,08	1808900	50
12	55.88	MSTBC 2,5/12-ST-5,08	1808913	50
13	60.96	MSTBC 2,5/13-ST-5,08	1808926	50
14	66.04	MSTBC 2,5/14-ST-5,08	1808939	50
15	71.12	MSTBC 2,5/15-ST-5,08	1808942	50
16	76.20	MSTBC 2,5/16-ST-5,08	1808955	50

Inverted connectors with a crimp connection



- Connectors with inverted contact system (male contact)
- With snap-lock option for pullout aid
- ICC 2,5/...-STZ-5,08 with engagement noses for MSTBC 2,5/...-ST-... and for snapping on with MSTBC 2,5/...-STZ-5,08-R
- ICC 2,5/...-STZF-5,08 are, among other things, compatible with the IC 2,5/...-GF-5,08 inverted base strips

ICC-MT 0,5-1,0

- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of up to 10 A

ICC-MT 1,5-2,5

- for conductor cross sections of 1.5 to 2.5 mm² (AWG 16-14) and currents of up to 12 A

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 Larger numbers of positions up to 24-pos. and additional technical information can be found at www.phoenixcontact.com
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

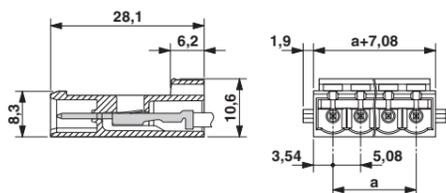
Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Marker cards SK 5,08/3,8	798
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Module male contact ICC-MT...	827
	Crimping pliers for 0.5 to 2.5 mm ² CRIMPFOX MT 2,5 Order No. 1204038	
	Pullout aid STZ...MSTBC-5,08	828



Featuring engagement noses for locking with connectors with a self-locking flange

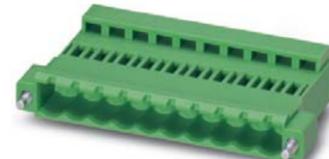


Dimensional drawing



Note derating curves

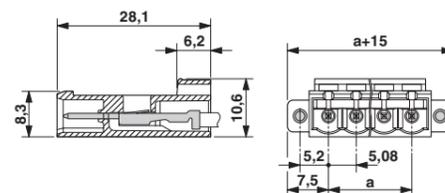
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



With screw flange, for screw connection using inverted headers

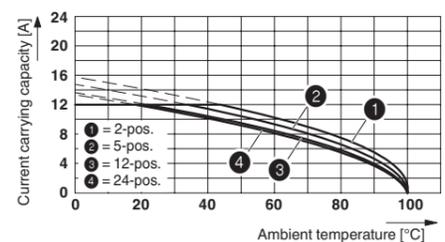


Dimensional drawing



Representative derating curve

Type: ICC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Rated current / conductor cross section	[A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	[V]	320
Pitch	[mm]	5.08
Connection capacity		
Solid / stranded	[mm ²] / [mm ²] / AWG	- / 0.5 - 2.5 / 20 - 14
Stranded with ferrules without plastic sleeve	[mm ²]	-
Stranded with ferrules with plastic sleeve	[mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid / stranded	[mm ²]	- / -
Stranded with ferrules without plastic sleeve	[mm ²]	-
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	-
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	
Rated insulation voltage	[V]	250 320 630
Rated surge voltage	[kV]	4 4 4
Approval data (UL/CUL)	Use Group	B C D
Nominal voltage	[V]	250 - 300
Nominal current	[A]	10 - 10
Connection capacity AWG	AWG	20 - 14 - 20 - 14
Approval data (CSA)	Use Group	B C D
Nominal voltage	[V]	- - -
Nominal current	[A]	- - -
Connection capacity AWG	AWG	- - -
General data		
Type of insulation material / insulation material group		PA / I
Inflammability class according to UL 94		V0

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICC 2,5/ 2-STZ-5,08	1823846	50
ICC 2,5/ 3-STZ-5,08	1823859	50
ICC 2,5/ 4-STZ-5,08	1823862	50
ICC 2,5/ 5-STZ-5,08	1823875	50
ICC 2,5/ 6-STZ-5,08	1823888	50
ICC 2,5/ 7-STZ-5,08	1823891	50
ICC 2,5/ 8-STZ-5,08	1823901	50
ICC 2,5/ 9-STZ-5,08	1823914	50
ICC 2,5/10-STZ-5,08	1823927	50
ICC 2,5/11-STZ-5,08	1823930	50
ICC 2,5/12-STZ-5,08	1823943	50
ICC 2,5/13-STZ-5,08	1823956	50
ICC 2,5/14-STZ-5,08	1823969	50
ICC 2,5/15-STZ-5,08	1823972	50
ICC 2,5/16-STZ-5,08	1823985	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICC 2,5/ 2-STZF-5,08	1823383	50
ICC 2,5/ 3-STZF-5,08	1823396	50
ICC 2,5/ 4-STZF-5,08	1823406	50
ICC 2,5/ 5-STZF-5,08	1823419	50
ICC 2,5/ 6-STZF-5,08	1823422	50
ICC 2,5/ 7-STZF-5,08	1823435	50
ICC 2,5/ 8-STZF-5,08	1823448	50
ICC 2,5/ 9-STZF-5,08	1823451	50
ICC 2,5/10-STZF-5,08	1823464	50
ICC 2,5/11-STZF-5,08	1823477	50
ICC 2,5/12-STZF-5,08	1823480	50
ICC 2,5/13-STZF-5,08	1823493	50
ICC 2,5/14-STZF-5,08	1823503	50
ICC 2,5/15-STZF-5,08	1823516	50
ICC 2,5/16-STZF-5,08	1823529	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

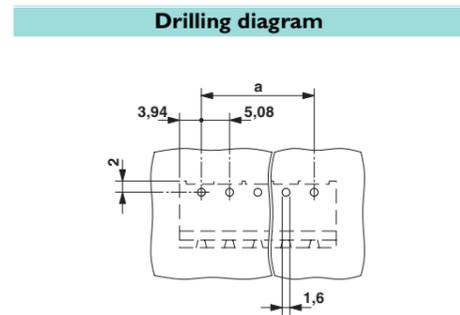
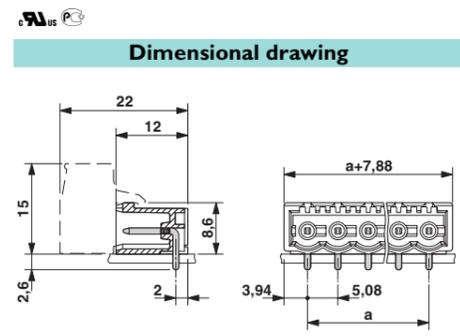
Single-level header for reflow processes

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.
 Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FK 2,5 HC plugs



- Application in SMT reflow processes
- Delivery form: Box packaging; bulk for small series
- 2.6 mm standard pin length, other pin lengths available on request
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with a lock & release mechanism and threaded flange can either be used with connectors with lock & release or with a screw flange
- You can find user notes and recommendations for THR procedure on page 27

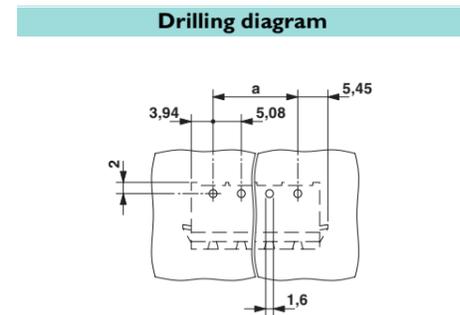
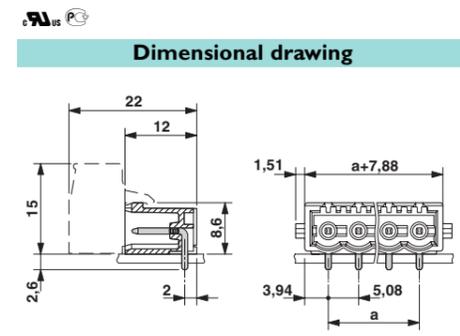
Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying section CR-MSTB NAT HT Order No. 1954362	38
	Marker cards SK 5,08/3,8	798



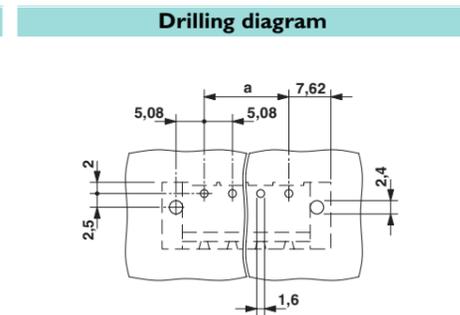
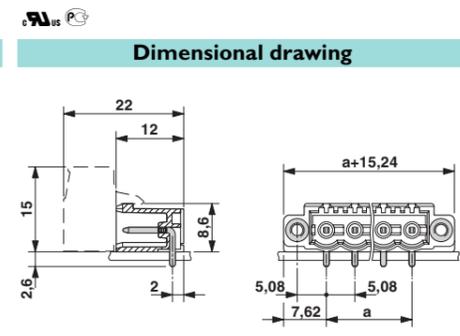
With side panels, plug-in direction parallel to the PCB



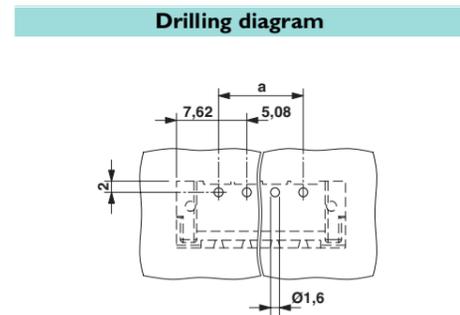
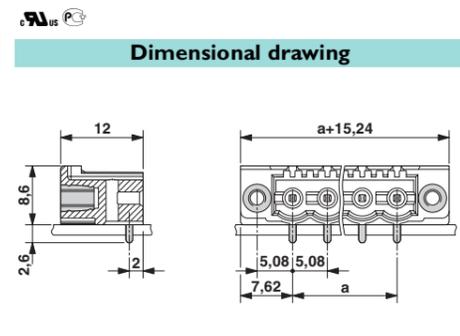
With engagement noses, plug-in direction parallel to the PCB



With threaded flange, plug-in direction parallel to the PCB



With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.6 / 1 x 1 mm

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CCA 2,5/ 2-G-5,08 P26THR	1954919	50	
CCA 2,5/ 3-G-5,08 P26THR	1954922	50	
CCA 2,5/ 4-G-5,08 P26THR	1954935	50	
CCA 2,5/ 5-G-5,08 P26THR	1954948	50	
CCA 2,5/ 6-G-5,08 P26THR	1954951	50	
CCA 2,5/ 7-G-5,08 P26THR	1954977	50	
CCA 2,5/ 8-G-5,08 P26THR	1954980	50	
CCA 2,5/ 9-G-5,08 P26THR	1954993	50	
CCA 2,5/10-G-5,08 P26THR	1955002	50	
CCA 2,5/11-G-5,08 P26THR	1955015	50	
CCA 2,5/12-G-5,08 P26THR	1955028	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CCA 2,5/ 2-G-5,08 RNP26THR	1955167	50	
CCA 2,5/ 3-G-5,08 RNP26THR	1955170	50	
CCA 2,5/ 4-G-5,08 RNP26THR	1955183	50	
CCA 2,5/ 5-G-5,08 RNP26THR	1955196	50	
CCA 2,5/ 6-G-5,08 RNP26THR	1955206	50	
CCA 2,5/ 7-G-5,08 RNP26THR	1955219	50	
CCA 2,5/ 8-G-5,08 RNP26THR	1955222	50	
CCA 2,5/ 9-G-5,08 RNP26THR	1955235	50	
CCA 2,5/10-G-5,08 RNP26THR	1955248	50	
CCA 2,5/11-G-5,08 RNP26THR	1955251	50	
CCA 2,5/12-G-5,08 RNP26THR	1955264	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CC 2,5/ 2-GF-5,08 P26THR	1954692	50	
CC 2,5/ 3-GF-5,08 P26THR	1954702	50	
CC 2,5/ 4-GF-5,08 P26THR	1954715	50	
CC 2,5/ 5-GF-5,08 P26THR	1954728	50	
CC 2,5/ 6-GF-5,08 P26THR	1954731	50	
CC 2,5/ 7-GF-5,08 P26THR	1954744	50	
CC 2,5/ 8-GF-5,08 P26THR	1954757	50	
CC 2,5/ 9-GF-5,08 P26THR	1954760	50	
CC 2,5/10-GF-5,08 P26THR	1954773	50	
CC 2,5/11-GF-5,08 P26THR	1954786	50	
CC 2,5/12-GF-5,08 P26THR	1954799	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CC 2,5/ 2-GF-5,08-LR P26THR	1792627	50	
CC 2,5/ 3-GF-5,08-LR P26THR	1792630	50	
CC 2,5/ 4-GF-5,08-LR P26THR	1792643	50	
CC 2,5/ 5-GF-5,08-LR P26THR	1792656	50	
CC 2,5/ 6-GF-5,08-LR P26THR	1792669	50	
CC 2,5/ 7-GF-5,08-LR P26THR	1792672	50	
CC 2,5/ 8-GF-5,08-LR P26THR	1792685	50	
CC 2,5/ 9-GF-5,08-LR P26THR	1792698	50	
CC 2,5/10-GF-5,08-LR P26THR	1792708	50	
CC 2,5/11-GF-5,08-LR P26THR	1792711	50	
CC 2,5/12-GF-5,08-LR P26THR	1792724	50	

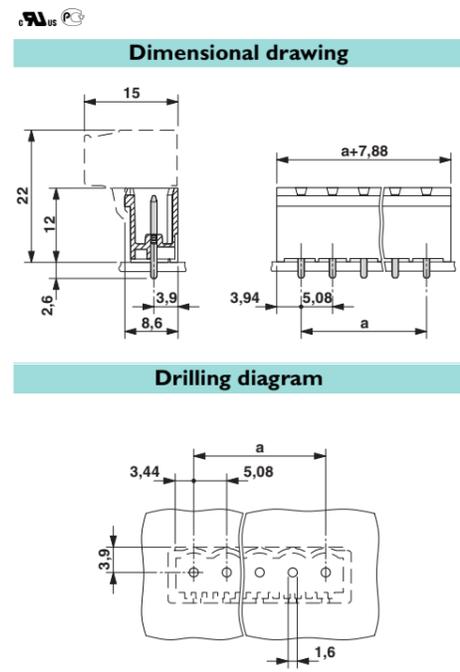
Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Single-level header for reflow processes

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.
 Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FK 2,5 HC plugs

Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying section CR-MSTB NAT HT Order No. 1954362	38
	Marker cards SK 5,08/3,8	798



Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08 P26THR	1955853	50
CCVA 2,5/ 3-G-5,08 P26THR	1955866	50
CCVA 2,5/ 4-G-5,08 P26THR	1955879	50
CCVA 2,5/ 5-G-5,08 P26THR	1955882	50
CCVA 2,5/ 6-G-5,08 P26THR	1955895	50
CCVA 2,5/ 7-G-5,08 P26THR	1955905	50
CCVA 2,5/ 8-G-5,08 P26THR	1955918	50
CCVA 2,5/ 9-G-5,08 P26THR	1955921	50
CCVA 2,5/10-G-5,08 P26THR	1955934	50
CCVA 2,5/11-G-5,08 P26THR	1955947	50
CCVA 2,5/12-G-5,08 P26THR	1955950	50

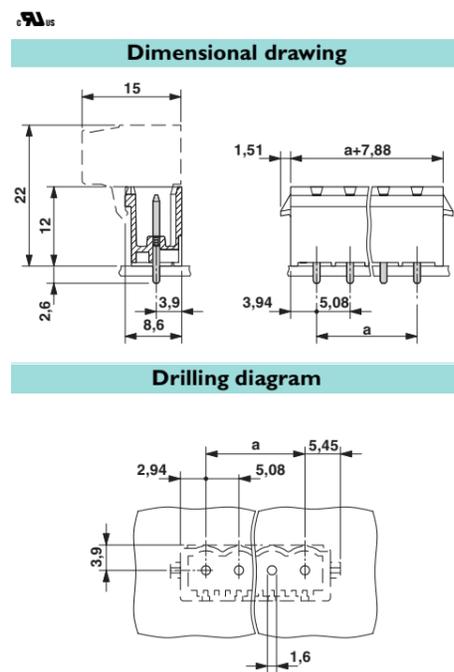
- Application in SMT reflow processes
- Delivery form: Box packaging; bulk for small series
- 2.6 mm standard pin length, other pin lengths available on request
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with a lock & release mechanism and threaded flange can either be used with connectors with lock & release or with a screw flange
- You can find user notes and recommendations for THR procedure on page 27

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	12
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 400
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.6 / 1 x 1 mm

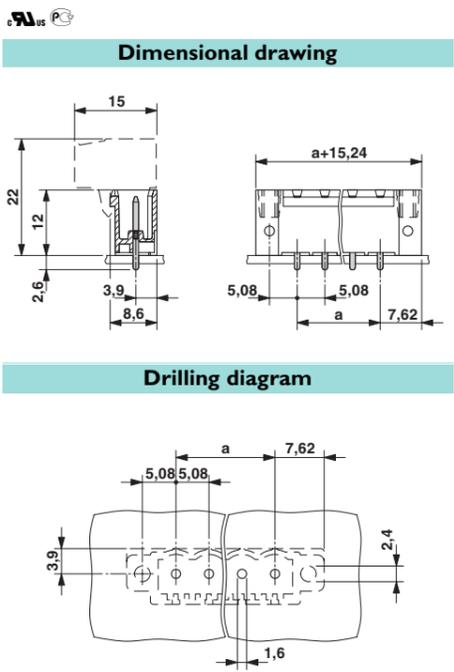
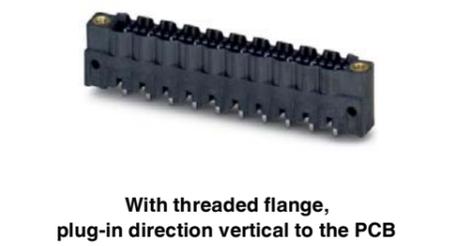
Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



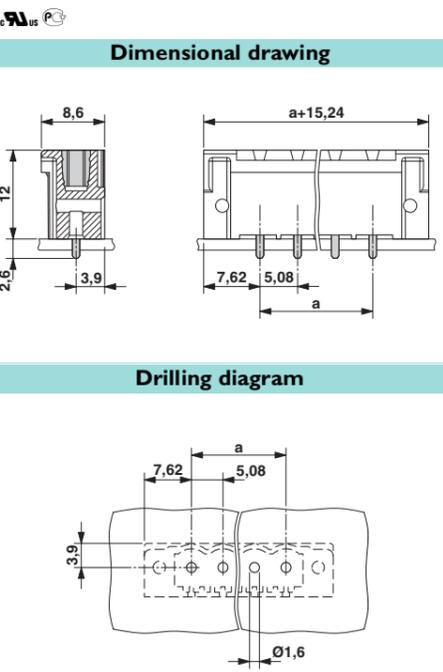
Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08 RNP26THR	1956085	50
CCVA 2,5/ 3-G-5,08 RNP26THR	1956098	50
CCVA 2,5/ 4-G-5,08 RNP26THR	1956108	50
CCVA 2,5/ 5-G-5,08 RNP26THR	1956111	50
CCVA 2,5/ 6-G-5,08 RNP26THR	1956124	50
CCVA 2,5/ 7-G-5,08 RNP26THR	1956137	50
CCVA 2,5/ 8-G-5,08 RNP26THR	1956140	50
CCVA 2,5/ 9-G-5,08 RNP26THR	1956153	50
CCVA 2,5/10-G-5,08 RNP26THR	1956166	50
CCVA 2,5/11-G-5,08 RNP26THR	1956179	50
CCVA 2,5/12-G-5,08 RNP26THR	1956182	50



Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCV 2,5/ 2-GF-5,08 P26THR	1955633	50
CCV 2,5/ 3-GF-5,08 P26THR	1955646	50
CCV 2,5/ 4-GF-5,08 P26THR	1955659	50
CCV 2,5/ 5-GF-5,08 P26THR	1955662	50
CCV 2,5/ 6-GF-5,08 P26THR	1955675	50
CCV 2,5/ 7-GF-5,08 P26THR	1955688	50
CCV 2,5/ 8-GF-5,08 P26THR	1955691	50
CCV 2,5/ 9-GF-5,08 P26THR	1955701	50
CCV 2,5/10-GF-5,08 P26THR	1955714	50
CCV 2,5/11-GF-5,08 P26THR	1955727	50
CCV 2,5/12-GF-5,08 P26THR	1955730	50



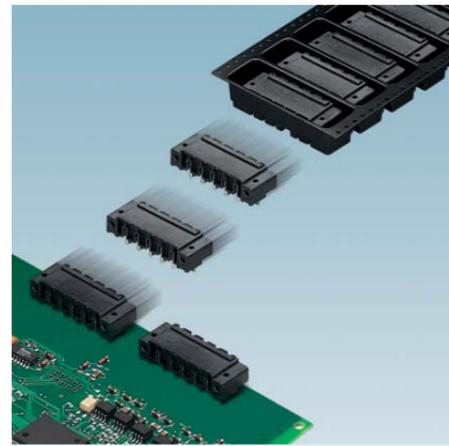
Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCV 2,5/ 2-GF-5,08-LR P26THR	1792737	50
CCV 2,5/ 3-GF-5,08-LR P26THR	1792740	50
CCV 2,5/ 4-GF-5,08-LR P26THR	1792753	50
CCV 2,5/ 5-GF-5,08-LR P26THR	1792766	50
CCV 2,5/ 6-GF-5,08-LR P26THR	1792779	50
CCV 2,5/ 7-GF-5,08-LR P26THR	1792782	50
CCV 2,5/ 8-GF-5,08-LR P26THR	1792795	50
CCV 2,5/ 9-GF-5,08-LR P26THR	1792805	50
CCV 2,5/10-GF-5,08-LR P26THR	1792818	50
CCV 2,5/11-GF-5,08-LR P26THR	1792821	50
CCV 2,5/12-GF-5,08-LR P26THR	1792834	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Single-level header for reflow processes



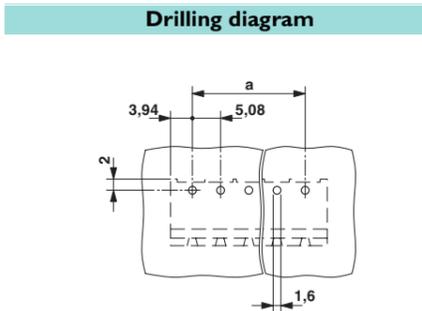
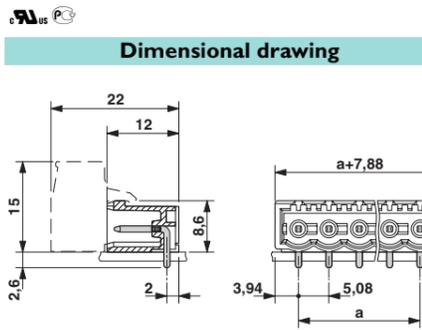
- Application in SMT reflow processes
- Delivery form: taped packaging in accordance with IEC 60286-3 for automatic assembly; coil diameter 330 mm; design width of the tape adjusted as per the corresponding number of positions of the product
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- 2.6 mm standard pin length, other pin lengths available on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.
 Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs

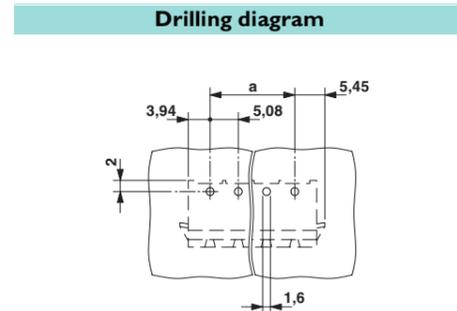
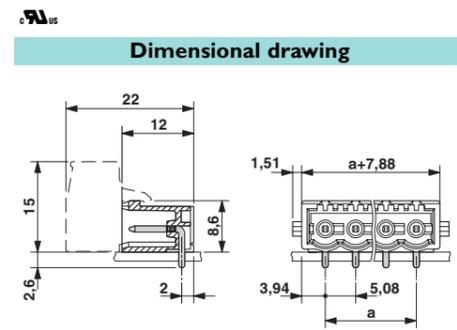
Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying section CR-MSTB NAT HT Order No. 1954362	38
	Marker cards SK 5,08/3,8	798



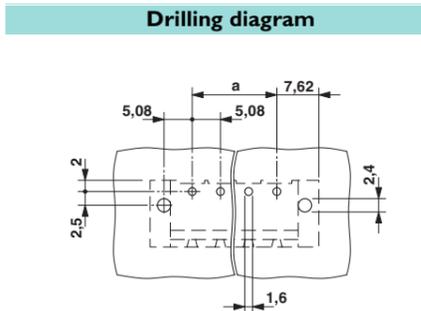
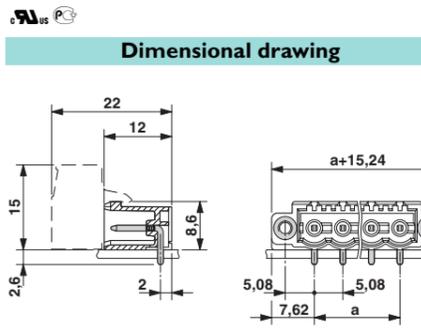
Taped headers with side panels, plug-in direction parallel to the PCB



Taped headers with engagement noses, plug-in direction parallel to the PCB



Taped headers with threaded flange, plug-in direction parallel to the PCB



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CCA 2,5/ 2-G-5,08 P26THRR32	1955031	330	
CCA 2,5/ 3-G-5,08 P26THRR32	1955044	330	
CCA 2,5/ 4-G-5,08 P26THRR56	1955057	330	
CCA 2,5/ 5-G-5,08 P26THRR56	1955060	330	
CCA 2,5/ 6-G-5,08 P26THRR56	1955073	330	
CCA 2,5/ 7-G-5,08 P26THRR56	1955086	330	
CCA 2,5/ 8-G-5,08 P26THRR56	1955099	330	
CCA 2,5/ 9-G-5,08 P26THRR88	1955109	240	
CCA 2,5/10-G-5,08 P26THRR88	1955112	240	
CCA 2,5/11-G-5,08 P26THRR88	1955125	240	
CCA 2,5/12-G-5,08 P26THRR88	1955138	240	

Ordering data		
Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCA 2,5/ 2-G-5,08 RNP26THRR32	1955277	330
CCA 2,5/ 3-G-5,08 RNP26THRR32	1955280	330
CCA 2,5/ 4-G-5,08 RNP26THRR56	1955293	330
CCA 2,5/ 5-G-5,08 RNP26THRR56	1955303	330
CCA 2,5/ 6-G-5,08 RNP26THRR56	1955316	330
CCA 2,5/ 7-G-5,08 RNP26THRR56	1955329	330
CCA 2,5/ 8-G-5,08 RNP26THRR88	1955332	240
CCA 2,5/ 9-G-5,08 RNP26THRR88	1955345	240
CCA 2,5/10-G-5,08 RNP26THRR88	1955358	240
CCA 2,5/11-G-5,08 RNP26THRR88	1955361	240
CCA 2,5/12-G-5,08 RNP26THRR88	1955374	240

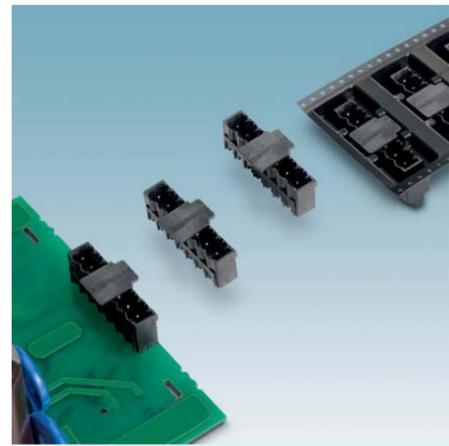
Ordering data		
Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CC 2,5/ 2-GF-5,08 P26THRR32	1954809	330
CC 2,5/ 3-GF-5,08 P26THRR56	1954812	330
CC 2,5/ 4-GF-5,08 P26THRR56	1954825	330
CC 2,5/ 5-GF-5,08 P26THRR56	1954838	330
CC 2,5/ 6-GF-5,08 P26THRR56	1954841	330
CC 2,5/ 7-GF-5,08 P26THRR88	1954854	240
CC 2,5/ 8-GF-5,08 P26THRR88	1954867	240
CC 2,5/ 9-GF-5,08 P26THRR88	1954870	240
CC 2,5/10-GF-5,08 P26THRR88	1954883	240
CC 2,5/11-GF-5,08 P26THRR88	1954896	240
CC 2,5/12-GF-5,08 P26THRR88	1954906	240

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.6 / 1 x 1 mm

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Single-level header for reflow processes



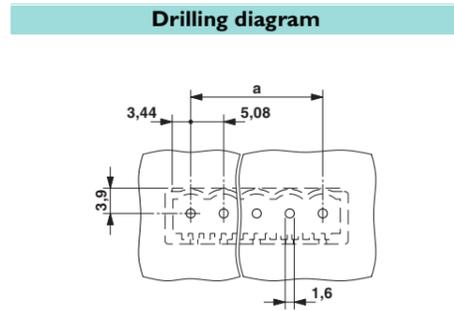
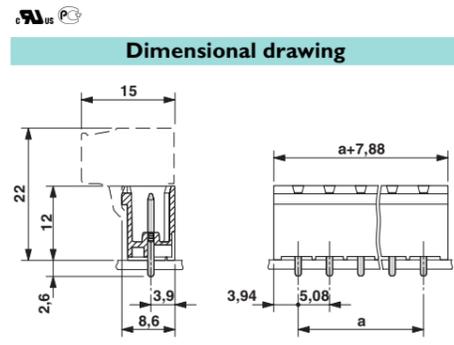
- Application in SMT reflow processes
- Delivery form: taped packaging in accordance with IEC 60286-3 for automatic assembly; coil diameter 330 mm; design width of the tape adjusted as per the corresponding number of positions of the product
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- 2.6 mm standard pin length, other pin lengths available on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.
 Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs.

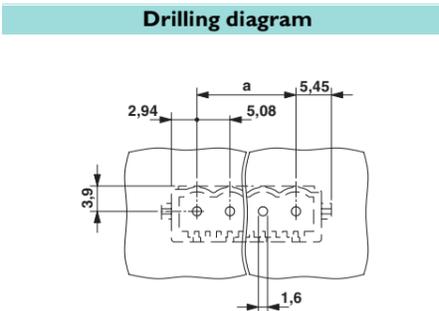
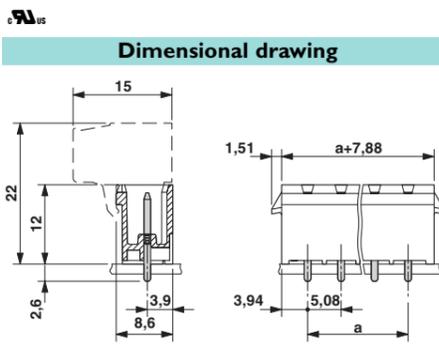
Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying section CR-MSTB NAT HT Order No. 1954362	38
	Marker cards SK 5,08/3,8	798



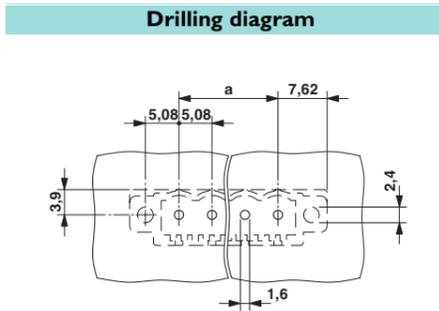
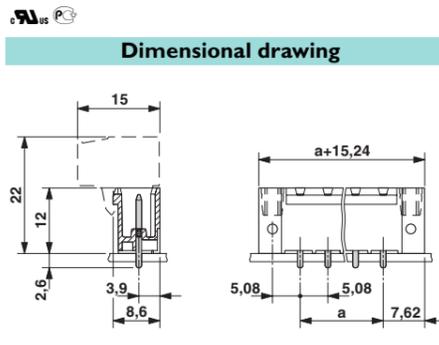
Taped headers with side panels, plug-in direction vertical to the PCB



Taped headers with engagement noses, plug-in direction vertical to the PCB



Taped headers with threaded flange, plug-in direction vertical to the PCB



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.6 / 1 x 1 mm

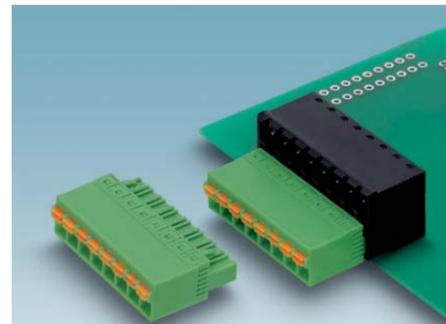
No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CCVA 2,5/ 2-G-5,08 P26THRR32	1955963	140	
CCVA 2,5/ 3-G-5,08 P26THRR32	1955976	140	
CCVA 2,5/ 4-G-5,08 P26THRR56	1955989	140	
CCVA 2,5/ 5-G-5,08 P26THRR56	1955992	140	
CCVA 2,5/ 6-G-5,08 P26THRR56	1956001	140	
CCVA 2,5/ 7-G-5,08 P26THRR56	1956014	140	
CCVA 2,5/ 8-G-5,08 P26THRR56	1956027	140	
CCVA 2,5/ 9-G-5,08 P26THRR88	1956030	140	
CCVA 2,5/10-G-5,08 P26THRR88	1956043	140	
CCVA 2,5/11-G-5,08 P26THRR88	1956056	140	
CCVA 2,5/12-G-5,08 P26THRR88	1956069	140	

Ordering data		
Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08RNP26THRR32	1956195	140
CCVA 2,5/ 3-G-5,08RNP26THRR32	1956205	140
CCVA 2,5/ 4-G-5,08RNP26THRR56	1956218	140
CCVA 2,5/ 5-G-5,08RNP26THRR56	1956221	140
CCVA 2,5/ 6-G-5,08RNP26THRR56	1956234	140
CCVA 2,5/ 7-G-5,08RNP26THRR56	1956247	140
CCVA 2,5/ 8-G-5,08RNP26THRR88	1956250	140
CCVA 2,5/ 9-G-5,08RNP26THRR88	1956263	140
CCVA 2,5/10-G-5,08RNP26THRR88	1956276	140
CCVA 2,5/11-G-5,08RNP26THRR88	1956289	140
CCVA 2,5/12-G-5,08RNP26THRR88	1956292	140

Ordering data		
Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCV 2,5/ 2-GF-5,08 P26THRR32	1955743	140
CCV 2,5/ 3-GF-5,08 P26THRR56	1955756	140
CCV 2,5/ 4-GF-5,08 P26THRR56	1955769	140
CCV 2,5/ 5-GF-5,08 P26THRR56	1955772	140
CCV 2,5/ 6-GF-5,08 P26THRR56	1955785	140
CCV 2,5/ 7-GF-5,08 P26THRR88	1955798	140
CCV 2,5/ 8-GF-5,08 P26THRR88	1955808	140
CCV 2,5/ 9-GF-5,08 P26THRR88	1955811	140
CCV 2,5/10-GF-5,08 P26THRR88	1955824	140
CCV 2,5/11-GF-5,08 P26THRR88	1955837	140
CCV 2,5/12-GF-5,08 P26THRR88	1955840	140

Double-level header for reflow processes



- Application in SMT reflow processes
- Double-level base strip without offset levels
- Less space requirements on the PCB
- Plug-in direction parallel to the PCB
- Versions with and without a threaded flange
- Can be combined particularly with the FKCN 2,5 compact spring-cage plug component
- 2.6 mm standard pin length
- Higher numbers of positions up to 18-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

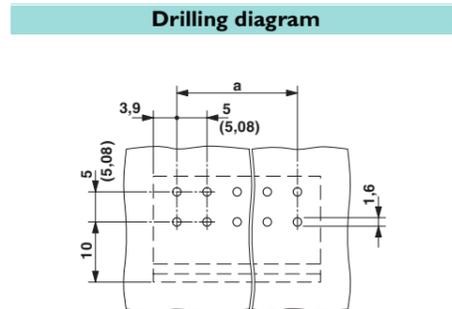
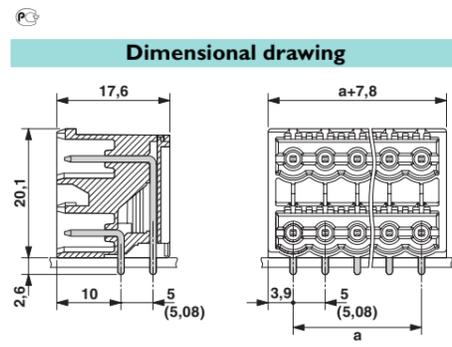
Application notes and suggestions for the THR process can be found on page 27.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

1) UL/CUL on request.

Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying section CR-MSTB NAT HT Order No. 1954362	38
	Marker cards SK 5/3,8 or SK 5,08/3,8	798

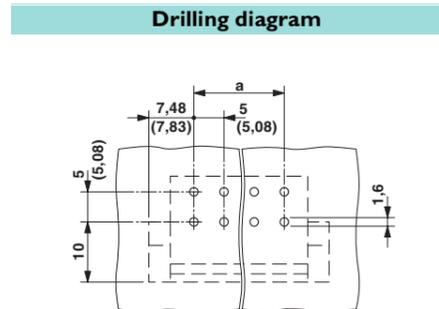
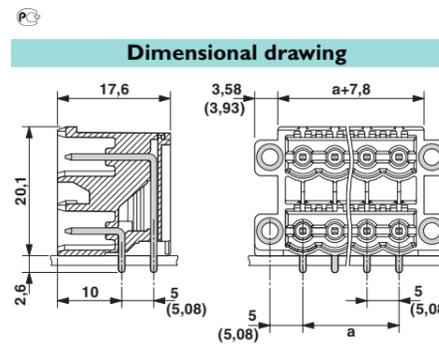
Double-level header, plug-in direction parallel to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
CCDN 2,5/ 2-G1 P26 THR	1734280	50
CCDN 2,5/ 3-G1 P26 THR	1734287	50
CCDN 2,5/ 4-G1 P26 THR	1734290	50
CCDN 2,5/ 5-G1 P26 THR	1734300	50
CCDN 2,5/ 6-G1 P26 THR	1734313	50
CCDN 2,5/ 7-G1 P26 THR	1734326	50
CCDN 2,5/ 8-G1 P26 THR	1734339	50
CCDN 2,5/ 9-G1 P26 THR	1734342	50
CCDN 2,5/10-G1 P26 THR	1734355	50
CCDN 2,5/11-G1 P26 THR	1734368	50
CCDN 2,5/12-G1 P26 THR	1734371	50
CCDN 2,5/13-G1 P26 THR	1734384	50
CCDN 2,5/14-G1 P26 THR	1734397	50
CCDN 2,5/15-G1 P26 THR	1734407	50
CCDN 2,5/16-G1 P26 THR	1734410	50
Headers, 5.08 mm pitch, color: Black		
CCDN 2,5/ 2-G1-5,08 P26 THR	1753132	50
CCDN 2,5/ 3-G1-5,08 P26 THR	1753145	50
CCDN 2,5/ 4-G1-5,08 P26 THR	1753158	50
CCDN 2,5/ 5-G1-5,08 P26 THR	1753161	50
CCDN 2,5/ 6-G1-5,08 P26 THR	1753174	50
CCDN 2,5/ 7-G1-5,08 P26 THR	1753187	50
CCDN 2,5/ 8-G1-5,08 P26 THR	1753190	50
CCDN 2,5/ 9-G1-5,08 P26 THR	1753200	50
CCDN 2,5/10-G1-5,08 P26 THR	1753213	50
CCDN 2,5/11-G1-5,08 P26 THR	1753226	50
CCDN 2,5/12-G1-5,08 P26 THR	1753239	50
CCDN 2,5/13-G1-5,08 P26 THR	1753242	50
CCDN 2,5/14-G1-5,08 P26 THR	1753255	50
CCDN 2,5/15-G1-5,08 P26 THR	1753268	50
CCDN 2,5/16-G1-5,08 P26 THR	1753271	50



Double-level header, with threaded flange, plug-in direction parallel to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
CCDN 2,5/ 2-G1F P26 THR	1734449	50
CCDN 2,5/ 3-G1F P26 THR	1734452	50
CCDN 2,5/ 4-G1F P26 THR	1734465	50
CCDN 2,5/ 5-G1F P26 THR	1734478	50
CCDN 2,5/ 6-G1F P26 THR	1734481	50
CCDN 2,5/ 7-G1F P26 THR	1734494	50
CCDN 2,5/ 8-G1F P26 THR	1734504	50
CCDN 2,5/ 9-G1F P26 THR	1734517	50
CCDN 2,5/10-G1F P26 THR	1734520	50
CCDN 2,5/11-G1F P26 THR	1734533	50
CCDN 2,5/12-G1F P26 THR	1734546	50
CCDN 2,5/13-G1F P26 THR	1734559	50
CCDN 2,5/14-G1F P26 THR	1734562	50
CCDN 2,5/15-G1F P26 THR	1734575	50
CCDN 2,5/16-G1F P26 THR	1734588	50
Headers, 5.08 mm pitch, color: Black		
CCDN 2,5/ 2-G1F-5,08 P26 THR	1753307	50
CCDN 2,5/ 3-G1F-5,08 P26 THR	1753310	50
CCDN 2,5/ 4-G1F-5,08 P26 THR	1753323	50
CCDN 2,5/ 5-G1F-5,08 P26 THR	1753336	50
CCDN 2,5/ 6-G1F-5,08 P26 THR	1753349	50
CCDN 2,5/ 7-G1F-5,08 P26 THR	1753352	50
CCDN 2,5/ 8-G1F-5,08 P26 THR	1753365	50
CCDN 2,5/ 9-G1F-5,08 P26 THR	1753378	50
CCDN 2,5/10-G1F-5,08 P26 THR	1753381	50
CCDN 2,5/11-G1F-5,08 P26 THR	1753394	50
CCDN 2,5/12-G1F-5,08 P26 THR	1753404	50
CCDN 2,5/13-G1F-5,08 P26 THR	1753417	50
CCDN 2,5/14-G1F-5,08 P26 THR	1753420	50
CCDN 2,5/15-G1F-5,08 P26 THR	1753433	50
CCDN 2,5/16-G1F-5,08 P26 THR	1753446	50

Orthogonal header for reflow processes



- Orthogonal headers for the through-hole reflow process
- Made of highly temperature-resistant polyamide for use in lead-free solder processes
- Integrated suction surface for Pick and Place
- Standard form of delivery: taped, loose as an option
- For ME/ME MAX electronic housing
- Plug-in direction orthogonal to the PCB
- 2-, 3- and 4-pos.
- Pitch 5 mm
- Connection cross section of up to 2.5 mm²

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Accessories

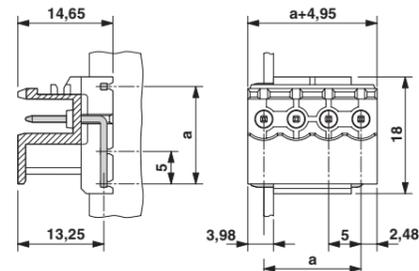
For all types	Type	Page
	Keying section CR-MSTB NAT HT Order No. 1954362	38



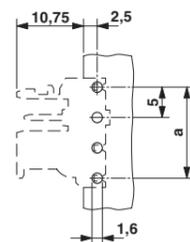
Pin strip leading off at a right angle "left"



Dimensional drawing



Drilling diagram



Ordering data

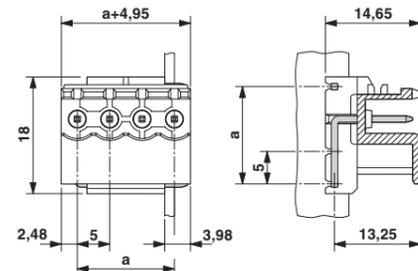
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MSTBO 2,5/ 2-G1L THRR32 BK	2200251	230
MSTBO 2,5/ 3 G1L THRR44 BK	2915216	170
MSTBO 2,5/ 4-G1L THRR44 BK	2697194	100



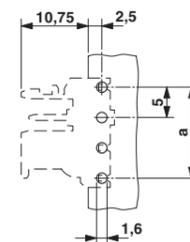
Pin strip leading off at a right angle "right"



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MSTBO 2,5/ 2-G1R THRR32 BK	2200252	230
MSTBO 2,5/ 3 G1R THRR44 BK	2915229	170
MSTBO 2,5/ 4-G1R THRR44 BK	2697204	100

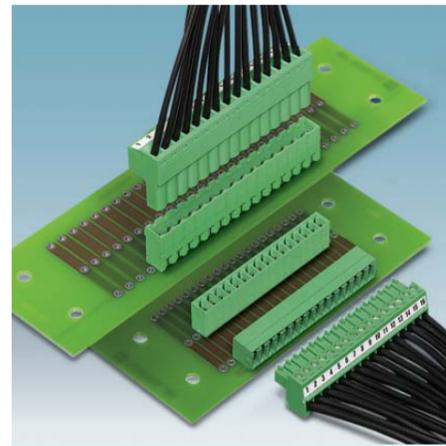
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	16
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 400
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	12 - 10
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1,6 / 1 x 1

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Single-level header for press-in technology



- Pin strips with flexible press-in zone ERNI-PRESS
- Processing as per EN 60352-5
- Press-in tools available on request
- Versions with and without a threaded flange
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

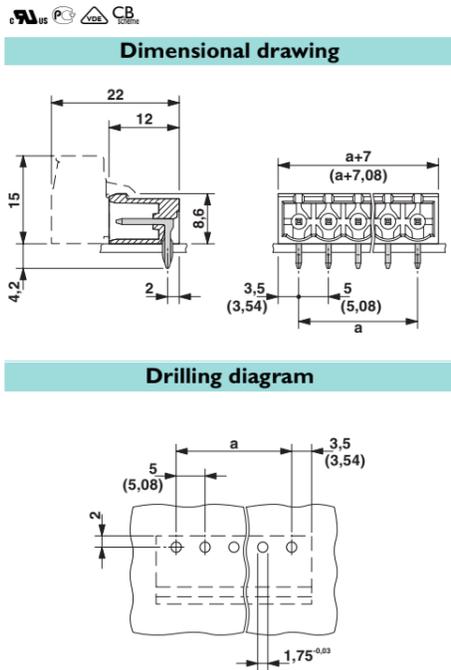
Press-in technology and the structure of the metal-plated hole are explained on page 31.

Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

1) EMSTBVA 2,5/...-G from 2- to 12-pos., insulation material/insulation material group: PA/I

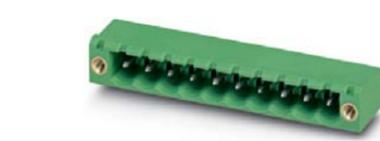
Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
	Stamp holder EMSTB 2,5-SH Order No. 1877203	826
Only for EMSTBVA 2,5/...-G and EMSTBV 2,5/...-GF		
	Stamp set EMSTBVA 2,5_SS-... Order No. 1877216	826



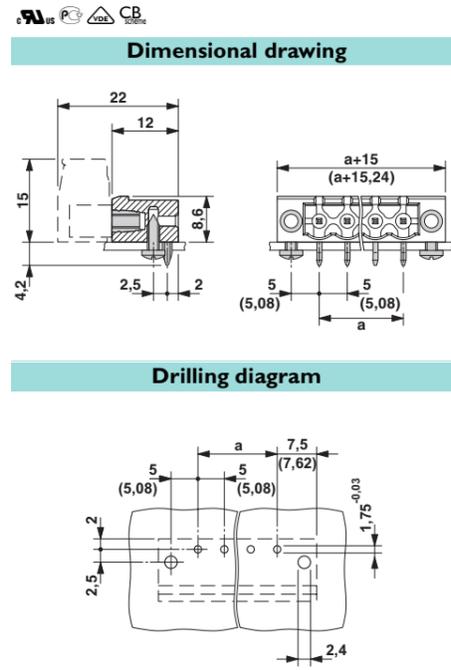
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
EMSTBA 2,5/ 2-G	1899841	50	
EMSTBA 2,5/ 3-G	1899854	50	
EMSTBA 2,5/ 4-G	1899867	50	
EMSTBA 2,5/ 5-G	1899870	50	
EMSTBA 2,5/ 6-G	1899883	50	
EMSTBA 2,5/ 7-G	1899896	50	
EMSTBA 2,5/ 8-G	1899906	50	
EMSTBA 2,5/ 9-G	1899919	50	
EMSTBA 2,5/10-G	1899922	50	
EMSTBA 2,5/11-G	1899935	50	
EMSTBA 2,5/12-G	1899948	50	
EMSTBA 2,5/13-G	1899951	50	
EMSTBA 2,5/14-G	1899964	50	
EMSTBA 2,5/15-G	1899977	50	
EMSTBA 2,5/16-G	1899980	50	
5.08 mm pitch, color: Green			
EMSTBA 2,5/ 2-G-5,08	1880300	50	
EMSTBA 2,5/ 3-G-5,08	1880313	50	
EMSTBA 2,5/ 4-G-5,08	1880326	50	
EMSTBA 2,5/ 5-G-5,08	1880339	50	
EMSTBA 2,5/ 6-G-5,08	1880342	50	
EMSTBA 2,5/ 7-G-5,08	1880355	50	
EMSTBA 2,5/ 8-G-5,08	1880368	50	
EMSTBA 2,5/ 9-G-5,08	1880371	50	
EMSTBA 2,5/10-G-5,08	1880384	50	
EMSTBA 2,5/11-G-5,08	1880397	50	
EMSTBA 2,5/12-G-5,08	1880407	50	
EMSTBA 2,5/13-G-5,08	1880410	50	
EMSTBA 2,5/14-G-5,08	1880423	50	
EMSTBA 2,5/15-G-5,08	1880436	50	
EMSTBA 2,5/16-G-5,08	1880449	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

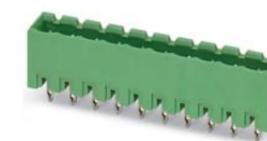
CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



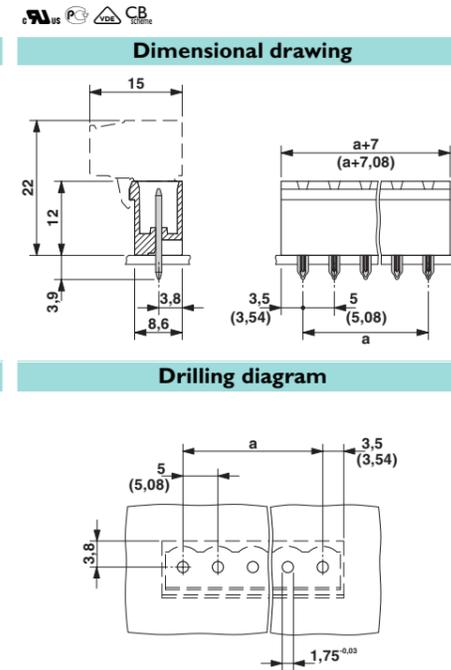
With threaded flange, plug-in direction parallel to the PCB



Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
EMSTB 2,5/ 2-GF	1900073	50	
EMSTB 2,5/ 3-GF	1900086	50	
EMSTB 2,5/ 4-GF	1900099	50	
EMSTB 2,5/ 5-GF	1900109	50	
EMSTB 2,5/ 6-GF	1900112	50	
EMSTB 2,5/ 7-GF	1900125	50	
EMSTB 2,5/ 8-GF	1900138	50	
EMSTB 2,5/ 9-GF	1900141	50	
EMSTB 2,5/10-GF	1900154	50	
EMSTB 2,5/11-GF	1900167	50	
EMSTB 2,5/12-GF	1900170	50	
EMSTB 2,5/13-GF	1900183	50	
EMSTB 2,5/14-GF	1900196	50	
EMSTB 2,5/15-GF	1900206	50	
EMSTB 2,5/16-GF	1900219	50	
5.08 mm pitch, color: Green			
EMSTB 2,5/ 2-GF-5,08	1899618	50	
EMSTB 2,5/ 3-GF-5,08	1899621	50	
EMSTB 2,5/ 4-GF-5,08	1899634	50	
EMSTB 2,5/ 5-GF-5,08	1899647	50	
EMSTB 2,5/ 6-GF-5,08	1899650	50	
EMSTB 2,5/ 7-GF-5,08	1899663	50	
EMSTB 2,5/ 8-GF-5,08	1899676	50	
EMSTB 2,5/ 9-GF-5,08	1899689	50	
EMSTB 2,5/10-GF-5,08	1899692	50	
EMSTB 2,5/11-GF-5,08	1899702	50	
EMSTB 2,5/12-GF-5,08	1899715	50	
EMSTB 2,5/13-GF-5,08	1899728	50	
EMSTB 2,5/14-GF-5,08	1899731	50	
EMSTB 2,5/15-GF-5,08	1899744	50	
EMSTB 2,5/16-GF-5,08	1899757	50	



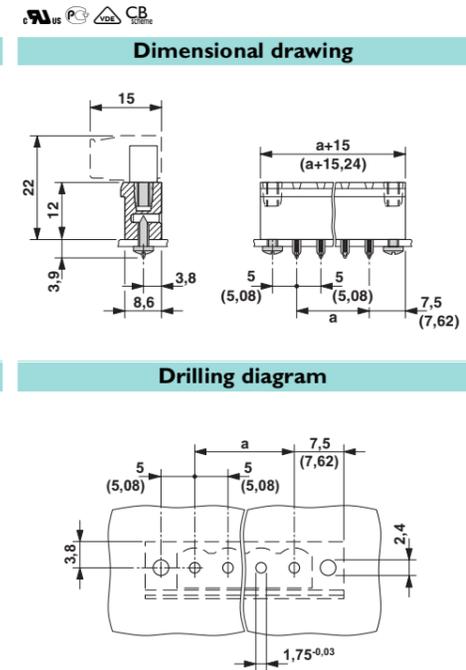
With side panels, plug-in direction vertical to the PCB



Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
EMSTBVA 2,5/ 2-G	1914852	50	
EMSTBVA 2,5/ 3-G	1914865	50	
EMSTBVA 2,5/ 4-G	1914878	50	
EMSTBVA 2,5/ 5-G	1914881	50	
EMSTBVA 2,5/ 6-G	1914894	50	
EMSTBVA 2,5/ 7-G	1914904	50	
EMSTBVA 2,5/ 8-G	1914917	50	
EMSTBVA 2,5/ 9-G	1914920	50	
EMSTBVA 2,5/10-G	1914933	50	
EMSTBVA 2,5/11-G	1914946	50	
EMSTBVA 2,5/12-G	1914959	50	
EMSTBVA 2,5/13-G	1914962	50	
EMSTBVA 2,5/14-G	1914975	50	
EMSTBVA 2,5/15-G	1914988	50	
EMSTBVA 2,5/16-G	1914991	50	
5.08 mm pitch, color: Green			
EMSTBVA 2,5/ 2-G-5,08	1859519	50	
EMSTBVA 2,5/ 3-G-5,08	1859522	50	
EMSTBVA 2,5/ 4-G-5,08	1859535	50	
EMSTBVA 2,5/ 5-G-5,08	1859647	50	
EMSTBVA 2,5/ 6-G-5,08	1859551	50	
EMSTBVA 2,5/ 7-G-5,08	1859564	50	
EMSTBVA 2,5/ 8-G-5,08	1859577	50	
EMSTBVA 2,5/ 9-G-5,08	1859580	50	
EMSTBVA 2,5/10-G-5,08	1859593	50	
EMSTBVA 2,5/11-G-5,08	1859603	50	
EMSTBVA 2,5/12-G-5,08	1859616	50	
EMSTBVA 2,5/13-G-5,08	1859629	50	
EMSTBVA 2,5/14-G-5,08	1859632	50	
EMSTBVA 2,5/15-G-5,08	1859645	50	
EMSTBVA 2,5/16-G-5,08	1859658	50	



With threaded flange, plug-in direction vertical to the PCB

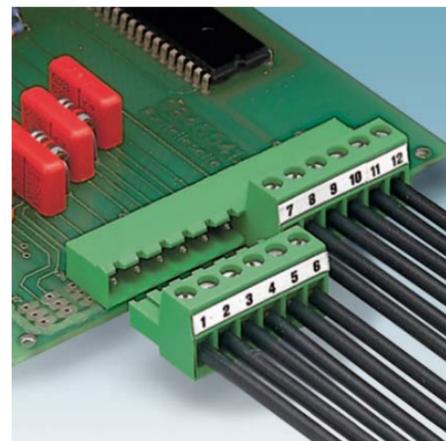


Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
EMSTBV 2,5/ 2-GF	1914055	50	
EMSTBV 2,5/ 3-GF	1914068	50	
EMSTBV 2,5/ 4-GF	1914071	50	
EMSTBV 2,5/ 5-GF	1914084	50	
EMSTBV 2,5/ 6-GF	1915107	50	
EMSTBV 2,5/ 7-GF	1915110	50	
EMSTBV 2,5/ 8-GF	1915123	50	
EMSTBV 2,5/ 9-GF	1915136	50	
EMSTBV 2,5/10-GF	1915149	50	
EMSTBV 2,5/11-GF	1915152	50	
EMSTBV 2,5/12-GF	1915165	50	
EMSTBV 2,5/13-GF	1915178	50	
EMSTBV 2,5/14-GF	1915181	50	
EMSTBV 2,5/15-GF	1915194	50	
EMSTBV 2,5/16-GF	1915204	50	
5.08 mm pitch, color: Green			
EMSTBV 2,5/ 2-GF-5,08	1915217	50	
EMSTBV 2,5/ 3-GF-5,08	1898648	50	
EMSTBV 2,5/ 4-GF-5,08	1915233	50	
EMSTBV 2,5/ 5-GF-5,08	1915246	50	
EMSTBV 2,5/ 6-GF-5,08	1915259	50	
EMSTBV 2,5/ 7-GF-5,08	1915262	50	
EMSTBV 2,5/ 8-GF-5,08	1915275	50	
EMSTBV 2,5/ 9-GF-5,08	1915288	50	
EMSTBV 2,5/10-GF-5,08	1915291	50	
EMSTBV 2,5/11-GF-5,08	1915301	50	
EMSTBV 2,5/12-GF-5,08	1915314	50	
EMSTBV 2,5/13-GF-5,08	1915327	50	
EMSTBV 2,5/14-GF-5,08	1915330	50	
EMSTBV 2,5/15-GF-5,08	1915343	50	
EMSTBV 2,5/16-GF-5,08	1915356	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Single-level header for the wave soldering processes



- Standard pin strip for 320 V (III/2)
- Plug-in direction parallel to the conductor axis
- Designs with and without side panel
- W-type with stand-off
- Versions with engagement noses for locking plugs with self-locking flanges
- Other pin lengths available on request
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

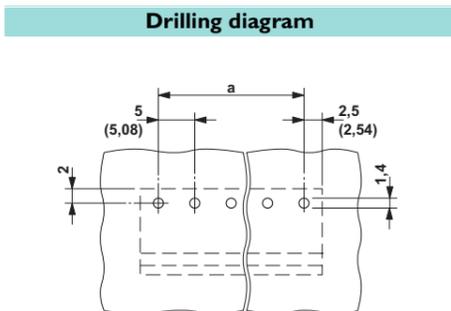
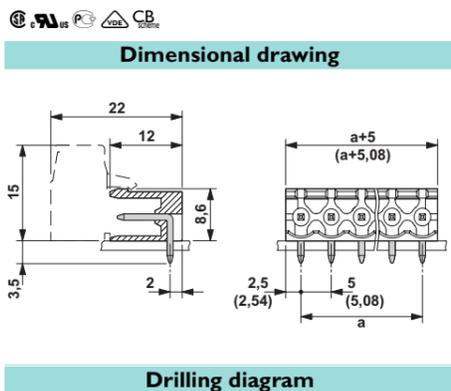
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

1) MSTB 2,5/...-G and MSTBA 2,5/...-G from 2- to 12-pos.: insulation material/insulation material group = PA/I, more than 12-pos.: insulation material/insulation material group = PBT/IIIa.

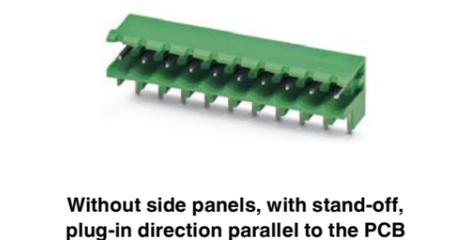
Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
	Mounting flange MSTB-BF Order No. 1759981	836



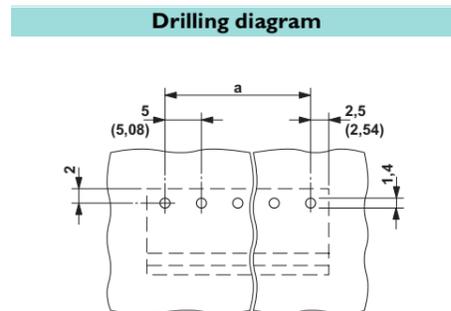
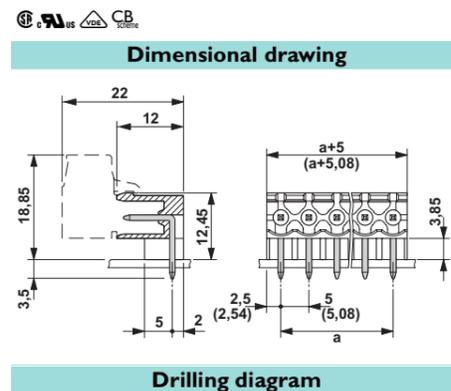
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MSTB 2,5/ 2-G	1754436	250	
MSTB 2,5/ 3-G	1754452	250	
MSTB 2,5/ 4-G	1754478	250	
MSTB 2,5/ 5-G	1754494	250	
MSTB 2,5/ 6-G	1754517	100	
MSTB 2,5/ 7-G	1754533	100	
MSTB 2,5/ 8-G	1754559	100	
MSTB 2,5/ 9-G	1754575	100	
MSTB 2,5/10-G	1754591	100	
MSTB 2,5/11-G	1754614	50	
MSTB 2,5/12-G	1754630	50	
MSTB 2,5/13-G	1754656	50	
MSTB 2,5/14-G	1754672	50	
MSTB 2,5/15-G	1754698	50	
MSTB 2,5/16-G	1754711	50	
5.08 mm pitch, color: Green			
MSTB 2,5/ 2-G-5,08	1759017	250	
MSTB 2,5/ 3-G-5,08	1759020	250	
MSTB 2,5/ 4-G-5,08	1759033	250	
MSTB 2,5/ 5-G-5,08	1759046	250	
MSTB 2,5/ 6-G-5,08	1759059	100	
MSTB 2,5/ 7-G-5,08	1759062	100	
MSTB 2,5/ 8-G-5,08	1759075	100	
MSTB 2,5/ 9-G-5,08	1759088	100	
MSTB 2,5/10-G-5,08	1759091	100	
MSTB 2,5/11-G-5,08	1759101	50	
MSTB 2,5/12-G-5,08	1759114	50	
MSTB 2,5/13-G-5,08	1759127	50	
MSTB 2,5/14-G-5,08	1759130	50	
MSTB 2,5/15-G-5,08	1759143	50	
MSTB 2,5/16-G-5,08	1759156	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



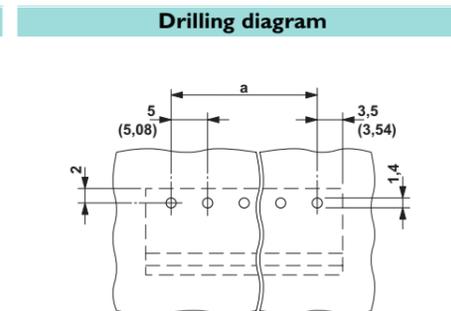
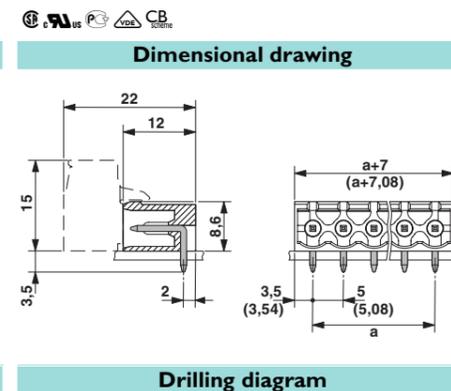
Without side panels, with stand-off, plug-in direction parallel to the PCB



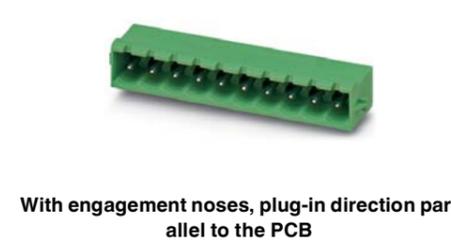
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MSTBW 2,5/ 2-G	1736111	50	
MSTBW 2,5/ 3-G	1736108	50	
MSTBW 2,5/ 4-G	1736098	50	
MSTBW 2,5/ 5-G	1736085	50	
MSTBW 2,5/ 6-G	1736072	50	
MSTBW 2,5/ 7-G	1736069	50	
MSTBW 2,5/ 8-G	1736056	50	
MSTBW 2,5/ 9-G	1736043	50	
MSTBW 2,5/10-G	1736030	50	
MSTBW 2,5/11-G	1736027	50	
MSTBW 2,5/12-G	1736014	50	
MSTBW 2,5/13-G	1736001	50	
MSTBW 2,5/14-G	1735992	50	
MSTBW 2,5/15-G	1735989	50	
MSTBW 2,5/16-G	1735976	50	
5.08 mm pitch, color: Green			
MSTBW 2,5/ 2-G-5,08	1735882	50	
MSTBW 2,5/ 3-G-5,08	1735879	50	
MSTBW 2,5/ 4-G-5,08	1735866	50	
MSTBW 2,5/ 5-G-5,08	1735853	50	
MSTBW 2,5/ 6-G-5,08	1735840	50	
MSTBW 2,5/ 7-G-5,08	1735837	50	
MSTBW 2,5/ 8-G-5,08	1735824	50	
MSTBW 2,5/ 9-G-5,08	1735811	50	
MSTBW 2,5/10-G-5,08	1735808	50	
MSTBW 2,5/11-G-5,08	1735798	50	
MSTBW 2,5/12-G-5,08	1735785	50	
MSTBW 2,5/13-G-5,08	1735772	50	
MSTBW 2,5/14-G-5,08	1735769	50	
MSTBW 2,5/15-G-5,08	1735756	50	
MSTBW 2,5/16-G-5,08	1735743	50	



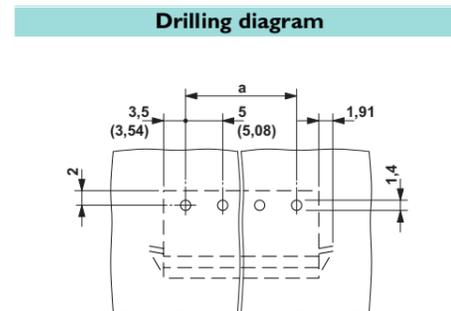
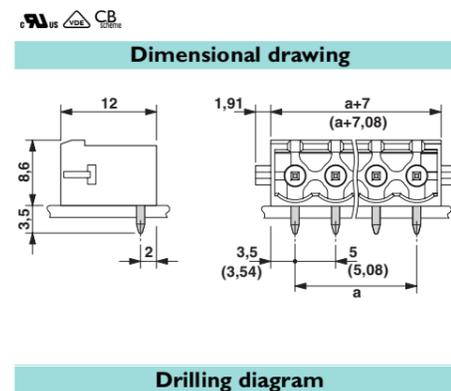
With side panels, plug-in direction parallel to the PCB



Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MSTBA 2,5/ 2-G	1757475	250	
MSTBA 2,5/ 3-G	1757488	250	
MSTBA 2,5/ 4-G	1757491	250	
MSTBA 2,5/ 5-G	1757501	250	
MSTBA 2,5/ 6-G	1757514	100	
MSTBA 2,5/ 7-G	1755493	100	
MSTBA 2,5/ 8-G	1757527	100	
MSTBA 2,5/ 9-G	1757530	100	
MSTBA 2,5/10-G	1757543	100	
MSTBA 2,5/11-G	1757556	50	
MSTBA 2,5/12-G	1757569	50	
MSTBA 2,5/13-G	1757572	50	
MSTBA 2,5/14-G	1757585	50	
MSTBA 2,5/15-G	1757598	50	
MSTBA 2,5/16-G	1757608	50	
5.08 mm pitch, color: Green			
MSTBA 2,5/ 2-G-5,08	1757242	250	
MSTBA 2,5/ 3-G-5,08	1757255	250	
MSTBA 2,5/ 4-G-5,08	1757268	250	
MSTBA 2,5/ 5-G-5,08	1757271	250	
MSTBA 2,5/ 6-G-5,08	1757284	100	
MSTBA 2,5/ 7-G-5,08	1757297	100	
MSTBA 2,5/ 8-G-5,08	1757307	100	
MSTBA 2,5/ 9-G-5,08	1757310	100	
MSTBA 2,5/10-G-5,08	1757323	100	
MSTBA 2,5/11-G-5,08	1757336	50	
MSTBA 2,5/12-G-5,08	1757349	50	
MSTBA 2,5/13-G-5,08	1757352	50	
MSTBA 2,5/14-G-5,08	1757365	50	
MSTBA 2,5/15-G-5,08	1757378	50	
MSTBA 2,5/16-G-5,08	1757381	50	



With engagement noses, plug-in direction parallel to the PCB

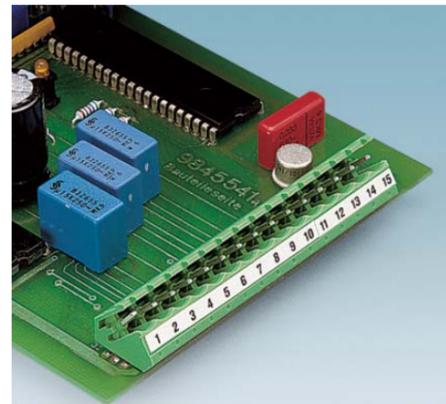


Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MSTBA 2,5/ 2-G-RN	1944783	50	
MSTBA 2,5/ 3-G-RN	1944796	50	
MSTBA 2,5/ 4-G-RN	1944806	50	
MSTBA 2,5/ 5-G-RN	1944819	50	
MSTBA 2,5/ 6-G-RN	1944822	50	
MSTBA 2,5/ 7-G-RN	1944835	50	
MSTBA 2,5/ 8-G-RN	1944848	50	
MSTBA 2,5/ 9-G-RN	1944851	50	
MSTBA 2,5/10-G-RN	1944864	50	
MSTBA 2,5/11-G-RN	1944877	50	
MSTBA 2,5/12-G-RN	1944880	50	
MSTBA 2,5/13-G-RN	1944893	50	
MSTBA 2,5/14-G-RN	1944903	50	
MSTBA 2,5/15-G-RN	1944916	50	
MSTBA 2,5/16-G-RN	1944929	50	
5.08 mm pitch, color: Green			
MSTBA 2,5/ 2-G-5,08-RN	1926015	50	
MSTBA 2,5/ 3-G-5,08-RN	1926028	50	
MSTBA 2,5/ 4-G-5,08-RN	1926031	50	
MSTBA 2,5/ 5-G-5,08-RN	1926044	50	
MSTBA 2,5/ 6-G-5,08-RN	1926057	50	
MSTBA 2,5/ 7-G-5,08-RN	1926060	50	
MSTBA 2,5/ 8-G-5,08-RN	1926073	50	
MSTBA 2,5/ 9-G-5,08-RN	1926086	50	
MSTBA 2,5/10-G-5,08-RN	1926099	50	
MSTBA 2,5/11-G-5,08-RN	1926109	50	
MSTBA 2,5/12-G-5,08-RN	1926112	50	
MSTBA 2,5/13-G-5,08-RN	1926125	50	
MSTBA 2,5/14-G-5,08-RN	1926138	50	
MSTBA 2,5/15-G-5,08-RN	1926141	50	
MSTBA 2,5/16-G-5,08-RN	1926154	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Single-level header for the wave soldering processes



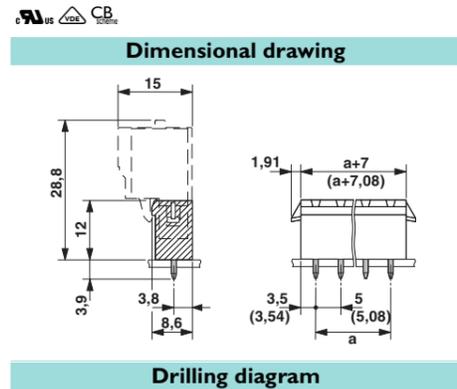
- You can find higher numbers of positions under: www.phoenixcontact.net/products
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking noses for locking
- Versions for Lock & Release locking
- Version with release aid

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837



Ordering data				
Type	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
MSTBVA 2,5/ 2-G-RN	1944592	50		
MSTBVA 2,5/ 3-G-RN	1944602	50		
MSTBVA 2,5/ 4-G-RN	1944615	50		
MSTBVA 2,5/ 5-G-RN	1944628	50		
MSTBVA 2,5/ 6-G-RN	1944631	50		
MSTBVA 2,5/ 7-G-RN	1944644	50		
MSTBVA 2,5/ 8-G-RN	1944657	50		
MSTBVA 2,5/ 9-G-RN	1944660	50		
MSTBVA 2,5/10-G-RN	1944673	50		
MSTBVA 2,5/11-G-RN	1944686	50		
MSTBVA 2,5/12-G-RN	1944699	50		
MSTBVA 2,5/13-G-RN	1944709	50		
MSTBVA 2,5/14-G-RN	1944712	50		
MSTBVA 2,5/15-G-RN	1944725	50		
MSTBVA 2,5/16-G-RN	1944738	50		
5.08 mm pitch, color: Green				
MSTBVA 2,5/ 2-G-5,08-RN	1936018	50		
MSTBVA 2,5/ 3-G-5,08-RN	1936021	50		
MSTBVA 2,5/ 4-G-5,08-RN	1936034	50		
MSTBVA 2,5/ 5-G-5,08-RN	1936047	50		
MSTBVA 2,5/ 6-G-5,08-RN	1936050	50		
MSTBVA 2,5/ 7-G-5,08-RN	1936063	50		
MSTBVA 2,5/ 8-G-5,08-RN	1936076	50		
MSTBVA 2,5/ 9-G-5,08-RN	1936089	50		
MSTBVA 2,5/10-G-5,08-RN	1936092	50		
MSTBVA 2,5/11-G-5,08-RN	1936102	50		
MSTBVA 2,5/12-G-5,08-RN	1936115	50		
MSTBVA 2,5/13-G-5,08-RN	1936128	50		
MSTBVA 2,5/14-G-5,08-RN	1936131	50		
MSTBVA 2,5/15-G-5,08-RN	1936144	50		
MSTBVA 2,5/16-G-5,08-RN	1936157	50		

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	12
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 400
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	12 - 12
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	- / I
Inflammability class according to UL 94	V0

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

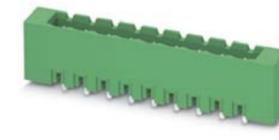
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With engagement nose, plug-in direction vertical to the PCB



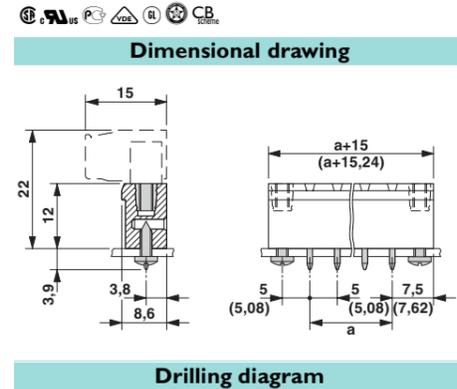
With threaded flange, plug-in direction vertical to the PCB



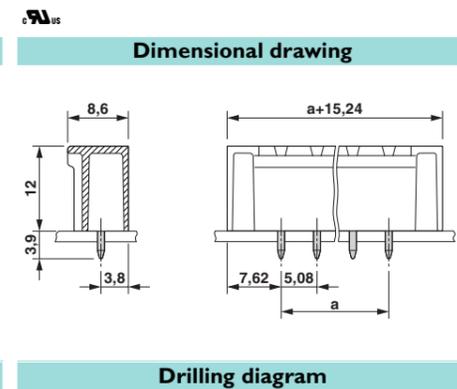
For Lock & Release locking, plug-in direction vertical to the PCB



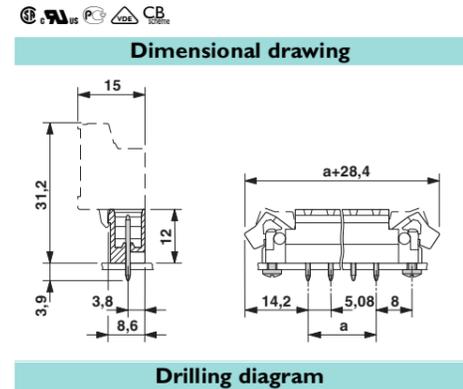
With release aid, plug-in direction vertical to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBV 2,5/ 2-GF	1776883	250
MSTBV 2,5/ 3-GF	1776896	250
MSTBV 2,5/ 4-GF	1776906	250
MSTBV 2,5/ 5-GF	1776919	250
MSTBV 2,5/ 6-GF	1776922	100
MSTBV 2,5/ 7-GF	1776935	100
MSTBV 2,5/ 8-GF	1776948	100
MSTBV 2,5/ 9-GF	1776951	100
MSTBV 2,5/10-GF	1776964	100
MSTBV 2,5/11-GF	1776977	50
MSTBV 2,5/12-GF	1776980	50
MSTBV 2,5/13-GF	1776993	50
MSTBV 2,5/14-GF	1777002	50
MSTBV 2,5/15-GF	1777015	50
MSTBV 2,5/16-GF	1777028	50
5.08 mm pitch, color: Green		
MSTBV 2,5/ 2-GF-5,08	1777073	250
MSTBV 2,5/ 3-GF-5,08	1777086	250
MSTBV 2,5/ 4-GF-5,08	1777099	250
MSTBV 2,5/ 5-GF-5,08	1777109	250
MSTBV 2,5/ 6-GF-5,08	1777112	100
MSTBV 2,5/ 7-GF-5,08	1777125	100
MSTBV 2,5/ 8-GF-5,08	1777138	100
MSTBV 2,5/ 9-GF-5,08	1777141	100
MSTBV 2,5/10-GF-5,08	1777154	100
MSTBV 2,5/11-GF-5,08	1777167	50
MSTBV 2,5/12-GF-5,08	1777170	50
MSTBV 2,5/13-GF-5,08	1777183	50
MSTBV 2,5/14-GF-5,08	1777196	50
MSTBV 2,5/15-GF-5,08	1777206	50
MSTBV 2,5/16-GF-5,08	1777219	50

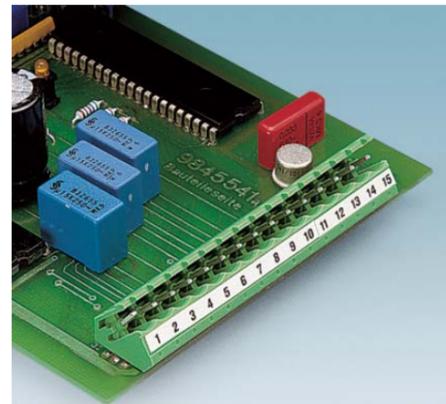


Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBVA 2,5/ 2-G-5,08-LR	1809267	50
MSTBVA 2,5/ 3-G-5,08-LR	1809270	50
MSTBVA 2,5/ 4-G-5,08-LR	1809283	50
MSTBVA 2,5/ 5-G-5,08-LR	1809296	50
MSTBVA 2,5/ 6-G-5,08-LR	1809306	50
MSTBVA 2,5/ 7-G-5,08-LR	1809319	50
MSTBVA 2,5/ 8-G-5,08-LR	1809322	50
MSTBVA 2,5/ 9-G-5,08-LR	1809335	50
MSTBVA 2,5/10-G-5,08-LR	1809348	50
MSTBVA 2,5/11-G-5,08-LR	1809351	50
MSTBVA 2,5/12-G-5,08-LR	1809364	50
MSTBVA 2,5/13-G-5,08-LR	1809377	50
MSTBVA 2,5/14-G-5,08-LR	1809380	50
MSTBVA 2,5/15-G-5,08-LR	1809393	50
MSTBVA 2,5/16-G-5,08-LR	1809403	50



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBV 2,5/ 2-GEH-5,08	1808463	50
MSTBV 2,5/ 3-GEH-5,08	1808476	50
MSTBV 2,5/ 4-GEH-5,08	1808489	50
MSTBV 2,5/ 5-GEH-5,08	1808492	50
MSTBV 2,5/ 6-GEH-5,08	1808502	50
MSTBV 2,5/ 7-GEH-5,08	1808515	50
MSTBV 2,5/ 8-GEH-5,08	1808528	50
MSTBV 2,5/ 9-GEH-5,08	1808531	50
MSTBV 2,5/10-GEH-5,08	1808544	50
MSTBV 2,5/11-GEH-5,08	1808557	50
MSTBV 2,5/12-GEH-5,08	1808560	50
MSTBV 2,5/13-GEH-5,08	1808573	50
MSTBV 2,5/14-GEH-5,08	1808586	50
MSTBV 2,5/15-GEH-5,08	1808599	50
MSTBV 2,5/16-GEH-5,08	1808609	50

Single-level header for the wave soldering processes



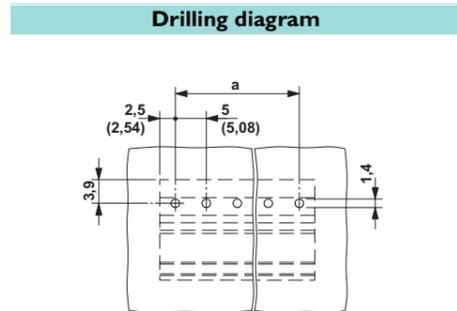
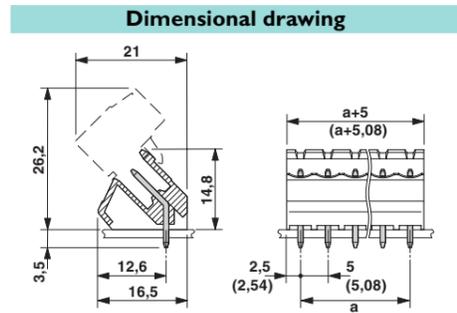
- You can find higher numbers of positions under: www.phoenixcontact.net/products
- Plug-in direction 45° to the PCB
- Used in cases of restricted overhead space
- Designs with and without side panel

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

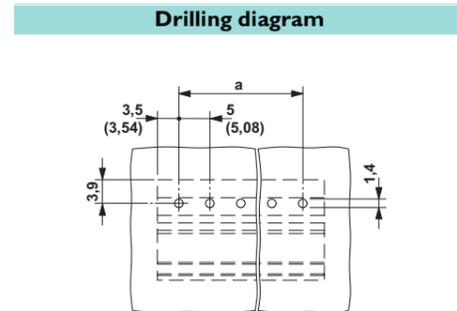
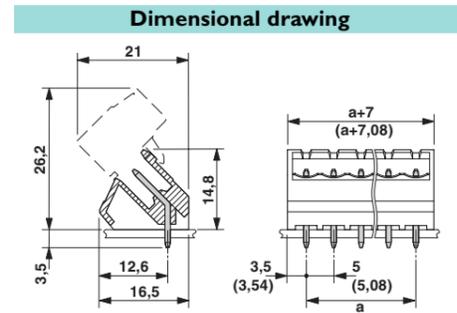
Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837



Without side panels,
plug-in direction 45° to the PCB



With side panels,
plug-in direction 45° to the PCB



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated surge voltage for pollution degree 2	[V] 320
Pitch	[mm] 5 / 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 15 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1,4 / 1 x 1 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

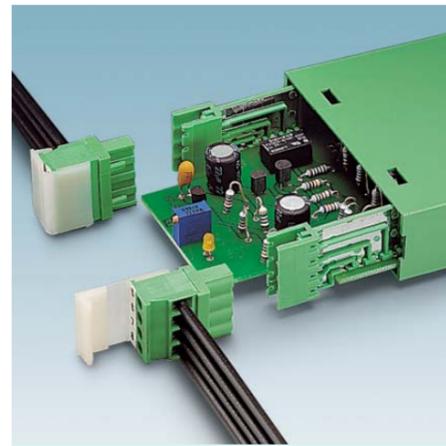
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMSTB 2,5/ 2-G	1769230	50
SMSTB 2,5/ 3-G	1769243	50
SMSTB 2,5/ 4-G	1769256	50
SMSTB 2,5/ 5-G	1769269	50
SMSTB 2,5/ 6-G	1769272	50
SMSTB 2,5/ 7-G	1769285	50
SMSTB 2,5/ 8-G	1769298	50
SMSTB 2,5/ 9-G	1769308	50
SMSTB 2,5/10-G	1769311	50
SMSTB 2,5/11-G	1769324	50
SMSTB 2,5/12-G	1769337	50
SMSTB 2,5/13-G	1769340	50
SMSTB 2,5/14-G	1769353	50
SMSTB 2,5/15-G	1769366	50
SMSTB 2,5/16-G	1769379	50
5.08 mm pitch, color: Green		
SMSTB 2,5/ 2-G-5,08	1769463	50
SMSTB 2,5/ 3-G-5,08	1769476	50
SMSTB 2,5/ 4-G-5,08	1769489	50
SMSTB 2,5/ 5-G-5,08	1769492	50
SMSTB 2,5/ 6-G-5,08	1769502	50
SMSTB 2,5/ 7-G-5,08	1769515	50
SMSTB 2,5/ 8-G-5,08	1769528	50
SMSTB 2,5/ 9-G-5,08	1769531	50
SMSTB 2,5/10-G-5,08	1769544	50
SMSTB 2,5/11-G-5,08	1769557	50
SMSTB 2,5/12-G-5,08	1769560	50
SMSTB 2,5/13-G-5,08	1769573	50
SMSTB 2,5/14-G-5,08	1769586	50
SMSTB 2,5/15-G-5,08	1769599	50
SMSTB 2,5/16-G-5,08	1769609	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMSTBA 2,5/ 2-G	1769803	50
SMSTBA 2,5/ 3-G	1769816	50
SMSTBA 2,5/ 4-G	1769829	50
SMSTBA 2,5/ 5-G	1769832	50
SMSTBA 2,5/ 6-G	1769845	50
SMSTBA 2,5/ 7-G	1769858	50
SMSTBA 2,5/ 8-G	1769861	50
SMSTBA 2,5/ 9-G	1769874	50
SMSTBA 2,5/10-G	1769887	50
SMSTBA 2,5/11-G	1769890	50
SMSTBA 2,5/12-G	1769900	50
SMSTBA 2,5/13-G	1769913	50
SMSTBA 2,5/14-G	1769926	50
SMSTBA 2,5/15-G	1769939	50
SMSTBA 2,5/16-G	1769942	50
5.08 mm pitch, color: Green		
SMSTBA 2,5/ 2-G-5,08	1767371	50
SMSTBA 2,5/ 3-G-5,08	1767384	50
SMSTBA 2,5/ 4-G-5,08	1767397	50
SMSTBA 2,5/ 5-G-5,08	1767407	50
SMSTBA 2,5/ 6-G-5,08	1767410	50
SMSTBA 2,5/ 7-G-5,08	1767423	50
SMSTBA 2,5/ 8-G-5,08	1767436	50
SMSTBA 2,5/ 9-G-5,08	1767449	50
SMSTBA 2,5/10-G-5,08	1767452	50
SMSTBA 2,5/11-G-5,08	1767465	50
SMSTBA 2,5/12-G-5,08	1767478	50
SMSTBA 2,5/13-G-5,08	1767481	50
SMSTBA 2,5/14-G-5,08	1767494	50
SMSTBA 2,5/15-G-5,08	1767504	50
SMSTBA 2,5/16-G-5,08	1767517	50

Orthogonal headers for wave soldering processes



- Space-saving header
- Header perpendicular (orthogonal) to the PCB

MSTBO 2,5/...-GL

- The PCB is to the left of the header

MSTBO 2,5/...-GR

- The PCB is to the right of the header

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

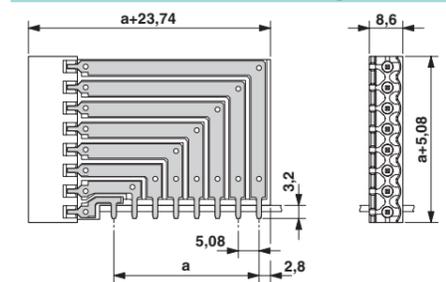
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Accessories

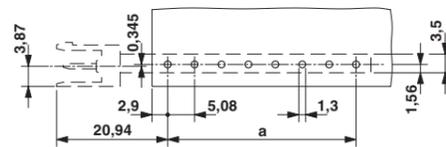
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837



Dimensional drawing



Drilling diagram



Ordering data

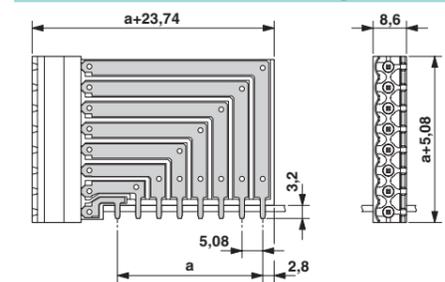
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBO 2,5/ 3-GL-5,08	1850440	50
MSTBO 2,5/ 4-GL-5,08	1850453	50
MSTBO 2,5/ 5-GL-5,08	1850466	50
MSTBO 2,5/ 6-GL-5,08	1850479	50
MSTBO 2,5/ 7-GL-5,08	1850482	50
MSTBO 2,5/ 8-GL-5,08	1850495	50



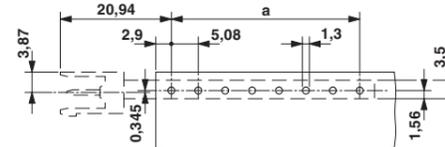
Pin strip leading off at a right angle
"PCB on the right"



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBO 2,5/ 3-GR-5,08	1847110	50
MSTBO 2,5/ 4-GR-5,08	1847123	50
MSTBO 2,5/ 5-GR-5,08	1847136	50
MSTBO 2,5/ 6-GR-5,08	1847149	50
MSTBO 2,5/ 7-GR-5,08	1847152	50
MSTBO 2,5/ 8-GR-5,08	1847165	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	8
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	6.5 - 6.5
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 1,2 x 0,32 mm

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Orthogonal headers for wave soldering processes



- Header for ME/ME MAX electronic housing
- Plug-in direction orthogonal to the PCB
- "Left" and "right" design
- Number of positions between 2 and 4
- Pitch 5 mm
- Connection cross section of up to 2.5 mm²

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Accessories

For all types	Type	Page
	Keying section CR-MSTBO G1 Order No. 2199618	38

Technical data

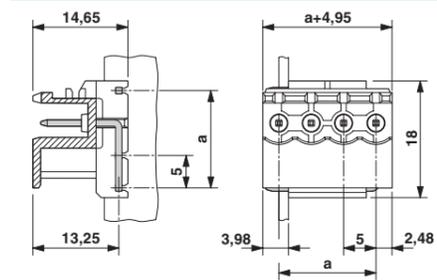
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 12 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 1 x 1 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00

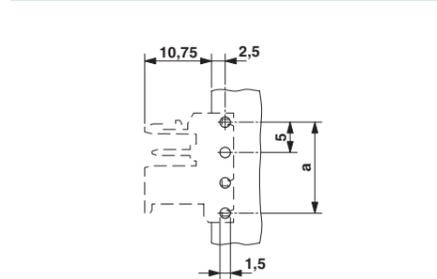
Type	Order No.	Pcs. / Pkt.
COMBICON header, 5 mm pitch, color: green		
MSTBO 2,5/ 2-G1L	1861057	50
MSTBO 2,5/ 3-G1L	1861028	50
MSTBO 2,5/ 4-G1L	1861060	50



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON header, 5 mm pitch, color: green		
MSTBO 2,5/ 2-G1L	1861057	50
MSTBO 2,5/ 3-G1L	1861028	50
MSTBO 2,5/ 4-G1L	1861060	50



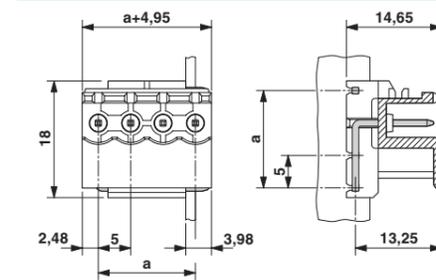
Pin strip leading off at a right angle "left", color: green



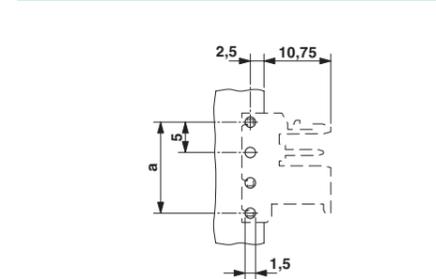
Pin strip leading off at a right angle "right", color: green



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON header, right, 5 mm pitch, color: green		
MSTBO 2,5/ 2-G1R	1861044	50
MSTBO 2,5/ 3-G1R	1861031	50
MSTBO 2,5/ 4-G1R	1861073	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



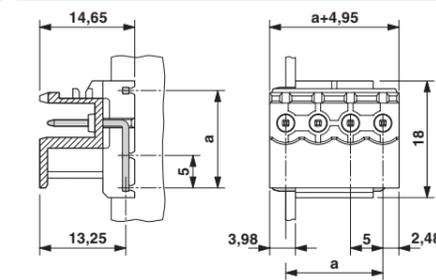
Pin strip leading off at a right angle "left", color: gray



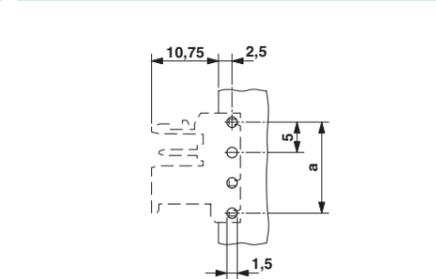
Pin strip leading off at a right angle "right", color: gray



Dimensional drawing



Drilling diagram

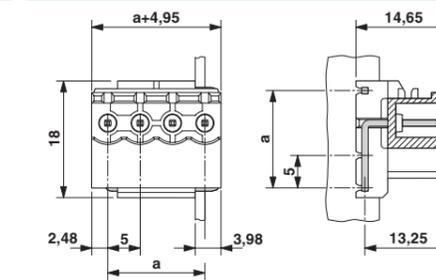


Ordering data

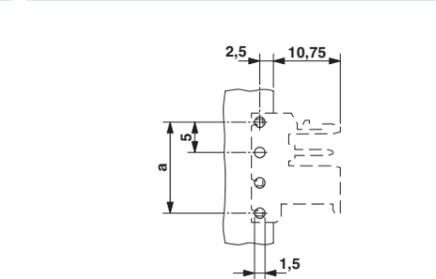
Type	Order No.	Pcs. / Pkt.
COMBICON header, 5 mm pitch, color: light gray		
MSTBO 2,5/ 2-G1L KMGY	2854788	50
MSTBO 2,5/ 3-G1L KMGY	2853750	50
MSTBO 2,5/ 4-G1L KMGY	2907774	50



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON header, right, 5 mm pitch, color: light gray		
MSTBO 2,5/ 2-G1R KMGY	2854791	50
MSTBO 2,5/ 3-G1R KMGY	2853763	50
MSTBO 2,5/ 4-G1R KMGY	2907787	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Orthogonal headers for wave soldering processes



- Header and connector for ME and ME MAX electronic housings
- Touch proof
- Plug-in direction orthogonal to the PCB
- Design version "left" and "right"
- Number of positions between 2 and 4
- Pitch 5 mm
- Connection cross section of up to 2.5 mm²

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8	798
Only for MSTBO 2,5...G1...		
	Keying section CR-MSTBO G1 Order No. 2199618	38

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

MSTBT 2,5 HC/ ...-STP GY7035	MSTBO 2,5/ ...-G1PR GY7035	MSTBO 2,5/ ...-G1PL GY7035
16 ¹⁾ / 2,5	16	16
320	320	320
5	5	5
0.2 - 2.5 / 0.2 - 2.5 / 24 - 12	- / - / -	- / - / -
0.25 - 2.5	-	-
0.25 - 2.5	-	-
0.2 - 1 / 0.2 - 1.5	- / -	- / -
0.25 - 1	-	-
0.5 - 1.5	-	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
250 320 630	250 320 400	250 320 400
4 4 4	4 4 4	4 4 4
B C D	B C D	B C D
300 - - 300	300 - - 300	300 - - 300
16 - - 15	15 - - 15	15 - - 15
30 - 12 - - 30 - 12	- - -	- - -
B C D	B C D	B C D
- - -	- - -	- - -
- - -	- - -	- - -
- - -	- - -	- - -
7	-	-
M3	-	-
0.5 - 0.6	-	-
PA / I	PA / I	PA / I
V0	V0	V0

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



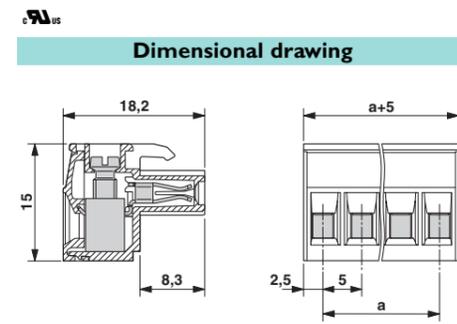
Connector for touch-proof header, color: gray, pitch 5 mm



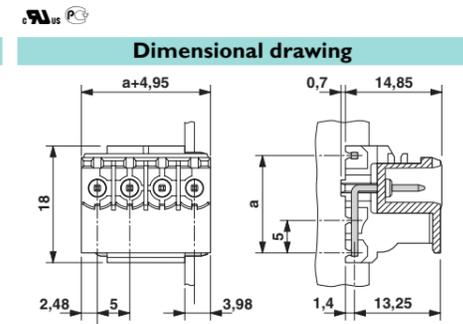
Touch-proof, with "right" pin strip leading off at a right angle, color: gray



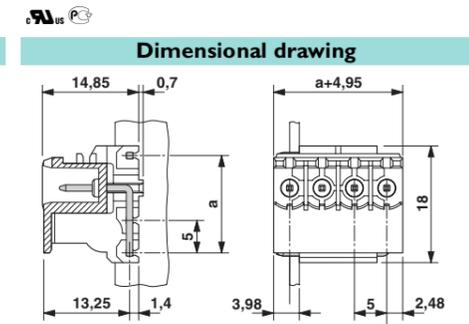
Touch-proof, with "left" pin strip leading off at a right angle, color: gray



Dimensional drawing



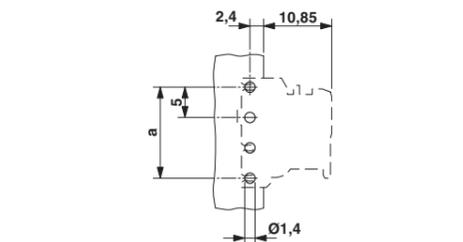
Dimensional drawing



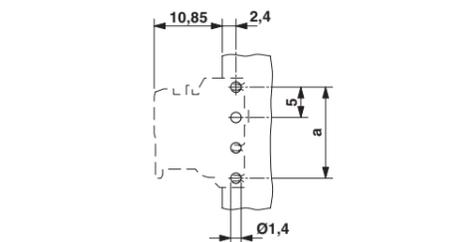
Dimensional drawing



Ordering data		
Type	Order No.	Pcs. / Pkt.
COMBICON screw connector, pitch 5 mm, for touch-proof header, color: gray		
MSTBT 2,5 HC/ 2-STP GY7035	2200334	50
MSTBT 2,5 HC/ 3-STP GY7035	2200333	50
MSTBT 2,5 HC/ 4-STP GY7035	2200332	50



Ordering data		
Type	Order No.	Pcs. / Pkt.
COMBICON header,, pitch 5 mm, touch-proof, color: light gray		
MSTBO 2,5/ 2-G1PR GY7035	2200331	50
MSTBO 2,5/ 3-G1PR GY7035	2200329	50
MSTBO 2,5/ 4-G1PR GY7035	2200326	50

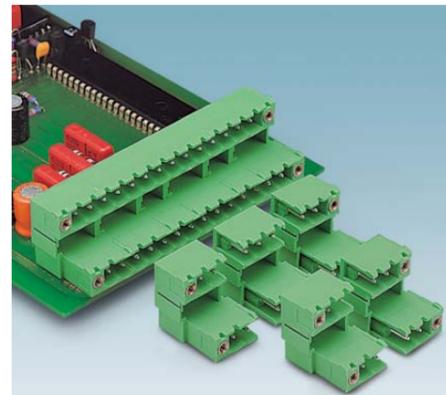


Ordering data		
Type	Order No.	Pcs. / Pkt.
COMBICON header,, pitch 5 mm, touch-proof, color: light gray		
MSTBO 2,5/ 2-G1PL GY7035	2200330	50
MSTBO 2,5/ 3-G1PL GY7035	2200328	50
MSTBO 2,5/ 4-G1PL GY7035	2200325	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Double-level header for the wave soldering processes



- Double-level header with offset levels
- Plug-in direction parallel to the PCB
- Improved view and accessibility to the lower level
- High contact density
- Versions with and without side panel, as well as with and without screw flange
- Ejectors as an add-on for high-pos. connectors must be mounted on the left and the right side
- Versions with right and left side panel and higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

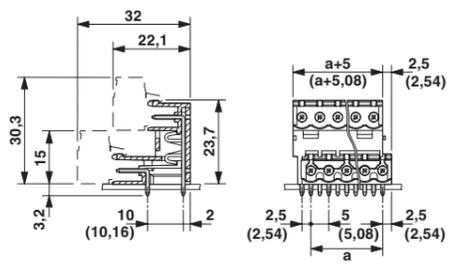
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

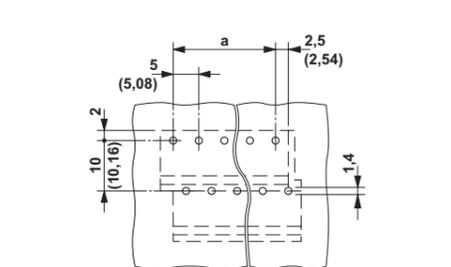
Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
Only for MDSTB 2,5/...-G		
	Side element for MDSTB(V); width 2.54 mm MDSTB-SE Order No. 1786679	
	Ejectors for high-pos. connectors MDSTB 2,5-AS Order No. 1806588	



Dimensional drawing

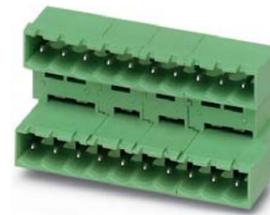


Drilling diagram



Ordering data

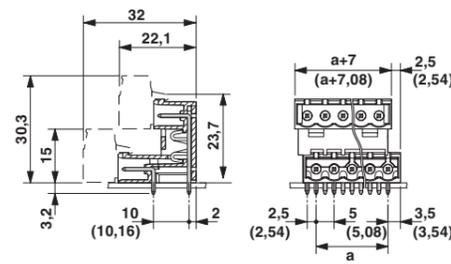
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTB 2,5/ 2-G	1762046	50
MDSTB 2,5/ 3-G	1762059	50
MDSTB 2,5/ 4-G	1846386	50
MDSTB 2,5/ 5-G	1837133	50
MDSTB 2,5/ 6-G	1846409	50
MDSTB 2,5/ 7-G	1846412	50
MDSTB 2,5/ 8-G	1846425	50
MDSTB 2,5/ 9-G	1846438	50
MDSTB 2,5/10-G	1846441	50
MDSTB 2,5/11-G	1846454	50
MDSTB 2,5/12-G	1846467	50
5.08 mm pitch, color: Green		
MDSTB 2,5/ 2-G-5,08	1762062	50
MDSTB 2,5/ 3-G-5,08	1762075	50
MDSTB 2,5/ 4-G-5,08	1842539	50
MDSTB 2,5/ 5-G-5,08	1842542	50
MDSTB 2,5/ 6-G-5,08	1844977	50
MDSTB 2,5/ 7-G-5,08	1842568	50
MDSTB 2,5/ 8-G-5,08	1840052	50
MDSTB 2,5/ 9-G-5,08	1842584	50
MDSTB 2,5/10-G-5,08	1842597	50
MDSTB 2,5/11-G-5,08	1842607	50
MDSTB 2,5/12-G-5,08	1842610	50



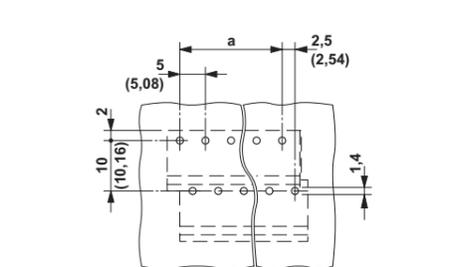
With side panels and offset levels, plug-in direction parallel to the PCB



Dimensional drawing

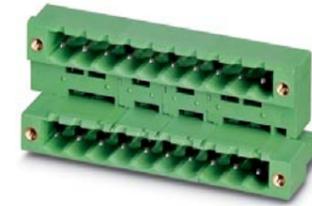


Drilling diagram



Ordering data

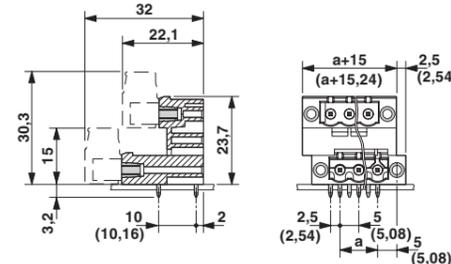
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBA 2,5/ 2-G	1846519	50
MDSTBA 2,5/ 3-G	1846522	50
MDSTBA 2,5/ 4-G	1846535	50
MDSTBA 2,5/ 5-G	1846548	50
MDSTBA 2,5/ 6-G	1846551	50
MDSTBA 2,5/ 7-G	1846564	50
MDSTBA 2,5/ 8-G	1846577	50
MDSTBA 2,5/ 9-G	1846580	50
MDSTBA 2,5/10-G	1846593	50
MDSTBA 2,5/11-G	1846603	50
MDSTBA 2,5/12-G	1846616	50
5.08 mm pitch, color: Green		
MDSTBA 2,5/ 2-G-5,08	1842063	50
MDSTBA 2,5/ 3-G-5,08	1842076	50
MDSTBA 2,5/ 4-G-5,08	1842089	50
MDSTBA 2,5/ 5-G-5,08	1842092	50
MDSTBA 2,5/ 6-G-5,08	1842102	50
MDSTBA 2,5/ 7-G-5,08	1842115	50
MDSTBA 2,5/ 8-G-5,08	1842128	50
MDSTBA 2,5/ 9-G-5,08	1842131	50
MDSTBA 2,5/10-G-5,08	1842144	50
MDSTBA 2,5/11-G-5,08	1842157	50
MDSTBA 2,5/12-G-5,08	1842160	50



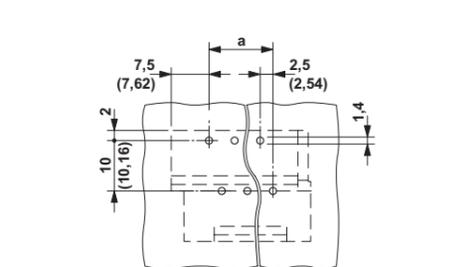
With threaded flange and offset levels, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTB 2,5/ 2-GF	1846690	50
MDSTB 2,5/ 3-GF	1846700	50
MDSTB 2,5/ 4-GF	1846713	50
MDSTB 2,5/ 5-GF	1846726	50
MDSTB 2,5/ 6-GF	1846739	50
MDSTB 2,5/ 7-GF	1846742	50
MDSTB 2,5/ 8-GF	1846755	50
MDSTB 2,5/ 9-GF	1846768	50
MDSTB 2,5/10-GF	1846771	50
MDSTB 2,5/11-GF	1846784	50
MDSTB 2,5/12-GF	1846797	50
5.08 mm pitch, color: Green		
MDSTB 2,5/ 2-GF-5,08	1842364	50
MDSTB 2,5/ 3-GF-5,08	1842377	50
MDSTB 2,5/ 4-GF-5,08	1842380	50
MDSTB 2,5/ 5-GF-5,08	1842393	50
MDSTB 2,5/ 6-GF-5,08	1842403	50
MDSTB 2,5/ 7-GF-5,08	1842416	50
MDSTB 2,5/ 8-GF-5,08	1842429	50
MDSTB 2,5/ 9-GF-5,08	1842432	50
MDSTB 2,5/10-GF-5,08	1842445	50
MDSTB 2,5/11-GF-5,08	1842458	50
MDSTB 2,5/12-GF-5,08	1842461	50

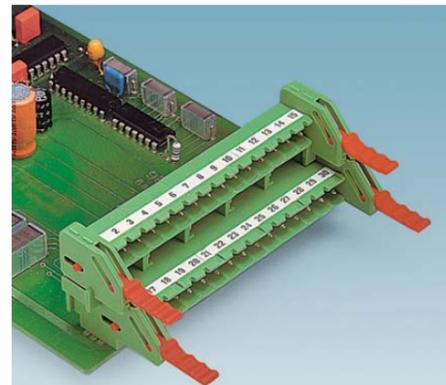
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 10
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5 / 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 15 - 15
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PBT / Illa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1,4 / 1 x 1 mm

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Double-level header for the wave soldering processes



Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

- MDSTBW 2,5/...-G with stand-off
- Ejectors as an add-on for high-pos. connectors must be mounted on the left and the right side
- G1-types without a level offset, for flush installation in the front of the devices
- Horizontal and vertical design
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
Only for MDSTBW 2,5/...-G		
	Ejectors MDSTBW 2,5-AS Order No. 1767766	

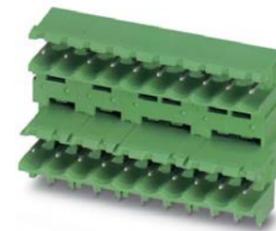
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	10
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 400
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	15 - 15
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PBT / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1,4 / 1 x 1 mm

MDSTBW 2,5/ ...-G			MDSTB 2,5/ ...-G1			MDSTBV 2,5/...-G1		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
250	320	400	250	320	630	250	320	630
4	4	4	4	4	4	4	4	4
B	C	D	B	C	D	B	C	D
300	-	300	300	-	300	300	-	300
15	-	15	15	-	15	12	-	12
-	-	-	-	-	-	-	-	-
B	C	D	B	C	D	B	C	D
300	-	300	300	-	300	300	-	300
10	-	10	10	-	10	10	-	10
-	-	-	-	-	-	-	-	-
PBT / IIIa			PA / I			PA / I		
V0			V0			V0		
1,4 / 1 x 1 mm			1,4 / 1 x 1 mm			1,4 / 1 x 1 mm		

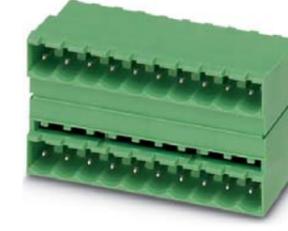
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Classic plug-in connector with 5.0 to 7.62 mm pitch

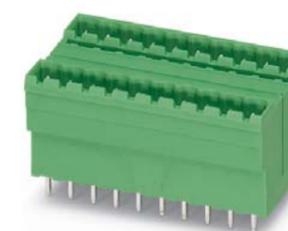
CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm



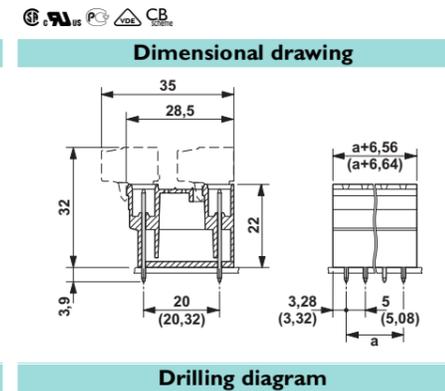
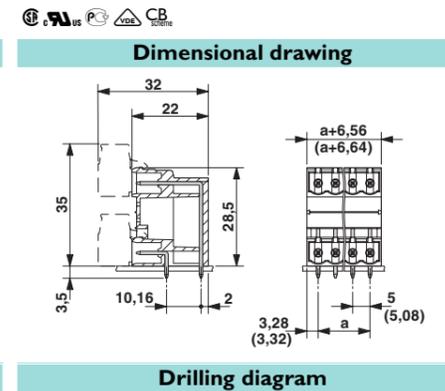
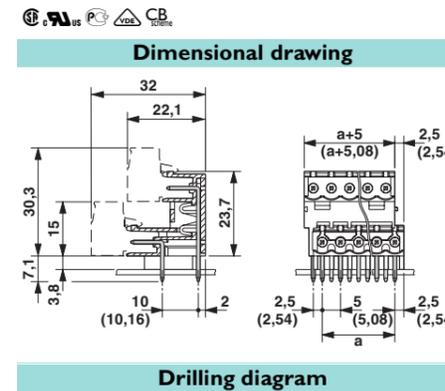
With stand-off, without side panels, with offset levels, plug-in direction parallel to the PCB



With side panels, without offset levels, plug-in direction parallel to the PCB



With side panels, without offset levels, plug-in direction vertical to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBW 2,5/ 2-G	1802443	50
MDSTBW 2,5/ 3-G	1802427	50
MDSTBW 2,5/ 4-G	1846836	50
MDSTBW 2,5/ 5-G	1846849	50
MDSTBW 2,5/ 6-G	1846852	50
MDSTBW 2,5/ 7-G	1846865	50
MDSTBW 2,5/ 8-G	1846878	50
MDSTBW 2,5/ 9-G	1846881	50
MDSTBW 2,5/10-G	1846894	50
MDSTBW 2,5/11-G	1846904	50
MDSTBW 2,5/12-G	1846917	50
5.08 mm pitch, color: Green		
MDSTBW 2,5/ 2-G-5,08	1802430	50
MDSTBW 2,5/ 3-G-5,08	1802414	50
MDSTBW 2,5/ 4-G-5,08	1842238	50
MDSTBW 2,5/ 5-G-5,08	1840010	50
MDSTBW 2,5/ 6-G-5,08	1842254	50
MDSTBW 2,5/ 7-G-5,08	1842267	50
MDSTBW 2,5/ 8-G-5,08	1842270	50
MDSTBW 2,5/ 9-G-5,08	1842283	50
MDSTBW 2,5/10-G-5,08	1842296	50
MDSTBW 2,5/11-G-5,08	1842306	50
MDSTBW 2,5/12-G-5,08	1842319	50

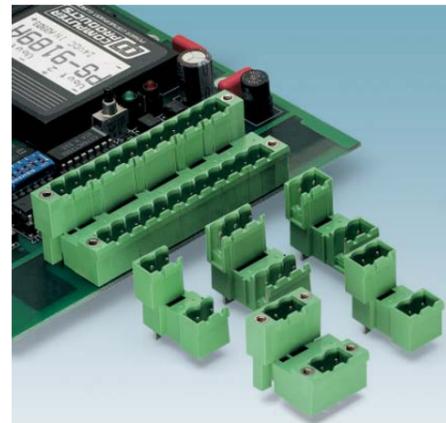
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTB 2,5/ 3-G1	1736687	50
MDSTB 2,5/ 4-G1	1736690	50
MDSTB 2,5/ 6-G1	1762732	50
MDSTB 2,5/ 7-G1	1762745	50
MDSTB 2,5/ 8-G1	1762758	50
MDSTB 2,5/ 9-G1	1762761	50
MDSTB 2,5/10-G1	1762774	50
MDSTB 2,5/11-G1	1762787	50
MDSTB 2,5/12-G1	1762790	50
MDSTB 2,5/13-G1	1762800	50
MDSTB 2,5/14-G1	1762813	50
MDSTB 2,5/15-G1	1762826	50
MDSTB 2,5/16-G1	1762839	50
5.08 mm pitch, color: Green		
MDSTB 2,5/ 3-G1-5,08	1762376	50
MDSTB 2,5/ 4-G1-5,08	1736713	50
MDSTB 2,5/ 5-G1-5,08	1938951	50
MDSTB 2,5/ 6-G1-5,08	1762415	50
MDSTB 2,5/ 7-G1-5,08	1762428	50
MDSTB 2,5/ 8-G1-5,08	1762431	50
MDSTB 2,5/ 9-G1-5,08	1762444	50
MDSTB 2,5/10-G1-5,08	1762457	50
MDSTB 2,5/11-G1-5,08	1762460	50
MDSTB 2,5/12-G1-5,08	1762703	50
MDSTB 2,5/13-G1-5,08	1762473	50
MDSTB 2,5/14-G1-5,08	1762486	50
MDSTB 2,5/15-G1-5,08	1762499	50
MDSTB 2,5/16-G1-5,08	1762509	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBV 2,5/ 3-G1	1736726	50
MDSTBV 2,5/ 4-G1	1736739	50
MDSTBV 2,5/ 6-G1	1762884	50
MDSTBV 2,5/ 7-G1	1762897	50
MDSTBV 2,5/ 8-G1	1762907	50
MDSTBV 2,5/ 9-G1	1762910	50
MDSTBV 2,5/10-G1	1762923	50
MDSTBV 2,5/11-G1	1762936	50
MDSTBV 2,5/12-G1	1762949	50
MDSTBV 2,5/13-G1	1762952	50
MDSTBV 2,5/14-G1	1762965	50
MDSTBV 2,5/15-G1	1762978	50
MDSTBV 2,5/16-G1	1762981	50
5.08 mm pitch, color: Green		
MDSTBV 2,5/ 3-G1-5,08	1736742	50
MDSTBV 2,5/ 4-G1-5,08	1736755	50
MDSTBV 2,5/ 6-G1-5,08	1762541	50
MDSTBV 2,5/ 7-G1-5,08	1762554	50
MDSTBV 2,5/ 8-G1-5,08	1762567	50
MDSTBV 2,5/ 9-G1-5,08	1762570	50
MDSTBV 2,5/10-G1-5,08	1762583	50
MDSTBV 2,5/11-G1-5,08	1762596	50
MDSTBV 2,5/12-G1-5,08	1762606	50
MDSTBV 2,5/13-G1-5,08	1762619	50
MDSTBV 2,5/14-G1-5,08	1762622	50
MDSTBV 2,5/15-G1-5,08	1762635	50
MDSTBV 2,5/16-G1-5,08	1762648	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Double-level header for the wave soldering processes



- Double-level header with offset levels
- Plug-in direction vertical to the PCB
- Improved view and accessibility to the lower level
- High contact density
- Versions with and without side panel, as well as with and without screw flange
- For versions with side panel on the right or left, visit: www.phoenixcontact.net/products

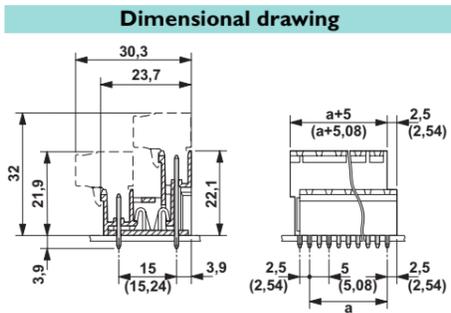
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

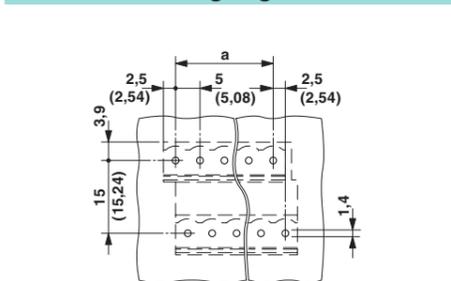
Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
Only for MDSTBV 2,5/-G		
	Side element for MD-STB(V); width 2.54 mm MDSTB-SE Order No. 1786679	

Without side panels, with offset levels, plug-in direction vertical to the PCB

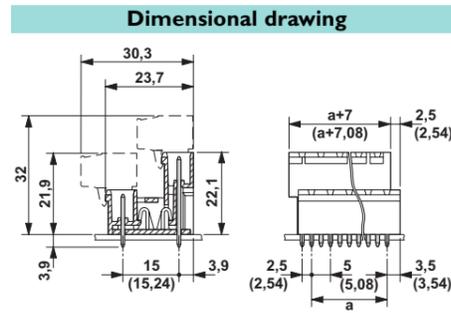


Drilling diagram

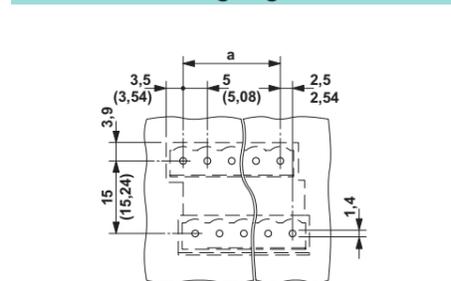


With side panels and offset levels, plug-in direction vertical to the PCB

With side panels and offset levels, plug-in direction vertical to the PCB

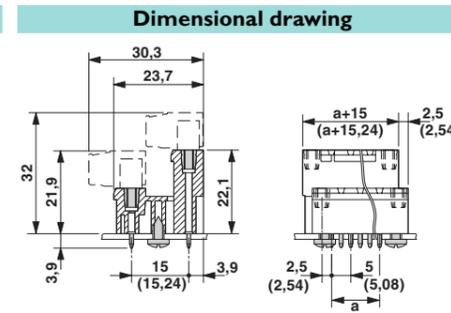


Drilling diagram

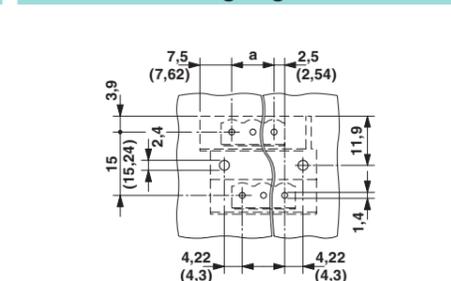


With threaded flange and offset levels, plug-in direction vertical to the PCB

With threaded flange and offset levels, plug-in direction vertical to the PCB



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 10
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5 / 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 400
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 12 - 12
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PBT / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1,4 / 1 x 1 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MDSTBV 2,5/ 2-G	1763032	50	
MDSTBV 2,5/ 3-G	1763045	50	
MDSTBV 2,5/ 4-G	1845950	50	
MDSTBV 2,5/ 5-G	1845963	50	
MDSTBV 2,5/ 6-G	1845976	50	
MDSTBV 2,5/ 7-G	1845989	50	
MDSTBV 2,5/ 8-G	1845992	50	
MDSTBV 2,5/ 9-G	1846001	50	
MDSTBV 2,5/10-G	1846014	50	
MDSTBV 2,5/11-G	1846027	50	
MDSTBV 2,5/12-G	1846030	50	
5.08 mm pitch, color: Green			
MDSTBV 2,5/ 2-G-5,08	1763074	50	
MDSTBV 2,5/ 3-G-5,08	1763087	50	
MDSTBV 2,5/ 4-G-5,08	1845507	50	
MDSTBV 2,5/ 5-G-5,08	1762004	50	
MDSTBV 2,5/ 6-G-5,08	1845523	50	
MDSTBV 2,5/ 7-G-5,08	1845536	50	
MDSTBV 2,5/ 8-G-5,08	1845549	50	
MDSTBV 2,5/ 9-G-5,08	1845552	50	
MDSTBV 2,5/10-G-5,08	1845565	50	
MDSTBV 2,5/11-G-5,08	1845578	50	
MDSTBV 2,5/12-G-5,08	1845581	50	

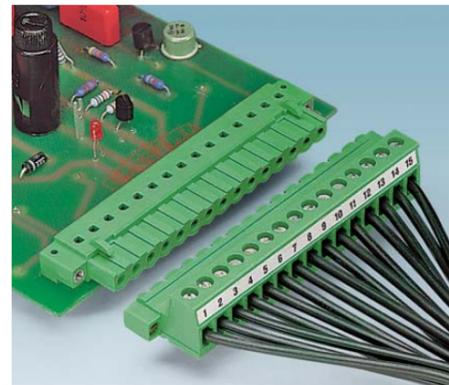
Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MDSTBVA 2,5/ 2-G	1845785	50	
MDSTBVA 2,5/ 3-G	1845798	50	
MDSTBVA 2,5/ 4-G	1845808	50	
MDSTBVA 2,5/ 5-G	1845811	50	
MDSTBVA 2,5/ 6-G	1845824	50	
MDSTBVA 2,5/ 7-G	1845837	50	
MDSTBVA 2,5/ 8-G	1845840	50	
MDSTBVA 2,5/ 9-G	1845853	50	
MDSTBVA 2,5/10-G	1845866	50	
MDSTBVA 2,5/11-G	1845879	50	
MDSTBVA 2,5/12-G	1845882	50	
5.08 mm pitch, color: Green			
MDSTBVA 2,5/ 2-G-5,08	1845332	50	
MDSTBVA 2,5/ 3-G-5,08	1845345	50	
MDSTBVA 2,5/ 4-G-5,08	1845358	50	
MDSTBVA 2,5/ 5-G-5,08	1845361	50	
MDSTBVA 2,5/ 6-G-5,08	1845374	50	
MDSTBVA 2,5/ 7-G-5,08	1845387	50	
MDSTBVA 2,5/ 8-G-5,08	1845390	50	
MDSTBVA 2,5/ 9-G-5,08	1845400	50	
MDSTBVA 2,5/10-G-5,08	1845413	50	
MDSTBVA 2,5/11-G-5,08	1845426	50	
MDSTBVA 2,5/12-G-5,08	1845439	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MDSTBV 2,5/ 2-GF	1846085	50	
MDSTBV 2,5/ 3-GF	1846098	50	
MDSTBV 2,5/ 4-GF	1846108	50	
MDSTBV 2,5/ 5-GF	1846111	50	
MDSTBV 2,5/ 6-GF	1846124	50	
MDSTBV 2,5/ 7-GF	1846137	50	
MDSTBV 2,5/ 8-GF	1846140	50	
MDSTBV 2,5/ 9-GF	1846153	50	
MDSTBV 2,5/10-GF	1846166	50	
MDSTBV 2,5/11-GF	1846179	50	
MDSTBV 2,5/12-GF	1846182	50	
5.08 mm pitch, color: Green			
MDSTBV 2,5/ 2-GF-5,08	1845633	50	
MDSTBV 2,5/ 3-GF-5,08	1845646	50	
MDSTBV 2,5/ 4-GF-5,08	1845659	50	
MDSTBV 2,5/ 5-GF-5,08	1845662	50	
MDSTBV 2,5/ 6-GF-5,08	1845675	50	
MDSTBV 2,5/ 7-GF-5,08	1845688	50	
MDSTBV 2,5/ 8-GF-5,08	1845691	50	
MDSTBV 2,5/ 9-GF-5,08	1845701	50	
MDSTBV 2,5/10-GF-5,08	1845714	50	
MDSTBV 2,5/11-GF-5,08	1845727	50	
MDSTBV 2,5/12-GF-5,08	1845730	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Inverted header for the wave soldering processes



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 The inverted contact system is explained on page 34.
 Dimensional drawing of FLRP-ICV and PCB cutout can be found on page 838.
 Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

- Use in contact protected applications
- Horizontal and vertical design
- Versions with and without a threaded flange
- Pairs of guide rails can be used as a 90° board to board connection
- Combination with MSTB 2,5 headers for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products
- For various combination options with the MSTB 2,5 plug-in system, refer to page 34

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Reducing plug RPS Order No. 0201647	831
	Test plug MPS	831
	Marker cards SK 5,08/3,8	798
Only for ICV 2,5/...-G-5,08		
	Pair of guide rails for a PCB FLRP-ICV 80 Order No. 1808353	837

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 320 320 630
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 12 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1,4 / 1,2 x 0,5

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
IC 2,5/ 2-G-5,08	1786404	50	
IC 2,5/ 3-G-5,08	1786417	50	
IC 2,5/ 4-G-5,08	1786420	50	
IC 2,5/ 5-G-5,08	1786433	50	
IC 2,5/ 6-G-5,08	1786446	50	
IC 2,5/ 7-G-5,08	1786459	50	
IC 2,5/ 8-G-5,08	1786462	50	
IC 2,5/ 9-G-5,08	1786475	50	
IC 2,5/10-G-5,08	1786488	50	
IC 2,5/11-G-5,08	1786491	50	
IC 2,5/12-G-5,08	1786501	50	
IC 2,5/13-G-5,08	1786514	50	
IC 2,5/14-G-5,08	1786527	50	
IC 2,5/15-G-5,08	1786530	50	
IC 2,5/16-G-5,08	1786543	50	

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

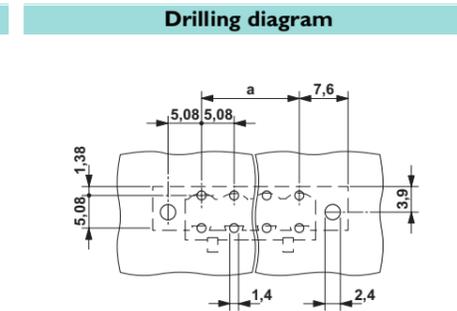
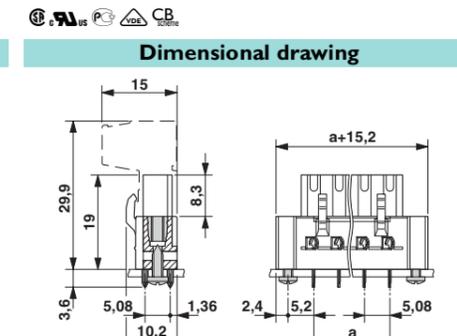
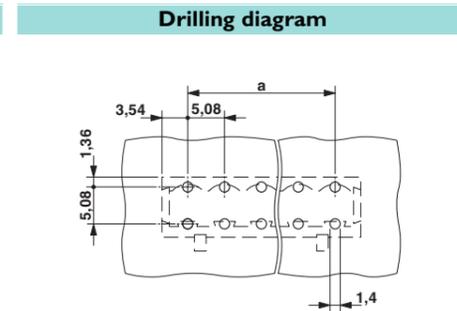
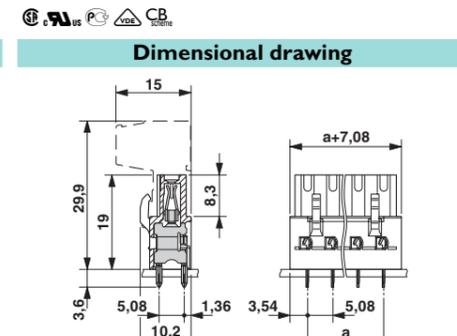
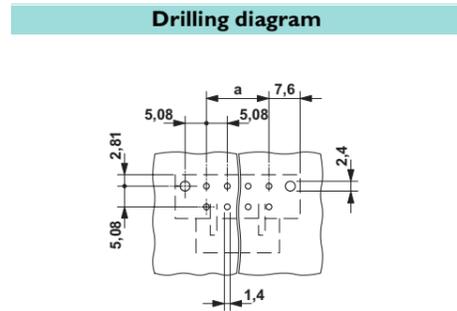
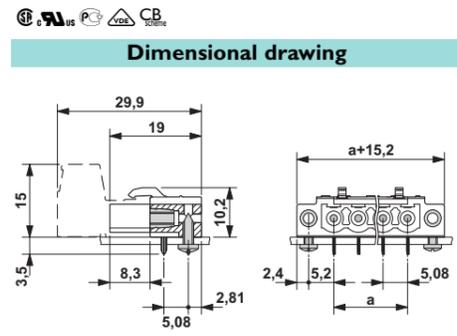
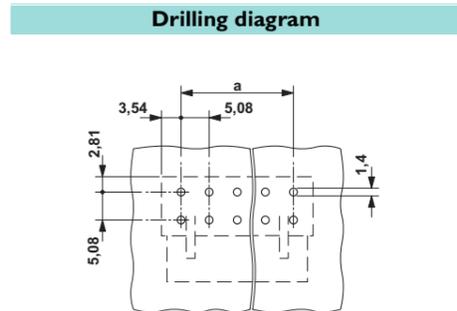
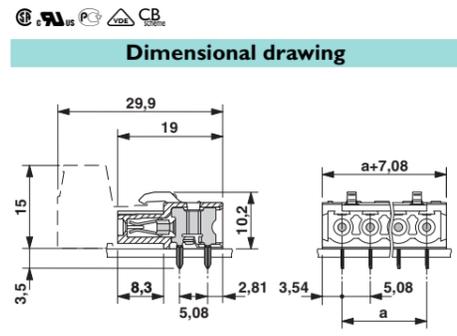


Plug-in direction parallel to the PCB

With threaded flange, plug-in direction parallel to the PCB

Plug-in direction vertical to the PCB

With threaded flange, plug-in direction vertical to the PCB

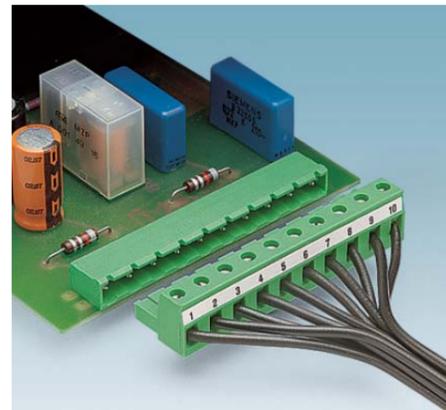


Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-GF-5,08	1825129	50
IC 2,5/ 3-GF-5,08	1825132	50
IC 2,5/ 4-GF-5,08	1825145	50
IC 2,5/ 5-GF-5,08	1825158	50
IC 2,5/ 6-GF-5,08	1825161	50
IC 2,5/ 7-GF-5,08	1825174	50
IC 2,5/ 8-GF-5,08	1825187	50
IC 2,5/ 9-GF-5,08	1825190	50
IC 2,5/10-GF-5,08	1825200	50
IC 2,5/11-GF-5,08	1825213	50
IC 2,5/12-GF-5,08	1825226	50
IC 2,5/13-GF-5,08	1825239	50
IC 2,5/14-GF-5,08	1825242	50
IC 2,5/15-GF-5,08	1825255	50
IC 2,5/16-GF-5,08	1825268	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5/ 2-G-5,08	1785942	50
ICV 2,5/ 3-G-5,08	1785955	50
ICV 2,5/ 4-G-5,08	1785968	50
ICV 2,5/ 5-G-5,08	1785971	50
ICV 2,5/ 6-G-5,08	1785984	50
ICV 2,5/ 7-G-5,08	1785997	50
ICV 2,5/ 8-G-5,08	1786006	50
ICV 2,5/ 9-G-5,08	1786019	50
ICV 2,5/10-G-5,08	1786022	50
ICV 2,5/11-G-5,08	1786035	50
ICV 2,5/12-G-5,08	1786048	50
ICV 2,5/13-G-5,08	1786051	50
ICV 2,5/14-G-5,08	1786064	50
ICV 2,5/15-G-5,08	1786077	50
ICV 2,5/16-G-5,08	1786080	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5/ 2-GF-5,08	1825695	50
ICV 2,5/ 3-GF-5,08	1825705	50
ICV 2,5/ 4-GF-5,08	1825718	50
ICV 2,5/ 5-GF-5,08	1825721	50
ICV 2,5/ 6-GF-5,08	1825734	50
ICV 2,5/ 7-GF-5,08	1825747	50
ICV 2,5/ 8-GF-5,08	1825750	50
ICV 2,5/ 9-GF-5,08	1825763	50
ICV 2,5/10-GF-5,08	1825776	50
ICV 2,5/11-GF-5,08	1825789	50
ICV 2,5/12-GF-5,08	1825792	50
ICV 2,5/13-GF-5,08	1825802	50
ICV 2,5/14-GF-5,08	1825815	50
ICV 2,5/15-GF-5,08	1825828	50
ICV 2,5/16-GF-5,08	1825831	50

Connector with a screw connection



- Plug components for 630 V applications (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange
- FRONT-GMSTB 2,5 connector, with front screw connection

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

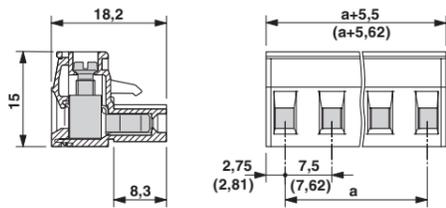
Accessories		
For all types	Type	Page
	Marker cards SK 7,5/3,8 or SK 7,62/3,8	799
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Only for FRONT-GMSTB 2,5/...-		
	Pullout aid for connectors arranged one after the other, width: 30 mm FRONT-MSTB-EW Order No. 1763058	



Connector with screw connection



Dimensional drawing



Note derating curves

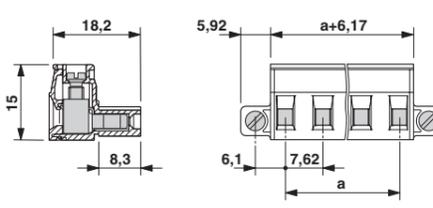
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



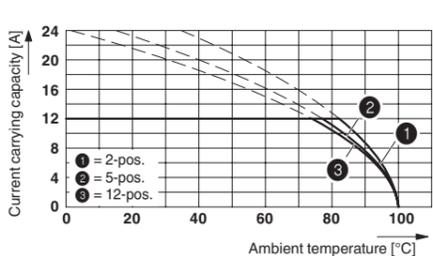
With screw flange



Dimensional drawing



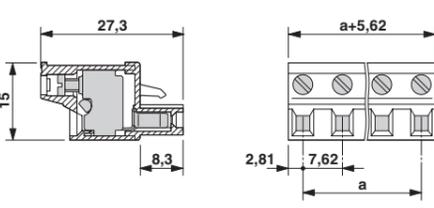
Representative derating curves of the above-mentioned plugs



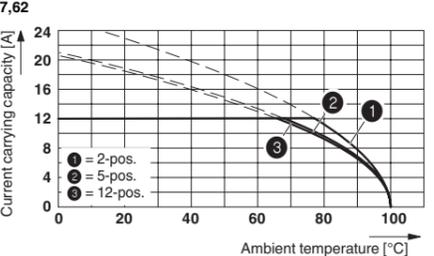
With front screw connection



Dimensional drawing



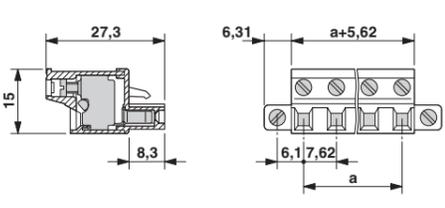
Representative derating curves of the above-mentioned plugs



With front screw connection and screw flange



Dimensional drawing



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.5 / 7.62
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	400 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	12 - 10
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMSTB 2,5/ 2-ST	1766880	50
GMSTB 2,5/ 3-ST	1766893	50
GMSTB 2,5/ 4-ST	1766903	50
GMSTB 2,5/ 5-ST	1766916	50
GMSTB 2,5/ 6-ST	1766929	50
GMSTB 2,5/ 7-ST	1766932	50
GMSTB 2,5/ 8-ST	1766945	50
GMSTB 2,5/ 9-ST	1766958	50
GMSTB 2,5/10-ST	1766961	50
GMSTB 2,5/11-ST	1766974	50
GMSTB 2,5/12-ST	1766987	50
Plugs, 7.62 mm pitch, color: Green		
GMSTB 2,5/ 2-ST-7,62	1766990	50
GMSTB 2,5/ 3-ST-7,62	1767012	50
GMSTB 2,5/ 4-ST-7,62	1767025	50
GMSTB 2,5/ 5-ST-7,62	1767038	50
GMSTB 2,5/ 6-ST-7,62	1767041	50
GMSTB 2,5/ 7-ST-7,62	1767054	50
GMSTB 2,5/ 8-ST-7,62	1767067	50
GMSTB 2,5/ 9-ST-7,62	1767070	50
GMSTB 2,5/10-ST-7,62	1767083	50
GMSTB 2,5/11-ST-7,62	1767096	50
GMSTB 2,5/12-ST-7,62	1767106	50

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-STF-7,62	1858772	50
GMSTB 2,5/ 3-STF-7,62	1858785	50
GMSTB 2,5/ 4-STF-7,62	1858798	50
GMSTB 2,5/ 5-STF-7,62	1858811	50
GMSTB 2,5/ 6-STF-7,62	1858824	50
GMSTB 2,5/ 7-STF-7,62	1858837	50
GMSTB 2,5/ 8-STF-7,62	1858850	50
GMSTB 2,5/ 9-STF-7,62	1858863	50
GMSTB 2,5/10-STF-7,62	1858876	50
GMSTB 2,5/11-STF-7,62	1858889	50
GMSTB 2,5/12-STF-7,62	1858902	50

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT-GMSTB 2,5/ 2-ST-7,62	1806119	50
FRONT-GMSTB 2,5/ 3-ST-7,62	1806122	50
FRONT-GMSTB 2,5/ 4-ST-7,62	1806135	50
FRONT-GMSTB 2,5/ 5-ST-7,62	1806148	50
FRONT-GMSTB 2,5/ 6-ST-7,62	1806151	50
FRONT-GMSTB 2,5/ 7-ST-7,62	1806164	50
FRONT-GMSTB 2,5/ 8-ST-7,62	1806177	50
FRONT-GMSTB 2,5/ 9-ST-7,62	1806180	50
FRONT-GMSTB 2,5/10-ST-7,62	1806193	50
FRONT-GMSTB 2,5/11-ST-7,62	1806203	50
FRONT-GMSTB 2,5/12-ST-7,62	1806216	50

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT-GMSTB 2,5/ 2-STF-7,62	1805987	50
FRONT-GMSTB 2,5/ 3-STF-7,62	1805990	50
FRONT-GMSTB 2,5/ 4-STF-7,62	1806009	50
FRONT-GMSTB 2,5/ 5-STF-7,62	1806038	50
FRONT-GMSTB 2,5/ 6-STF-7,62	1806041	50
FRONT-GMSTB 2,5/ 7-STF-7,62	1806054	50
FRONT-GMSTB 2,5/ 8-STF-7,62	1806067	50
FRONT-GMSTB 2,5/ 9-STF-7,62	1806070	50
FRONT-GMSTB 2,5/10-STF-7,62	1806083	50
FRONT-GMSTB 2,5/11-STF-7,62	1806096	50
FRONT-GMSTB 2,5/12-STF-7,62	1806106	50

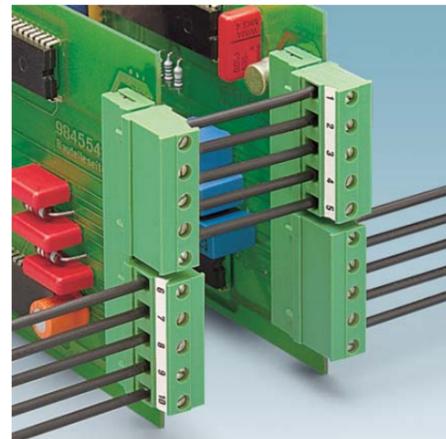
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT-GMSTB 2,5/ 2-STF-7,62	1805987	50
FRONT-GMSTB 2,5/ 3-STF-7,62	1805990	50
FRONT-GMSTB 2,5/ 4-STF-7,62	1806009	50
FRONT-GMSTB 2,5/ 5-STF-7,62	1806038	50
FRONT-GMSTB 2,5/ 6-STF-7,62	1806041	50
FRONT-GMSTB 2,5/ 7-STF-7,62	1806054	50
FRONT-GMSTB 2,5/ 8-STF-7,62	1806067	50
FRONT-GMSTB 2,5/ 9-STF-7,62	1806070	50
FRONT-GMSTB 2,5/10-STF-7,62	1806083	50
FRONT-GMSTB 2,5/11-STF-7,62	1806096	50
FRONT-GMSTB 2,5/12-STF-7,62	1806106	50

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT-GMSTB 2,5/ 2-STF-7,62	1805987	50
FRONT-GMSTB 2,5/ 3-STF-7,62	1805990	50
FRONT-GMSTB 2,5/ 4-STF-7,62	1806009	50
FRONT-GMSTB 2,5/ 5-STF-7,62	1806038	50
FRONT-GMSTB 2,5/ 6-STF-7,62	1806041	50
FRONT-GMSTB 2,5/ 7-STF-7,62	1806054	50
FRONT-GMSTB 2,5/ 8-STF-7,62	1806067	50
FRONT-GMSTB 2,5/ 9-STF-7,62	1806070	50
FRONT-GMSTB 2,5/10-STF-7,62	1806083	50
FRONT-GMSTB 2,5/11-STF-7,62	1806096	50
FRONT-GMSTB 2,5/12-STF-7,62	1806106	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 7.5 or 7.62 mm

Connector with a screw connection



- Plug components for 630 V applications (III/2)
- Plug-in direction vertical to the conductor axis
- Versions with a screw flange and a 7.62 mm pitch

GMVSTBR 2,5/...-ST

- Conductor entry on the coded side of the connector

GMVSTBW 2,5/...-ST

- Conductor entry on the rippled side of the connector

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Derating curves on request.

Accessories

For all types	Type	Page
	Marker cards SK 7,5/3,8 or SK 7,62/3,8	799
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

Technical data

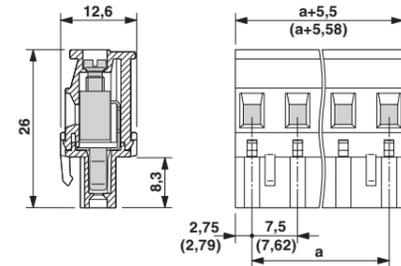
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.5 / 7.62
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	12 - 10
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

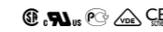
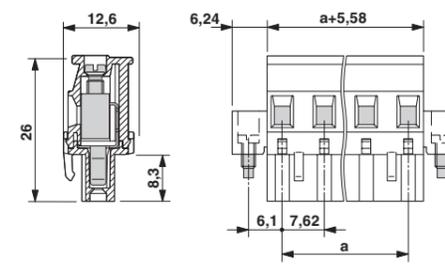
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMVSTBR 2,5/ 2-ST	1737709	50
GMVSTBR 2,5/ 3-ST	1737712	50
GMVSTBR 2,5/ 4-ST	1737725	50
GMVSTBR 2,5/ 5-ST	1737738	50
GMVSTBR 2,5/ 6-ST	1737741	50
GMVSTBR 2,5/ 7-ST	1737754	50
GMVSTBR 2,5/ 8-ST	1737767	50
GMVSTBR 2,5/ 9-ST	1737770	50
GMVSTBR 2,5/10-ST	1737783	50
GMVSTBR 2,5/11-ST	1737796	50
GMVSTBR 2,5/12-ST	1737806	50
Plugs, 7.62 mm pitch, color: Green		
GMVSTBR 2,5/ 2-ST-7,62	1832523	50
GMVSTBR 2,5/ 3-ST-7,62	1832536	50
GMVSTBR 2,5/ 4-ST-7,62	1832549	50
GMVSTBR 2,5/ 5-ST-7,62	1832552	50
GMVSTBR 2,5/ 6-ST-7,62	1832565	50
GMVSTBR 2,5/ 7-ST-7,62	1832578	50
GMVSTBR 2,5/ 8-ST-7,62	1832581	50
GMVSTBR 2,5/ 9-ST-7,62	1832594	50
GMVSTBR 2,5/10-ST-7,62	1832604	50
GMVSTBR 2,5/11-ST-7,62	1832617	50
GMVSTBR 2,5/12-ST-7,62	1832620	50



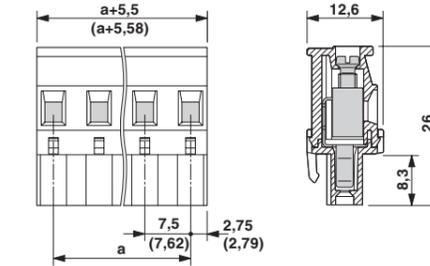
Dimensional drawing



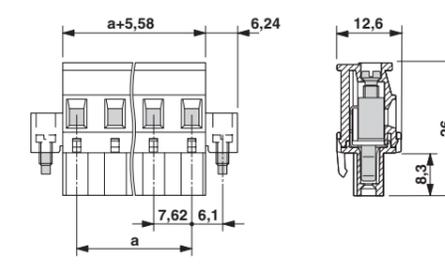
Dimensional drawing



Dimensional drawing



Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMVSTBR 2,5/ 2-ST	1737709	50
GMVSTBR 2,5/ 3-ST	1737712	50
GMVSTBR 2,5/ 4-ST	1737725	50
GMVSTBR 2,5/ 5-ST	1737738	50
GMVSTBR 2,5/ 6-ST	1737741	50
GMVSTBR 2,5/ 7-ST	1737754	50
GMVSTBR 2,5/ 8-ST	1737767	50
GMVSTBR 2,5/ 9-ST	1737770	50
GMVSTBR 2,5/10-ST	1737783	50
GMVSTBR 2,5/11-ST	1737796	50
GMVSTBR 2,5/12-ST	1737806	50
Plugs, 7.62 mm pitch, color: Green		
GMVSTBR 2,5/ 2-ST-7,62	1832523	50
GMVSTBR 2,5/ 3-ST-7,62	1832536	50
GMVSTBR 2,5/ 4-ST-7,62	1832549	50
GMVSTBR 2,5/ 5-ST-7,62	1832552	50
GMVSTBR 2,5/ 6-ST-7,62	1832565	50
GMVSTBR 2,5/ 7-ST-7,62	1832578	50
GMVSTBR 2,5/ 8-ST-7,62	1832581	50
GMVSTBR 2,5/ 9-ST-7,62	1832594	50
GMVSTBR 2,5/10-ST-7,62	1832604	50
GMVSTBR 2,5/11-ST-7,62	1832617	50
GMVSTBR 2,5/12-ST-7,62	1832620	50
Pitch 7.62 mm, color: Green		
GMVSTBR 2,5/ 2-STF-7,62	1847880	50
GMVSTBR 2,5/ 3-STF-7,62	1847893	50
GMVSTBR 2,5/ 4-STF-7,62	1847903	50
GMVSTBR 2,5/ 5-STF-7,62	1847916	50
GMVSTBR 2,5/ 6-STF-7,62	1847929	50
GMVSTBR 2,5/ 7-STF-7,62	1847932	50
GMVSTBR 2,5/ 8-STF-7,62	1847945	50
GMVSTBR 2,5/ 9-STF-7,62	1847958	50
GMVSTBR 2,5/10-STF-7,62	1847961	50
GMVSTBR 2,5/11-STF-7,62	1847974	50
GMVSTBR 2,5/12-STF-7,62	1847987	50

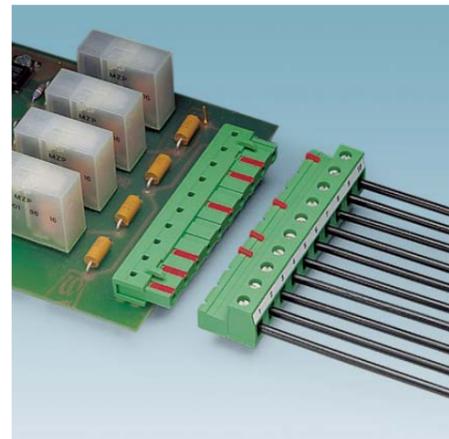
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMVSTBW 2,5/ 2-ST	1737819	50
GMVSTBW 2,5/ 3-ST	1737822	50
GMVSTBW 2,5/ 4-ST	1737835	50
GMVSTBW 2,5/ 5-ST	1737848	50
GMVSTBW 2,5/ 6-ST	1737851	50
GMVSTBW 2,5/ 7-ST	1737864	50
GMVSTBW 2,5/ 8-ST	1737877	50
GMVSTBW 2,5/ 9-ST	1737880	50
GMVSTBW 2,5/10-ST	1737893	50
GMVSTBW 2,5/11-ST	1737903	50
GMVSTBW 2,5/12-ST	1737916	50
Plugs, 7.62 mm pitch, color: Green		
GMVSTBW 2,5/ 2-STF-7,62	1832413	50
GMVSTBW 2,5/ 3-STF-7,62	1832426	50
GMVSTBW 2,5/ 4-STF-7,62	1832439	50
GMVSTBW 2,5/ 5-STF-7,62	1832442	50
GMVSTBW 2,5/ 6-STF-7,62	1832455	50
GMVSTBW 2,5/ 7-STF-7,62	1832468	50
GMVSTBW 2,5/ 8-STF-7,62	1832471	50
GMVSTBW 2,5/ 9-STF-7,62	1832484	50
GMVSTBW 2,5/10-STF-7,62	1832497	50
GMVSTBW 2,5/11-STF-7,62	1832507	50
GMVSTBW 2,5/12-STF-7,62	1832510	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBW 2,5/ 2-STF-7,62	1847990	50
GMVSTBW 2,5/ 3-STF-7,62	1848009	50
GMVSTBW 2,5/ 4-STF-7,62	1848012	50
GMVSTBW 2,5/ 5-STF-7,62	1848025	50
GMVSTBW 2,5/ 6-STF-7,62	1848038	50
GMVSTBW 2,5/ 7-STF-7,62	1848041	50
GMVSTBW 2,5/ 8-STF-7,62	1848054	50
GMVSTBW 2,5/ 9-STF-7,62	1848067	50
GMVSTBW 2,5/10-STF-7,62	1848070	50
GMVSTBW 2,5/11-STF-7,62	1848083	50
GMVSTBW 2,5/12-STF-7,62	1848096	50

Inverted connectors with a screw connection



- Connector for 630 V shock-proof applications (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange/threaded flange
- For various combination options with GMSTB 2,5 plug-in system, refer to page 34

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.



Inverted connector with screw connection

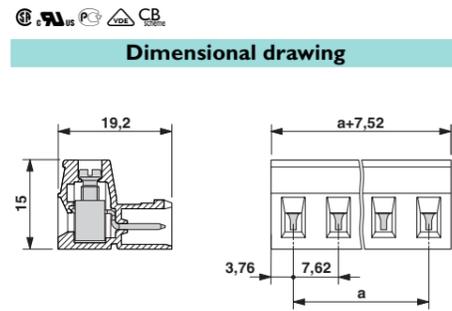


With screw flange, for screw connection using inverted headers

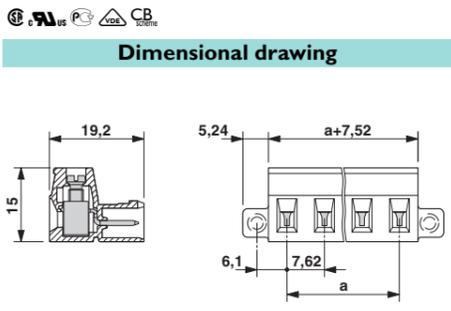
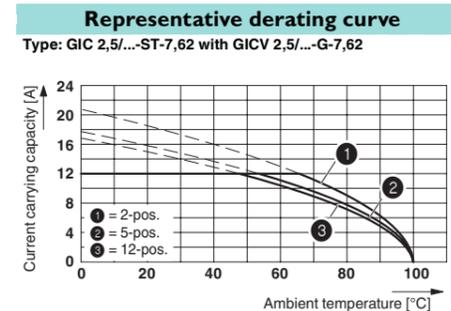
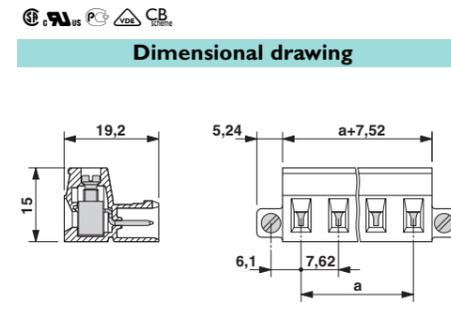


With threaded flange for screw connection using GMSTB connectors

Accessories		
For all types	Type	Page
	Marker cards SK 7,62/3,8	799
	Keying section CR-MSTB Order No. 1734401	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Keying tab MSTB-BL Order No. 1755477	837



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	400 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	12 - 10
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-ST-7,62	1828809	50
GIC 2,5/ 3-ST-7,62	1828812	50
GIC 2,5/ 4-ST-7,62	1828825	50
GIC 2,5/ 5-ST-7,62	1828838	50
GIC 2,5/ 6-ST-7,62	1828841	50
GIC 2,5/ 7-ST-7,62	1828854	50
GIC 2,5/ 8-ST-7,62	1828867	50
GIC 2,5/ 9-ST-7,62	1828870	50
GIC 2,5/10-ST-7,62	1828883	50
GIC 2,5/11-ST-7,62	1828896	50
GIC 2,5/12-ST-7,62	1828906	50

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-STF-7,62	1858879	50
GIC 2,5/ 3-STF-7,62	1858882	50
GIC 2,5/ 4-STF-7,62	1858895	50
GIC 2,5/ 5-STF-7,62	1858905	50
GIC 2,5/ 6-STF-7,62	1858918	50
GIC 2,5/ 7-STF-7,62	1858921	50
GIC 2,5/ 8-STF-7,62	1858934	50
GIC 2,5/ 9-STF-7,62	1858947	50
GIC 2,5/10-STF-7,62	1858950	50
GIC 2,5/11-STF-7,62	1858963	50
GIC 2,5/12-STF-7,62	1858976	50

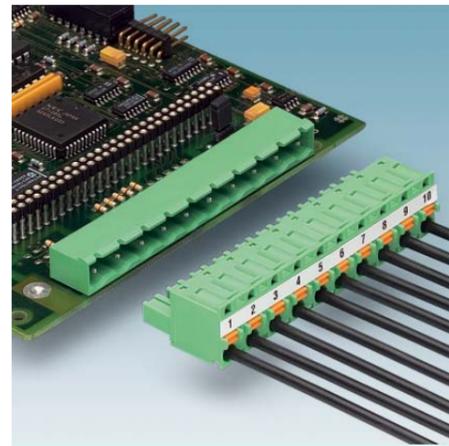
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-STGF-7,62	1849888	50
GIC 2,5/ 3-STGF-7,62	1849891	50
GIC 2,5/ 4-STGF-7,62	1849901	50
GIC 2,5/ 5-STGF-7,62	1849914	50
GIC 2,5/ 6-STGF-7,62	1849927	50
GIC 2,5/ 7-STGF-7,62	1849930	50
GIC 2,5/ 8-STGF-7,62	1849943	50
GIC 2,5/ 9-STGF-7,62	1849956	50
GIC 2,5/10-STGF-7,62	1849969	50
GIC 2,5/11-STGF-7,62	1849972	50
GIC 2,5/12-STGF-7,62	1849985	50

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-STGF-7,62	1849888	50
GIC 2,5/ 3-STGF-7,62	1849891	50
GIC 2,5/ 4-STGF-7,62	1849901	50
GIC 2,5/ 5-STGF-7,62	1849914	50
GIC 2,5/ 6-STGF-7,62	1849927	50
GIC 2,5/ 7-STGF-7,62	1849930	50
GIC 2,5/ 8-STGF-7,62	1849943	50
GIC 2,5/ 9-STGF-7,62	1849956	50
GIC 2,5/10-STGF-7,62	1849969	50
GIC 2,5/11-STGF-7,62	1849972	50
GIC 2,5/12-STGF-7,62	1849985	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 7.5 or 7.62 mm

Plug with push-in spring connection



- Convenient conductor connection, thanks to push-in spring connection for 630 V applications
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 The maximum torque for the screw flange is 0.3 Nm.
 1) Please observe the derating curves. Derating curves of further combination options on request.

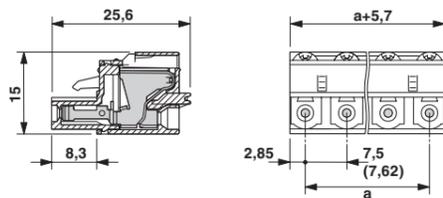
Accessories		
For all types	Type	Page
	Marker cards SK 7,5/3,8 or SK 7,62/3,8	799
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Test plug MPS	831



Plug with push-in spring connection



Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Ordering data

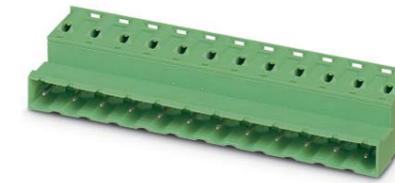
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GFKC 2,5/ 2-ST-7,5	1939413	50
GFKC 2,5/ 3-ST-7,5	1939426	50
GFKC 2,5/ 4-ST-7,5	1939439	50
GFKC 2,5/ 5-ST-7,5	1939442	50
GFKC 2,5/ 6-ST-7,5	1939455	50
GFKC 2,5/ 7-ST-7,5	1939468	50
GFKC 2,5/ 8-ST-7,5	1939471	50
GFKC 2,5/ 9-ST-7,5	1939484	50
GFKC 2,5/10-ST-7,5	1939497	50
GFKC 2,5/11-ST-7,5	1939507	50
GFKC 2,5/12-ST-7,5	1939510	50
Pitch 7.62 mm, color: Green		
GFKC 2,5/ 2-ST-7,62	1939633	50
GFKC 2,5/ 3-ST-7,62	1939646	50
GFKC 2,5/ 4-ST-7,62	1939659	50
GFKC 2,5/ 5-ST-7,62	1939662	50
GFKC 2,5/ 6-ST-7,62	1939675	50
GFKC 2,5/ 7-ST-7,62	1939688	50
GFKC 2,5/ 8-ST-7,62	1939691	50
GFKC 2,5/ 9-ST-7,62	1939701	50
GFKC 2,5/10-ST-7,62	1939714	50
GFKC 2,5/11-ST-7,62	1939727	50
GFKC 2,5/12-ST-7,62	1939730	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 7.5 or 7.62 mm



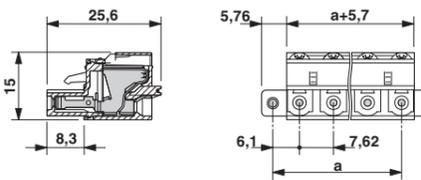
With screw flange



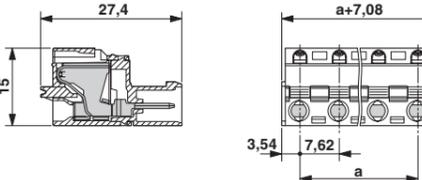
Inverted connector with male contact



Dimensional drawing

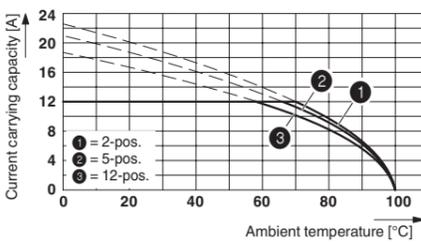


Dimensional drawing



Representative derating curve

Type: GFKC 2,5/...-ST with GMSTBA 2,5/...-G



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GFKC 2,5/ 2-STF-7,62	1939743	50
GFKC 2,5/ 3-STF-7,62	1939756	50
GFKC 2,5/ 4-STF-7,62	1939769	50
GFKC 2,5/ 5-STF-7,62	1939772	50
GFKC 2,5/ 6-STF-7,62	1939785	50
GFKC 2,5/ 7-STF-7,62	1939798	50
GFKC 2,5/ 8-STF-7,62	1939808	50
GFKC 2,5/ 9-STF-7,62	1939811	50
GFKC 2,5/10-STF-7,62	1939824	50
GFKC 2,5/11-STF-7,62	1939837	50
GFKC 2,5/12-STF-7,62	1939840	50

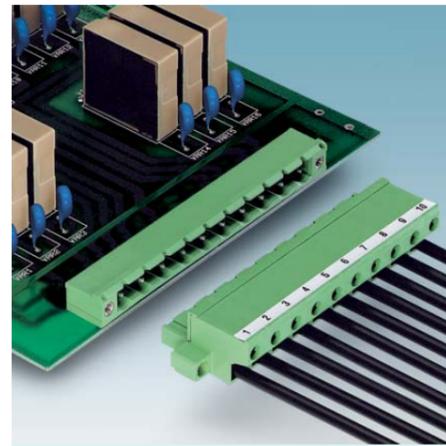
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GFKIC 2,5/ 2-ST-7,62	1761603	50
GFKIC 2,5/ 3-ST-7,62	1761616	50
GFKIC 2,5/ 4-ST-7,62	1761629	50
GFKIC 2,5/ 5-ST-7,62	1761632	50
GFKIC 2,5/ 6-ST-7,62	1761645	50
GFKIC 2,5/ 7-ST-7,62	1761658	50
GFKIC 2,5/ 8-ST-7,62	1761661	50
GFKIC 2,5/ 9-ST-7,62	1761674	50
GFKIC 2,5/10-ST-7,62	1761687	50
GFKIC 2,5/11-ST-7,62	1761690	50
GFKIC 2,5/12-ST-7,62	1761700	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 7.5 or 7.62 mm

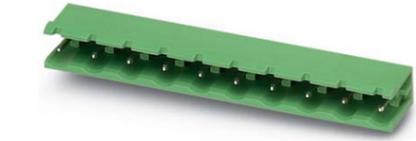
Single-level header for the wave soldering processes



- Headers with angled solder pins for 630 V applications (III/2)
- Plug-in direction parallel to the PCB
- Versions with and without side panels
- Versions with a threaded flange and a 7.62 mm pitch
- Other pin lengths available on request

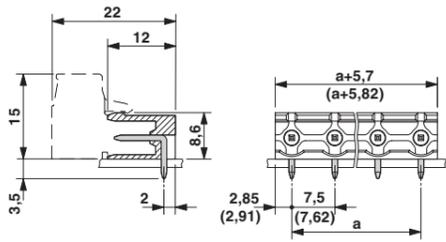
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories		
For all types	Type	Page
	Marker cards SK 7,5/3,8 or SK 7,62/3,8	799
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
Only for GMSTB 2,5/...-G		
	Mounting flange MSTB-BF Order No. 1759981	836

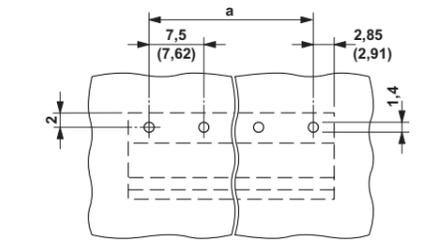


Without side panels, plug-in direction parallel to the PCB

Dimensional drawing

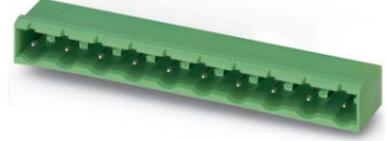


Drilling diagram



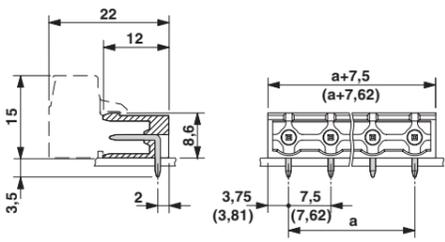
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green				
2	7.50	GMSTB 2,5/ 2-G	1766013	50
3	15.00	GMSTB 2,5/ 3-G	1766026	50
4	22.50	GMSTB 2,5/ 4-G	1766039	50
5	30.00	GMSTB 2,5/ 5-G	1766042	50
6	37.50	GMSTB 2,5/ 6-G	1766055	50
7	45.00	GMSTB 2,5/ 7-G	1766068	50
8	52.50	GMSTB 2,5/ 8-G	1766071	50
9	60.00	GMSTB 2,5/ 9-G	1766084	50
10	67.50	GMSTB 2,5/10-G	1766097	50
11	75.00	GMSTB 2,5/11-G	1766107	50
12	82.50	GMSTB 2,5/12-G	1766110	50
Pitch 7.62 mm, color: Green				
2	7.62	GMSTB 2,5/ 2-G-7,62	1766123	50
3	15.24	GMSTB 2,5/ 3-G-7,62	1766136	50
4	22.86	GMSTB 2,5/ 4-G-7,62	1766149	50
5	30.48	GMSTB 2,5/ 5-G-7,62	1766152	50
6	38.10	GMSTB 2,5/ 6-G-7,62	1766165	50
7	45.72	GMSTB 2,5/ 7-G-7,62	1766178	50
8	53.34	GMSTB 2,5/ 8-G-7,62	1766181	50
9	60.96	GMSTB 2,5/ 9-G-7,62	1766194	50
10	68.58	GMSTB 2,5/10-G-7,62	1766204	50
11	76.20	GMSTB 2,5/11-G-7,62	1766217	50
12	83.82	GMSTB 2,5/12-G-7,62	1766220	50

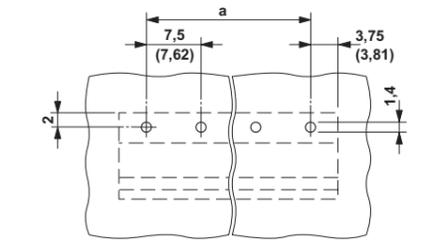


With side panels, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



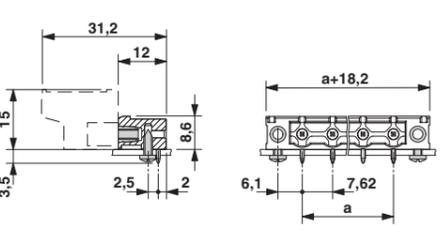
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMSTBA 2,5/ 2-G	1766343	250
GMSTBA 2,5/ 3-G	1766356	250
GMSTBA 2,5/ 4-G	1766369	250
GMSTBA 2,5/ 5-G	1766372	250
GMSTBA 2,5/ 6-G	1766385	100
GMSTBA 2,5/ 7-G	1766398	100
GMSTBA 2,5/ 8-G	1766408	100
GMSTBA 2,5/ 9-G	1766411	100
GMSTBA 2,5/10-G	1766424	100
GMSTBA 2,5/11-G	1766437	50
GMSTBA 2,5/12-G	1766440	50
Pitch 7.62 mm, color: Green		
GMSTBA 2,5/ 2-G-7,62	1766233	250
GMSTBA 2,5/ 3-G-7,62	1766246	250
GMSTBA 2,5/ 4-G-7,62	1766259	250
GMSTBA 2,5/ 5-G-7,62	1766262	250
GMSTBA 2,5/ 6-G-7,62	1766275	100
GMSTBA 2,5/ 7-G-7,62	1766288	100
GMSTBA 2,5/ 8-G-7,62	1766291	100
GMSTBA 2,5/ 9-G-7,62	1766301	100
GMSTBA 2,5/10-G-7,62	1766314	100
GMSTBA 2,5/11-G-7,62	1766327	50
GMSTBA 2,5/12-G-7,62	1766330	50

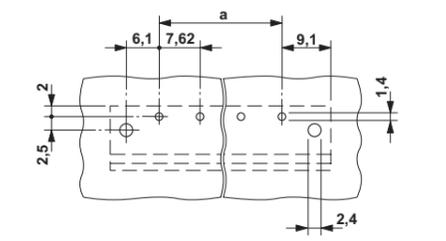


With threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-GF-7,62	1806229	50
GMSTB 2,5/ 3-GF-7,62	1806232	50
GMSTB 2,5/ 4-GF-7,62	1806245	50
GMSTB 2,5/ 5-GF-7,62	1806258	50
GMSTB 2,5/ 6-GF-7,62	1806261	50
GMSTB 2,5/ 7-GF-7,62	1806274	50
GMSTB 2,5/ 8-GF-7,62	1806287	50
GMSTB 2,5/ 9-GF-7,62	1806290	50
GMSTB 2,5/10-GF-7,62	1806300	50
GMSTB 2,5/11-GF-7,62	1806313	50
GMSTB 2,5/12-GF-7,62	1806326	50

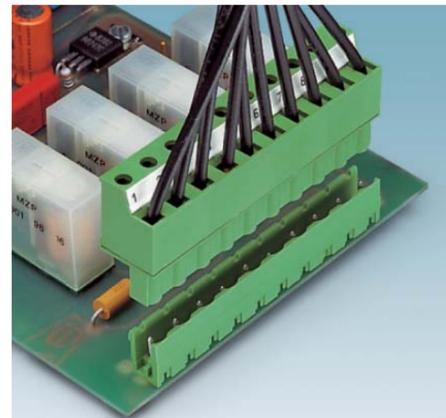
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.5 / 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 630 630
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 12 - 10
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1,4 / 1 x 1 mm

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 7.5 or 7.62 mm

Single-level header for the wave soldering processes



- Headers with straight solder pins for 630 V applications (III/2)
- Plug-in direction vertical to the PCB
- Versions with and without side panels, as well as with and without threaded flange
- Versions with a threaded flange and a 7.62 mm pitch
- Other pin lengths available on request

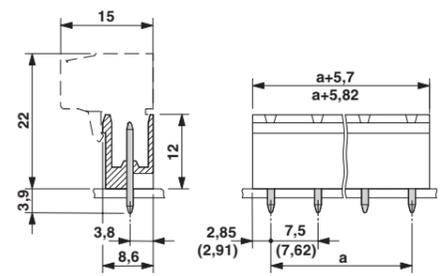
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories		
For all types	Type	Page
	Marker cards SK 7,5/3,8 or SK 7,62/3,8	799
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
Only for GMSTBV 2,5/...-G		
	Mounting flange MSTB-BF Order No. 1759981	836

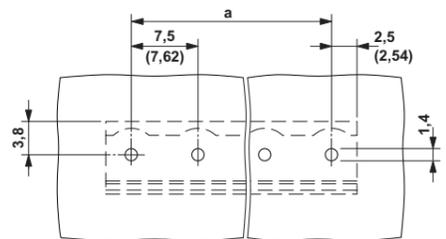


Without side panels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



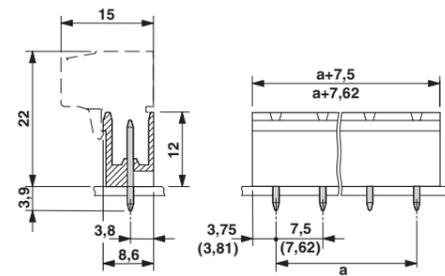
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMSTBV 2,5/ 2-G	1766453	50
GMSTBV 2,5/ 3-G	1766466	50
GMSTBV 2,5/ 4-G	1766479	50
GMSTBV 2,5/ 5-G	1766482	50
GMSTBV 2,5/ 6-G	1766495	50
GMSTBV 2,5/ 7-G	1766505	50
GMSTBV 2,5/ 8-G	1766518	50
GMSTBV 2,5/ 9-G	1766521	50
GMSTBV 2,5/10-G	1766534	50
GMSTBV 2,5/11-G	1766547	50
GMSTBV 2,5/12-G	1766550	50
Headers, 7.62 mm pitch, color: Green		
GMSTBV 2,5/ 2-G-7,62	1766563	50
GMSTBV 2,5/ 3-G-7,62	1766576	50
GMSTBV 2,5/ 4-G-7,62	1766589	50
GMSTBV 2,5/ 5-G-7,62	1766592	50
GMSTBV 2,5/ 6-G-7,62	1766602	50
GMSTBV 2,5/ 7-G-7,62	1766615	50
GMSTBV 2,5/ 8-G-7,62	1766628	50
GMSTBV 2,5/ 9-G-7,62	1766631	50
GMSTBV 2,5/10-G-7,62	1766644	50
GMSTBV 2,5/11-G-7,62	1766657	50
GMSTBV 2,5/12-G-7,62	1767119	50

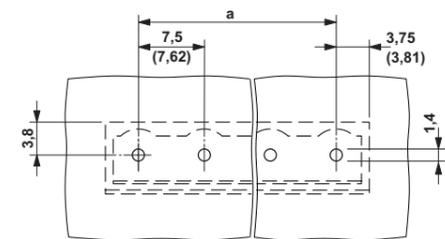


With side panels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



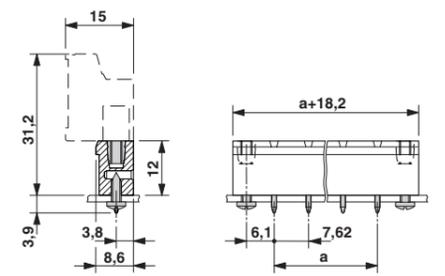
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMSTBVA 2,5/ 2-G	1766660	250
GMSTBVA 2,5/ 3-G	1766673	250
GMSTBVA 2,5/ 4-G	1766686	250
GMSTBVA 2,5/ 5-G	1766699	250
GMSTBVA 2,5/ 6-G	1766709	100
GMSTBVA 2,5/ 7-G	1766712	100
GMSTBVA 2,5/ 8-G	1766725	100
GMSTBVA 2,5/ 9-G	1766738	100
GMSTBVA 2,5/10-G	1766741	100
GMSTBVA 2,5/11-G	1766754	50
GMSTBVA 2,5/12-G	1766767	50
Pitch 7.62 mm, color: Green		
GMSTBVA 2,5/ 2-G-7,62	1766770	250
GMSTBVA 2,5/ 3-G-7,62	1766783	250
GMSTBVA 2,5/ 4-G-7,62	1766796	250
GMSTBVA 2,5/ 5-G-7,62	1766806	250
GMSTBVA 2,5/ 6-G-7,62	1766819	100
GMSTBVA 2,5/ 7-G-7,62	1766822	100
GMSTBVA 2,5/ 8-G-7,62	1766835	100
GMSTBVA 2,5/ 9-G-7,62	1766848	100
GMSTBVA 2,5/10-G-7,62	1766851	100
GMSTBVA 2,5/11-G-7,62	1766864	50
GMSTBVA 2,5/12-G-7,62	1766877	50

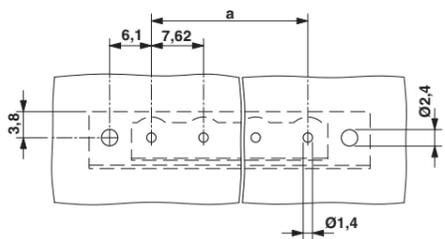


With threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBV 2,5/ 2-GF-7,62	1829154	50
GMSTBV 2,5/ 3-GF-7,62	1829167	50
GMSTBV 2,5/ 4-GF-7,62	1829170	50
GMSTBV 2,5/ 5-GF-7,62	1829183	50
GMSTBV 2,5/ 6-GF-7,62	1829196	50
GMSTBV 2,5/ 7-GF-7,62	1829206	50
GMSTBV 2,5/ 8-GF-7,62	1829219	50
GMSTBV 2,5/ 9-GF-7,62	1829222	50
GMSTBV 2,5/10-GF-7,62	1829235	50
GMSTBV 2,5/11-GF-7,62	1829248	50
GMSTBV 2,5/12-GF-7,62	1829251	50

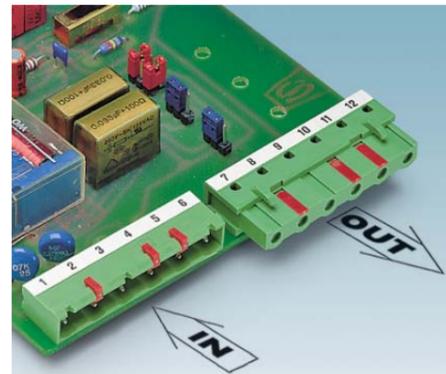
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.5 / 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 630 630
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 12 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1,4 / 1 x 1 mm

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors, pitches 7.5 or 7.62 mm

Inverted header for the wave soldering processes



- Use in shock-proof applications up to 630 V (III/2)
- Horizontal and vertical plug-in direction
- Versions with and without a threaded flange
- Pairs of guide rails can be used as a 90° board to board connection
- Combination with GMSTB 2,5 headers for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- For various combination options with GMSTB 2,5 plug-in system, refer to page 34

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Dimensional drawing of FLRP-ICV and PCB cutout can be found on page 838

Mounting screws for GIC 2,5/...-GF-7,62 and GICV 2,5/...-GF-7,62: sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

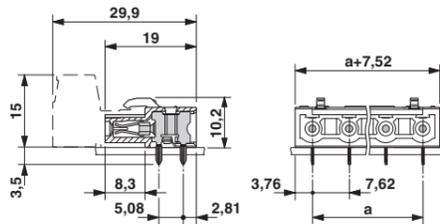
Accessories		
For all types	Type	Page
	Marker cards SK 7,62/3,8	799
	Keying profile CP-MSTB Order No. 1734634	38
	Reducing plug RPS Order No. 0201647	831
	Test plug MPS	831
Only for GICV 2,5/...-G-7,62		
	Pair of guide rails for a PCB FLRP-ICV 80 Order No. 1808353	837



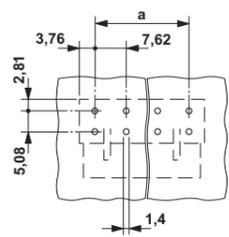
Plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram



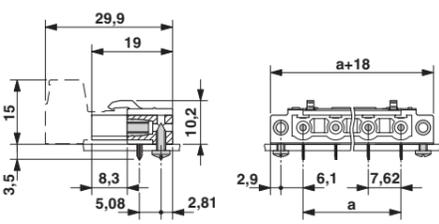
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
GIC 2,5/ 2-G-7,62	1828676	50	
GIC 2,5/ 3-G-7,62	1828689	50	
GIC 2,5/ 4-G-7,62	1828692	50	
GIC 2,5/ 5-G-7,62	1828702	50	
GIC 2,5/ 6-G-7,62	1828715	50	
GIC 2,5/ 7-G-7,62	1828728	50	
GIC 2,5/ 8-G-7,62	1828731	50	
GIC 2,5/ 9-G-7,62	1828744	50	
GIC 2,5/10-G-7,62	1828757	50	
GIC 2,5/11-G-7,62	1828760	50	
GIC 2,5/12-G-7,62	1828773	50	



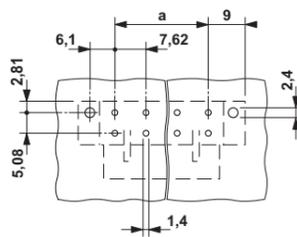
With threaded flange, plug-in direction parallel to the PCB



Dimensional drawing



Drilling diagram



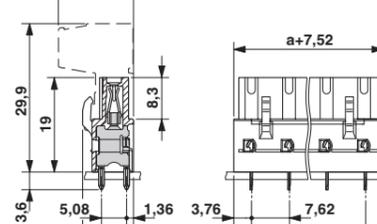
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
GIC 2,5/ 2-GF-7,62	1858989	50	
GIC 2,5/ 3-GF-7,62	1858992	50	
GIC 2,5/ 4-GF-7,62	1859001	50	
GIC 2,5/ 5-GF-7,62	1859014	50	
GIC 2,5/ 6-GF-7,62	1859027	50	
GIC 2,5/ 7-GF-7,62	1859030	50	
GIC 2,5/ 8-GF-7,62	1859043	50	
GIC 2,5/ 9-GF-7,62	1859056	50	
GIC 2,5/10-GF-7,62	1859069	50	
GIC 2,5/11-GF-7,62	1859072	50	
GIC 2,5/12-GF-7,62	1859085	50	



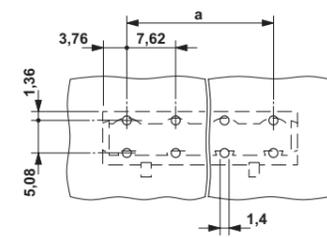
Plug-in direction vertical to the PCB



Dimensional drawing



Drilling diagram



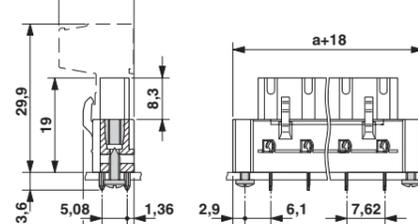
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
GICV 2,5/ 2-G-7,62	1828919	50	
GICV 2,5/ 3-G-7,62	1828922	50	
GICV 2,5/ 4-G-7,62	1828935	50	
GICV 2,5/ 5-G-7,62	1828948	50	
GICV 2,5/ 6-G-7,62	1828951	50	
GICV 2,5/ 7-G-7,62	1828964	50	
GICV 2,5/ 8-G-7,62	1828977	50	
GICV 2,5/ 9-G-7,62	1828980	50	
GICV 2,5/10-G-7,62	1828993	50	
GICV 2,5/11-G-7,62	1829002	50	
GICV 2,5/12-G-7,62	1829015	50	



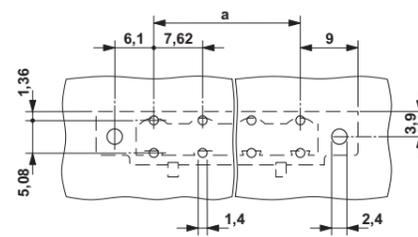
With threaded flange, plug-in direction vertical to the PCB



Dimensional drawing



Drilling diagram



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
GICV 2,5/ 2-GF-7,62	1859098	50	
GICV 2,5/ 3-GF-7,62	1859108	50	
GICV 2,5/ 4-GF-7,62	1859111	50	
GICV 2,5/ 5-GF-7,62	1859124	50	
GICV 2,5/ 6-GF-7,62	1859137	50	
GICV 2,5/ 7-GF-7,62	1859140	50	
GICV 2,5/ 8-GF-7,62	1859153	50	
GICV 2,5/ 9-GF-7,62	1859166	50	
GICV 2,5/10-GF-7,62	1859179	50	
GICV 2,5/11-GF-7,62	1859182	50	
GICV 2,5/12-GF-7,62	1859195	50	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 500 630 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 12 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 1,2 x 0,5

Feed-through assembly frame

Notes:
 Cutout dimensions b and c can be found on page 838.
 IC 2,5/...-STGF-5,08 connectors, see page 273.



- Feed-through assembly frame for inverted IC 2,5/...-STGF-5,08 COMBICON connectors
- The frame can be inserted and screwed into the cutout
- Snap-locking the IC plug component into the frame
- Fitting the MSTB 2,5/...-STF-5,08 connector from outside
- Vibration-resistant screwing of the two plug components using a screw flange
- Up to a wall thickness of 1.5 mm, the frame can be screwed before the IC connector is mounted

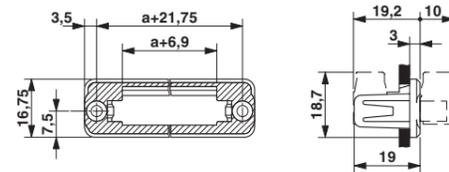


For snapping in the IC 2,5/...-STGF-5,08 inverted connector, for wall thicknesses from 0.5 to 4.5 mm

Accessories

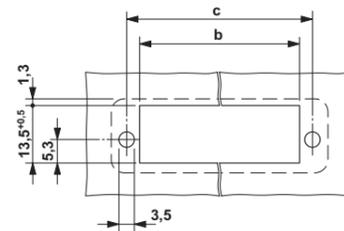
For all types	Type	Page
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263	

Dimensional drawing



Drilling diagram

Dimension b: 10.84 mm + (no. of pos. x 5.08 mm)
 Dimension c: Dim. b + 5.83 mm



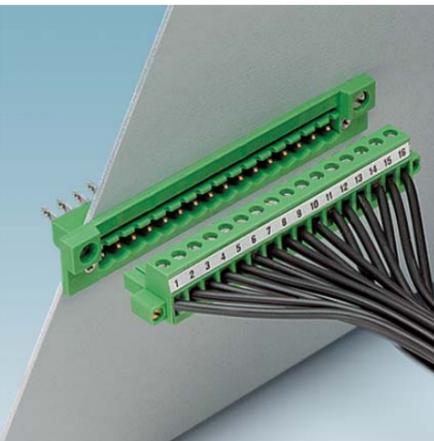
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green				
2	5.08	IC-DFR 2	1852024	50
3	10.16	IC-DFR 3	1852037	50
4	15.24	IC-DFR 4	1852040	50
5	20.32	IC-DFR 5	1852053	50
6	25.40	IC-DFR 6	1852066	50
7	30.48	IC-DFR 7	1852079	50
8	35.56	IC-DFR 8	1852082	50
9	40.64	IC-DFR 9	1852095	50
10	45.72	IC-DFR 10	1852105	50
11	50.80	IC-DFR 11	1852118	50
12	55.88	IC-DFR 12	1852121	50
13	60.96	IC-DFR 13	1852134	50
14	66.04	IC-DFR 14	1852147	50
15	71.12	IC-DFR 15	1852150	50
16	76.20	IC-DFR 16	1852163	50

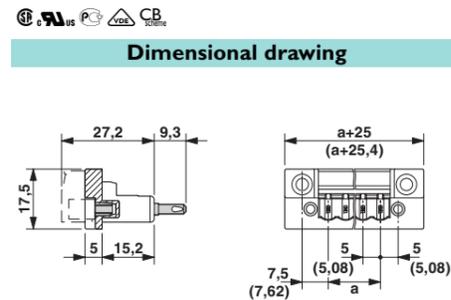
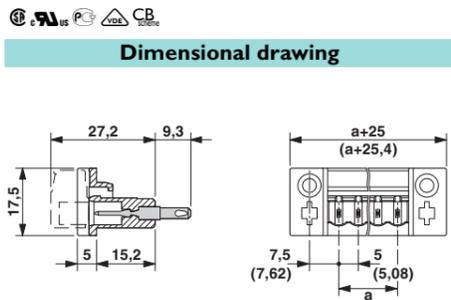
Feed-through housing



- Header for assembly in a device/housing panel
- Outside: Plug-in connection for corresponding MSTB 2,5 or FKC 2,5 connectors
- Internally combinable solder or 2.8 mm slip-on connection
- Versions with and without a threaded flange
- Can be fixed in housing walls up to 6 mm thick using two M3 x 10 screws

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 For cutout dimensions see page 838.
 1) When using the spade connection, the rated current is 7.5 A.

Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263	
Only for DFK-MSTB 2,5/...-G		
	Ticks for snapping on the MSTB(T) connectors DFK-MSTB-R Order No. 5030172	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	320 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	15 - 15
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V2
Slip-on connection (DIN 46249-1) [A]/[mm]	- / 2,8 x 0,8 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
DFK-MSTB 2,5/ 2-G	0707109	50	
DFK-MSTB 2,5/ 3-G	0707112	50	
DFK-MSTB 2,5/ 4-G	0707125	50	
DFK-MSTB 2,5/ 5-G	0707138	50	
DFK-MSTB 2,5/ 6-G	0707141	50	
DFK-MSTB 2,5/ 7-G	0707154	50	
DFK-MSTB 2,5/ 8-G	0707060	50	
DFK-MSTB 2,5/ 9-G	0707167	50	
DFK-MSTB 2,5/10-G	0707170	50	
DFK-MSTB 2,5/11-G	0707183	50	
DFK-MSTB 2,5/12-G	0707196	50	
DFK-MSTB 2,5/13-G	0707206	50	
DFK-MSTB 2,5/14-G	0707219	50	
DFK-MSTB 2,5/15-G	0707222	50	
DFK-MSTB 2,5/16-G	0707235	50	
5.08 mm pitch, color: Green			
DFK-MSTB 2,5/ 2-G-5,08	0707248	50	
DFK-MSTB 2,5/ 3-G-5,08	0707251	50	
DFK-MSTB 2,5/ 4-G-5,08	0707264	50	
DFK-MSTB 2,5/ 5-G-5,08	0707277	50	
DFK-MSTB 2,5/ 6-G-5,08	0707280	50	
DFK-MSTB 2,5/ 7-G-5,08	0707293	50	
DFK-MSTB 2,5/ 8-G-5,08	0707057	50	
DFK-MSTB 2,5/ 9-G-5,08	0707303	50	
DFK-MSTB 2,5/10-G-5,08	0707316	50	
DFK-MSTB 2,5/11-G-5,08	0707329	50	
DFK-MSTB 2,5/12-G-5,08	0707332	50	
DFK-MSTB 2,5/13-G-5,08	0707345	50	
DFK-MSTB 2,5/14-G-5,08	0707358	50	
DFK-MSTB 2,5/15-G-5,08	0707361	50	
DFK-MSTB 2,5/16-G-5,08	0707374	50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
DFK-MSTB 2,5/ 2-GF	0710028	50
DFK-MSTB 2,5/ 3-GF	0710031	50
DFK-MSTB 2,5/ 4-GF	0710044	50
DFK-MSTB 2,5/ 5-GF	0710057	1
DFK-MSTB 2,5/ 6-GF	0710060	50
DFK-MSTB 2,5/ 7-GF	0710073	50
DFK-MSTB 2,5/ 8-GF	0710086	50
DFK-MSTB 2,5/ 9-GF	0710099	50
DFK-MSTB 2,5/10-GF	0710109	50
DFK-MSTB 2,5/11-GF	0710112	50
DFK-MSTB 2,5/12-GF	0710125	50
DFK-MSTB 2,5/13-GF	0710138	50
DFK-MSTB 2,5/14-GF	0710141	50
DFK-MSTB 2,5/15-GF	0710154	50
DFK-MSTB 2,5/16-GF	0710167	50
5.08 mm pitch, color: Green		
DFK-MSTB 2,5/ 2-GF-5,08	0710170	50
DFK-MSTB 2,5/ 3-GF-5,08	0710183	50
DFK-MSTB 2,5/ 4-GF-5,08	0710196	50
DFK-MSTB 2,5/ 5-GF-5,08	0710206	50
DFK-MSTB 2,5/ 6-GF-5,08	0710219	50
DFK-MSTB 2,5/ 7-GF-5,08	0710222	50
DFK-MSTB 2,5/ 8-GF-5,08	0710235	50
DFK-MSTB 2,5/ 9-GF-5,08	0710248	50
DFK-MSTB 2,5/10-GF-5,08	0710251	50
DFK-MSTB 2,5/11-GF-5,08	0710264	50
DFK-MSTB 2,5/12-GF-5,08	0710277	50
DFK-MSTB 2,5/13-GF-5,08	0710280	50
DFK-MSTB 2,5/14-GF-5,08	0710293	50
DFK-MSTB 2,5/15-GF-5,08	0710303	50
DFK-MSTB 2,5/16-GF-5,08	0710316	50

Special types

Special types

Feed-through housing

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.
 For cutout dimensions see page 838.

IP50



- Header for assembly in a device/housing panel
- External connection for the corresponding MSTB 2,5 or FKC 2,5 plugs
- With horizontal or vertical solder connection window inside
- Installation from the inside of the device through the housing panel.
- Sealing the inside of the housing against dust using the enclosed seal

Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263	



Plug-in direction parallel to the PCB



With threaded flange, plug-in direction parallel to the PCB

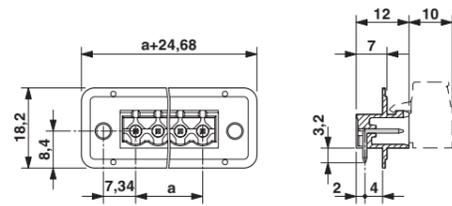


Plug-in direction vertical to the PCB

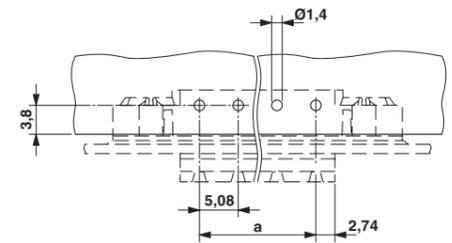


With threaded flange, plug-in direction vertical to the PCB

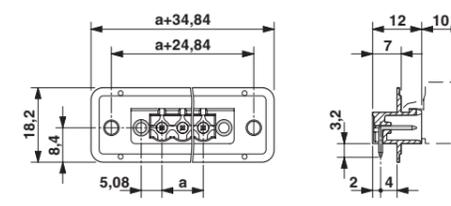
Dimensional drawing



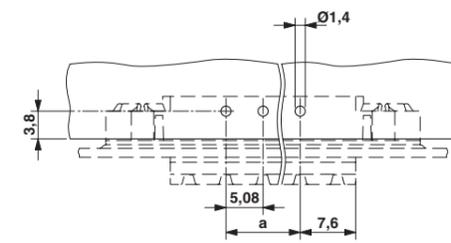
Drilling diagram



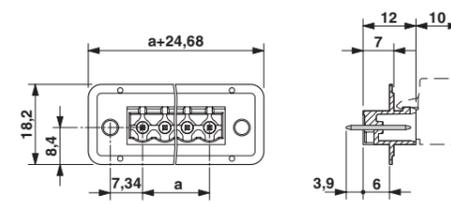
Dimensional drawing



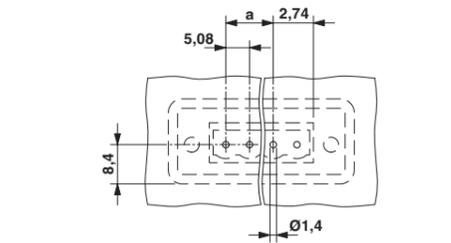
Drilling diagram



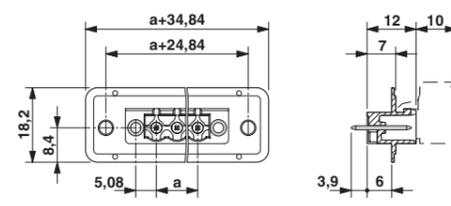
Dimensional drawing



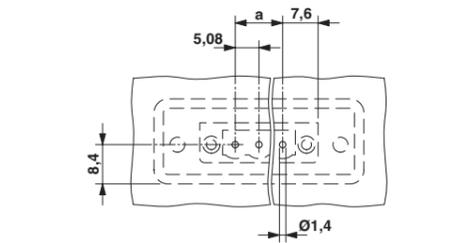
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 12
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Insulation coordination	III / 3 III / 2 II / 2
Surge voltage category / pollution degree	250 320 400
Rated insulation voltage	[V] 4 4 4
Rated surge voltage	[kV] B C D
Approval data (UL/CUL)	Use Group
Nominal voltage	[V] 300 - 300
Nominal current	[A] 15 - 15
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	PBT / IIIa
Type of insulation material / insulation material group	V0
Inflammability class according to UL 94	

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBA 2,5/ 2-G-5,08	1898839	50
DFK-MSTBA 2,5/ 3-G-5,08	1898842	50
DFK-MSTBA 2,5/ 4-G-5,08	1898855	50
DFK-MSTBA 2,5/ 5-G-5,08	1898868	50
DFK-MSTBA 2,5/ 6-G-5,08	1898871	50
DFK-MSTBA 2,5/ 7-G-5,08	1898884	50
DFK-MSTBA 2,5/ 8-G-5,08	1898897	50
DFK-MSTBA 2,5/ 9-G-5,08	1898907	50
DFK-MSTBA 2,5/10-G-5,08	1898910	50
DFK-MSTBA 2,5/11-G-5,08	1898923	50
DFK-MSTBA 2,5/12-G-5,08	1898936	50
DFK-MSTBA 2,5/13-G-5,08	1898949	50
DFK-MSTBA 2,5/14-G-5,08	1898952	50
DFK-MSTBA 2,5/15-G-5,08	1898965	50
DFK-MSTBA 2,5/16-G-5,08	1898978	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBA 2,5/ 2-GF-5,08	1898981	50
DFK-MSTBA 2,5/ 3-GF-5,08	1898994	50
DFK-MSTBA 2,5/ 4-GF-5,08	1899003	50
DFK-MSTBA 2,5/ 5-GF-5,08	1899016	50
DFK-MSTBA 2,5/ 6-GF-5,08	1899029	50
DFK-MSTBA 2,5/ 7-GF-5,08	1899032	50
DFK-MSTBA 2,5/ 8-GF-5,08	1899045	50
DFK-MSTBA 2,5/ 9-GF-5,08	1899058	50
DFK-MSTBA 2,5/10-GF-5,08	1899061	50
DFK-MSTBA 2,5/11-GF-5,08	1899074	50
DFK-MSTBA 2,5/12-GF-5,08	1899087	50
DFK-MSTBA 2,5/13-GF-5,08	1899090	50
DFK-MSTBA 2,5/14-GF-5,08	1899100	50
DFK-MSTBA 2,5/15-GF-5,08	1899113	50
DFK-MSTBA 2,5/16-GF-5,08	1899126	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBA 2,5/ 2-G-5,08	1899139	50
DFK-MSTBA 2,5/ 3-G-5,08	1899142	50
DFK-MSTBA 2,5/ 4-G-5,08	1899155	50
DFK-MSTBA 2,5/ 5-G-5,08	1899168	50
DFK-MSTBA 2,5/ 6-G-5,08	1899171	50
DFK-MSTBA 2,5/ 7-G-5,08	1899184	50
DFK-MSTBA 2,5/ 8-G-5,08	1899197	50
DFK-MSTBA 2,5/ 9-G-5,08	1899207	50
DFK-MSTBA 2,5/10-G-5,08	1899210	50
DFK-MSTBA 2,5/11-G-5,08	1899223	50
DFK-MSTBA 2,5/12-G-5,08	1899236	50
DFK-MSTBA 2,5/13-G-5,08	1899249	50
DFK-MSTBA 2,5/14-G-5,08	1899252	50
DFK-MSTBA 2,5/15-G-5,08	1899265	50
DFK-MSTBA 2,5/16-G-5,08	1899278	50

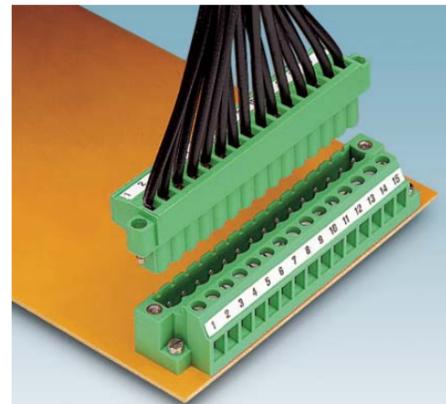
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBA 2,5/ 2-GF-5,08	1899281	50
DFK-MSTBA 2,5/ 3-GF-5,08	1899294	50
DFK-MSTBA 2,5/ 4-GF-5,08	1899304	50
DFK-MSTBA 2,5/ 5-GF-5,08	1899317	50
DFK-MSTBA 2,5/ 6-GF-5,08	1899320	50
DFK-MSTBA 2,5/ 7-GF-5,08	1899333	50
DFK-MSTBA 2,5/ 8-GF-5,08	1899346	50
DFK-MSTBA 2,5/ 9-GF-5,08	1899359	50
DFK-MSTBA 2,5/10-GF-5,08	1899362	50
DFK-MSTBA 2,5/11-GF-5,08	1899375	50
DFK-MSTBA 2,5/12-GF-5,08	1899388	50
DFK-MSTBA 2,5/13-GF-5,08	1899391	50
DFK-MSTBA 2,5/14-GF-5,08	1899401	50
DFK-MSTBA 2,5/15-GF-5,08	1899414	50
DFK-MSTBA 2,5/16-GF-5,08	1899427	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBA 2,5/ 2-GF-5,08	1899281	50
DFK-MSTBA 2,5/ 3-GF-5,08	1899294	50
DFK-MSTBA 2,5/ 4-GF-5,08	1899304	50
DFK-MSTBA 2,5/ 5-GF-5,08	1899317	50
DFK-MSTBA 2,5/ 6-GF-5,08	1899320	50
DFK-MSTBA 2,5/ 7-GF-5,08	1899333	50
DFK-MSTBA 2,5/ 8-GF-5,08	1899346	50
DFK-MSTBA 2,5/ 9-GF-5,08	1899359	50
DFK-MSTBA 2,5/10-GF-5,08	1899362	50
DFK-MSTBA 2,5/11-GF-5,08	1899375	50
DFK-MSTBA 2,5/12-GF-5,08	1899388	50
DFK-MSTBA 2,5/13-GF-5,08	1899391	50
DFK-MSTBA 2,5/14-GF-5,08	1899401	50
DFK-MSTBA 2,5/15-GF-5,08	1899414	50
DFK-MSTBA 2,5/16-GF-5,08	1899427	50

Plug-in blocks for direct mounting



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

- Direct plug-in blocks with mounting flanges for screw connection on mounting plates or unit housings
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

MVSTBU 2,5/...-G(F)B

- with vertical plug-in direction
- Versions with and without a threaded flange

MSTBU 2,5/...-STD-5,08

- touch-proof connection block in combination with IC 2,5/...-ST-5,08, see page 272

Accessories		
For all types	Type	Page
	Marker cards SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...-5	829

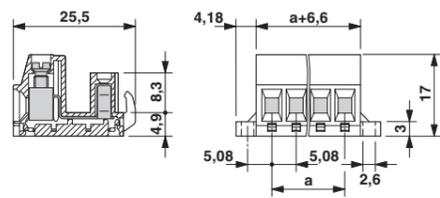
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5.08
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Solid / stranded [mm ²]	0.25 - 2.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1 / 0.2 - 1.5
Solid / stranded [mm ²]	0.25 - 1
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	320 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	12 - 10
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

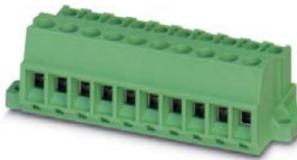
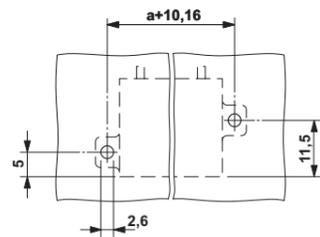
No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBU 2,5/ 2-STD-5,08	1824120	50
MSTBU 2,5/ 3-STD-5,08	1824133	50
MSTBU 2,5/ 4-STD-5,08	1824146	50
MSTBU 2,5/ 5-STD-5,08	1824159	50
MSTBU 2,5/ 6-STD-5,08	1824162	50
MSTBU 2,5/ 7-STD-5,08	1824175	50
MSTBU 2,5/ 8-STD-5,08	1824188	50
MSTBU 2,5/ 9-STD-5,08	1824191	50
MSTBU 2,5/10-STD-5,08	1824201	50
MSTBU 2,5/11-STD-5,08	1824214	50
MSTBU 2,5/12-STD-5,08	1824227	50
MSTBU 2,5/13-STD-5,08	1824230	50
MSTBU 2,5/14-STD-5,08	1824243	50
MSTBU 2,5/15-STD-5,08	1824256	50
MSTBU 2,5/16-STD-5,08	1824269	50

Dimensional drawing



Drilling diagram



With female contacts and flange for direct mounting

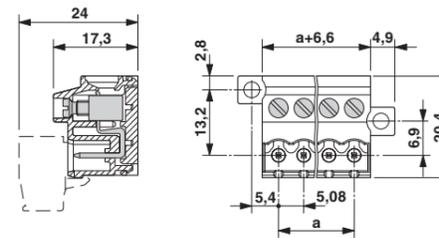


With male contacts and flange for direct mounting

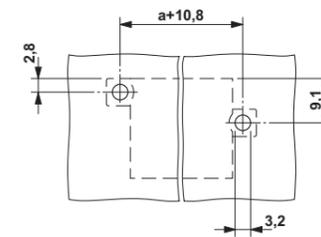


With male contacts, screw flange and flange for direct mounting

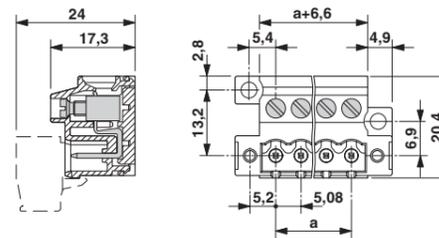
Dimensional drawing



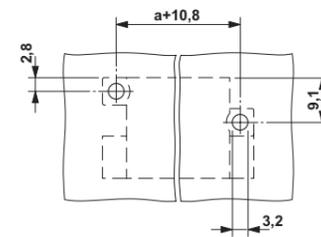
Drilling diagram



Dimensional drawing



Drilling diagram



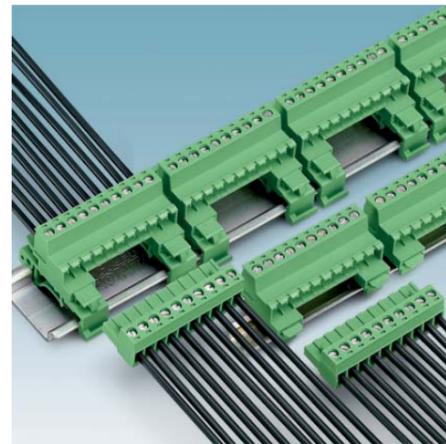
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBU 2,5/ 2-GB-5,08	1788538	50
MVSTBU 2,5/ 3-GB-5,08	1788541	50
MVSTBU 2,5/ 4-GB-5,08	1788554	50
MVSTBU 2,5/ 5-GB-5,08	1788567	50
MVSTBU 2,5/ 6-GB-5,08	1788570	50
MVSTBU 2,5/ 7-GB-5,08	1788583	50
MVSTBU 2,5/ 8-GB-5,08	1788596	50
MVSTBU 2,5/ 9-GB-5,08	1788609	50
MVSTBU 2,5/10-GB-5,08	1788619	50
MVSTBU 2,5/11-GB-5,08	1788622	50
MVSTBU 2,5/12-GB-5,08	1788635	50
MVSTBU 2,5/13-GB-5,08	1788648	50
MVSTBU 2,5/14-GB-5,08	1788651	50
MVSTBU 2,5/15-GB-5,08	1788664	50
MVSTBU 2,5/16-GB-5,08	1788677	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBU 2,5/ 2-GFB-5,08	1788347	50
MVSTBU 2,5/ 3-GFB-5,08	1788350	50
MVSTBU 2,5/ 4-GFB-5,08	1788363	50
MVSTBU 2,5/ 5-GFB-5,08	1788376	50
MVSTBU 2,5/ 6-GFB-5,08	1788389	50
MVSTBU 2,5/ 7-GFB-5,08	1788392	50
MVSTBU 2,5/ 8-GFB-5,08	1788402	50
MVSTBU 2,5/ 9-GFB-5,08	1788415	50
MVSTBU 2,5/10-GFB-5,08	1788428	50
MVSTBU 2,5/11-GFB-5,08	1788431	50
MVSTBU 2,5/12-GFB-5,08	1788444	50
MVSTBU 2,5/13-GFB-5,08	1788457	50
MVSTBU 2,5/14-GFB-5,08	1788460	50
MVSTBU 2,5/15-GFB-5,08	1788473	50
MVSTBU 2,5/16-GFB-5,08	1788486	50

Plug-in blocks for rail mounting



- MSTBVK 2,5 with foot element for mounting on the 15 x 5 mm DIN rail (NS15) in accordance with EN 60715-TH15
- UMSTBHK 2,5 with universal foot for mounting on NS 32 or NS 35 DIN rails
- Can be combined with connectors: MSTB(P) 2,5/...-ST... FRONT-MSTB 2,5/...-ST... FKCS) 2,5/...-ST... FKCN 2,5/...-ST... FKCVR 2,5/...-ST... ICV 2,5/...-G...

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
For DIN rails, see Catalog 5.

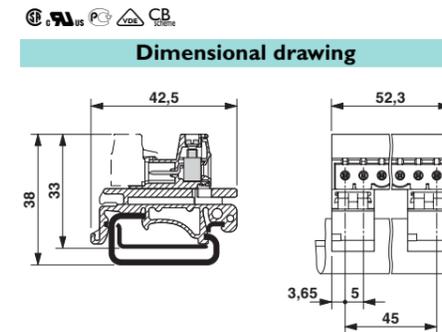
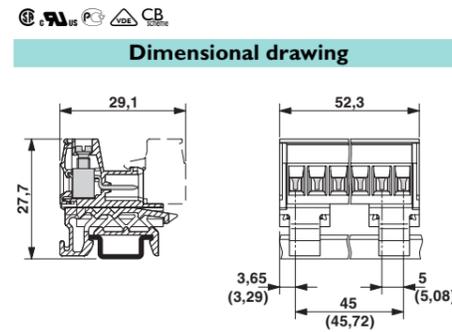


Inverted connector with screw connection for mounting on NS 15 DIN rail



Inverted connector with universal foot for mounting on NS 32 and NS 35

Accessories		
For all types	Type	Page
	Keying tab MSTB-BL Order No. 1755477	837
	Locking for MSTB connectors, 9.9 mm width MSTBHK 2,5/2-AH Order No. 5030185	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Only for MSTBHK 2,5/10-G...		
	End clamp E/MBK Order No. 1401637	
Only for UMSTBHK 2,5/10-G		
	End clamp E/UK Order No. 1201442	



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 12 / 2.5
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5 / 5.08
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 2.5
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 250 320 630
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 12 - 10
Connection capacity AWG	AWG 30 - 12 - 30 - 12
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	AWG 28 - 12 - 28 - 12
General data	
Stripping length	[mm] 7
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]	10	45.00
		10	45.72

Ordering data

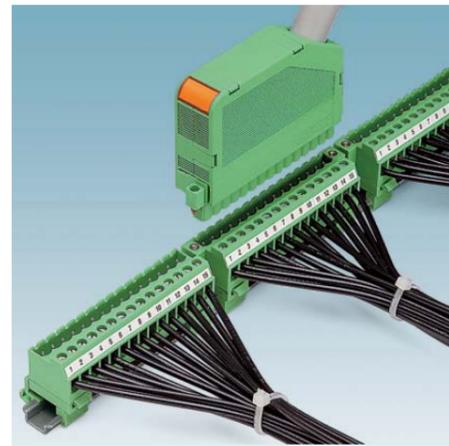
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBHK 2,5/10-G	1765085	50
5.08 mm pitch, color: Green		
MSTBHK 2,5/10-G-5,08	1765030	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
UMSTBHK 2,5/10-G	1765768	50

Plug-in blocks for rail mounting

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 For DIN rails, see Catalog 5.

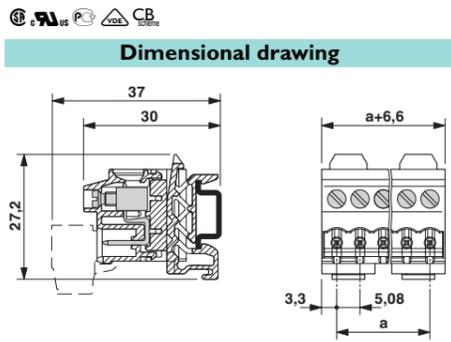


- Can be combined with COMBICON connectors with 5.08 mm grid
- Versions with and without a threaded flange
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

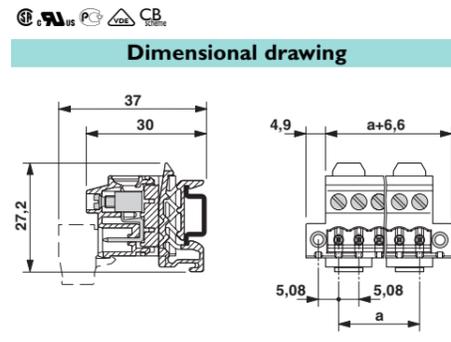
MSTBVK 2,5/...-G(F)-5,08
 - With a foot element for mounting on a 15 x 5 mm DIN rail (NS 15) acc. to EN 60715-TH15

UMSTBVK 2,5/...-G(F)-5,08
 - With universal foot for mounting on NS 32 or NS 35 DIN rails

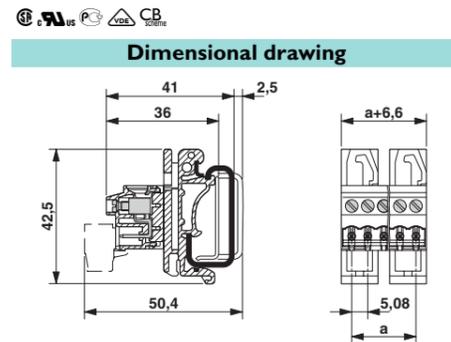
Accessories		
For all types	Type	Page
	Marker cards SK 5,08/3,8	798
	Keying section CR-MSTB Order No. 1734401	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Keying tab MSTB-BL Order No. 1755477	837
	Insertion bridge EBP...-5	829



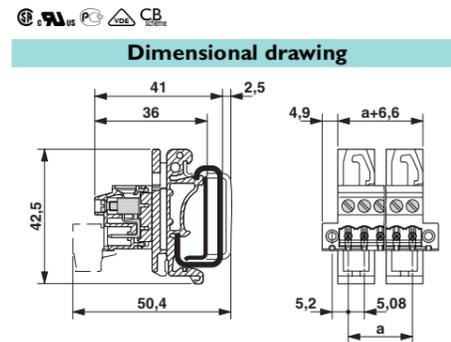
For mounting on NS 15



With threaded flange for mounting on NS 15



With universal foot for mounting on NS 32 or NS 35



With threaded flange and universal foot for mounting on NS 32 or NS 35

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 / 2.5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5.08
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1 / 0.2 - 1.5
Solid / stranded [mm ²]	0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	320 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	12 - 10
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: Green			
MSTBVK 2,5/ 2-G-5,08	1788729	50	
MSTBVK 2,5/ 3-G-5,08	1788732	50	
MSTBVK 2,5/ 4-G-5,08	1788745	50	
MSTBVK 2,5/ 5-G-5,08	1788758	50	
MSTBVK 2,5/ 6-G-5,08	1788761	50	
MSTBVK 2,5/ 7-G-5,08	1788774	50	
MSTBVK 2,5/ 8-G-5,08	1788787	50	
MSTBVK 2,5/ 9-G-5,08	1788790	50	
MSTBVK 2,5/10-G-5,08	1788800	50	
MSTBVK 2,5/11-G-5,08	1788813	50	
MSTBVK 2,5/12-G-5,08	1788826	50	
MSTBVK 2,5/13-G-5,08	1788839	50	
MSTBVK 2,5/14-G-5,08	1788842	50	
MSTBVK 2,5/15-G-5,08	1788855	50	
MSTBVK 2,5/16-G-5,08	1788868	50	

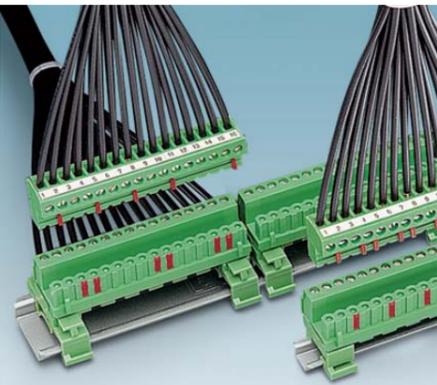
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBVK 2,5/ 2-GF-5,08	1788952	50
MSTBVK 2,5/ 3-GF-5,08	1788965	50
MSTBVK 2,5/ 4-GF-5,08	1788978	50
MSTBVK 2,5/ 5-GF-5,08	1788981	50
MSTBVK 2,5/ 6-GF-5,08	1788994	50
MSTBVK 2,5/ 7-GF-5,08	1789003	50
MSTBVK 2,5/ 8-GF-5,08	1803015	50
MSTBVK 2,5/ 9-GF-5,08	1803028	50
MSTBVK 2,5/10-GF-5,08	1803031	50
MSTBVK 2,5/11-GF-5,08	1803044	50
MSTBVK 2,5/12-GF-5,08	1803057	50
MSTBVK 2,5/13-GF-5,08	1803060	50
MSTBVK 2,5/14-GF-5,08	1803073	50
MSTBVK 2,5/15-GF-5,08	1803086	50
MSTBVK 2,5/16-GF-5,08	1803099	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 2-G-5,08	1788114	50
UMSTBVK 2,5/ 3-G-5,08	1788127	50
UMSTBVK 2,5/ 4-G-5,08	1788130	50
UMSTBVK 2,5/ 5-G-5,08	1788143	50
UMSTBVK 2,5/ 6-G-5,08	1788156	50
UMSTBVK 2,5/ 7-G-5,08	1788169	50
UMSTBVK 2,5/ 8-G-5,08	1788172	50
UMSTBVK 2,5/ 9-G-5,08	1788185	50
UMSTBVK 2,5/10-G-5,08	1788198	50
UMSTBVK 2,5/11-G-5,08	1788208	50
UMSTBVK 2,5/12-G-5,08	1788211	50
UMSTBVK 2,5/13-G-5,08	1788224	50
UMSTBVK 2,5/14-G-5,08	1788237	50
UMSTBVK 2,5/15-G-5,08	1788240	50
UMSTBVK 2,5/16-G-5,08	1788253	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 2-GF-5,08	1787924	50
UMSTBVK 2,5/ 3-GF-5,08	1787937	50
UMSTBVK 2,5/ 4-GF-5,08	1787940	50
UMSTBVK 2,5/ 5-GF-5,08	1787953	50
UMSTBVK 2,5/ 6-GF-5,08	1787966	50
UMSTBVK 2,5/ 7-GF-5,08	1787979	50
UMSTBVK 2,5/ 8-GF-5,08	1787982	50
UMSTBVK 2,5/ 9-GF-5,08	1787995	50
UMSTBVK 2,5/10-GF-5,08	1788004	50
UMSTBVK 2,5/11-GF-5,08	1788017	50
UMSTBVK 2,5/12-GF-5,08	1788020	50
UMSTBVK 2,5/13-GF-5,08	1788033	50
UMSTBVK 2,5/14-GF-5,08	1788046	50
UMSTBVK 2,5/15-GF-5,08	1788059	50
UMSTBVK 2,5/16-GF-5,08	1788062	50

Plug-in blocks for rail mounting

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 For DIN rails, see Catalog 5.



- With universal foot for mounting on NS 32 or NS 35 DIN rails
- Versions with and without a threaded flange
- Can be combined with the following plugs:
 IC 2,5/...-ST(F)...
 FKIC 2,5/...-ST(F)...
 FKICS 2,5/...-ST(F)...

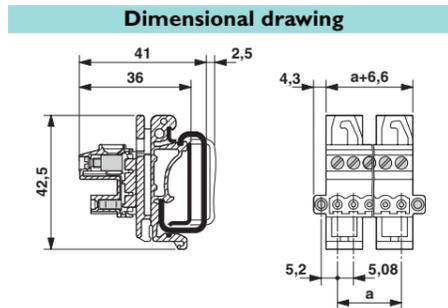
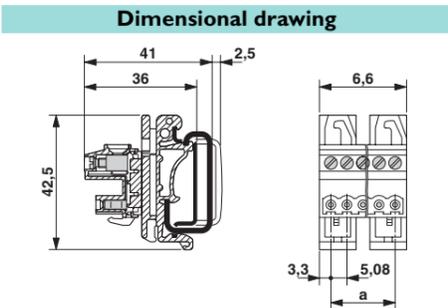
Accessories		
For all types	Type	Page
	Marker cards SK 5,08/3,8	798
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP...- 5	829



With universal foot, for mounting on NS 32 or NS 35



With screw flange and universal foot, For mounting on NS 32 or NS 35



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 12 / 2.5
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 2.5
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 320 320 630
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 12 - 10
Connection capacity AWG	30 - 12 - 30 - 12
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 10 - 10
Connection capacity AWG	28 - 12 - 28 - 12
General data	
Stripping length	[mm] 7
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 5-ST-5,08	1833849	50
UMSTBVK 2,5/ 6-ST-5,08	1833852	50
UMSTBVK 2,5/ 7-ST-5,08	1833865	50
UMSTBVK 2,5/ 8-ST-5,08	1833878	50
UMSTBVK 2,5/ 9-ST-5,08	1833881	50
UMSTBVK 2,5/10-ST-5,08	1833894	50
UMSTBVK 2,5/11-ST-5,08	1833904	50
UMSTBVK 2,5/12-ST-5,08	1833917	50
UMSTBVK 2,5/13-ST-5,08	1833920	50
UMSTBVK 2,5/14-ST-5,08	1833933	50
UMSTBVK 2,5/15-ST-5,08	1833946	50
UMSTBVK 2,5/16-ST-5,08	1833959	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 5-STF-5,08	1859205	50
UMSTBVK 2,5/ 6-STF-5,08	1859218	50
UMSTBVK 2,5/ 7-STF-5,08	1859221	50
UMSTBVK 2,5/ 8-STF-5,08	1859234	50
UMSTBVK 2,5/ 9-STF-5,08	1859247	50
UMSTBVK 2,5/10-STF-5,08	1859250	50
UMSTBVK 2,5/11-STF-5,08	1859263	50
UMSTBVK 2,5/12-STF-5,08	1859276	50
UMSTBVK 2,5/13-STF-5,08	1859289	50
UMSTBVK 2,5/14-STF-5,08	1859292	50
UMSTBVK 2,5/15-STF-5,08	1859302	50
UMSTBVK 2,5/16-STF-5,08	1859315	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 5-STF-5,08	1859205	50
UMSTBVK 2,5/ 6-STF-5,08	1859218	50
UMSTBVK 2,5/ 7-STF-5,08	1859221	50
UMSTBVK 2,5/ 8-STF-5,08	1859234	50
UMSTBVK 2,5/ 9-STF-5,08	1859247	50
UMSTBVK 2,5/10-STF-5,08	1859250	50
UMSTBVK 2,5/11-STF-5,08	1859263	50
UMSTBVK 2,5/12-STF-5,08	1859276	50
UMSTBVK 2,5/13-STF-5,08	1859289	50
UMSTBVK 2,5/14-STF-5,08	1859292	50
UMSTBVK 2,5/15-STF-5,08	1859302	50
UMSTBVK 2,5/16-STF-5,08	1859315	50

Special types

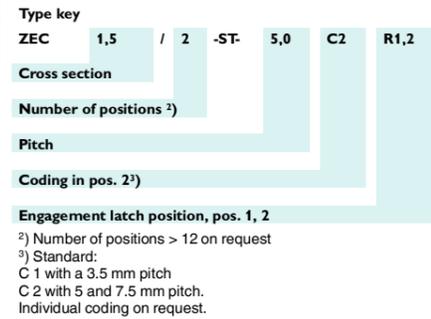
Special types

ZEC series connectors make contact directly on the PCB

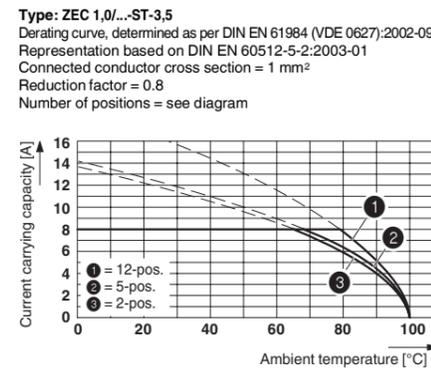


- Contact directly on a 1.6 mm thick PCB without an additional pin strip
- ZEC ST: connector with spring-cage connection
- ZEC LPV: connector for the parallel connection of two PCBs
- A mixture of 3.5/5.0/7.5 mm pitches is possible in one connector
- Larger numbers of positions on request
- Recommended surface for the contact pads: hot air level (HAL) Sn 5 up to 10 µm
- Chamfer in connector area has a positive effect on insertion and withdrawal forces/cycles
- Details about plug-in systems, see page 25

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 1) Please observe the derating curves. Derating curves for further ZEC connectors on request.



Accessories		
For all types	Type	Page
Only for ZEC 1,0/...-ST-3,5		
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Marker cards SK 3,5/2,8	797
Only for ZEC 1,5/...-LPV-5,0		
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 5/3,8	798



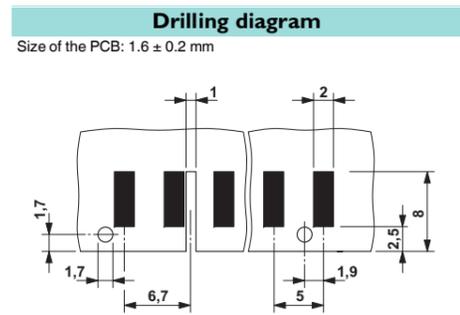
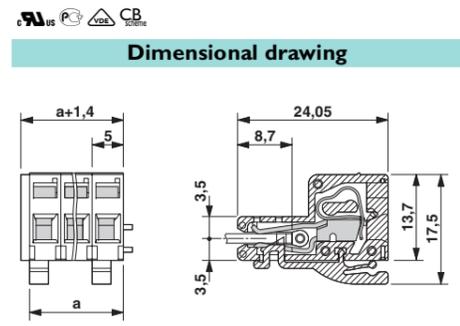
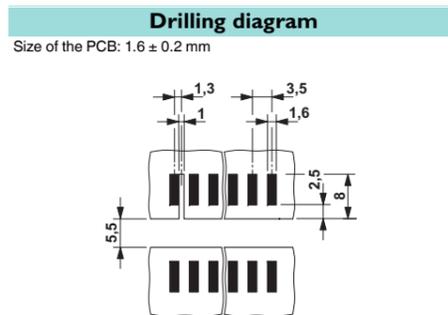
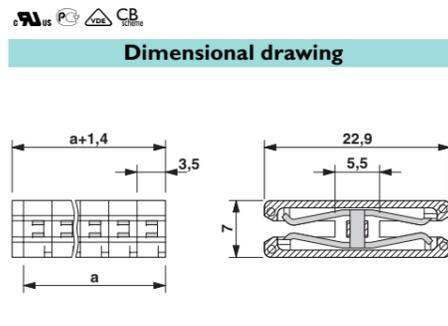
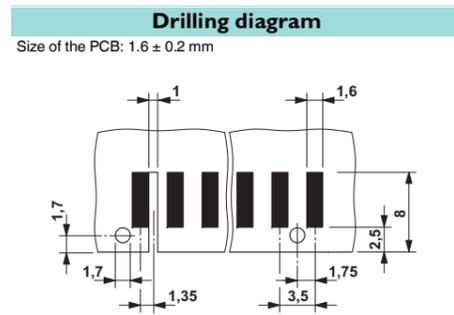
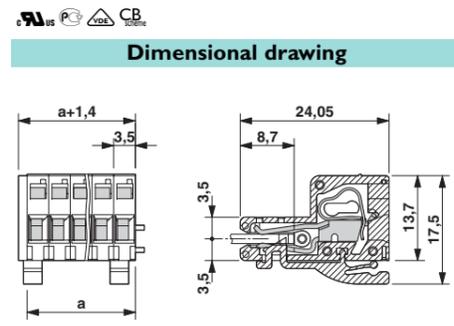
Direct connector with 3.5 mm pitch, plug-in direction parallel to the PCB



Printed-circuit board connector with 3.5 mm pitch, plug-in direction parallel to the PCB



Direct connector with 5.0 mm pitch, plug-in direction parallel to the PCB



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	8 ¹⁾ / 1
Rated insulation voltage for pollution degree 2 [V]	200
Pitch [mm]	3.5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 1 / 0.2 - 1 / 24 - 16
Solid / stranded [mm ²]	0.25 - 1
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 0.75
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²] / [mm ²] / AWG	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 0.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 200 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	150 - 300
Nominal current [A]	8 - 8
Connection capacity AWG	26 - 16 - 26 - 16
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

ZEC 1,0/ ...-ST-3,5 C1 R1	ZEC 1,0/ ...-LPV-3,5 C1	ZEC 1,5/ ...-ST-5,0 C2 R1,2
8 ¹⁾ / 1	8 ¹⁾ / 1	10 ¹⁾ / 1.5
200	200	320
3.5	3.5	5
0.2 - 1 / 0.2 - 1 / 24 - 16	- / - / -	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
0.25 - 1	-	0.25 - 1.5
0.25 - 0.75	-	0.25 - 1.5
- / -	- / -	- / -
-	-	-
0.5 - 0.5	-	0.5 - 0.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
160 200 320	160 200 320	250 320 630
2.5 2.5 2.5	2.5 2.5 2.5	4 4 4
B C D	B C D	B C D
150 - 300	150 - -	300 - 300
8 - 8	8 - -	10 - 10
26 - 16 - 26 - 16	- - -	26 - 14 - 26 - 14
B C D	B C D	B C D
- - -	- - -	- - -
- - -	- - -	- - -
- - -	- - -	- - -
7	-	7
PA / I	PA / I	PA / I
V0	V0	V0

No. of pos.	Dim. a [mm]
2	7.00
3	10.50
4	14.00
5	17.50
6	21.00
7	24.50
8	28.00
9	31.50
10	35.00
11	38.50
12	42.00
2	10.00
3	15.00
4	20.00
5	25.00
6	30.00
7	35.00
8	40.00
9	45.00
10	50.00
11	55.00
12	60.00

Ordering data		
Type	Order No.	Pcs. / Pkt.
Direct plug connector, 3.5 mm pitch, color: Green		
ZEC 1,0/ 2-ST-3,5 C1 R1	1893685	50
ZEC 1,0/ 3-ST-3,5 C1 R1,3	1893698	50
ZEC 1,0/ 4-ST-3,5 C1 R1,4	1893708	50
ZEC 1,0/ 5-ST-3,5 C1 R1,5	1893711	50
ZEC 1,0/ 6-ST-3,5 C1 R1,6	1893724	50
ZEC 1,0/ 7-ST-3,5 C1 R1,7	1893737	50
ZEC 1,0/ 8-ST-3,5 C1 R1,8	1893740	50
ZEC 1,0/ 9-ST-3,5 C1 R1,9	1893753	50
ZEC 1,0/10-ST-3,5 C1 R1,10	1893766	50
ZEC 1,0/11-ST-3,5 C1 R1,11	1893779	50
ZEC 1,0/12-ST-3,5 C1 R1,12	1893782	50

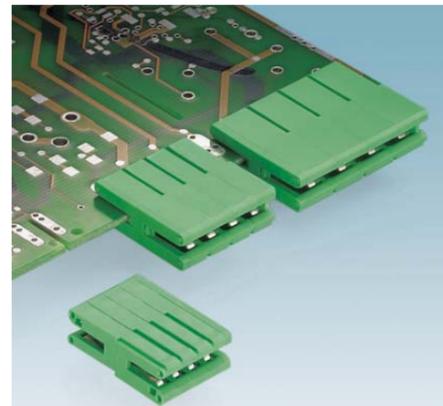
Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB connector, 3.5 mm pitch, color: Green		
ZEC 1,0/ 2-LPV-3,5 C1	1915657	50
ZEC 1,0/ 3-LPV-3,5 C1	1915660	50
ZEC 1,0/ 4-LPV-3,5 C1	1915673	50
ZEC 1,0/ 5-LPV-3,5 C1	1915686	50
ZEC 1,0/ 6-LPV-3,5 C1	1915699	50
ZEC 1,0/ 7-LPV-3,5 C1	1915709	50
ZEC 1,0/ 8-LPV-3,5 C1	1915712	50
ZEC 1,0/ 9-LPV-3,5 C1	1915725	50
ZEC 1,0/10-LPV-3,5 C1	1915738	50
ZEC 1,0/11-LPV-3,5 C1	1915741	50
ZEC 1,0/12-LPV-3,5 C1	1915754	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Direct plug connector, pitch 5.0 mm, color: Green		
ZEC 1,5/ 2-ST-5,0 C2 R1,2	1883048	50
ZEC 1,5/ 3-ST-5,0 C2 R1,3	1883051	50
ZEC 1,5/ 4-ST-5,0 C2 R1,4	1883064	50
ZEC 1,5/ 5-ST-5,0 C2 R1,5	1883077	50
ZEC 1,5/ 6-ST-5,0 C2 R1,6	1883080	50
ZEC 1,5/ 7-ST-5,0 C2 R1,7	1883093	50
ZEC 1,5/ 8-ST-5,0 C2 R1,8	1883103	50
ZEC 1,5/ 9-ST-5,0 C2 R1,9	1883116	50
ZEC 1,5/10-ST-5,0 C2 R1,10	1883129	50
ZEC 1,5/11-ST-5,0 C2 R1,11	1883132	50
ZEC 1,5/12-ST-5,0 C2 R1,12	1883802	50

Special types

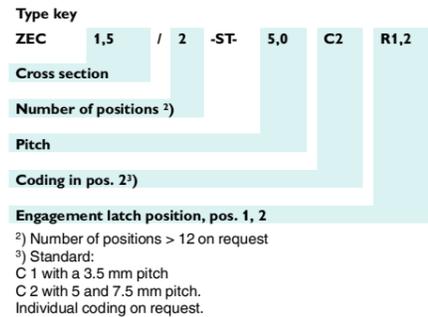
Special types

ZEC series connectors make contact directly on the PCB



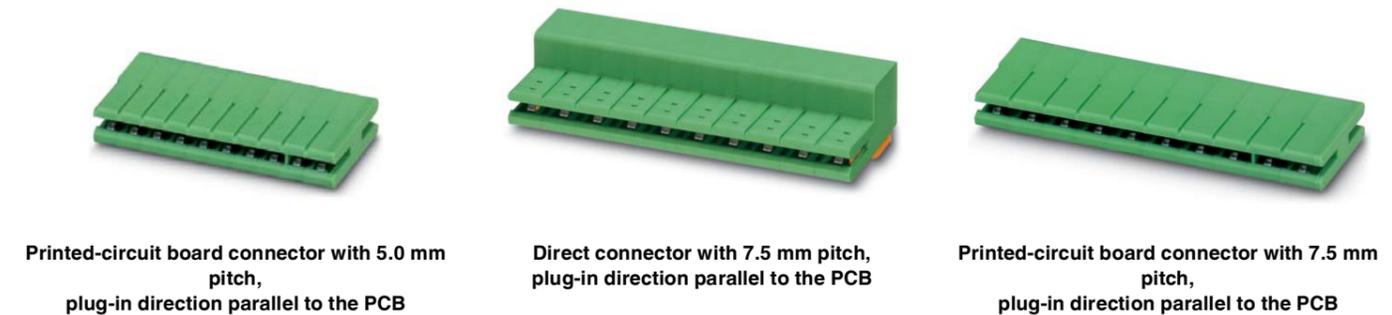
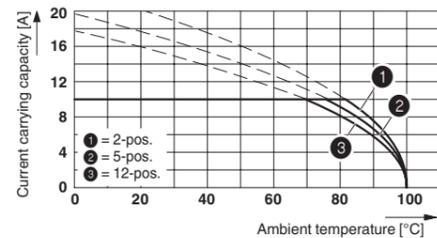
- ZEC...7,5: Plug connectors for applications with higher voltage
- Contact directly on a 1.6 mm thick PCB without an additional pin strip
- ZEC ST: connector with spring-cage connection
- ZEC LPV: connector for the parallel connection of two PCBs
- A mixture of 3.5/5.0/7.5 mm pitches is possible in one connector
- Recommended surface for the contact pads: hot air level (HAL) Sn 5 up to 10 µm
- Chamfer in connector area has a positive effect on insertion and withdrawal forces/cycles
- Larger numbers of positions on request
- Details about plug-in systems, see page 25

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 1) Please observe the derating curves. Derating curves for further ZEC connectors on request.



Accessories		
For all types	Type	Page
Only for ZEC 1,5/...-ST-7,5 and ZEC 1,5/...-LPV-7,5		
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 7,5/3,8	799
Only for ZEC 1,5/...-ST-5,0		
	Marker cards SK 5/3,8	798

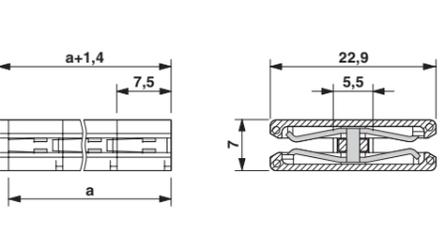
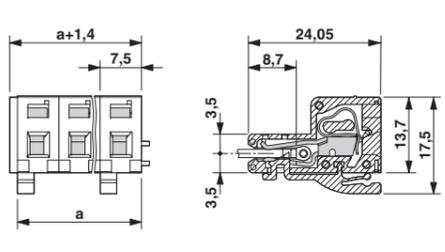
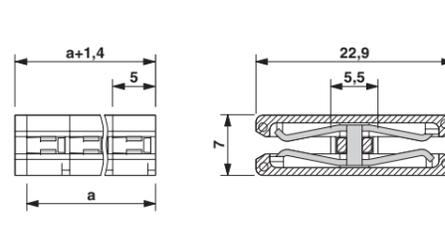
Type: ZEC 1,5/...-ST-7,5
 Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 1.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Printed-circuit board connector with 5.0 mm pitch, plug-in direction parallel to the PCB

Direct connector with 7.5 mm pitch, plug-in direction parallel to the PCB

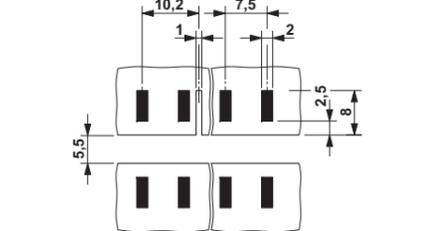
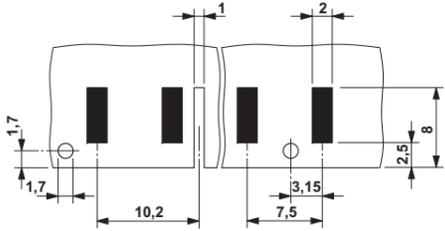
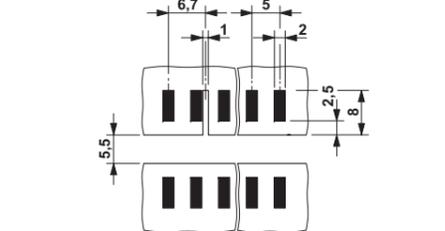
Printed-circuit board connector with 7.5 mm pitch, plug-in direction parallel to the PCB



Drilling diagram
 Size of the PCB: 1.6 ± 0.2 mm

Drilling diagram
 Size of the PCB: 1.6 ± 0.2 mm

Drilling diagram
 Size of the PCB: 1.6 ± 0.2 mm



Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB connector, 5.0 mm pitch, color: Green		
ZEC 1,5/ 2-LPV-5,0 C2	1898266	50
ZEC 1,5/ 3-LPV-5,0 C2	1898279	50
ZEC 1,5/ 4-LPV-5,0 C2	1898282	50
ZEC 1,5/ 5-LPV-5,0 C2	1898295	50
ZEC 1,5/ 6-LPV-5,0 C2	1898305	50
ZEC 1,5/ 7-LPV-5,0 C2	1898318	50
ZEC 1,5/ 8-LPV-5,0 C2	1898321	50
Direct plug connector, 7.5 mm pitch, color: Green		
ZEC 1,5/ 2-ST-7,5 C2 R1,2	1883145	50
ZEC 1,5/ 3-ST-7,5 C2 R1,3	1883158	50
ZEC 1,5/ 4-ST-7,5 C2 R1,4	1883161	50
ZEC 1,5/ 5-ST-7,5 C2 R1,5	1883174	50
ZEC 1,5/ 6-ST-7,5 C2 R1,6	1883187	50
ZEC 1,5/ 7-ST-7,5 C2 R1,7	1883190	50
ZEC 1,5/ 8-ST-7,5 C2 R1,8	1883200	50
ZEC 1,5/ 9-ST-7,5 C2 R1,9	1883213	50
ZEC 1,5/10-ST-7,5 C2 R1,10	1883226	50
ZEC 1,5/11-ST-7,5 C2 R1,11	1883239	50
ZEC 1,5/12-ST-7,5 C2 R1,12	1883242	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB connector, 7.5 mm pitch, color: Green		
ZEC 1,5/ 2-LPV-7,5 C2	1898376	50
ZEC 1,5/ 3-LPV-7,5 C2	1898389	50
ZEC 1,5/ 4-LPV-7,5 C2	1898392	50
ZEC 1,5/ 5-LPV-7,5 C2	1898402	50
ZEC 1,5/ 6-LPV-7,5 C2	1898415	50
ZEC 1,5/ 7-LPV-7,5 C2	1898428	50
ZEC 1,5/ 8-LPV-7,5 C2	1898431	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB connector, 7.5 mm pitch, color: Green		
ZEC 1,5/ 2-LPV-7,5 C2	1898376	50
ZEC 1,5/ 3-LPV-7,5 C2	1898389	50
ZEC 1,5/ 4-LPV-7,5 C2	1898392	50
ZEC 1,5/ 5-LPV-7,5 C2	1898402	50
ZEC 1,5/ 6-LPV-7,5 C2	1898415	50
ZEC 1,5/ 7-LPV-7,5 C2	1898428	50
ZEC 1,5/ 8-LPV-7,5 C2	1898431	50

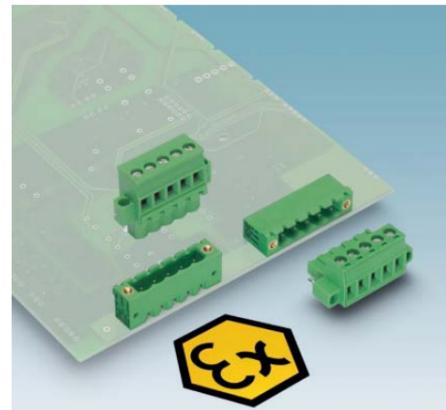
Technical data			
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section	[A] / [mm ²]	10 ¹⁾ / 1.5	10 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2	[V]	320	630
Pitch	[mm]	5	7.5
Connection capacity	[mm ²] / [mm ²] / AWG	- / - / -	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Solid / stranded	[mm ²] / [mm ²] / AWG	- / - / -	- / - / -
Stranded with ferrules without plastic sleeve	[mm ²]	-	0.25 - 1.5
Stranded with ferrules with plastic sleeve	[mm ²]	-	0.25 - 1.5
Multi-conductor connection capacity (two conductors with the same cross section)		- / -	- / -
Solid / stranded	[mm ²]	- / -	- / -
Stranded with ferrules without plastic sleeve	[mm ²]	-	-
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	-	0.5 - 0.5
Insulation coordination			
Surge voltage category / pollution degree		III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	[V]	250 320 630	400 630 1000
Rated surge voltage	[kV]	4 4 4	6 6 6
Approval data (UL/CUL)	Use Group	B C D	B C D
Nominal voltage	[V]	300 - 300	300 - 300
Nominal current	[A]	10 - 10	10 - 10
Connection capacity AWG	AWG	- - -	26 - 14 - 26 - 14
Approval data (CSA)	Use Group	B C D	B C D
Nominal voltage	[V]	- - -	- - -
Nominal current	[A]	- - -	- - -
Connection capacity AWG	AWG	- - -	- - -
General data			
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0

Technical data	
No. of pos.	Dim. a [mm]
2	10.00
3	15.00
4	20.00
5	25.00
6	30.00
7	35.00
8	40.00
2	15.00
3	22.50
4	30.00
5	37.50
6	45.00
7	52.50
8	60.00
9	67.50
10	75.00
11	82.50
12	90.00

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

Plugs with screw connection with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel and vertical to the conductor axis
- Versions with screw flange
- Can be combined with MSTB(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at www.phoenixcontact.net/products and see page 40

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 The maximum torque for the screw flange is 0.3 Nm.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm²]
Connection capacity	
Solid / stranded	[mm²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MSTB 2,5/ ...-STF-5,08 EX	MVSTBR 2,5/ ...-STF-5,08 EX	MVSTBW 2,5/ ...-STF-5,08 EX
0344 Ex II 2GD Ex e IIC Gb KEMA 10ATEX0196 U IECEx KEM 10.0093U	0344 Ex II 2GD Ex e IIC Gb KEMA 10ATEX0196 U IECEx KEM 10.0093U	0344 Ex II 2GD Ex e IIC Gb KEMA 10ATEX0196 U IECEx KEM 10.0093U
176	176	176
12	12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12	- / 24 - 12	- / 24 - 12
7	7	7
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA / I	PA / I	PA / I
V0	V0	V0
- / -	- / -	- / -

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



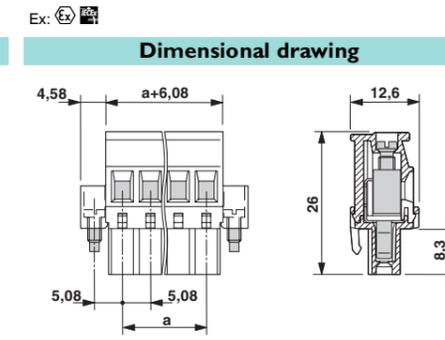
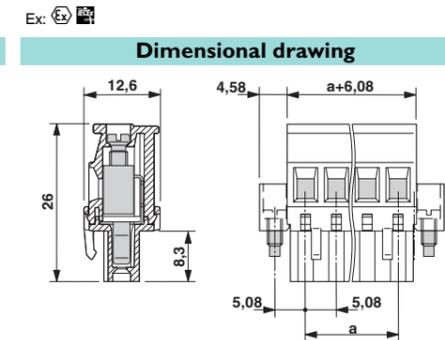
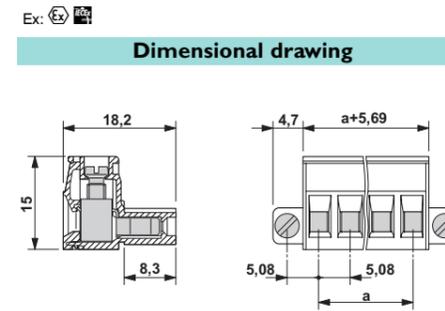
With screw flange



Conductor entry facing keying side, with screw flange



Conductor entry facing the rippled side, with screw flange



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-STF-5,08 EX	1795556	50
MSTB 2,5/ 3-STF-5,08 EX	1795569	50
MSTB 2,5/ 4-STF-5,08 EX	1795572	50
MSTB 2,5/ 5-STF-5,08 EX	1795585	50
MSTB 2,5/ 6-STF-5,08 EX	1795598	50
MSTB 2,5/ 7-STF-5,08 EX	1795608	50
MSTB 2,5/ 8-STF-5,08 EX	1795611	50
MSTB 2,5/ 9-STF-5,08 EX	1795624	50
MSTB 2,5/10-STF-5,08 EX	1795637	50
MSTB 2,5/11-STF-5,08 EX	1795640	50
MSTB 2,5/12-STF-5,08 EX	1795653	50

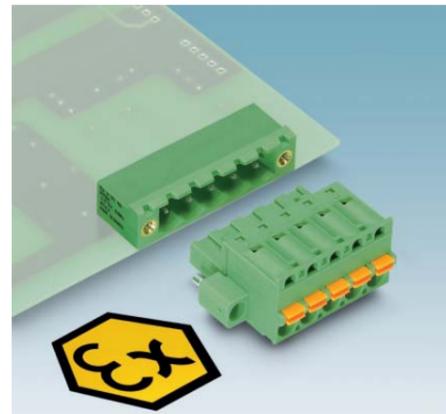
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBR 2,5/ 2-STF-5,08 EX	1809678	50
MVSTBR 2,5/ 3-STF-5,08 EX	1809681	50
MVSTBR 2,5/ 4-STF-5,08 EX	1809694	50
MVSTBR 2,5/ 5-STF-5,08 EX	1809704	50
MVSTBR 2,5/ 6-STF-5,08 EX	1809717	50
MVSTBR 2,5/ 7-STF-5,08 EX	1809720	50
MVSTBR 2,5/ 8-STF-5,08 EX	1809733	50
MVSTBR 2,5/ 9-STF-5,08 EX	1809746	50
MVSTBR 2,5/10-STF-5,08 EX	1809759	50
MVSTBR 2,5/11-STF-5,08 EX	1809762	50
MVSTBR 2,5/12-STF-5,08 EX	1809775	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBW 2,5/ 2-STF-5,08 EX	1809788	50
MVSTBW 2,5/ 3-STF-5,08 EX	1809791	50
MVSTBW 2,5/ 4-STF-5,08 EX	1809801	50
MVSTBW 2,5/ 5-STF-5,08 EX	1809814	50
MVSTBW 2,5/ 6-STF-5,08 EX	1809827	50
MVSTBW 2,5/ 7-STF-5,08 EX	1809830	50
MVSTBW 2,5/ 8-STF-5,08 EX	1809843	50
MVSTBW 2,5/ 9-STF-5,08 EX	1809856	50
MVSTBW 2,5/10-STF-5,08 EX	1809869	50
MVSTBW 2,5/11-STF-5,08 EX	1809872	50
MVSTBW 2,5/12-STF-5,08 EX	1809885	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

Plugs with push-in spring connection, 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel to the conductor axis
- Versions with screw flange and self-locking flange

FKC 2,5/...-STF-5,08 EX

- Can be combined with MSTB(V) 2,5/...-GF-5,08 EX

FKC 2,5/...-ST-5,08-RF EX

- Can be combined with MSTB(V)A 2,5/...-G-5,08-RN EX
- For more application and installation instructions, please go to the hazardous area section at www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The maximum torque for the screw flange is 0.3 Nm.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/3,8	798
	Strain relief STZ ...-FKC-5,08	837
	Test plug MPS	831

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm²]
Connection capacity	
Solid / stranded	[mm²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

FKC 2,5/ ...-STF-5,08 EX

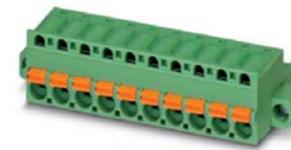
0344 II 2GD Ex e IIC Gb	0344 II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEX KEM 10.0093U	IECEX KEM 10.0093U
176	176
12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12	- / 24 - 12
10	10
-	-
-	-
PA / I	PA / I
V0	V0
- / -	- / -

FKC 2,5/ ...-ST-5,08-RF EX

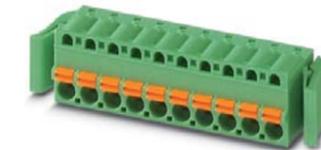
No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



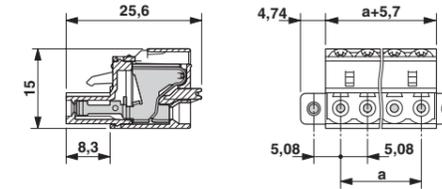
With screw flange



With self-locking flange

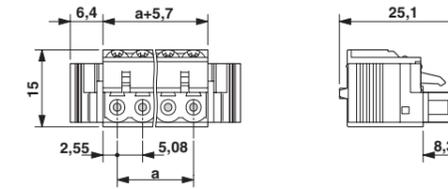
Ex:

Dimensional drawing



Ex:

Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKC 2,5/ 2-STF-5,08 EX	1795996	50
FKC 2,5/ 3-STF-5,08 EX	1796005	50
FKC 2,5/ 4-STF-5,08 EX	1796018	50
FKC 2,5/ 5-STF-5,08 EX	1796021	50
FKC 2,5/ 6-STF-5,08 EX	1796034	50
FKC 2,5/ 7-STF-5,08 EX	1796047	50
FKC 2,5/ 8-STF-5,08 EX	1796050	50
FKC 2,5/ 9-STF-5,08 EX	1796063	50
FKC 2,5/10-STF-5,08 EX	1796076	50
FKC 2,5/11-STF-5,08 EX	1796089	50
FKC 2,5/12-STF-5,08 EX	1796092	50

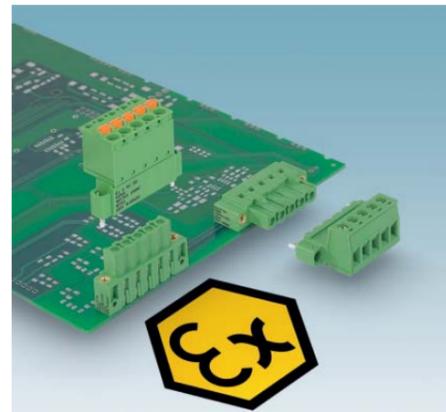
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08-RF EX	1796102	50
FKC 2,5/ 3-ST-5,08-RF EX	1796115	50
FKC 2,5/ 4-ST-5,08-RF EX	1796128	50
FKC 2,5/ 5-ST-5,08-RF EX	1796131	50
FKC 2,5/ 6-ST-5,08-RF EX	1796144	50
FKC 2,5/ 7-ST-5,08-RF EX	1796157	50
FKC 2,5/ 8-ST-5,08-RF EX	1796160	50
FKC 2,5/ 9-ST-5,08-RF EX	1796173	50
FKC 2,5/10-ST-5,08-RF EX	1796186	50
FKC 2,5/11-ST-5,08-RF EX	1796199	50
FKC 2,5/12-ST-5,08-RF EX	1796209	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

Inverted plugs for the Ex area with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel to the conductor axis
- Can be combined with IC(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The maximum torque for the screw flange is 0.3 Nm.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/3,8	798
Only for IC 2,5/...-STF-5,08 EX		
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Only for FKIC 2,5/...-STF-5,08 EX		
	Strain relief STZ ...-FKC-5,08	837
	Test plug MPS	831

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm²]
Connection capacity	
Solid / stranded	[mm²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

IC 2,5/ ...-STF-5,08 EX

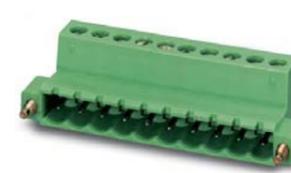
0344 II 2GD Ex e IIC Gb	0344 II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx KEM 10.0093U	IECEx KEM 10.0093U
176	176
12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12	- / 24 - 12
7	10
M3	-
0.5 - 0.6	-
PA / I	PA / I
V0	V0
- / -	- / -

FKIC 2,5/ ...-STF-5,08 EX

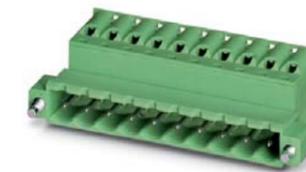
No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



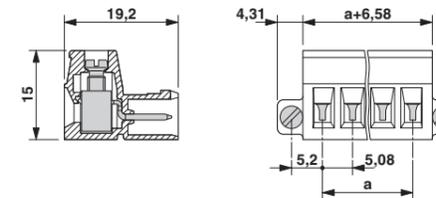
With screw connection and screw flange



With Push-in spring connection and screw flange

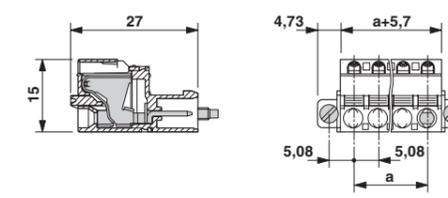
Ex:

Dimensional drawing



Ex:

Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-STF-5,08 EX	1810117	50
IC 2,5/ 3-STF-5,08 EX	1810120	50
IC 2,5/ 4-STF-5,08 EX	1810133	50
IC 2,5/ 5-STF-5,08 EX	1810146	50
IC 2,5/ 6-STF-5,08 EX	1810159	50
IC 2,5/ 7-STF-5,08 EX	1810162	50
IC 2,5/ 8-STF-5,08 EX	1810175	50
IC 2,5/ 9-STF-5,08 EX	1810188	50
IC 2,5/10-STF-5,08 EX	1810191	50
IC 2,5/11-STF-5,08 EX	1810201	50
IC 2,5/12-STF-5,08 EX	1810214	50

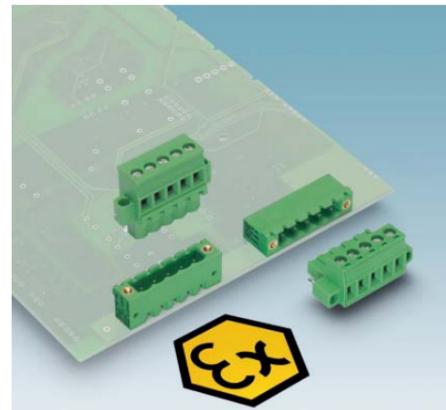
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKIC 2,5/ 2-STF-5,08 EX	1810227	50
FKIC 2,5/ 3-STF-5,08 EX	1810230	50
FKIC 2,5/ 4-STF-5,08 EX	1810243	50
FKIC 2,5/ 5-STF-5,08 EX	1810256	50
FKIC 2,5/ 6-STF-5,08 EX	1810269	50
FKIC 2,5/ 7-STF-5,08 EX	1810272	50
FKIC 2,5/ 8-STF-5,08 EX	1810285	50
FKIC 2,5/ 9-STF-5,08 EX	1810298	50
FKIC 2,5/10-STF-5,08 EX	1810308	50
FKIC 2,5/11-STF-5,08 EX	1810311	50
FKIC 2,5/12-STF-5,08 EX	1810324	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

A header with a 5.08 mm pitch for wave soldering processes



- Hazardous area approval for voltages up to 176 V
- Versions with threaded flange and engagement nose
- For more application and installation instructions, please go to the hazardous area section at www.phoenixcontact.net/products and see page 40

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

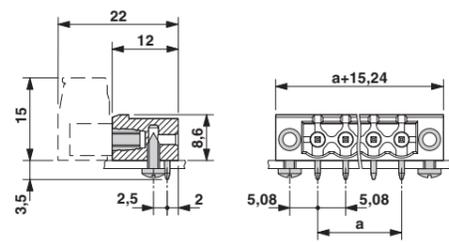
Accessories

For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Marker cards SK 5,08/3,8	798

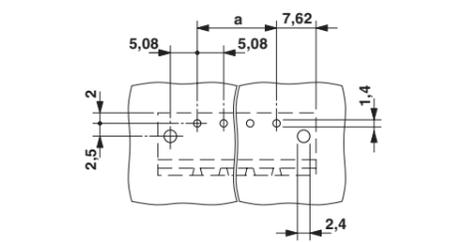
Ex:

With threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



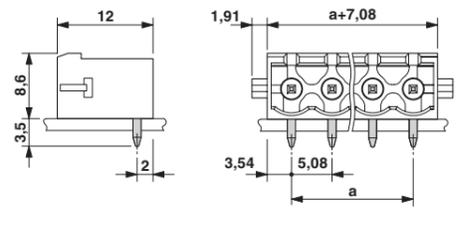
Drilling diagram



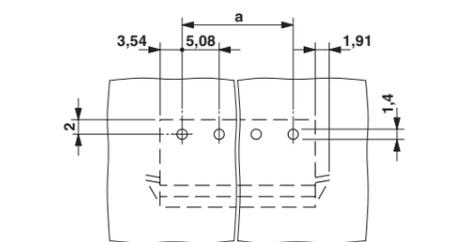
With engagement noses, plug-in direction parallel to the PCB

Ex:

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBA 2,5/ 2-G-5,08-RN EX	1796432	50
MSTBA 2,5/ 3-G-5,08-RN EX	1796445	50
MSTBA 2,5/ 4-G-5,08-RN EX	1796458	50
MSTBA 2,5/ 5-G-5,08-RN EX	1796461	50
MSTBA 2,5/ 6-G-5,08-RN EX	1796474	50
MSTBA 2,5/ 7-G-5,08-RN EX	1796487	50
MSTBA 2,5/ 8-G-5,08-RN EX	1796490	50
MSTBA 2,5/ 9-G-5,08-RN EX	1796500	50
MSTBA 2,5/10-G-5,08-RN EX	1796513	50
MSTBA 2,5/11-G-5,08-RN EX	1796526	50
MSTBA 2,5/12-G-5,08-RN EX	1796539	50

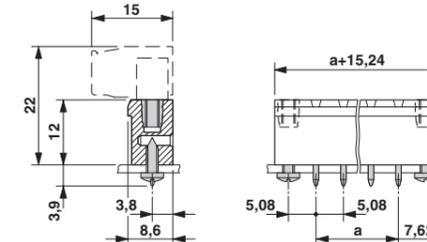
Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

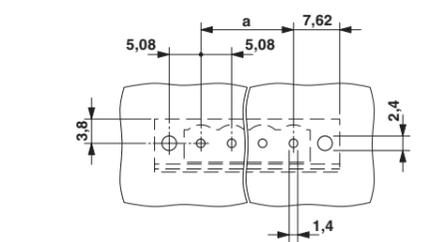
With threaded flange, plug-in direction vertical to the PCB

Ex:

Dimensional drawing



Drilling diagram



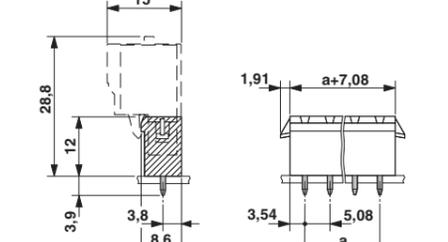
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBV 2,5/ 2-GF-5,08 EX	1796322	50
MSTBV 2,5/ 3-GF-5,08 EX	1796335	50
MSTBV 2,5/ 4-GF-5,08 EX	1796348	50
MSTBV 2,5/ 5-GF-5,08 EX	1796351	50
MSTBV 2,5/ 6-GF-5,08 EX	1796364	50
MSTBV 2,5/ 7-GF-5,08 EX	1796377	50
MSTBV 2,5/ 8-GF-5,08 EX	1796380	50
MSTBV 2,5/ 9-GF-5,08 EX	1796393	50
MSTBV 2,5/10-GF-5,08 EX	1796403	50
MSTBV 2,5/11-GF-5,08 EX	1796416	50
MSTBV 2,5/12-GF-5,08 EX	1796429	50

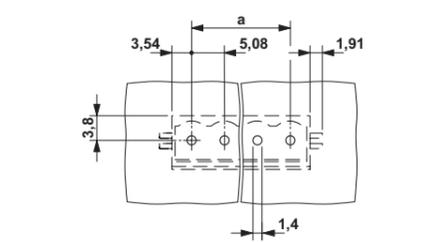
With engagement noses, plug-in direction vertical to the PCB

Ex:

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBVA 2,5/ 2-G-5,08-RN EX	1796555	50
MSTBVA 2,5/ 3-G-5,08-RN EX	1796568	50
MSTBVA 2,5/ 4-G-5,08-RN EX	1796571	50
MSTBVA 2,5/ 5-G-5,08-RN EX	1796584	50
MSTBVA 2,5/ 6-G-5,08-RN EX	1796597	50
MSTBVA 2,5/ 7-G-5,08-RN EX	1796607	50
MSTBVA 2,5/ 8-G-5,08-RN EX	1796610	50
MSTBVA 2,5/ 9-G-5,08-RN EX	1796623	50
MSTBVA 2,5/10-G-5,08-RN EX	1796636	50
MSTBVA 2,5/11-G-5,08-RN EX	1796649	50
MSTBVA 2,5/12-G-5,08-RN EX	1796652	50

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	0344 II 2GD Ex e IIC Gb
IECEx certificate	KEMA 10ATEX0196 U
	IECEx KEM 10.0093U
Rated voltage	176 [V]
Rated current	12 [A] / [2.5 mm²]
Connection capacity	
Solid / stranded	- / - [mm²]
Solid / stranded	- / - [AWG]
General data	
Stripping length	- [mm]
Screw thread	-
Tightening torque	- [Nm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	1.4 / 1 x 1 mm

Technical data

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-GF-5,08 EX	1795666	50
MSTB 2,5/ 3-GF-5,08 EX	1795679	50
MSTB 2,5/ 4-GF-5,08 EX	1795682	50
MSTB 2,5/ 5-GF-5,08 EX	1795695	50
MSTB 2,5/ 6-GF-5,08 EX	1795705	50
MSTB 2,5/ 7-GF-5,08 EX	1795718	50
MSTB 2,5/ 8-GF-5,08 EX	1795721	50
MSTB 2,5/ 9-GF-5,08 EX	1795734	50
MSTB 2,5/10-GF-5,08 EX	1795747	50
MSTB 2,5/11-GF-5,08 EX	1795750	50
MSTB 2,5/12-GF-5,08 EX	1795763	50

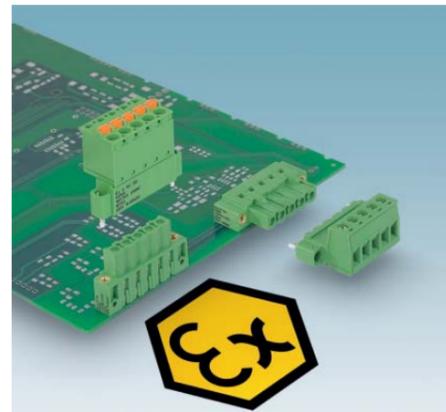
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-GF-5,08 EX	1795666	50
MSTB 2,5/ 3-GF-5,08 EX	1795679	50
MSTB 2,5/ 4-GF-5,08 EX	1795682	50
MSTB 2,5/ 5-GF-5,08 EX	1795695	50
MSTB 2,5/ 6-GF-5,08 EX	1795705	50
MSTB 2,5/ 7-GF-5,08 EX	1795718	50
MSTB 2,5/ 8-GF-5,08 EX	1795721	50
MSTB 2,5/ 9-GF-5,08 EX	1795734	50
MSTB 2,5/10-GF-5,08 EX	1795747	50
MSTB 2,5/11-GF-5,08 EX	1795750	50
MSTB 2,5/12-GF-5,08 EX	1795763	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

Inverted headers for wave soldering processes with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Headers for wave soldering processes
- For more application and installation instructions, please go to the hazardous area section at www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/3,8	798
	Reducing plug RPS Order No. 0201647	831
	Test plug MPS	831

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEX certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm²]
Connection capacity	
Solid / stranded	[mm²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

IC 2,5/ ...-GF-5,08 EX

0344 II 2GD Ex e IIC Gb	0344 II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEX KEM 10.0093U	IECEX KEM 10.0093U
176	176
12	12
-/-	-/-
-/-	-/-
PA / I	PA / I
V0	V0
1.4 / 1,2 x 0,5	1.4 / 1,2 x 0,5

ICV 2,5/ ...-GF-5,08 EX

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



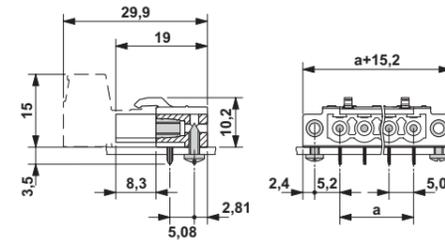
With threaded flange,
plug-in direction parallel to the PCB



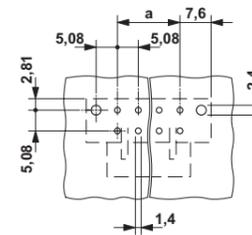
With threaded flange,
plug-in direction vertical to the PCB

Ex:

Dimensional drawing

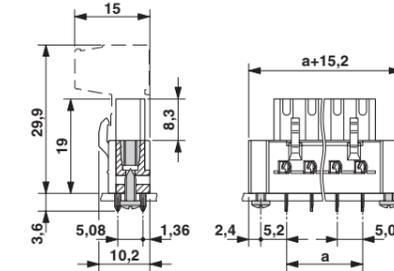


Drilling diagram

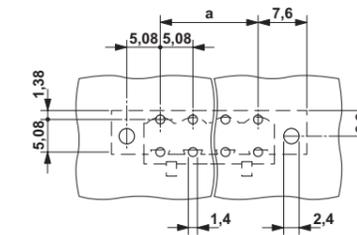


Ex:

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-GF-5,08 EX	1810337	50
IC 2,5/ 3-GF-5,08 EX	1810340	50
IC 2,5/ 4-GF-5,08 EX	1810353	50
IC 2,5/ 5-GF-5,08 EX	1810366	50
IC 2,5/ 6-GF-5,08 EX	1810379	50
IC 2,5/ 7-GF-5,08 EX	1810382	50
IC 2,5/ 8-GF-5,08 EX	1810395	50
IC 2,5/ 9-GF-5,08 EX	1810405	50
IC 2,5/10-GF-5,08 EX	1810418	50
IC 2,5/11-GF-5,08 EX	1810421	50
IC 2,5/12-GF-5,08 EX	1810434	50

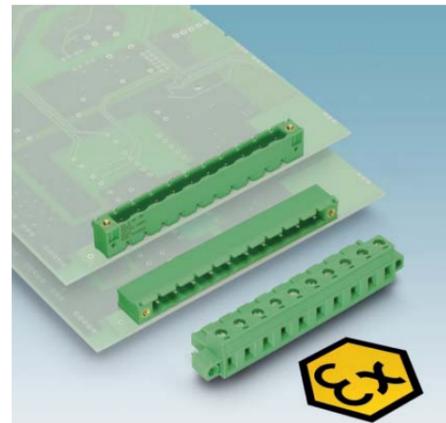
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5/ 2-GF-5,08 EX	1810447	50
ICV 2,5/ 3-GF-5,08 EX	1810450	50
ICV 2,5/ 4-GF-5,08 EX	1810463	50
ICV 2,5/ 5-GF-5,08 EX	1810476	50
ICV 2,5/ 6-GF-5,08 EX	1810489	50
ICV 2,5/ 7-GF-5,08 EX	1810492	50
ICV 2,5/ 8-GF-5,08 EX	1810502	50
ICV 2,5/ 9-GF-5,08 EX	1810515	50
ICV 2,5/10-GF-5,08 EX	1810528	50
ICV 2,5/11-GF-5,08 EX	1810531	50
ICV 2,5/12-GF-5,08 EX	1810544	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

Plugs with screw connection with 7.62 mm pitch



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 The maximum torque for the screw flange is 0.3 Nm.

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 7,62/5	800
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

- Ex approval for voltages up to 352 V
- Plug-in direction parallel to the conductor axis
- Can be combined with GMSTB(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at www.phoenixcontact.net/products and see page 40

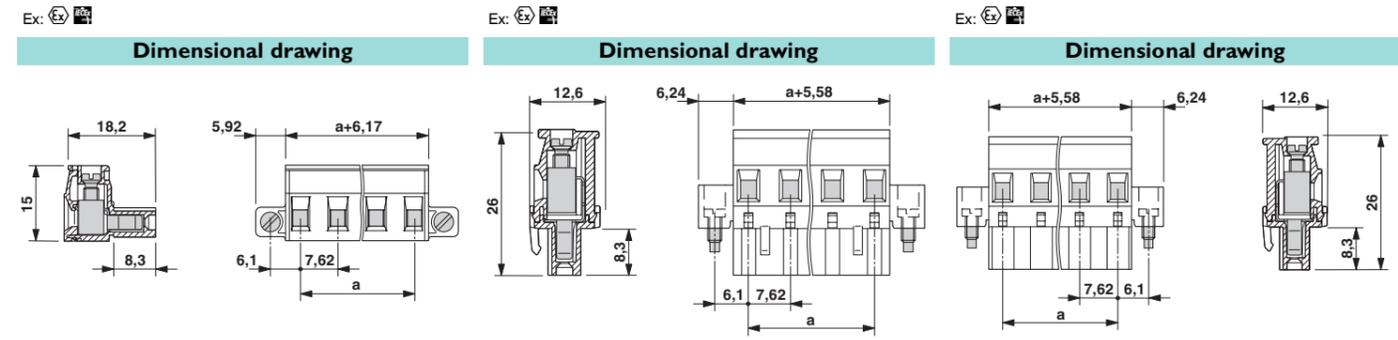
Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm²]
Connection capacity	
Solid / stranded	[mm²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

GMSTB 2,5/ ...-STF-7,62 EX	GMVSTBR 2,5/ ...-STF-7,62 EX	GMVSTBW 2,5/ ...-STF-7,62 EX
0344 Ex II 2GD Ex e IIC Gb KEMA 10ATEX0196 U IECEx KEM 10.0093U	0344 Ex II 2GD Ex e IIC Gb KEMA 10ATEX0196 U IECEx KEM 10.0093U	0344 Ex II 2GD Ex e IIC Gb KEMA 10ATEX0196 U IECEx KEM 10.0093U
352	352	352
12	12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12	- / 24 - 12	- / 24 - 12
7	7	7
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA / I	PA / I	PA / I
V0	V0	V0
- / -	- / -	- / -

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-STF-7,62 EX	1795776	50
GMSTB 2,5/ 3-STF-7,62 EX	1795789	50
GMSTB 2,5/ 4-STF-7,62 EX	1795792	50
GMSTB 2,5/ 5-STF-7,62 EX	1795802	50
GMSTB 2,5/ 6-STF-7,62 EX	1795815	50
GMSTB 2,5/ 7-STF-7,62 EX	1795828	50
GMSTB 2,5/ 8-STF-7,62 EX	1795831	50
GMSTB 2,5/ 9-STF-7,62 EX	1795844	50
GMSTB 2,5/10-STF-7,62 EX	1795857	50
GMSTB 2,5/11-STF-7,62 EX	1795860	50
GMSTB 2,5/12-STF-7,62 EX	1795873	50

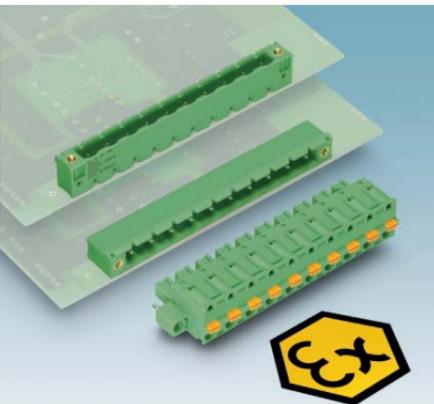
Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBR 2,5/ 2-STF-7,62 EX	1809898	50
GMVSTBR 2,5/ 3-STF-7,62 EX	1809908	50
GMVSTBR 2,5/ 4-STF-7,62 EX	1809911	50
GMVSTBR 2,5/ 5-STF-7,62 EX	1809924	50
GMVSTBR 2,5/ 6-STF-7,62 EX	1809937	50
GMVSTBR 2,5/ 7-STF-7,62 EX	1809940	50
GMVSTBR 2,5/ 8-STF-7,62 EX	1809953	50
GMVSTBR 2,5/ 9-STF-7,62 EX	1809966	50
GMVSTBR 2,5/10-STF-7,62 EX	1809979	50
GMVSTBR 2,5/11-STF-7,62 EX	1809982	50
GMVSTBR 2,5/12-STF-7,62 EX	1809995	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBW 2,5/ 2-STF-7,62 EX	1810007	50
GMVSTBW 2,5/ 3-STF-7,62 EX	1810010	50
GMVSTBW 2,5/ 4-STF-7,62 EX	1810023	50
GMVSTBW 2,5/ 5-STF-7,62 EX	1810036	50
GMVSTBW 2,5/ 6-STF-7,62 EX	1810049	50
GMVSTBW 2,5/ 7-STF-7,62 EX	1810052	50
GMVSTBW 2,5/ 8-STF-7,62 EX	1810065	50
GMVSTBW 2,5/ 9-STF-7,62 EX	1810078	50
GMVSTBW 2,5/10-STF-7,62 EX	1810081	50
GMVSTBW 2,5/11-STF-7,62 EX	1810094	50
GMVSTBW 2,5/12-STF-7,62 EX	1810104	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

Plugs with push-in spring connection, 7.62 mm pitch



- Ex approval for voltages up to 352 V
- Plug-in direction parallel to the conductor axis
- Can be combined with GMSTB(V) 2,5/...-GF-5,08 EX
- Further application and installation instructions for plug-in connectors for the Ex area can be found online at www.phoenixcontact.net/products and on page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The maximum torque for the screw flange is 0.3 Nm.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 7,62/5	800
	Test plug MPS	831

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	0344 Ex II 2GD Ex e IIC Gb
IECEx certificate	KEMA 10ATEX0196 U
Rated voltage	IECEx KEM 10.0093U
Rated current	352
Connection capacity	12
Solid / stranded	[mm²] 0.2 - 2.5 / 0.2 - 2.5
Solid / stranded	AWG - / 24 - 12
General data	
Stripping length	[mm] 10
Screw thread	-
Tightening torque	[Nm] -
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] - / -

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Classic plug-in connector with 5.0 to 7.62 mm pitch

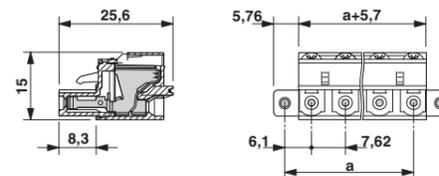
CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



With screw flange

Ex:

Dimensional drawing



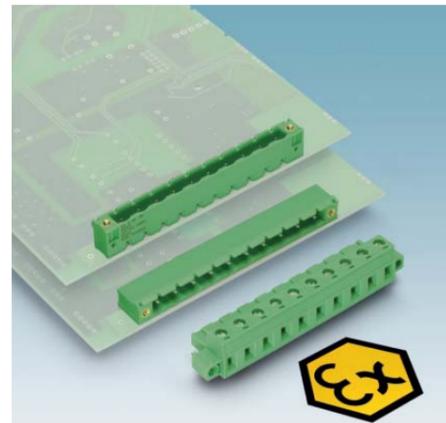
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GFKC 2,5/ 2-STF-7,62 EX	1796212	50
GFKC 2,5/ 3-STF-7,62 EX	1796225	50
GFKC 2,5/ 4-STF-7,62 EX	1796238	50
GFKC 2,5/ 5-STF-7,62 EX	1796241	50
GFKC 2,5/ 6-STF-7,62 EX	1796254	50
GFKC 2,5/ 7-STF-7,62 EX	1796267	50
GFKC 2,5/ 8-STF-7,62 EX	1796270	50
GFKC 2,5/ 9-STF-7,62 EX	1796283	50
GFKC 2,5/10-STF-7,62 EX	1796296	50
GFKC 2,5/11-STF-7,62 EX	1796306	50
GFKC 2,5/12-STF-7,62 EX	1796319	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch

Headers with a 7.62 mm pitch for wave soldering processes



- Ex approval for voltages up to 352 V
- For more application and installation instructions, please go to the hazardous area section at www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Marker cards SK 7,62/5	800

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEC 60079-7	
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V] 352
Rated current	[A] / [2.5 mm²] 12
Connection capacity	
Solid / stranded	[mm²] - / -
Solid / stranded	AWG - / -
General data	
Stripping length	[mm] -
Screw thread	-
Tightening torque	[Nm] -
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 1 x 1 mm

GMSTB 2,5/ ...-GF-7,62 EX

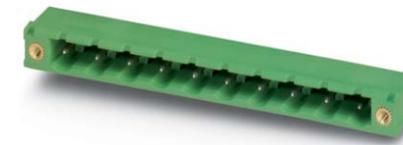
0344  II 2GD Ex e IIC Gb	0344  II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx KEM 10.0093U	IECEx KEM 10.0093U

GMSTBV 2,5/ ...-GF-7,62 EX

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Classic plug-in connector with 5.0 to 7.62 mm pitch

CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



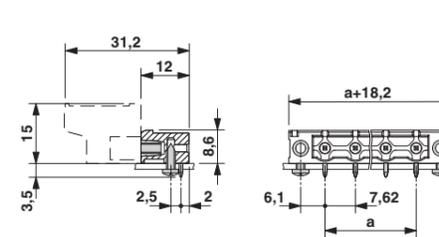
With threaded flange,
plug-in direction parallel to the PCB



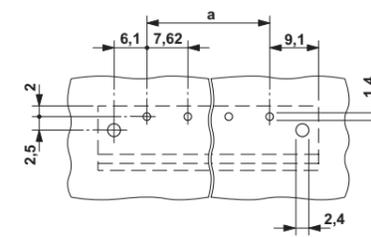
With threaded flange,
plug-in direction vertical to the PCB

Ex: 

Dimensional drawing

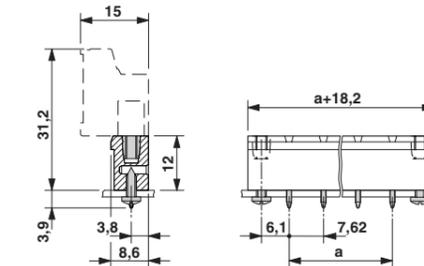


Drilling diagram

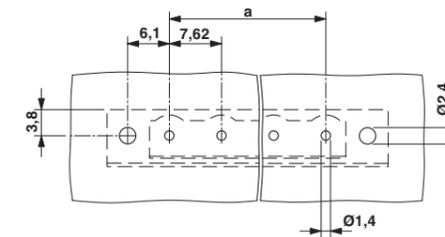


Ex: 

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-GF-7,62 EX	1795886	50
GMSTB 2,5/ 3-GF-7,62 EX	1795899	50
GMSTB 2,5/ 4-GF-7,62 EX	1795909	50
GMSTB 2,5/ 5-GF-7,62 EX	1795912	50
GMSTB 2,5/ 6-GF-7,62 EX	1795925	50
GMSTB 2,5/ 7-GF-7,62 EX	1795938	50
GMSTB 2,5/ 8-GF-7,62 EX	1795941	50
GMSTB 2,5/ 9-GF-7,62 EX	1795954	50
GMSTB 2,5/10-GF-7,62 EX	1795967	50
GMSTB 2,5/11-GF-7,62 EX	1795970	50
GMSTB 2,5/12-GF-7,62 EX	1795983	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBV 2,5/ 2-GF-7,62 EX	1796665	50
GMSTBV 2,5/ 3-GF-7,62 EX	1796678	50
GMSTBV 2,5/ 4-GF-7,62 EX	1796681	50
GMSTBV 2,5/ 5-GF-7,62 EX	1796694	50
GMSTBV 2,5/ 6-GF-7,62 EX	1796704	50
GMSTBV 2,5/ 7-GF-7,62 EX	1796717	50
GMSTBV 2,5/ 8-GF-7,62 EX	1796720	50
GMSTBV 2,5/ 9-GF-7,62 EX	1796733	50
GMSTBV 2,5/10-GF-7,62 EX	1796746	50
GMSTBV 2,5/11-GF-7,62 EX	1796759	50
GMSTBV 2,5/12-GF-7,62 EX	1796762	50

Connection technology for building and LED applications

Small, powerful and in the typical green

The COMBICON compact series consists of solutions featuring spring-cage and screw connection technology for virtually all applications in building automation and LED technology.

All of the products in the COMBICON compact series are:

- Space-saving thanks to their compact dimensions
- Versatile with regard to the connection technology
- Functional with regard to design and choice of material

COMBICON compact with screw connection

With the PT range, Phoenix Contact provides a new series of terminal blocks with screw connection and, compared with others in its class, outstanding clamping space. A CLIP version is available for clam-shell electronics housings, which can be directly latched to the housing. The various PCB terminal blocks and connectors that can be keyed are very versatile and particularly suitable for large-scale serial products and price-critical applications.

COMBICON compact with spring-cage connection

The proven and easy-to-operate spring-cage double connection is available with 3.5 and 5.0 mm pitch. While the FK-MPT series has extremely compact dimensions, the new PTDA series combines high terminal block capacity with an attractive design.

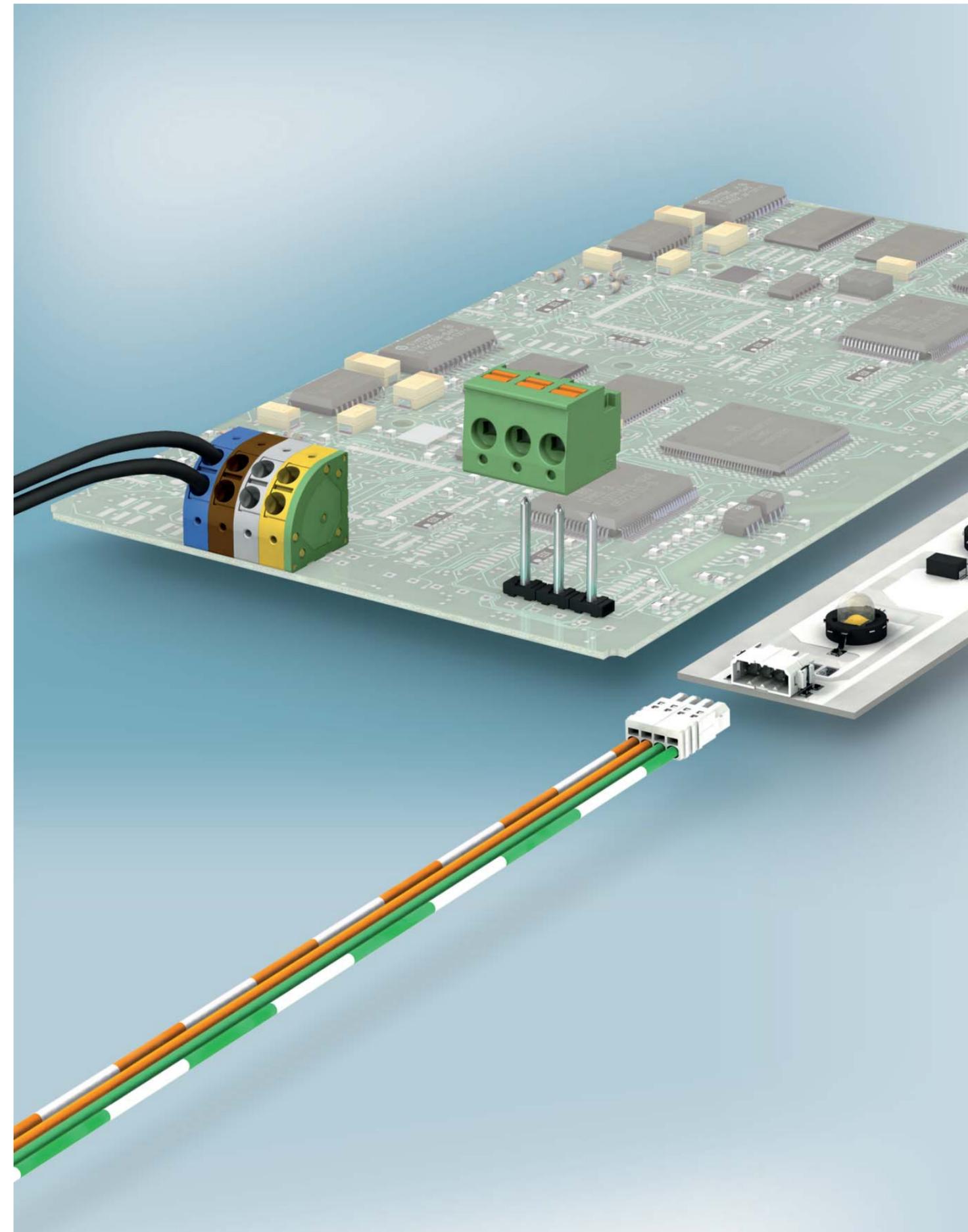
The PTS series is new. These spring-cage PCB terminal blocks and plug-in connectors offer conductor connection featuring direct plug-in technology with a release button. This means that stranded conductors can also be easily connected.

The small pitch of the PTSM series is suitable for applications where space really is at a premium, such as those found in LED lighting technology, for example. The white housing makes this miniature terminal block the ideal match for the light-colored PCBs of LED lights.

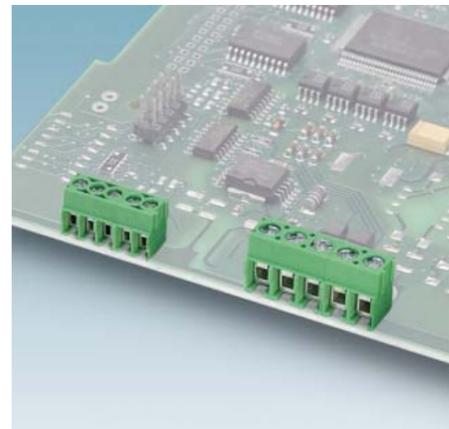
COMBICON compact pin strips

The matching pin strips for plug-in versions are made from high-temperature-resistant material and can therefore be used in the reflow soldering process (THR). A taped version for use on automatic machines is available on request.

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PCB terminal blocks



PT 1,5 PCB terminal blocks

- Screw connection
- High terminal capacity
- High current carrying capacity
- Plus/minus screw as standard
- Highly flexible wire protector



PTS 1,5 PCB terminal blocks

- Push-in spring connection
- Finger-operated release button
- Compact design
- Test connection



PTDA PCB terminal blocks

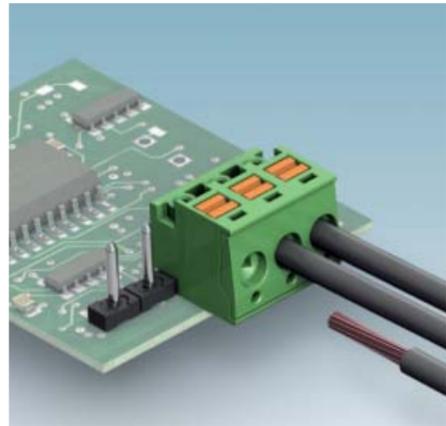
- Spring-cage double connection
- Direct plug-in method
- Compact dimensions
- Test connection

Plug-in connectors for pin strips



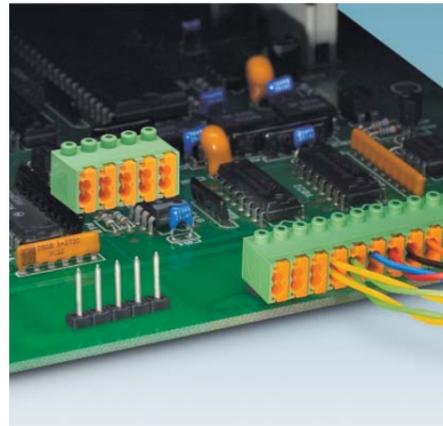
PT 1,5 plug-in connector

- Screw connection with tension sleeve
- For latching in device housing
- Snap-on feet for reliable hold
- Ideal for clam-shell electronics housing



PTS plug-in connector

- Push-in spring connection
- Safe latching when connecting the new pin-strip base strip
- Integrated release button prevents inadvertent release
- Optional keying
- Size comparable with screw solution

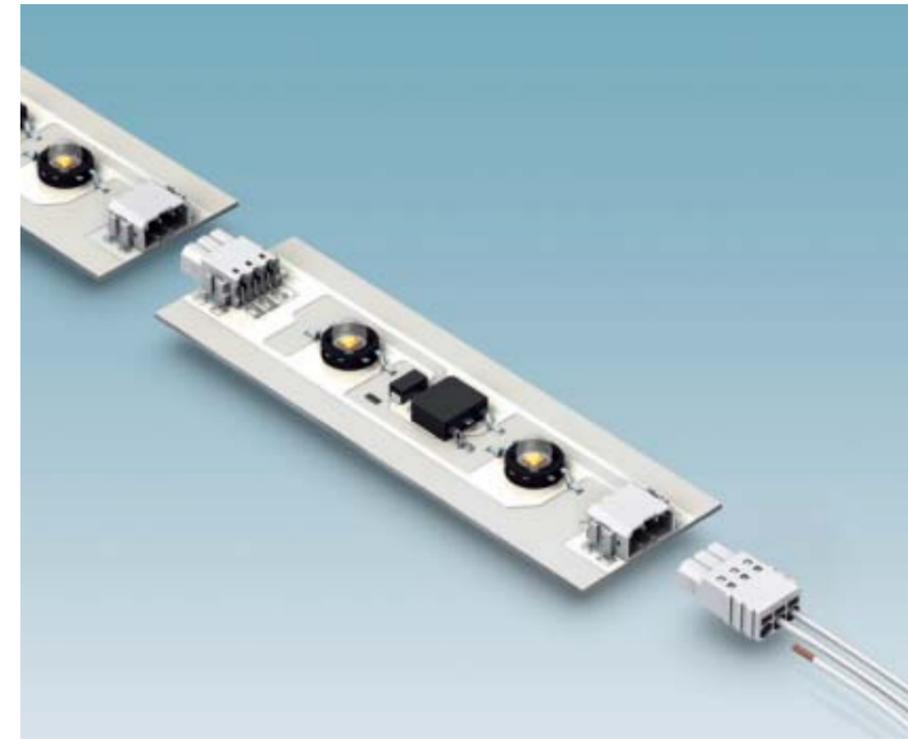


FK-MPT plug-in connectors

- Spring-cage double connection
- Direct plug-in method
- Compact dimensions
- Also available as PCB terminal block

Miniature PCB terminal blocks and plugs for LED lighting technology

- Push-in spring connection with release function
- Suitable for solid and stranded conductors
- Space-saving THR versions with two solder pins
- Robust SMD versions with edge anchor metals
- SMD soldering spots can be easily accessed for test purposes
- Compact design: 5 mm tall
- 2.5 mm pitch
- High current carrying capacity of 6 A
- Large connection capacity up to 0.75 mm²
- Available as PCB terminal block and plug-in connector
- Plug-in connectors for connections that can be separated
- Inverted base strips for board-to-board connections
- Available in white and black



Options for COMBICON compact connection technology

Designation	Marking	Color		Partial assembly	Mech. coding	Color coding	Tape-on-reel packing	Other
		Standard	Optional					
PTSM...	● ⁵⁾	█	▭	●	○	○	●	
PTSM... Plug-in	● ⁵⁾	█	▭	●	○	○	●	
PTQ...	●	█	▭ ²⁾	○ ²⁾	○	○	●	
PTS...	●	█	▭	○ ²⁾	○	●	○ ²⁾	Blocks available with different pitches
PTS...PH	●	█	▭	○ ²⁾	●	○	○	
FK-MPT	● ⁴⁾	█	▭	●	○	○	○ ²⁾	
PTSA...	●	█	▭	● ¹⁾	○	●	○ ²⁾	Blocks available with different pitches
PTDA...	● ⁴⁾	█	▭	● ¹⁾	●	●	○ ²⁾	Blocks available with different pitches
PTA 1,5... PT 1,5... PT 2,5...	●	█	▭	●	●	○	○ ²⁾	A-version can be aligned in the pitch (plug)
PST...	○	█	▭	●	○	○	●	Various pin lengths/geometries available on request
PST...-L...	○	█	○	●	●	○	○ ²⁾	
PST...SF	○	█	○	●	●	○	○ ²⁾	

● = Available

○ = Not available

¹⁾ With pitch spacer

²⁾ Available on request

³⁾ E.g., to double the pitch

⁴⁾ Two marking areas available

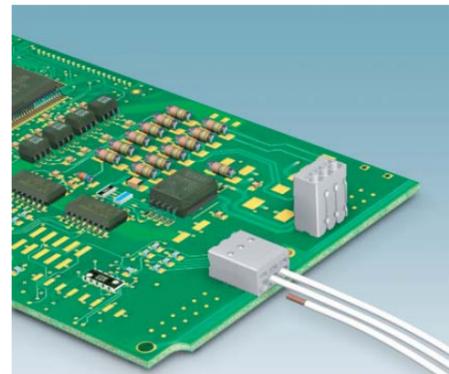
⁵⁾ Color marking

COMBICON compact plugs	Type	Pitch	COMBICON compact Pin strips																			
			PST 1,0/...-3,5 Page 432	PST 1,0/...-H-3,5 Page 433	PST 1,3/...-5,0 Page 434	PST 1,3/...-H-5,0 Page 435	PST 1,3/...-5,0-SF Page 417	PST 1,3/...-LH-5,0 Page 431	PST 1,3/...-LV-5,0 Page 431	FK-MPT 0,5/...IC(V)A-3,5 Page 404												
	PTDA 1,5/...-PH-3,5 Page 407	3.5	•	•1)																		
	PTDA 1,5/...-PH-5,0 Page 409	5.0			•	•1)																
	FK-MPT 0,5/...-3,5 Page 403	3.5																				•
	FK-MPT 0,5/...-ST-3,5 Page 403	3.5	•	•1)																		
	PTS 1,5/...-PH-5,0 Page 417	5.0			•	•		•														
	PT 1,5/...-PH-3,5 Page 423	3.5	•	•																		
	PT 1,5/...-PVH-3,5 Page 423	3.5	•	•																		
	PT 1,5/...-PH-5,0 Page 425	5.0			•	•																
	PT 1,5/...-PH-5,0 CLIP Page 425	5.0			•	•																
	PT 1,5/...-PVH-5,0 Page 425	5.0			•	•																
	PT 2,5/...-PVH-5,0 Page 431	5.0			•	•1)				•	•											

1) Requires appropriate connection. More details available on request.

COMBICON compact plugs	Type	Pitch	COMBICON compact Pin strips		
			PTSM 0,5/...-HH-2,5-THR... Page 397	PTSM 0,5/...-HV-2,5-THR... Page 397	PTSM 0,5/...-HH-2,5-SMD... Page 397
	PTSM 0,5/...-P-2,5 Page 395	2.5	•	•	•
	PTSM 0,5/...-HHI-2,5-THR Page 399	2.5	•	•	•
	PTSM 0,5/...-HV-2,5-THR Page 399	2.5	•	•	•

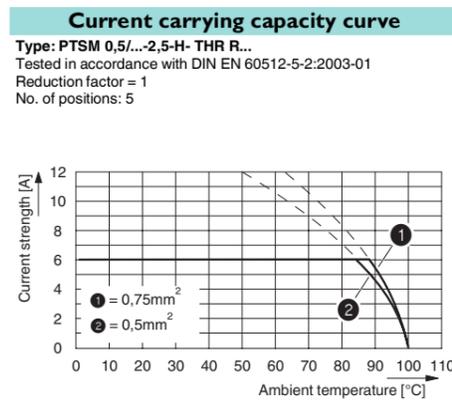
THR spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile THR print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Double solder pins for stable hold on PCB
- Specifically designed for use in re-flow/solder processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Notes:
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 PTSM is also available in black, see page 51.
 Observe derating curve.
 1) UL/CUL on request.
 2) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
 3) Applies for single-phase networks.

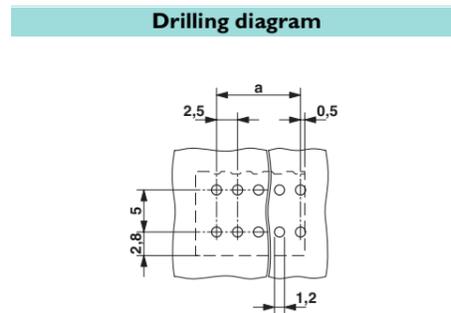
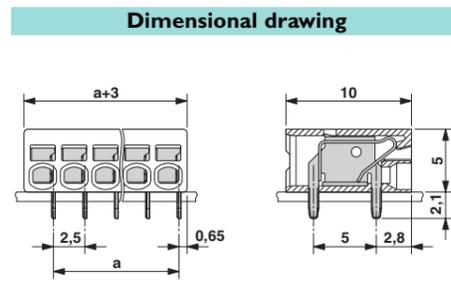
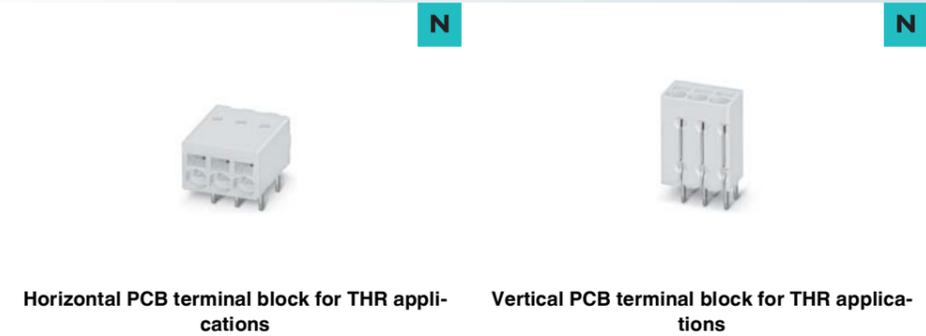
Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

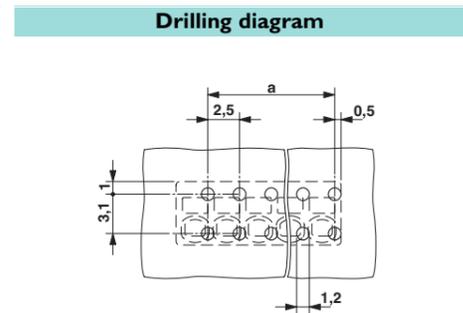
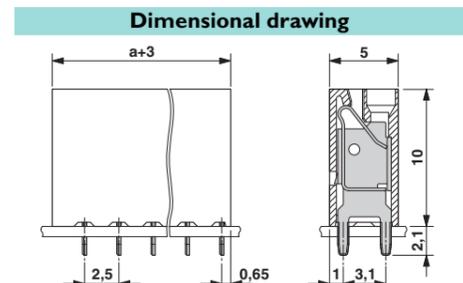
PTSM 0,5/ ...-2,5-H THR WH R24	PTSM 0,5/ ...-2,5-V THR WH R44
6 / 0.5	6 / 0.5
250 ³⁾	250 ³⁾
2.5	2.5
0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ²⁾	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 ²⁾
0.25 - 0.5	0.25 - 0.5
-	-
- / -	- / -
-	-
-	-
-	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
160 250 ³⁾ 400	160 250 ³⁾ 400
2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
6	6
PA / I	PA / I
V0	V0
1.2 / 0,3 x 0,8 mm	1.2 / 0,3 x 0,8 mm

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-H THR WH R24	1814498	530
PTSM 0,5/ 3-2,5-H THR WH R32	1814508	530
PTSM 0,5/ 4-2,5-H THR WH R32	1814511	530
PTSM 0,5/ 5-2,5-H THR WH R32	1814524	530
PTSM 0,5/ 6-2,5-H THR WH R32	1814537	530
PTSM 0,5/ 7-2,5-H THR WH R32	1814540	530
PTSM 0,5/ 8-2,5-H THR WH R32	1814553	530



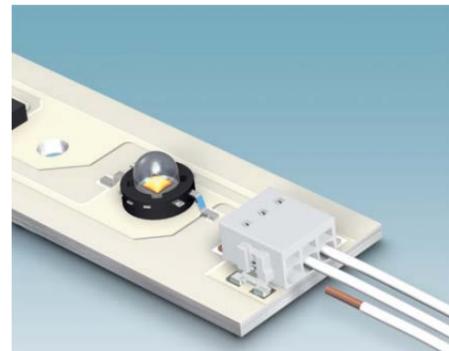
Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-V THR WH R44	1814566	310
PTSM 0,5/ 3-2,5-V THR WH R44	1814579	310
PTSM 0,5/ 4-2,5-V THR WH R44	1814582	310
PTSM 0,5/ 5-2,5-V THR WH R44	1814595	310
PTSM 0,5/ 6-2,5-V THR WH R44	1814605	310
PTSM 0,5/ 7-2,5-V THR WH R44	1814618	310
PTSM 0,5/ 8-2,5-V THR WH R44	1814621	310

PCB terminal blocks and connectors with 2.5 mm pitch

PCB terminal blocks and connectors with 2.5 mm pitch

SMD spring-cage PCB terminal blocks up to 0.75 mm²



Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

PTSM is also available in black, see page 53.

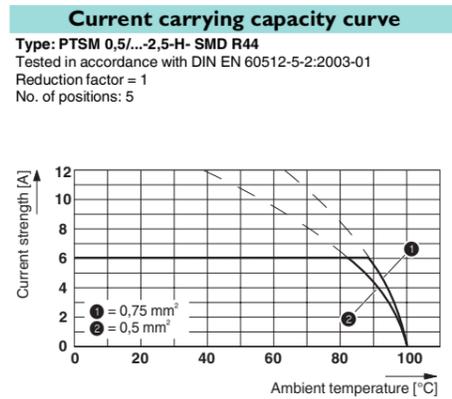
1) UL/CUL on request.

2) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.

3) Applies for single-phase networks.

- Compact low-profile SMD print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Rugged soldering anchors for safe mechanical fastening on the surface
- Specially designed to be used in pure SMT processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	6 / 0.5
Rated insulation voltage for pollution degree 2 [V]	250 ³⁾
Pitch [mm]	2.5
Connection capacity [mm ²] / [mm ²] / AWG	0.14 - 0.5 / 0.2 - 5 / 26 - 20 ²⁾
Solid / stranded [mm ²]	0.25 - 0.5
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with ferrules with plastic sleeve [mm ²]	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	63 250 ³⁾ 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- 26 - 20 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

PTSM 0,5/...-2,5-H SMD WH R24	PTSM 0,5/...-2,5-V SMD WH R44
6 / 0.5	6 / 0.5
250 ³⁾	160 ³⁾
2.5	2.5
0.14 - 0.5 / 0.2 - 5 / 26 - 20 ²⁾	0.14 - 0.5 / 0.2 - 0.5 / 26 - 20 ²⁾
0.25 - 0.5	0.25 - 0.5
-	-
- / -	- / -
-	-
-	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
63 250 ³⁾ 320	63 160 ³⁾ 320
2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D
- - -	- - -
- - -	- - -
- 26 - 20 -	- 26 - 20 -
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
6	6
PA / I	PA / I
V0	V0

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

N

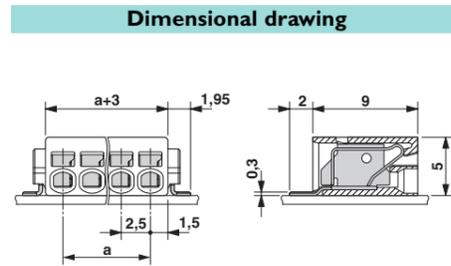
N



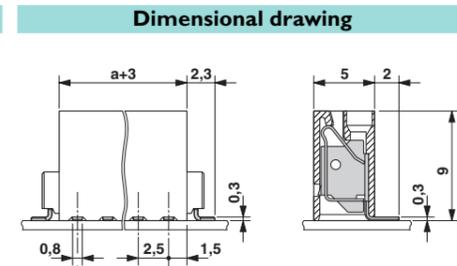
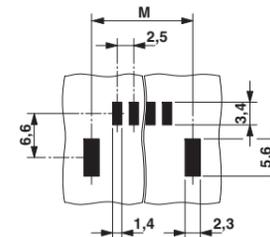
Horizontal PCB terminal block for SMD applications



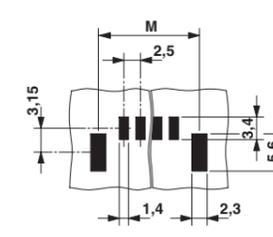
Vertical PCB terminal block for SMD applications



PCB layout
Dimension M: 7.7 mm



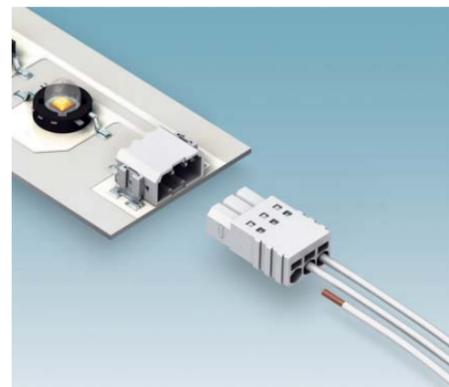
PCB layout
Dimension M: 8.4 mm



Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-H SMD WH R24	1814634	770
PTSM 0,5/ 3-2,5-H SMD WH R44	1814647	770
PTSM 0,5/ 4-2,5-H SMD WH R24	1814650	770
PTSM 0,5/ 5-2,5-H SMD WH R44	1814663	770
PTSM 0,5/ 6-2,5-H SMD WH R44	1814676	770
PTSM 0,5/ 7-2,5-H SMD WH R44	1814689	770
PTSM 0,5/ 8-2,5-H SMD WH R44	1814692	770

Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-V SMD WH R44	1814702	400
PTSM 0,5/ 3-2,5-V SMD WH R44	1814715	400
PTSM 0,5/ 4-2,5-V SMD WH R44	1814728	400
PTSM 0,5/ 5-2,5-V SMD WH R44	1814731	400
PTSM 0,5/ 6-2,5-V SMD WH R44	1814744	400
PTSM 0,5/ 7-2,5-V SMD WH R44	1814757	400
PTSM 0,5/ 8-2,5-V SMD WH R44	1814760	400

Plugs with spring connection up to 0.75 mm²



- Miniature connector with 2.5 mm pitch
- Can be plugged into THR and SMD headers
- Conductor connection up to 0.75 mm²
- High current carrying capacity up to 6 A

Notes:
 PTSM is also available in black, see page 55.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

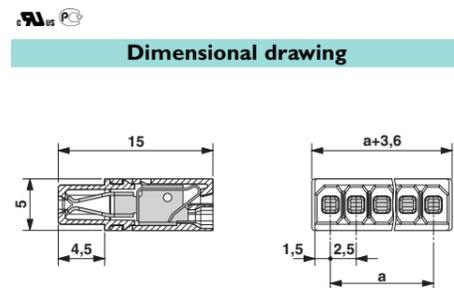
Accessories		
For all types	Type	Page
For PTSM connectors only		
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 6 / 0.5
Rated insulation voltage for pollution degree 2	[V] 250
Pitch	[mm] 2.5
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.14 - 0.5 / 0.2 - 0.5 / 24 - 20
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 100 250 320
Rated surge voltage	[kV] 2.5 2.5 2.5
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 150 - -
Nominal current	[A] 5 - -
Connection capacity AWG	AWG 26 - 20 - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

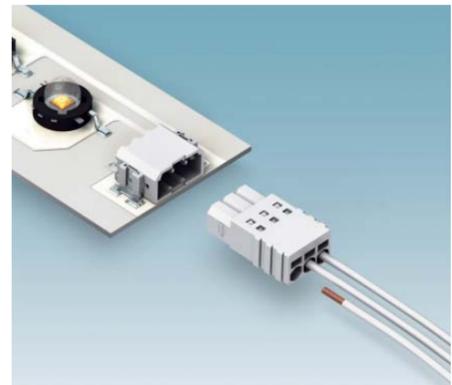


Spring-cage plug for conductor cross sections up to 0.75 mm²



Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-P-2,5 WH	1704853	250
PTSM 0,5/ 3-P-2,5 WH	1704854	250
PTSM 0,5/ 4-P-2,5 WH	1704857	250
PTSM 0,5/ 5-P-2,5 WH	1704858	100
PTSM 0,5/ 6-P-2,5 WH	1704859	100
PTSM 0,5/ 7-P-2,5 WH	1704860	100
PTSM 0,5/ 8-P-2,5 WH	1704861	100

SMT and THR headers for pierce contact or spring-cage connectors



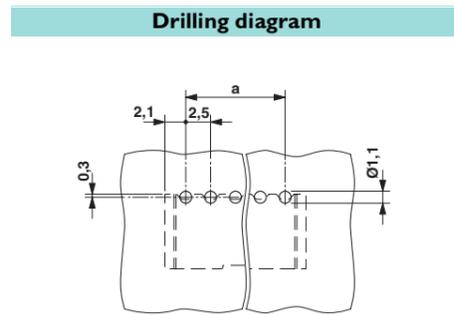
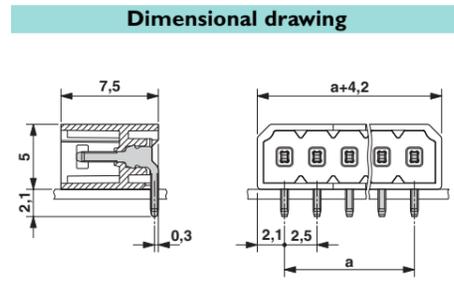
- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Robust solder anchor for secure, mechanical fixing to the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM...-/PTPM...connectors
- Versions with and without positioning pins are available
- 2.5 mm pitch

Notes:
 PTSM is also available in black, see page 59.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 1) UL/CUL on request.
 2) Current carrying dependent upon connector used.
 3) Applies for single-phase networks.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	6 ²⁾
Rated insulation voltage for pollution degree 2 [V]	250 ³⁾
Pitch [mm]	2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	125 250 ³⁾ 320
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.1 / 0,6 x 0,6 mm

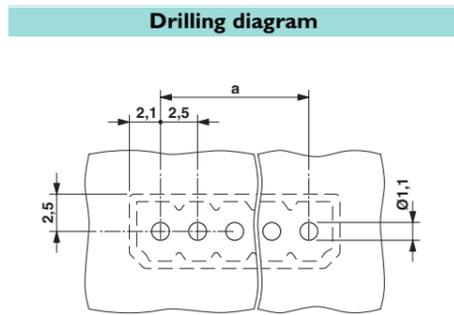
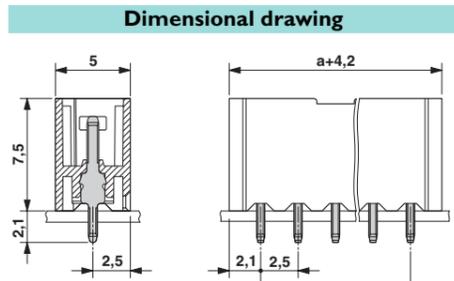
PTSM 0,5/...-HH-2,5-THR WH R16		PTSM 0,5/ ...-HV-2,5-THR WH R32			PTSM 0,5/...-HH0-2,5-SMD WH R32		
Technical data in accordance to IEC / DIN VDE		Technical data in accordance to IEC / DIN VDE			Technical data in accordance to IEC / DIN VDE		
Rated current [A]		6 ²⁾			6 ²⁾		
Rated insulation voltage for pollution degree 2 [V]		250 ³⁾			250 ³⁾		
Pitch [mm]		2.5			2.5		
Insulation coordination		Insulation coordination			Insulation coordination		
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage [V]		125	250 ³⁾	320	125	250 ³⁾	320
Rated surge voltage [kV]		2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL) Use Group		B	C	D	B	C	D
Nominal voltage [V]		-	-	-	-	-	-
Nominal current [A]		-	-	-	-	-	-
Connection capacity AWG		-	-	-	-	-	-
Approval data (CSA) Use Group		B	C	D	B	C	D
Nominal voltage [V]		-	-	-	-	-	-
Nominal current [A]		-	-	-	-	-	-
Connection capacity AWG		-	-	-	-	-	-
General data		General data			General data		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions [mm]		1.1 / 0,6 x 0,6 mm			1.1 / 0,6 x 0,6 mm		

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50



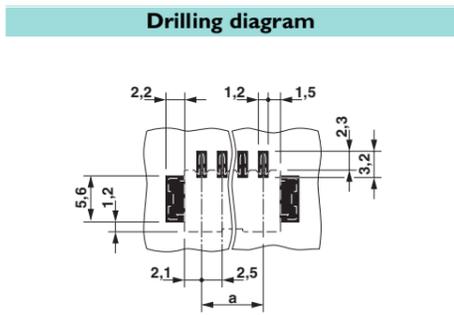
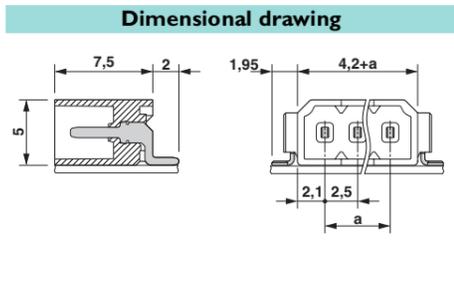
Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HH-2,5-THR WH R16	1814841	500
PTSM 0,5/ 3-HH-2,5-THR WH R32	1814854	500
PTSM 0,5/ 4-HH-2,5-THR WH R32	1814867	500
PTSM 0,5/ 5-HH-2,5-THR WH R32	1814870	500
PTSM 0,5/ 6-HH-2,5-THR WH R32	1814883	500
PTSM 0,5/ 7-HH-2,5-THR WH R44	1814896	500
PTSM 0,5/ 8-HH-2,5-THR WH R44	1814906	500



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HV-2,5-THR WH R32	1815264	330
PTSM 0,5/ 3-HV-2,5-THR WH R32	1815277	330
PTSM 0,5/ 4-HV-2,5-THR WH R32	1815280	330
PTSM 0,5/ 5-HV-2,5-THR WH R32	1815293	330
PTSM 0,5/ 6-HV-2,5-THR WH R32	1815303	330
PTSM 0,5/ 7-HV-2,5-THR WH R44	1815316	330
PTSM 0,5/ 8-HV-2,5-THR WH R44	1815329	330



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HH0-2,5-SMD WH R32	1814919	600
PTSM 0,5/ 3-HH0-2,5-SMD WH R32	1814922	600
PTSM 0,5/ 4-HH0-2,5-SMD WH R32	1814935	600
PTSM 0,5/ 5-HH0-2,5-SMD WH R32	1814948	600
PTSM 0,5/ 6-HH0-2,5-SMD WH R44	1814951	600
PTSM 0,5/ 7-HH0-2,5-SMD WH R44	1814964	600
PTSM 0,5/ 8-HH0-2,5-SMD WH R44	1814977	600

Inverted SMD and THR base strips



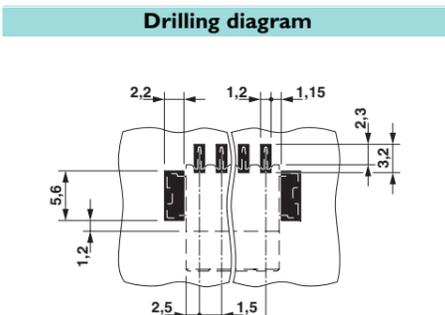
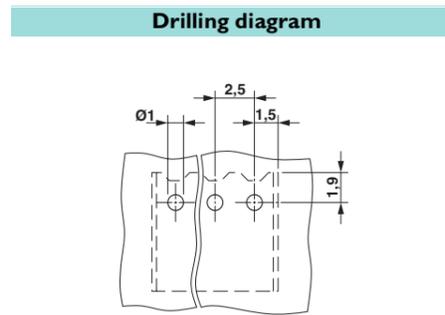
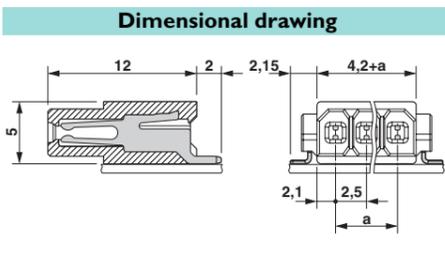
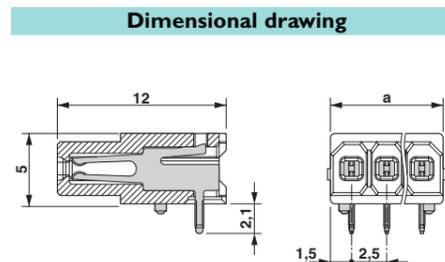
- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Rugged soldering anchors for safe mechanical fastening on the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM base strips
- Versions with and without positioning pins are available
- 2.5 mm pitch
- Robust mechanical design

Notes:
 PTSM is also available in black, see page 61.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 1) UL/CUL on request.
 2) Applies for single-phase networks.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	6
Rated insulation voltage for pollution degree 2 [V]	250 ²⁾
Pitch [mm]	2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 250 ²⁾ 400
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1 / 0,6 x 0,4 mm

PTSM 0,5/...-HHI-2,5-THR WH R24		PTSM 0,5/...-HHI0-2,5-SMD WHR24	
6		6	
250 ²⁾		250 ²⁾	
2.5		2.5	
III / 3	III / 2	II / 2	III / 3
160	250 ²⁾	400	160
2.5	2.5	2.5	2.5
B	C	D	B
-	-	-	-
-	-	-	-
B	C	D	B
-	-	-	-
-	-	-	-
-	-	-	-
PA / I			PA / I
V0			V0
1 / 0,6 x 0,4 mm			- / -

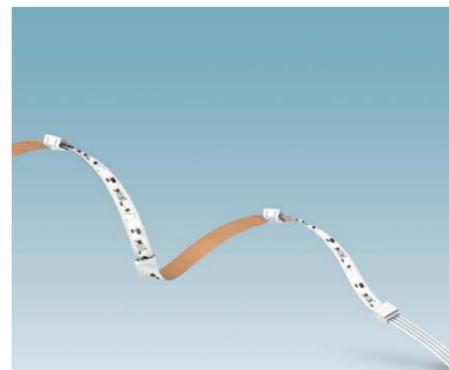
No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50



Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HHI-2,5-THR WH R24	1814980	500
PTSM 0,5/ 3-HHI-2,5-THR WH R32	1814993	500
PTSM 0,5/ 4-HHI-2,5-THR WH R32	1815002	500
PTSM 0,5/ 5-HHI-2,5-THR WH R32	1815015	500
PTSM 0,5/ 6-HHI-2,5-THR WH R32	1815028	500
PTSM 0,5/ 7-HHI-2,5-THR WH R32	1815031	500
PTSM 0,5/ 8-HHI-2,5-THR WH R32	1815044	500

Ordering data		
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HHI0-2,5-SMD WHR24	1815196	500
PTSM 0,5/ 3-HHI0-2,5-SMD WHR44	1815206	500
PTSM 0,5/ 4-HHI0-2,5-SMD WHR44	1815219	500
PTSM 0,5/ 5-HHI0-2,5-SMD WHR44	1815222	500
PTSM 0,5/ 6-HHI0-2,5-SMD WHR44	1815235	500
PTSM 0,5/ 7-HHI0-2,5-SMD WHR44	1815248	500
PTSM 0,5/ 8-HHI0-2,5-SMD WHR44	1815251	500

Connection terminal block
For flexible LED PCBs



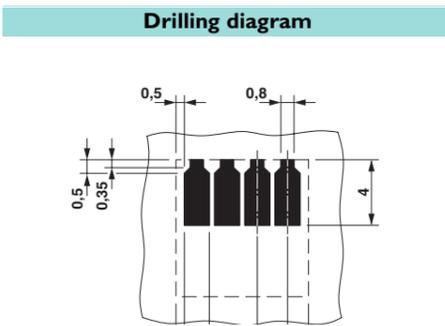
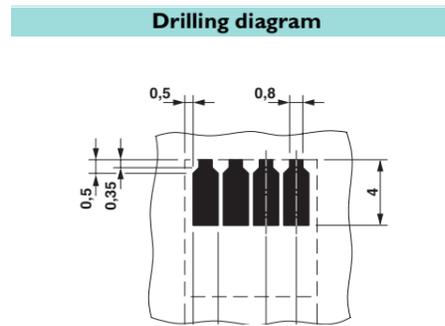
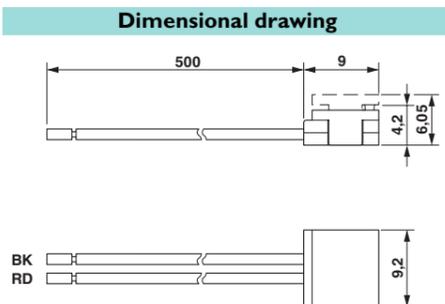
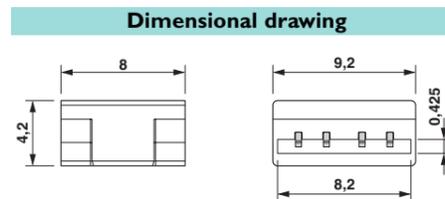
- Easy and reliable contacting of flexible LED PCBs
- Making the connection establishes a positive-locking link with the LED strips
- Small design with high power transmission
- Available as direct plug-in and PCB connectors
- The direct plug-in connector is supplied complete with cables 500 mm in length
- Version according to IEC 60838-2-2
- Strips must be compatible with connection technology

Notes:
 1) UL/CUL on request.
 2) Depending on the flexible PCB, a maximum of 10 A is permitted for plugs and connectors.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	10 ²) / 0.34
Rated insulation voltage for pollution degree 2 [V]	25
Pitch [mm]	1.8
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	- / - / -
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	25 25 25
Rated surge voltage [kV]	
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PBT / IIIa
Inflammability class according to UL 94	V0

PTF 0,3/ ...-BB-1,8-H			PTF 0,3/ ...-WB-1,8-H			
Rated current / conductor cross section [A] / [mm ²]	10 ²) / 0.34		10 ²) / 0.34			
Rated insulation voltage for pollution degree 2 [V]	25		25			
Pitch [mm]	1.8		1.8			
Connection capacity						
Solid / stranded [mm ²] / [mm ²] / AWG	- / - / -		- / - / -			
Insulation coordination						
Surge voltage category / pollution degree	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage [V]	25	25	25	25	25	25
Rated surge voltage [kV]						
Approval data (UL/CUL) Use Group	B	C	D	B	C	D
Nominal voltage [V]	-	-	-	-	-	-
Nominal current [A]	-	-	-	-	-	-
Connection capacity AWG	-	-	-	-	-	-
Approval data (CSA) Use Group	B	C	D	B	C	D
Nominal voltage [V]	-	-	-	-	-	-
Nominal current [A]	-	-	-	-	-	-
Connection capacity AWG	-	-	-	-	-	-
General data						
Type of insulation material / insulation material group	PBT / IIIa			PBT / IIIa		
Inflammability class according to UL 94	V0			V0		

No. of pos.
2
4



Ordering data		
Type	Order No.	Pcs. / Pkt.
PTF 0,3/ 2-WB-1,8-H	1826091	25
PTF 0,3/ 4-WB-1,8-H	1826114	25

Ordering data		
Type	Order No.	Pcs. / Pkt.
PTF 0,3/ 4-BB-1,8-H	1826101	25

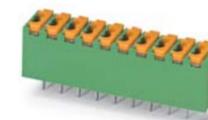
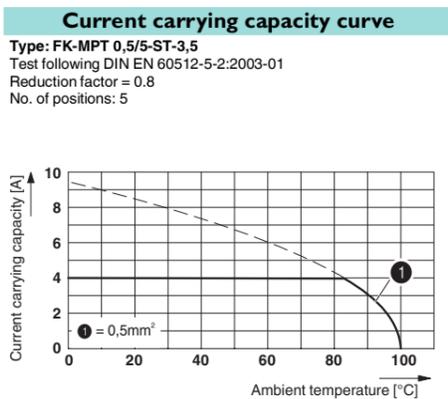
PCB terminals with spring-cage double connection up to 2 x 0.5 mm²



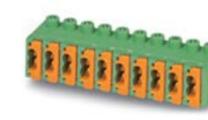
- Miniature connection terminal for solid conductors
- Pitch 3.5 mm
- Easy looping through of potentials thanks to double connection
- Increased operating convenience thanks to the direct plug-in method with release button
- Available as a PCB terminal block or as connector

Notes:
 Larger packing units are available on request.
 For PST 1,0/...-3,5 pin strips, see page 432.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

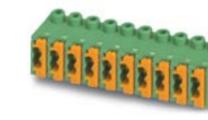
Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8	797



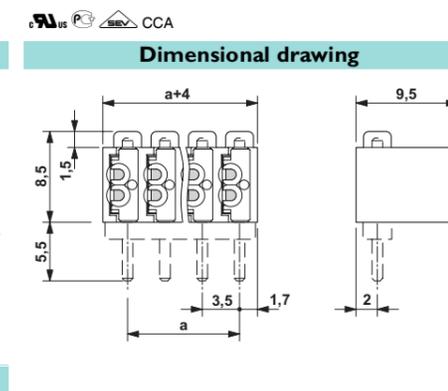
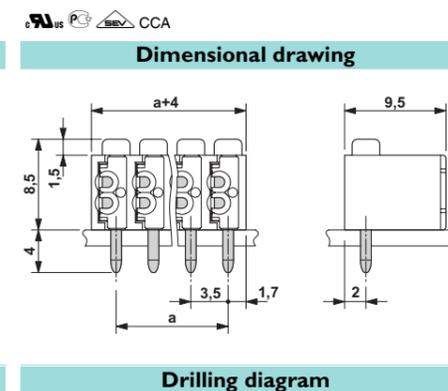
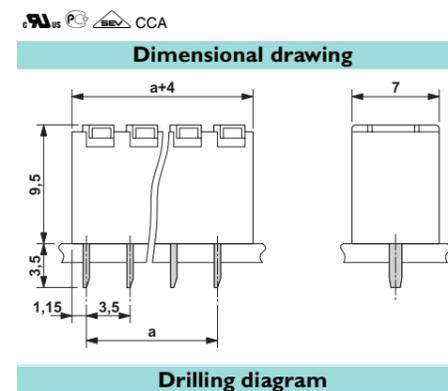
Connection direction vertical to the PCB



Connection direction parallel to the PCB



Can be plugged onto PST 1,0/...-3,5 pin strip



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

FK-MPT 0,5/ ...-3,5	FK-MPT 0,5/ ...-3,5-H	FK-MPT 0,5/ ...-ST-3,5
4 ¹⁾ / 0,5	4 ¹⁾ / 0,5	4 ¹⁾ / 0,5
250	250	250
3.5	3.5	3.5
0.12 - 0.5 / - / 26 - 20	0.12 - 0.5 / - / 26 - 20	0.12 - 0.5 / - / 26 - 20
-	-	-
-	-	-
- / -	- / -	- / -
III / 3	III / 2	II / 2
160	250	250
2.5	2.5	2.5
B	C	D
300	-	300
4	-	4
28 - 20	-	28 - 20
B	C	D
-	-	-
-	-	-
-	-	-
6.5	6.5	6.5
PBT / IIIa	PBT / IIIa	PBT / IIIa
V0	V0	V0
1 / 0,4 x 0,9 mm	1.2 / 1 mm	- / -

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MPT 0,5/ 2-3,5	1891069	50
FK-MPT 0,5/ 3-3,5	1891072	50
FK-MPT 0,5/ 4-3,5	1891085	50
FK-MPT 0,5/ 5-3,5	1891098	50
FK-MPT 0,5/ 6-3,5	1891108	50
FK-MPT 0,5/ 7-3,5	1891111	50
FK-MPT 0,5/ 8-3,5	1891124	50
FK-MPT 0,5/ 9-3,5	1891137	50
FK-MPT 0,5/10-3,5	1891140	50
FK-MPT 0,5/11-3,5	1891153	50
FK-MPT 0,5/12-3,5	1891166	50
FK-MPT 0,5/13-3,5	1891179	50
FK-MPT 0,5/14-3,5	1891182	50
FK-MPT 0,5/15-3,5	1891195	50
FK-MPT 0,5/16-3,5	1891205	50

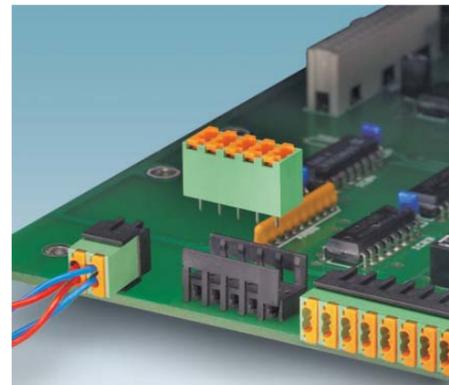
Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MPT 0,5/ 2-3,5-H	1928767	50
FK-MPT 0,5/ 3-3,5-H	1928770	50
FK-MPT 0,5/ 4-3,5-H	1928783	50
FK-MPT 0,5/ 5-3,5-H	1928796	50
FK-MPT 0,5/ 6-3,5-H	1928806	50
FK-MPT 0,5/ 7-3,5-H	1928819	50
FK-MPT 0,5/ 8-3,5-H	1928822	50
FK-MPT 0,5/ 9-3,5-H	1928835	50
FK-MPT 0,5/10-3,5-H	1928848	50
FK-MPT 0,5/11-3,5-H	1928851	50
FK-MPT 0,5/12-3,5-H	1928864	50
FK-MPT 0,5/13-3,5-H	1928877	50
FK-MPT 0,5/14-3,5-H	1928880	50
FK-MPT 0,5/15-3,5-H	1928893	50
FK-MPT 0,5/16-3,5-H	1928903	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MPT 0,5/ 2-ST-3,5	1913921	50
FK-MPT 0,5/ 3-ST-3,5	1913934	50
FK-MPT 0,5/ 4-ST-3,5	1913947	50
FK-MPT 0,5/ 5-ST-3,5	1913950	50
FK-MPT 0,5/ 6-ST-3,5	1913963	50
FK-MPT 0,5/ 7-ST-3,5	1913976	50
FK-MPT 0,5/ 8-ST-3,5	1913989	50
FK-MPT 0,5/ 9-ST-3,5	1913992	50
FK-MPT 0,5/10-ST-3,5	1914001	50
FK-MPT 0,5/11-ST-3,5	1914027	50
FK-MPT 0,5/12-ST-3,5	1914030	50
FK-MPT 0,5/13-ST-3,5	1914043	50
FK-MPT 0,5/14-ST-3,5	1914056	50
FK-MPT 0,5/15-ST-3,5	1914069	50
FK-MPT 0,5/16-ST-3,5	1914072	50

FK-MPT 0,5/...-IC(V)A base strips for spring-cage miniature terminal blocks

Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.



- Shock-proof header for FK-MPT PCB terminal block
- Pitch 3.5 mm
- Simple pre-assembly
- Available in vertical and horizontal versions
- With closed side panels
- Protection against mismatching due to the asymmetrical layout of sockets

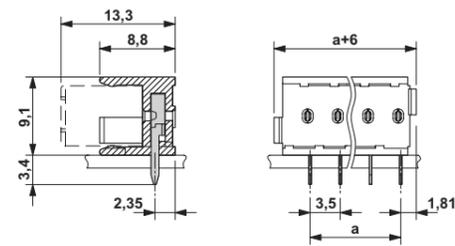
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	3
Rated insulation voltage for pollution degree 2 [V]	250
Pitch [mm]	3.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 250 250
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	4 - 4
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1 / 0,3 x 0,9 mm



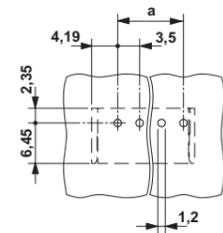
Base strip for FK-MPT 0,5/...-3,5, plug-in direction horizontal to the PCB



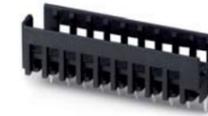
Dimensional drawing



Drilling diagram



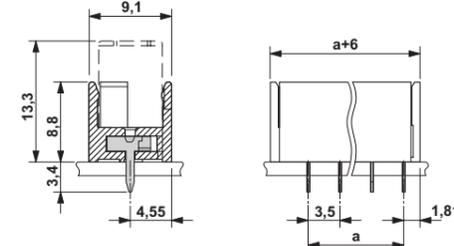
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
FK-MPT 0,5/ 2-ICA-3,5	1930328	50	
FK-MPT 0,5/ 3-ICA-3,5	1930331	50	
FK-MPT 0,5/ 4-ICA-3,5	1930344	50	
FK-MPT 0,5/ 5-ICA-3,5	1930357	50	
FK-MPT 0,5/ 6-ICA-3,5	1930360	50	
FK-MPT 0,5/ 7-ICA-3,5	1930373	50	
FK-MPT 0,5/ 8-ICA-3,5	1930386	50	
FK-MPT 0,5/ 9-ICA-3,5	1930399	50	
FK-MPT 0,5/10-ICA-3,5	1930409	50	
FK-MPT 0,5/11-ICA-3,5	1930412	50	
FK-MPT 0,5/12-ICA-3,5	1930425	50	
FK-MPT 0,5/13-ICA-3,5	1930438	50	
FK-MPT 0,5/14-ICA-3,5	1930441	50	
FK-MPT 0,5/15-ICA-3,5	1930454	50	
FK-MPT 0,5/16-ICA-3,5	1930467	50	



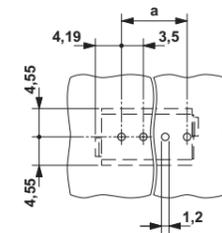
Base strip for FK-MPT 0,5/...-3,5, plug-in direction vertical to the PCB



Dimensional drawing

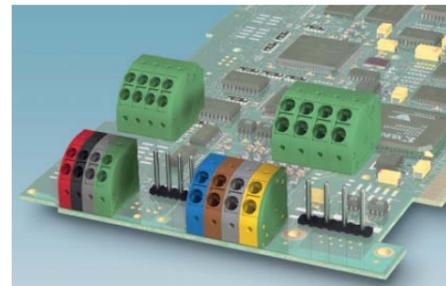


Drilling diagram



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
FK-MPT 0,5/ 2-ICVA-3,5	1930470	50	
FK-MPT 0,5/ 3-ICVA-3,5	1930483	50	
FK-MPT 0,5/ 4-ICVA-3,5	1930496	50	
FK-MPT 0,5/ 5-ICVA-3,5	1930506	50	
FK-MPT 0,5/ 6-ICVA-3,5	1930519	50	
FK-MPT 0,5/ 7-ICVA-3,5	1930522	50	
FK-MPT 0,5/ 8-ICVA-3,5	1930535	50	
FK-MPT 0,5/ 9-ICVA-3,5	1930548	50	
FK-MPT 0,5/10-ICVA-3,5	1930551	50	
FK-MPT 0,5/11-ICVA-3,5	1930564	50	
FK-MPT 0,5/12-ICVA-3,5	1930577	50	
FK-MPT 0,5/13-ICVA-3,5	1930580	50	
FK-MPT 0,5/14-ICVA-3,5	1930593	50	
FK-MPT 0,5/15-ICVA-3,5	1930603	50	
FK-MPT 0,5/16-ICVA-3,5	1930616	50	

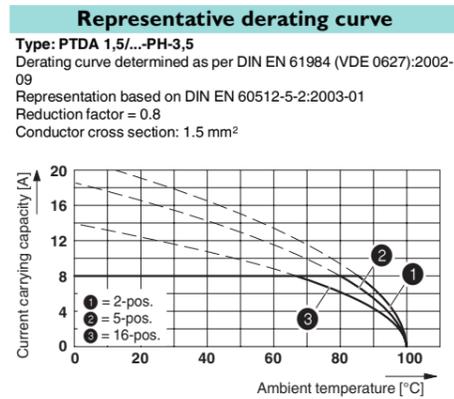
Angled PCB terminals with spring-cage double connection up to 2 x 1.5 mm²



Notes:
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
 PTDA 1,5/...-PH-3,5 can be plugged onto the PST 1,0/...-3,5 pin strip, see page 432.
 Pitch spacers for the PTDA series are available on request. For further information, visit www.phoenixcontact.net/products.
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

- Spring-cage double connection using direct plug-in method with a release button
- Pitch 3.5 mm
- Large terminal block capacity with compact dimensions
- Optional color coding
- Connector with optional mechanical coding
- Attractive design for connection in the field of vision
- PCB terminal block and plug-in connector available

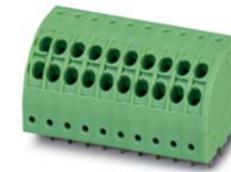
Accessories		
For all types	Type	Page
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Keying profile CP-PTDA Order No. 1731361	38
	Marker cards SK 3,5/2,8	797
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



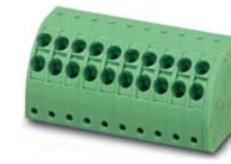
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	13.5) / 1.5
Rated insulation voltage for pollution degree 2 [V]	240
Pitch [mm]	3.5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 0.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 1.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 0.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	200 240 400
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	12 - 10
Connection capacity AWG	24 - 16 24 - 16 24 - 16
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 1,0 x 0,4

PTDA 1,5/ ...-3,5		PTDA 1,5/ ...-PH-3,5	
Rated current / conductor cross section [A] / [mm ²]	13.5) / 1.5	8) / 1.5	1.5
Rated insulation voltage for pollution degree 2 [V]	240	240	240
Pitch [mm]	3.5	3.5	3.5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 0.5	0.5 - 0.5	0.5 - 0.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 0.5	0.5 - 0.5	0.5 - 0.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	200 240 400	160 240 400	160 240 400
Rated surge voltage [kV]	2.5 2.5 2.5	2.5 2.5 2.5	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - 300	150 - 300	150 - 300
Nominal current [A]	12 - 10	10 - 10	10 - 10
Connection capacity AWG	24 - 16 24 - 16 24 - 16	24 - 16 24 - 16 24 - 16	24 - 16 24 - 16 24 - 16
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	- - -	- - -	- - -
Nominal current [A]	- - -	- - -	- - -
Connection capacity AWG	- - -	- - -	- - -
General data			
Stripping length [mm]	10	10	10
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 1,0 x 0,4	- / -	- / -

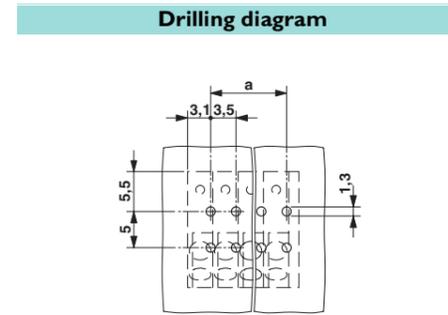
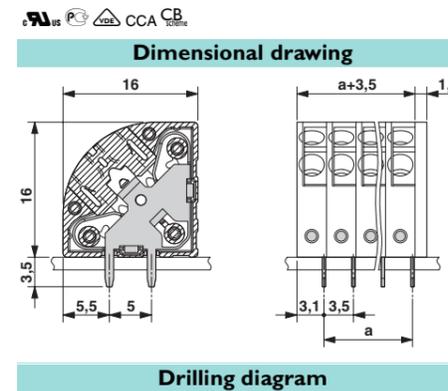
No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50



PCB terminal block with spring-cage double connection



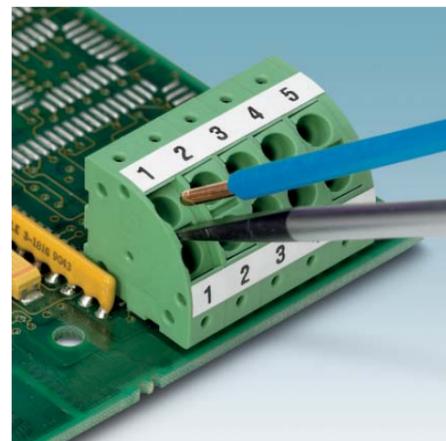
Plug component with spring-cage double connection, can be plugged onto PST 1,0/...-3,5 pin strip



Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTDA 1,5/ 2-3,5	1724912	50
PTDA 1,5/ 3-3,5	1724925	50
PTDA 1,5/ 4-3,5	1724938	50
PTDA 1,5/ 5-3,5	1724951	50
PTDA 1,5/ 6-3,5	1724964	50
PTDA 1,5/ 7-3,5	1724977	50
PTDA 1,5/ 8-3,5	1724996	50
PTDA 1,5/ 9-3,5	1725003	50
PTDA 1,5/10-3,5	1725016	50
PTDA 1,5/11-3,5	1725029	50
PTDA 1,5/12-3,5	1725042	50
PTDA 1,5/13-3,5	1725055	50
PTDA 1,5/14-3,5	1725068	50
PTDA 1,5/15-3,5	1725081	50
PTDA 1,5/16-3,5	1725094	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTDA 1,5/ 2-PH-3,5	1725107	250
PTDA 1,5/ 3-PH-3,5	1725120	250
PTDA 1,5/ 4-PH-3,5	1725133	250
PTDA 1,5/ 5-PH-3,5	1725146	100
PTDA 1,5/ 6-PH-3,5	1725159	100
PTDA 1,5/ 7-PH-3,5	1725172	100
PTDA 1,5/ 8-PH-3,5	1725185	100
PTDA 1,5/ 9-PH-3,5	1725198	100
PTDA 1,5/10-PH-3,5	1725211	100
PTDA 1,5/11-PH-3,5	1725224	50
PTDA 1,5/12-PH-3,5	1725237	50
PTDA 1,5/13-PH-3,5	1725250	50
PTDA 1,5/14-PH-3,5	1725263	50
PTDA 1,5/15-PH-3,5	1725276	50
PTDA 1,5/16-PH-3,5	1725289	50

Angled PCB terminals with spring-cage double connection up to 2 x 2.5 mm²



- Spring-cage double connection using direct plug-in method with a release button
- 5.0 mm pitch
- Large terminal block capacity with compact dimensions
- Optional color coding
- Connector with optional mechanical coding
- Attractive design for connection in the field of vision
- PCB terminal block and plug-in connector available

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

PTDA 2,5/...-PH-5,0 can be plugged onto the PST 1,3/...-5,0 pin strip, see page 434.

8 mm ferrules can be used.

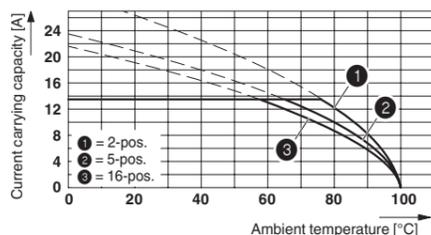
Pitch spacers for the PTDA series are available on request. For further information, visit www.phoenixcontact.net/products.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Keying profile CP-PTDA Order No. 1731361	38
	Marker cards SK 5/3,8	798
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Representative derating curve

Type: PTDA 2,5/ 16-PH-5,0
Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
Conductor cross section: 2.5 mm²

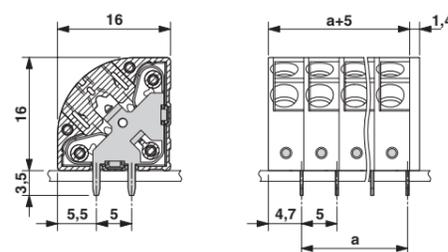


PCB terminal block with spring-cage double connection

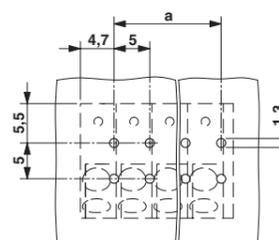
Plug component with spring-cage double connection, can be plugged onto PST 1,3/...-5,0 pin strip



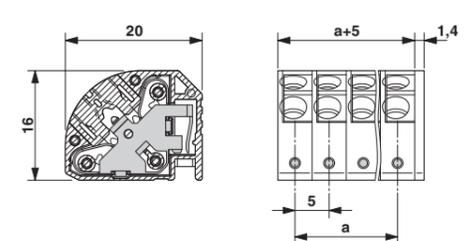
Dimensional drawing



Drilling diagram



Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTDA 2,5/ 2-5,0	1725302	50
PTDA 2,5/ 3-5,0	1725315	50
PTDA 2,5/ 4-5,0	1725328	50
PTDA 2,5/ 5-5,0	1725341	50
PTDA 2,5/ 6-5,0	1725354	50
PTDA 2,5/ 7-5,0	1725367	50
PTDA 2,5/ 8-5,0	1725380	50
PTDA 2,5/ 9-5,0	1725393	50
PTDA 2,5/10-5,0	1725406	50
PTDA 2,5/11-5,0	1725419	50
PTDA 2,5/12-5,0	1725432	50
PTDA 2,5/13-5,0	1725445	50
PTDA 2,5/14-5,0	1725458	50
PTDA 2,5/15-5,0	1725471	50
PTDA 2,5/16-5,0	1725484	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTDA 2,5/ 2-PH-5,0	1725497	250
PTDA 2,5/ 3-PH-5,0	1725510	250
PTDA 2,5/ 4-PH-5,0	1725523	250
PTDA 2,5/ 5-PH-5,0	1725536	100
PTDA 2,5/ 6-PH-5,0	1725549	100
PTDA 2,5/ 7-PH-5,0	1725562	100
PTDA 2,5/ 8-PH-5,0	1725575	100
PTDA 2,5/ 9-PH-5,0	1725588	100
PTDA 2,5/10-PH-5,0	1725601	100
PTDA 2,5/11-PH-5,0	1725614	50
PTDA 2,5/12-PH-5,0	1725627	50
PTDA 2,5/13-PH-5,0	1725640	50
PTDA 2,5/14-PH-5,0	1725653	50
PTDA 2,5/15-PH-5,0	1725666	50
PTDA 2,5/16-PH-5,0	1725679	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTDA 2,5/ ...-5,0			PTDA 2,5/ ...-PH-5,0		
24 ¹⁾ / 2,5			13.5 ¹⁾ / 2,5		
400			400		
5			5		
0.2 - 2.5 / 0.2 - 2.5 / 24 - 14			0.2 - 2.5 / 0.2 - 2.5 / 24 - 14		
0.5 - 2.5			0.5 - 2.5		
0.5 - 1			0.5 - 1		
0.2 - 2.5 / 0.2 - 2.5			0.2 - 2.5 / 0.2 - 2.5		
0.5 - 2.5			0.5 - 2.5		
0.5 - 1			0.5 - 1		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
320	400	630	320	400	630
4	4	4	4	4	4
B	C	D	B	C	D
300	-	300	300	150	300
15	-	10	13.5	13.5	10
24 - 14	24 - 14	24 - 14	24 - 14	24 - 14	24 - 14
B	C	D	B	C	D
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
10			10		
PA / I			PA / I		
V0			V0		
1.3 / 1,0 x 0,4			- / -		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

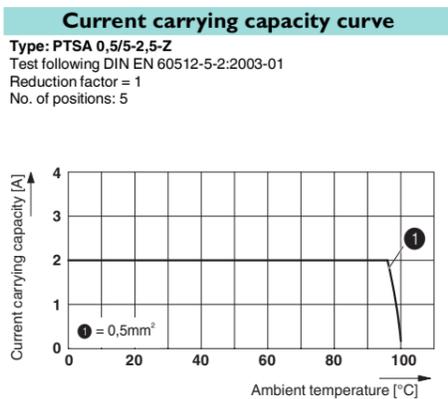
Angled spring-cage PCB terminal blocks up to 0.5 mm²



- Compact type with simple operation and direct plug-in method
- 2.5 mm pitch
- Increase in the dielectric strength and the mechanical stability thanks to zig-zag pinning. The pinning process always begins from the front right position. Special pinning available on request.
- Color coding and mixed pitch as an option

Notes:
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 2) Only with pitch spacer.

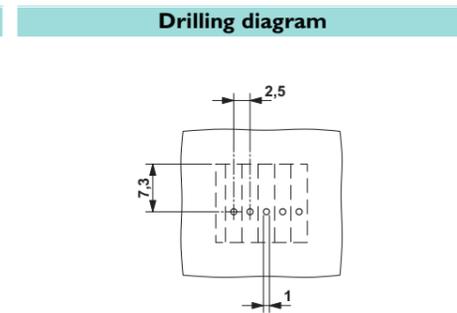
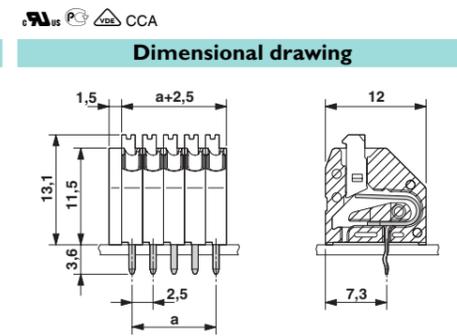
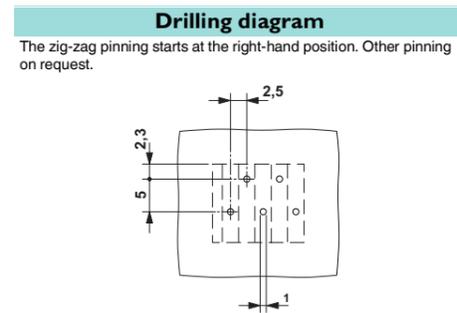
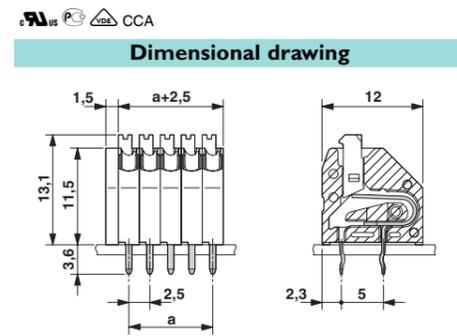
Accessories		
For all types	Type	Page
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	



PCB terminal blocks with 2.5 mm pitch and off-set solder pins



PCB terminal blocks with 2.5 mm pitch, solder pins at the front



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTSA 0,5/ ...-2,5-Z	PTSA 0,5/ ...-2,5-F
2 ¹⁾ / 0,5	2 ¹⁾ / 0,5
250	250
2,5	2,5
0.14 - 0.5 / 0.2 - 0.5 / 24 - 20	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20
-	-
-	-
- / -	- / -
-	-
-	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
160 250 400	63 250 250
2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D
300 - 300	150 - 300 ²⁾
2 - 2	2 - 2 ²⁾
26 - 20 - 26 - 20	26 - 20 - 26 - 20
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
9	9
PA / I	PA / I
V0	V0
1 / 0,4 x 0,75	1 / 0,4 x 0,75

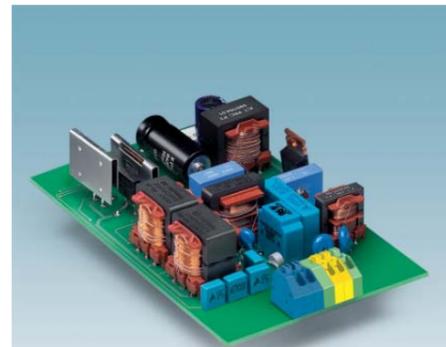
No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
9	20.00
10	22.50
11	25.00
12	27.50
13	30.00
14	32.50
15	35.00
16	37.50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
PTSA 0,5/ 2-2,5-Z	1990009	250
PTSA 0,5/ 3-2,5-Z	1990012	250
PTSA 0,5/ 4-2,5-Z	1990025	250
PTSA 0,5/ 5-2,5-Z	1990038	100
PTSA 0,5/ 6-2,5-Z	1990041	100
PTSA 0,5/ 7-2,5-Z	1990054	100
PTSA 0,5/ 8-2,5-Z	1990067	100
PTSA 0,5/ 9-2,5-Z	1990070	100
PTSA 0,5/10-2,5-Z	1990083	100
PTSA 0,5/11-2,5-Z	1990096	50
PTSA 0,5/12-2,5-Z	1990106	50
PTSA 0,5/13-2,5-Z	1990119	50
PTSA 0,5/14-2,5-Z	1990122	50
PTSA 0,5/15-2,5-Z	1990135	50
PTSA 0,5/16-2,5-Z	1990148	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
PTSA 0,5/ 2-2,5-F	1989748	250
PTSA 0,5/ 3-2,5-F	1989751	250
PTSA 0,5/ 4-2,5-F	1989764	250
PTSA 0,5/ 5-2,5-F	1989777	100
PTSA 0,5/ 6-2,5-F	1989780	100
PTSA 0,5/ 7-2,5-F	1989793	100
PTSA 0,5/ 8-2,5-F	1989803	100
PTSA 0,5/ 9-2,5-F	1989816	100
PTSA 0,5/10-2,5-F	1989829	100
PTSA 0,5/11-2,5-F	1989832	50
PTSA 0,5/12-2,5-F	1989845	50
PTSA 0,5/13-2,5-F	1989858	50
PTSA 0,5/14-2,5-F	1989861	50
PTSA 0,5/15-2,5-F	1989874	50
PTSA 0,5/16-2,5-F	1989887	50

Angled spring-cage PCB terminal blocks up to 1.5 mm²

Notes:
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

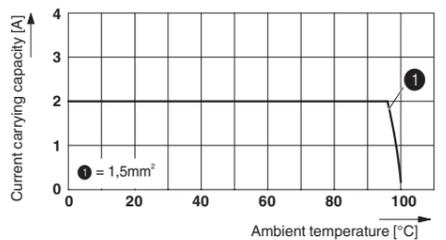


- Compact type with simple operation and direct plug-in method
- Pitch 3.5 mm
- Increase in the dielectric strength and the mechanical stability thanks to zig-zag pinning. The pinning process always begins from the front right position. Special pinning available on request.
- Color coding and mixed pitch as an option

Accessories		
For all types	Type	Page
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Current carrying capacity curve

Type: PTSA 1,5/5-3,5-Z
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5

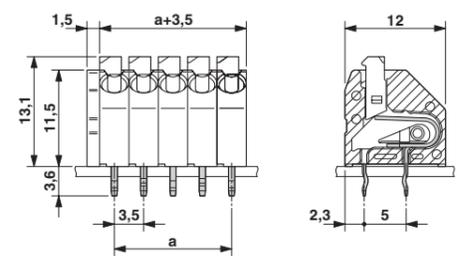


PCB terminal blocks with 3.5 mm pitch and off-set solder pins



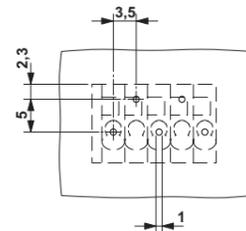
PCB terminal blocks with 3.5 mm pitch, solder pins at the front

Dimensional drawing

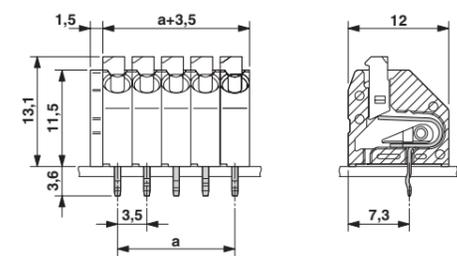


Drilling diagram

The zig-zag pinning starts at the right-hand position. Other pinning on request.

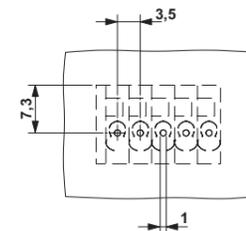


Dimensional drawing



Drilling diagram

The zig-zag pinning starts at the right-hand position. Other pinning on request.



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm]

PTSA 1,5/ ...-3,5-Z

Rated current / conductor cross section	2 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2	400
Pitch	3.5
Connection capacity	0.5 - 1.5 / 0.5 - 1.5 / 20 - 16
Solid / stranded	0.5 - 1
Stranded with ferrules without plastic sleeve	0.5 - 0.5
Stranded with ferrules with plastic sleeve	- / -
Stranded with TWIN ferrule with plastic sleeve	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	250 400 630
Rated surge voltage	4 4 4
Approval data (UL/CUL)	B C D
Nominal voltage	300 - 300
Nominal current	2 - 2
Connection capacity AWG	24 - 16 - 24 - 16
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	9
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	1 / 0,4 x 0,75 mm

PTSA 1,5/ ...-3,5-F

Rated current / conductor cross section	2 ¹⁾ / 1.5
Rated insulation voltage for pollution degree 2	250
Pitch	3.5
Connection capacity	0.5 - 1.5 / 0.5 - 1.5 / 20 - 16
Solid / stranded	0.5 - 1
Stranded with ferrules without plastic sleeve	0.5 - 0.5
Stranded with ferrules with plastic sleeve	- / -
Stranded with TWIN ferrule with plastic sleeve	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	200 250 400
Rated surge voltage	2.5 2.5 2.5
Approval data (UL/CUL)	B C D
Nominal voltage	300 - 300
Nominal current	2 - 2
Connection capacity AWG	24 - 16 - 24 - 16
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	9
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	1 / 0,4 x 0,75 mm

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

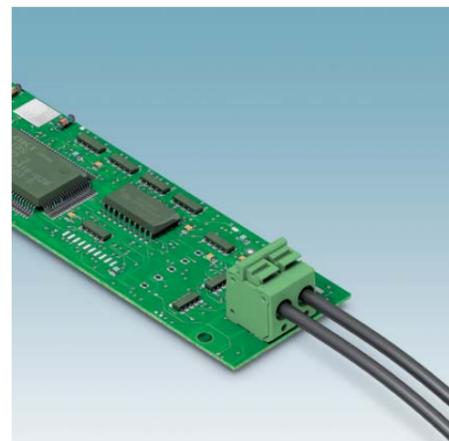
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTSA 1,5/ 2-3,5-Z	1985195	250
PTSA 1,5/ 3-3,5-Z	1985205	250
PTSA 1,5/ 4-3,5-Z	1985218	250
PTSA 1,5/ 5-3,5-Z	1985221	100
PTSA 1,5/ 6-3,5-Z	1985234	100
PTSA 1,5/ 7-3,5-Z	1985247	100
PTSA 1,5/ 8-3,5-Z	1985250	100
PTSA 1,5/ 9-3,5-Z	1985263	100
PTSA 1,5/10-3,5-Z	1985276	100
PTSA 1,5/11-3,5-Z	1985289	50
PTSA 1,5/12-3,5-Z	1985292	50
PTSA 1,5/13-3,5-Z	1985302	50
PTSA 1,5/14-3,5-Z	1985315	50
PTSA 1,5/15-3,5-Z	1985328	50
PTSA 1,5/16-3,5-Z	1985331	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTSA 1,5/ 2-3,5-F	1984963	250
PTSA 1,5/ 3-3,5-F	1984976	250
PTSA 1,5/ 4-3,5-F	1984989	250
PTSA 1,5/ 5-3,5-F	1984992	100
PTSA 1,5/ 6-3,5-F	1985001	100
PTSA 1,5/ 7-3,5-F	1985014	100
PTSA 1,5/ 8-3,5-F	1985027	100
PTSA 1,5/ 9-3,5-F	1985030	100
PTSA 1,5/10-3,5-F	1985043	100
PTSA 1,5/11-3,5-F	1985056	50
PTSA 1,5/12-3,5-F	1985069	50
PTSA 1,5/13-3,5-F	1985072	50
PTSA 1,5/14-3,5-F	1985085	50
PTSA 1,5/15-3,5-F	1985098	50
PTSA 1,5/16-3,5-F	1985108	50

Horizontal PCB terminal block for conductor cross sections of up to 2.5 mm²



- Conductor connection with direct plug-in method
- 5.0 mm pitch
- 7.5 mm pitch available on request
- Conductor cross section up to 2.5 mm²
- Finger-operated release button
- Test connection
- Compact design

Notes:

A load current of 16 A is possible for a cable cross section of 2.5 mm²

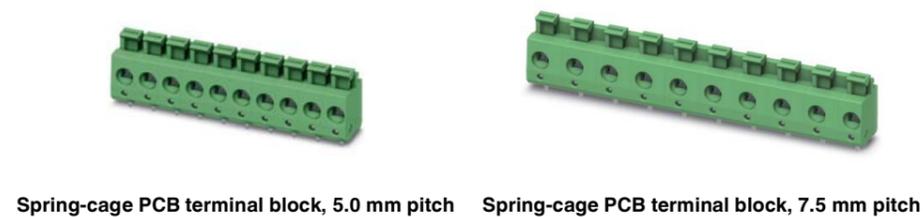
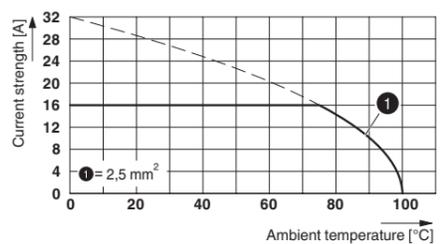
1) For 2.5 mm² solid conductor type, please observe the installation note in the data sheet.

2) Please observe derating curve.

Accessories		
For all types	Type	Page
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Current carrying capacity curve

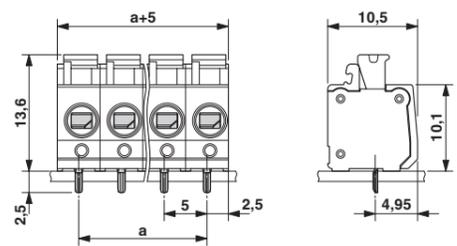
Type: PTS 1,5/5-0-H
 Tested in accordance with DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



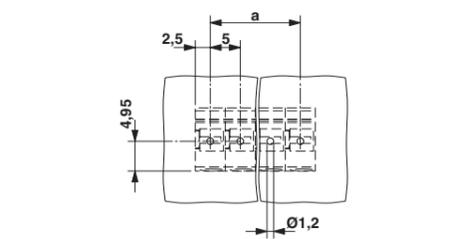
Spring-cage PCB terminal block, 5.0 mm pitch

Spring-cage PCB terminal block, 7.5 mm pitch

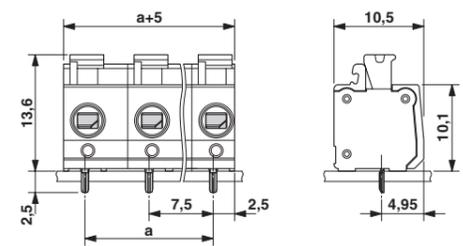
Dimensional drawing



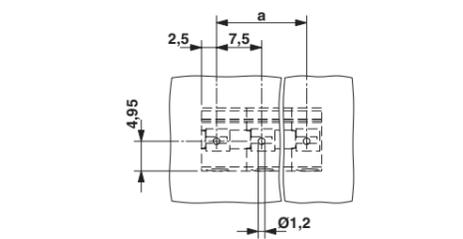
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTS 1,5/ 2-5,0-H	1792863	250
PTS 1,5/ 3-5,0-H	1792876	250
PTS 1,5/ 4-5,0-H	1792889	250
PTS 1,5/ 5-5,0-H	1792892	100
PTS 1,5/ 6-5,0-H	1792902	100
PTS 1,5/ 7-5,0-H	1792915	100
PTS 1,5/ 8-5,0-H	1792928	100
PTS 1,5/ 9-5,0-H	1792931	100
PTS 1,5/10-5,0-H	1792944	100
PTS 1,5/11-5,0-H	1792957	50
PTS 1,5/12-5,0-H	1792960	50
7.5 mm pitch, color: Green		
PTS 1,5/ 2-7,5-H	1703083	250
PTS 1,5/ 3-7,5-H	1703084	250
PTS 1,5/ 4-7,5-H	1703086	250
PTS 1,5/ 5-7,5-H	1703087	100
PTS 1,5/ 6-7,5-H	1703088	100
PTS 1,5/ 7-7,5-H	1703090	100
PTS 1,5/ 8-7,5-H	1703091	100
PTS 1,5/ 9-7,5-H	1703093	100
PTS 1,5/10-7,5-H	1703094	100
PTS 1,5/11-7,5-H	1703095	50
PTS 1,5/12-7,5-H	1703096	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTS 1,5/ 2-5,0-H	1792863	250
PTS 1,5/ 3-5,0-H	1792876	250
PTS 1,5/ 4-5,0-H	1792889	250
PTS 1,5/ 5-5,0-H	1792892	100
PTS 1,5/ 6-5,0-H	1792902	100
PTS 1,5/ 7-5,0-H	1792915	100
PTS 1,5/ 8-5,0-H	1792928	100
PTS 1,5/ 9-5,0-H	1792931	100
PTS 1,5/10-5,0-H	1792944	100
PTS 1,5/11-5,0-H	1792957	50
PTS 1,5/12-5,0-H	1792960	50
7.5 mm pitch, color: Green		
PTS 1,5/ 2-7,5-H	1703083	250
PTS 1,5/ 3-7,5-H	1703084	250
PTS 1,5/ 4-7,5-H	1703086	250
PTS 1,5/ 5-7,5-H	1703087	100
PTS 1,5/ 6-7,5-H	1703088	100
PTS 1,5/ 7-7,5-H	1703090	100
PTS 1,5/ 8-7,5-H	1703091	100
PTS 1,5/ 9-7,5-H	1703093	100
PTS 1,5/10-7,5-H	1703094	100
PTS 1,5/11-7,5-H	1703095	50
PTS 1,5/12-7,5-H	1703096	50

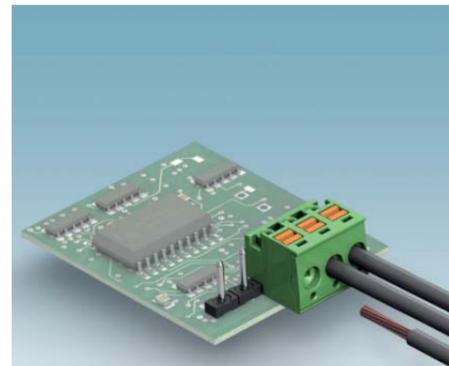
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTS 1,5/ ...-5,0-H			PTS 1,5/ ...-7,5-H		
12 ²) / 2,5 ¹)			12 ²) / 2,5 ¹)		
400			630		
5			7.5		
0.14 - 2.5 ¹) / 0.14 - 2.5 / 26 - 14			0.14 - 2.5 ¹) / 0.14 - 2.5 / 26 - 14		
0.25 - 1.5			0.25 - 1.5		
0.25 - 1.5			0.25 - 1.5		
-			-		
-			-		
-			-		
III / 3 III / 2 II / 2			III / 3 III / 2 II / 2		
250 400 630			400 630 1000		
4 4 4			6 6 6		
B C D			B C D		
300 - 300			300 - 300		
10 - 10			10 - 10		
26 - 14 - 26 - 14			26 - 14 - 26 - 14		
B C D			B C D		
-			-		
-			-		
-			-		
-			-		
8			8		
PA / I			PA / I		
V0			V0		
1.2 / 0,83 x 0,5 mm			1.2 / 0,83 x 0,5 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Plug with spring connection for pin strips

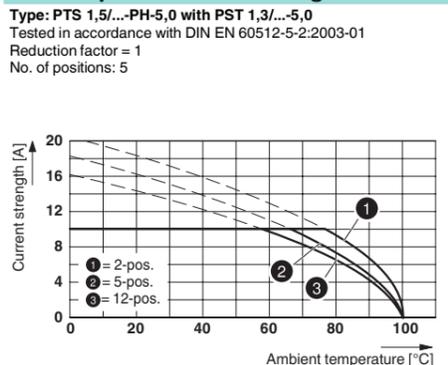


- Compact external dimensions
- Conductor connection with Push-in technology
- 5.0 mm pitch
- Compatible with standard pin strips
- Connection cross section of up to 2.5 mm²
- Coding option and test connection
- Monoblock design
- Pin strip with latching available

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 1) UL/CUL on request.
 2) Please observe derating curve.

Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
Only for PTS 1,5...PH	Keying profile CP-PTDA Order No. 1731361	38
Only for PTS 1,5...PH and PTS 1,5/...H	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

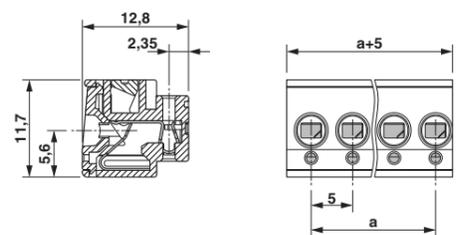
Representative derating curve



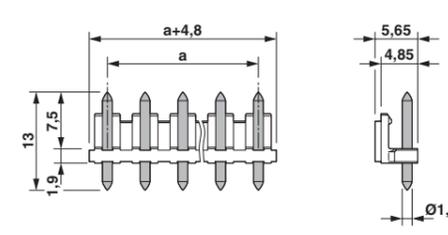
Spring-cage connector, can be plugged into PST 1,3/...-5,0 and PST 1,3/...-5,0-SF pin strips

Pin strip with snap-lock fitting

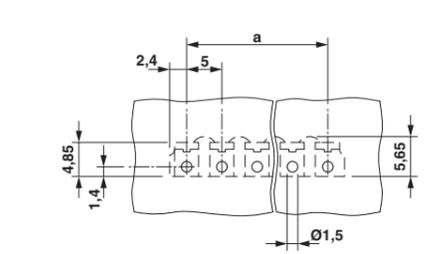
Dimensional drawing



Dimensional drawing



Drilling diagram



Technical data

	PTS 1,5/ ...-PH-5,0	PST 1,3/ ...-5,0-SF
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section [A] / [mm ²]	10 ²) / 2,5	12 ²)
Rated insulation voltage for pollution degree 2 [V]	400	320
Pitch [mm]	5	5
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 26 - 14	- / - / -
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5	-
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 1	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²] / [mm ²] / AWG	- / -	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-	-
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 400 600	250 320 600
Rated surge voltage [kV]	4 4 4	4 4 4
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	- - -	- - -
Nominal current [A]	- - -	- - -
Connection capacity AWG	- - -	- - -
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	- - -	- - -
Nominal current [A]	- - -	- - -
Connection capacity AWG	- - -	- - -
General data		
Stripping length [mm]	8	-
Type of insulation material / insulation material group	PA / I	PA / IIIa
Inflammability class according to UL 94	V0	V0

Ordering data

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTS 1,5/ 2-PH-5,0	1805517	250
PTS 1,5/ 3-PH-5,0	1805520	250
PTS 1,5/ 4-PH-5,0	1805533	250
PTS 1,5/ 5-PH-5,0	1805546	100
PTS 1,5/ 6-PH-5,0	1805559	100
PTS 1,5/ 7-PH-5,0	1805562	100
PTS 1,5/ 8-PH-5,0	1805575	100
PTS 1,5/ 9-PH-5,0	1805588	100
PTS 1,5/10-PH-5,0	1805591	100
PTS 1,5/11-PH-5,0	1805601	50
PTS 1,5/12-PH-5,0	1805614	50

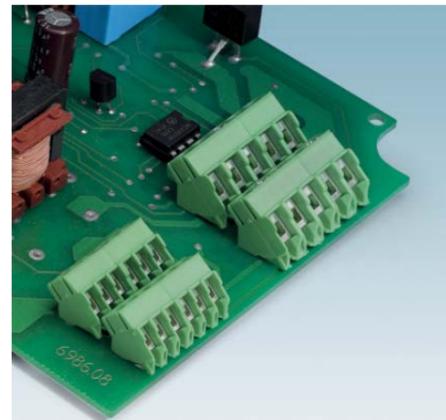
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-5,0-SF	1805627	250
PST 1,3/ 3-5,0-SF	1805630	250
PST 1,3/ 4-5,0-SF	1805643	250
PST 1,3/ 5-5,0-SF	1805656	100
PST 1,3/ 6-5,0-SF	1805669	100
PST 1,3/ 7-5,0-SF	1805672	100
PST 1,3/ 8-5,0-SF	1805685	100

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-5,0-SF	1805627	250
PST 1,3/ 3-5,0-SF	1805630	250
PST 1,3/ 4-5,0-SF	1805643	250
PST 1,3/ 5-5,0-SF	1805656	100
PST 1,3/ 6-5,0-SF	1805669	100
PST 1,3/ 7-5,0-SF	1805672	100
PST 1,3/ 8-5,0-SF	1805685	100

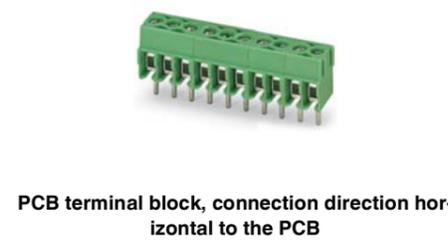
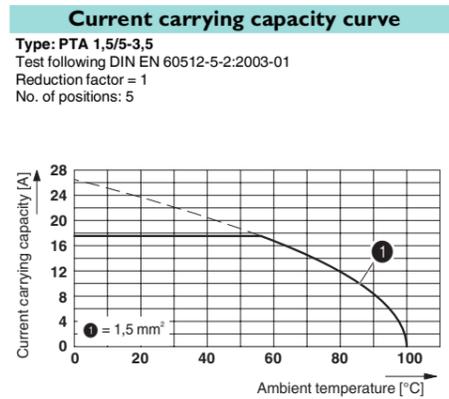
PCB terminal blocks with a screw connection up to 1.5 mm²



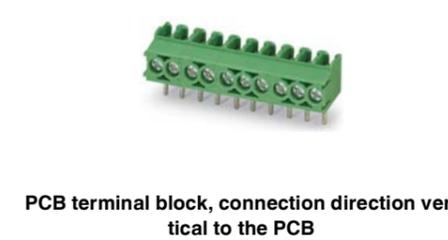
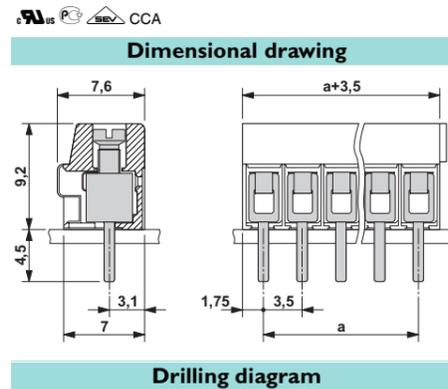
- High terminal block capacity thanks to rectangular terminal block space
- Pitch 3.5 mm
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design with high current carrying capacity
- Plus/minus screw

Notes:
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 2) When using ferrules, max. 125 V are only achieved in combination with surge voltage category/pollution degree II/2.

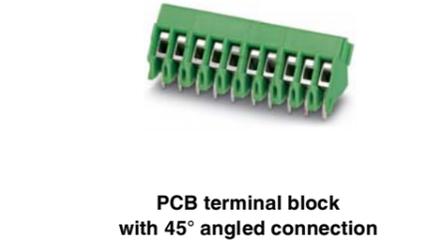
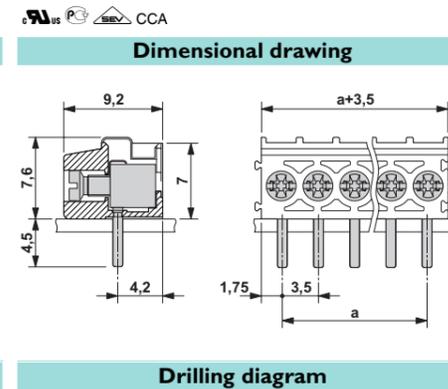
Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	



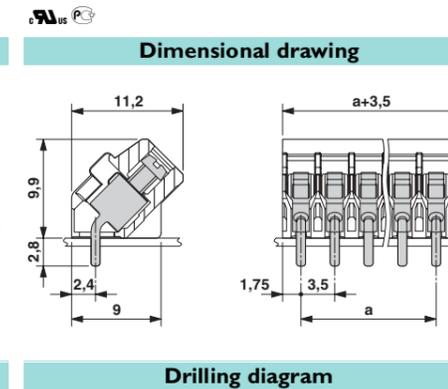
PCB terminal block, connection direction horizontal to the PCB



PCB terminal block, connection direction vertical to the PCB



PCB terminal block with 45° angled connection



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PT 1,5/ ...-3,5-H	PT 1,5/ ...-3,5-V	PTA 1,5/ ...-3,5
17.5) / 1.5	17.5) / 1.5	17.5) / 1.5
200	200	200
3.5	3.5	3.5
0.2 - 1.5 / 0.2 - 1.5 / 26 - 16	0.2 - 1.5 / 0.2 - 1.5 / 26 - 16	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16
0.25 - 0.75 ²	0.25 - 0.75 ²	0.25 - 0.75 ²
0.2 - 0.34 / 0.2 - 0.5	0.2 - 0.34 / 0.2 - 0.5	0.14 - 0.5 / 0.14 - 0.5
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
160 200 400	160 200 400	160 200 400
2.5 2.5 2.5	2.5 2.5 2.5	2.5 2.5 2.5
B C D	B C D	B C D
300 - 300	300 - 300	300 - 300
10 - 10	10 - 10	10 - 10
26 - 16 - 26 - 16	26 - 16 - 26 - 16	26 - 16 - 26 - 16
B C D	B C D	B C D
- - -	- - -	- - -
- - -	- - -	- - -
- - -	- - -	- - -
5	5	5
M2	M2	M2
0.22 - 0.25	0.22 - 0.25	0.22 - 0.25
PA / I	PA / I	PA / I
V0	V0	V0
1.2 / 0.9 mm	1.2 / 0.9 mm	1.2 / 0.9 mm

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-3,5-H	1984617	250
PT 1,5/ 3-3,5-H	1984620	250
PT 1,5/ 4-3,5-H	1984633	250
PT 1,5/ 5-3,5-H	1984646	100
PT 1,5/ 6-3,5-H	1984659	100
PT 1,5/ 7-3,5-H	1984662	100
PT 1,5/ 8-3,5-H	1984675	100
PT 1,5/ 9-3,5-H	1984688	100
PT 1,5/10-3,5-H	1984691	100
PT 1,5/11-3,5-H	1984701	50
PT 1,5/12-3,5-H	1984714	50
PT 1,5/13-3,5-H	1984727	50
PT 1,5/14-3,5-H	1984730	50
PT 1,5/15-3,5-H	1984743	50
PT 1,5/16-3,5-H	1984756	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-3,5-V	1984769	250
PT 1,5/ 3-3,5-V	1984772	250
PT 1,5/ 4-3,5-V	1984785	250
PT 1,5/ 5-3,5-V	1984798	100
PT 1,5/ 6-3,5-V	1984808	100
PT 1,5/ 7-3,5-V	1984811	100
PT 1,5/ 8-3,5-V	1984824	100
PT 1,5/ 9-3,5-V	1984837	100
PT 1,5/10-3,5-V	1984840	100
PT 1,5/11-3,5-V	1984853	50
PT 1,5/12-3,5-V	1984866	50
PT 1,5/13-3,5-V	1984879	50
PT 1,5/14-3,5-V	1984882	50
PT 1,5/15-3,5-V	1984895	50
PT 1,5/16-3,5-V	1984905	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTA 1,5/ 2-3,5	1988956	250
PTA 1,5/ 3-3,5	1988969	250
PTA 1,5/ 4-3,5	1988972	250
PTA 1,5/ 5-3,5	1988985	100
PTA 1,5/ 6-3,5	1988998	100
PTA 1,5/ 7-3,5	1989007	100
PTA 1,5/ 8-3,5	1989010	100
PTA 1,5/ 9-3,5	1989023	100
PTA 1,5/10-3,5	1989036	100
PTA 1,5/11-3,5	1989049	50
PTA 1,5/12-3,5	1989052	50
PTA 1,5/13-3,5	1989065	50
PTA 1,5/14-3,5	1989078	50
PTA 1,5/15-3,5	1989081	50
PTA 1,5/16-3,5	1989094	50

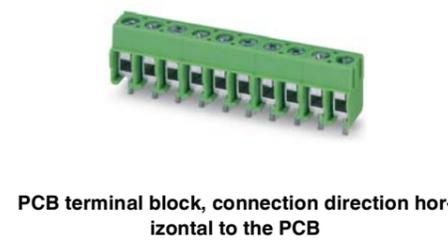
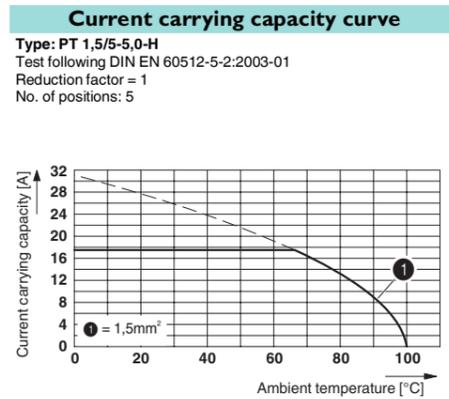
PCB terminal blocks with a screw connection up to 2.5 mm²



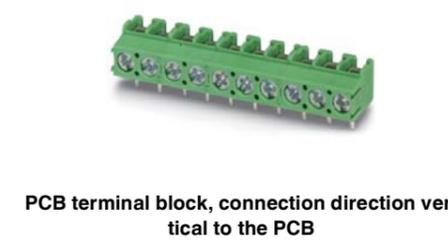
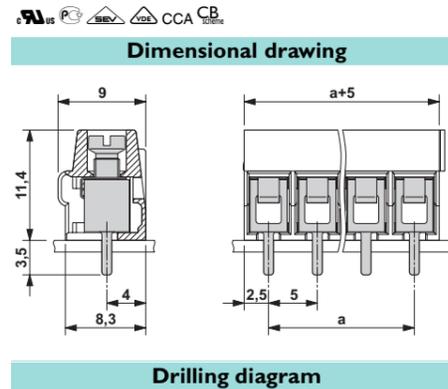
Notes:
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 2) When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.

- High terminal block capacity thanks to rectangular terminal block space
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design with high current carrying capacity
- Plus/minus screw

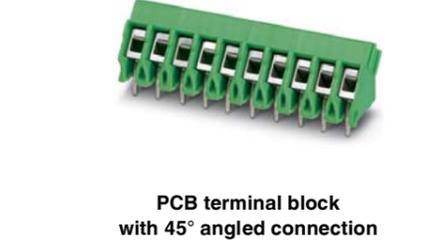
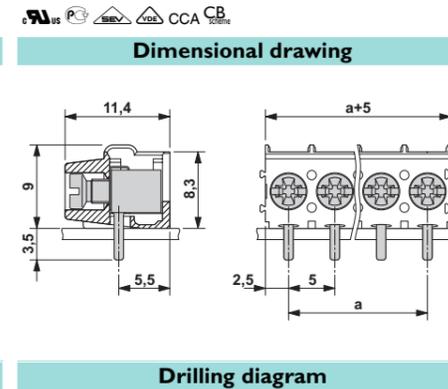
Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



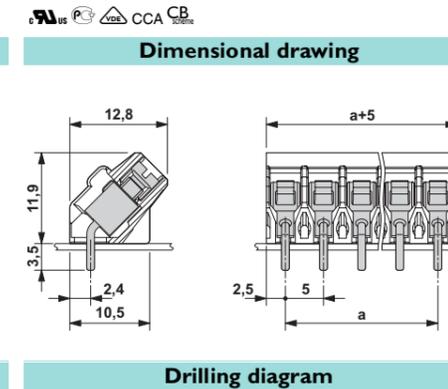
PCB terminal block, connection direction horizontal to the PCB



PCB terminal block, connection direction vertical to the PCB



PCB terminal block with 45° angled connection



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PT 1,5/ ...-5,0-H			PT 1,5/ ...-5,0-V			PTA 1,5/ ...-5,0		
17.5 ¹⁾ / 2.5			17.5 ¹⁾ / 2.5			17.5 ¹⁾ / 2.5		
400			400			400		
5			5			5		
0.2 - 2.5 / 0.2 - 2.5 / 26 - 14			0.2 - 2.5 / 0.2 - 2.5 / 26 - 14			0.14 - 2.5 / 0.14 - 2.5 / 26 - 14		
0.25 - 1.5 ²⁾			0.25 - 1.5 ²⁾			0.25 - 1.5 ²⁾		
0.25 - 1.5 ²⁾			0.25 - 1.5 ²⁾			0.25 - 1.5 ²⁾		
0.2 - 0.75 / 0.2 - 0.75			0.2 - 0.75 / 0.2 - 0.75			0.14 - 1 / 0.14 - 0.75		
0.25 - 0.34 ²⁾			0.25 - 0.34 ²⁾			0.25 - 0.34 ²⁾		
0.5 - 0.75 ²⁾			0.5 - 0.75 ²⁾			0.25 - 0.75 ²⁾		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
250	400	630	250	400	630	250	400	630
4	4	4	4	4	4	4	4	4
B	C	D	B	C	D	B	C	D
300	-	300	300	-	300	300	-	300
18	-	10	18	-	10	15	-	10
26 - 12	-	26 - 12	26 - 12	-	26 - 12	26 - 12	-	26 - 12
B	C	D	B	C	D	B	C	D
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
5			5			5		
M2,6			M2,6			M2,6		
0.35 - 0.4			0.35 - 0.4			0.35 - 0.4		
PA / I			PA / I			PA / I		
V0			V0			V0		
1.3 / 1,0 mm			1.3 / 1,0 mm			1.3 / 1,0 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-5,0-H	1935161	250
PT 1,5/ 3-5,0-H	1935174	250
PT 1,5/ 4-5,0-H	1935187	250
PT 1,5/ 5-5,0-H	1935190	100
PT 1,5/ 6-5,0-H	1935200	100
PT 1,5/ 7-5,0-H	1935213	100
PT 1,5/ 8-5,0-H	1935226	100
PT 1,5/ 9-5,0-H	1935239	100
PT 1,5/10-5,0-H	1935242	100
PT 1,5/11-5,0-H	1935255	50
PT 1,5/12-5,0-H	1935268	50
PT 1,5/13-5,0-H	1935271	50
PT 1,5/14-5,0-H	1935284	50
PT 1,5/15-5,0-H	1935297	50
PT 1,5/16-5,0-H	1935307	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-5,0-V	1935310	250
PT 1,5/ 3-5,0-V	1935323	250
PT 1,5/ 4-5,0-V	1935336	250
PT 1,5/ 5-5,0-V	1935349	100
PT 1,5/ 6-5,0-V	1935352	100
PT 1,5/ 7-5,0-V	1935365	100
PT 1,5/ 8-5,0-V	1935378	100
PT 1,5/ 9-5,0-V	1935381	100
PT 1,5/10-5,0-V	1935394	100
PT 1,5/11-5,0-V	1935404	50
PT 1,5/12-5,0-V	1935417	50
PT 1,5/13-5,0-V	1935420	50
PT 1,5/14-5,0-V	1935433	50
PT 1,5/15-5,0-V	1935446	50
PT 1,5/16-5,0-V	1935459	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTA 1,5/ 2-5,0	1988804	250
PTA 1,5/ 3-5,0	1988817	250
PTA 1,5/ 4-5,0	1988820	250
PTA 1,5/ 5-5,0	1988833	100
PTA 1,5/ 6-5,0	1988846	100
PTA 1,5/ 7-5,0	1988859	100
PTA 1,5/ 8-5,0	1988862	100
PTA 1,5/ 9-5,0	1988875	100
PTA 1,5/10-5,0	1988888	100
PTA 1,5/11-5,0	1988891	50
PTA 1,5/12-5,0	1988904	50
PTA 1,5/13-5,0	1988917	50
PTA 1,5/14-5,0	1988927	50
PTA 1,5/15-5,0	1988930	50
PTA 1,5/16-5,0	1988943	50

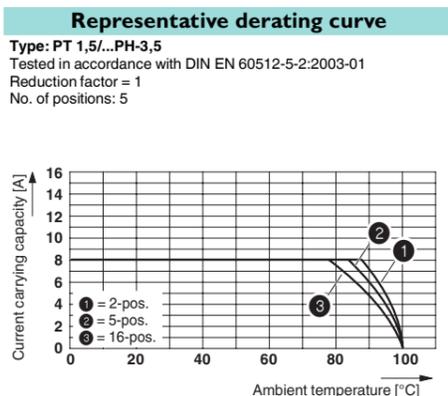
Connectors with a screw connection of up to 1.5 mm²



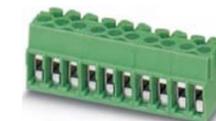
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
 1) Please observe the derating curves. Derating curves of further combination options on request.
 2) When using ferrules, max. 125 V are only achieved in combination with surge voltage category/pollution degree II/2.

- High terminal block capacity thanks to rectangular terminal block space
- 3.5 mm and 5.0 mm pitches
- Highly flexible conductor protection for easy, repeated connecting
- Connectors with two integrated plug-in directions available, can be coded if desired
- Plus/minus screw
- Connectors with a rugged and reliable contact system
- Keying option
- Versions that can be aligned in the pitch are available on request

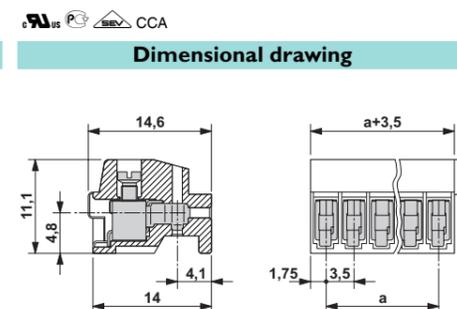
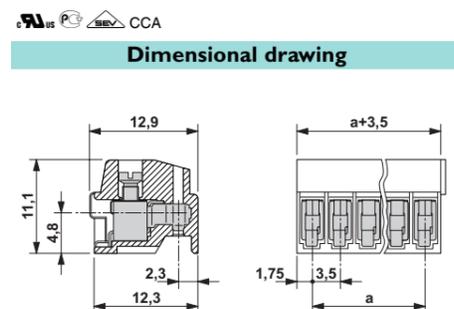
Accessories		
For all types	Type	Page
	Marker cards SK 3,5/2,8	797
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
	Keying profile CP-PT 1,5 Order No. 1985564	38



Plugs with screw connection, can be horizontally plugged onto PST 1,0/...-3,5 pin strips



Plugs with screw connection, can be horizontally and vertically plugged onto PST 1,0/...-3,5 pin strips



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

PT 1,5/ ...-PH-3,5			PT 1,5/ ...-PVH-3,5		
Rated current / conductor cross section			Rated current / conductor cross section		
200			200		
Pitch			Pitch		
3.5			3.5		
Connection capacity			Connection capacity		
0.2 - 1.5 / 0.2 - 1.5 / 26 - 16			0.2 - 1.5 / 0.2 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve			Stranded with ferrules without plastic sleeve		
-			-		
Stranded with ferrules with plastic sleeve			Stranded with ferrules with plastic sleeve		
0.25 - 0.75 ²⁾			0.25 - 0.75 ²⁾		
Multi-conductor connection capacity (two conductors with the same cross section)			Multi-conductor connection capacity (two conductors with the same cross section)		
0.2 - 0.34 / 0.2 - 0.5			0.2 - 0.34 / 0.2 - 0.5		
Stranded with ferrules without plastic sleeve			Stranded with ferrules without plastic sleeve		
-			-		
Stranded with TWIN ferrule with plastic sleeve			Stranded with TWIN ferrule with plastic sleeve		
-			-		
Insulation coordination			Insulation coordination		
Surge voltage category / pollution degree			Surge voltage category / pollution degree		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
160	200	400	160	200	400
2.5	2.5	2.5	2.5	2.5	2.5
B	C	D	B	C	D
300	-	300	300	-	300
10	-	10	10	-	10
26 - 16	-	26 - 16	26 - 16	-	26 - 16
B	C	D	B	C	D
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
General data			General data		
Stripping length			Stripping length		
5			5		
Screw thread			Screw thread		
M2			M2		
Tightening torque			Tightening torque		
0.22 - 0.25			0.22 - 0.25		
Type of insulation material / insulation material group			Type of insulation material / insulation material group		
PA / I			PA / I		
V0			V0		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-PH-3,5	1984316	250
PT 1,5/ 3-PH-3,5	1984329	250
PT 1,5/ 4-PH-3,5	1984332	250
PT 1,5/ 5-PH-3,5	1984345	100
PT 1,5/ 6-PH-3,5	1984358	100
PT 1,5/ 7-PH-3,5	1984361	100
PT 1,5/ 8-PH-3,5	1984374	100
PT 1,5/ 9-PH-3,5	1984387	100
PT 1,5/10-PH-3,5	1984390	100
PT 1,5/11-PH-3,5	1984400	50
PT 1,5/12-PH-3,5	1984413	50
PT 1,5/13-PH-3,5	1984426	50
PT 1,5/14-PH-3,5	1984439	50
PT 1,5/15-PH-3,5	1984442	50
PT 1,5/16-PH-3,5	1984455	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-PVH-3,5	1984015	250
PT 1,5/ 3-PVH-3,5	1984028	250
PT 1,5/ 4-PVH-3,5	1984031	250
PT 1,5/ 5-PVH-3,5	1984044	100
PT 1,5/ 6-PVH-3,5	1984057	100
PT 1,5/ 7-PVH-3,5	1984060	100
PT 1,5/ 8-PVH-3,5	1984073	100
PT 1,5/ 9-PVH-3,5	1984086	100
PT 1,5/10-PVH-3,5	1984099	100
PT 1,5/11-PVH-3,5	1984109	50
PT 1,5/12-PVH-3,5	1984112	50
PT 1,5/13-PVH-3,5	1984125	50
PT 1,5/14-PVH-3,5	1984138	50
PT 1,5/15-PVH-3,5	1984141	50
PT 1,5/16-PVH-3,5	1984154	50

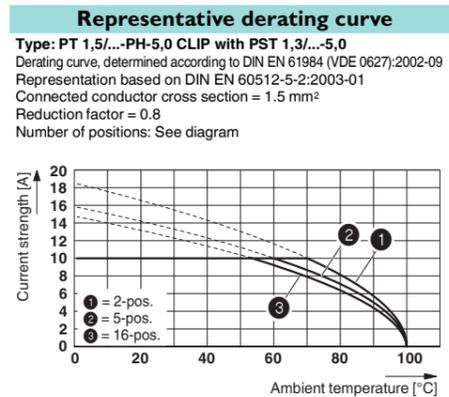
Connectors with a screw connection up to 2.5 mm²



- High terminal block capacity thanks to rectangular terminal block space
- 5.0 mm pitch
- Tension sleeve principle/Highly flexible conductor protection
- Connectors can be plugged in horizontally
- Connectors with a rugged and reliable contact system
- PH version in monoblock design
- PT 1,5/...PVH-5,0 is also available as a version that can be aligned

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
 Recommended assembly available if required.
 1) When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.

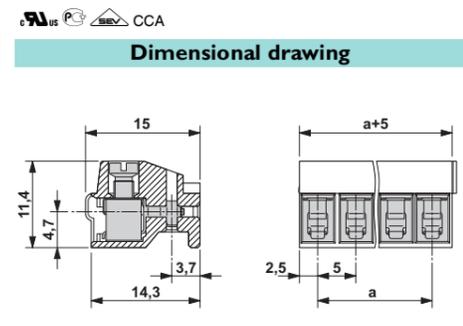
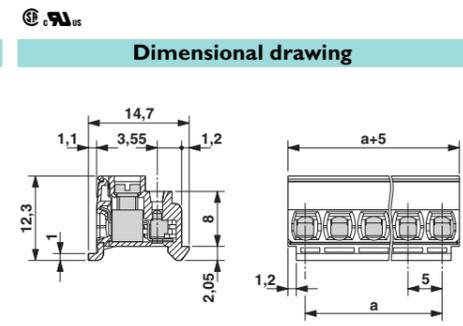
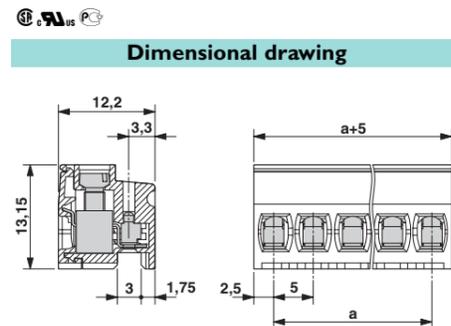
Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Only for PT 1,5/...-PH-5,0	Keying profile CP-PTDA Order No. 1731361	38
Only for PT 1,5/...-PVH-5,0	Keying profile CP-PT 1,5	38



Plugs with screw connection, can be horizontally plugged onto PST 1,3/...-5,0 pin strips

Plugs for "housing assembly", can be plugged onto PST 1,3/...-5,0 pin strips

Plugs with screw connection, can be horizontally and vertically plugged onto PST 1,3/...-5,0 pin strips



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

PT 1,5/ ...-PH-5,0	PT 1,5/ ...-PH-5,0 CLIP	PT 1,5/ ...-PVH-5,0
10 / 2.5	10 / 1.5	12 / 2.5
400	400	320
5	5	5
0.2 - 2.5 / 0.2 - 2.5 / 26 - 12	0.2 - 1.5 / 0.2 - 1.5 / 26 - 14	0.2 - 2.5 / 0.2 - 2.5 / 26 - 14
0.25 - 1	0.25 - 1	0.25 - 1.5 ¹⁾
0.25 - 1	0.25 - 1	0.25 - 1.5 ¹⁾
- / -	- / -	0.2 - 0.75 / 0.2 - 0.75
-	-	0.25 - 0.34 ¹⁾
-	-	0.5 - 0.75 ¹⁾
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
250 400 630	250 400 630	250 320 630
4 4 4	4 4 4	4 4 4
B C D	B C D	B C D
300 - 300	300 - 300	300 - 300
10 - 10	10 - 10	15 - 10
28 - 14 - 28 - 14	28 - 14 - 28 - 14	26 - 12 - 26 - 12
B C D	B C D	B C D
300 - 300	300 - 300	- - -
5 - 5	5 - 5	- - -
26 - 14 - 26 - 14	26 - 14 - 26 - 14	- - -
6	6	5
0.35 - 0.4	0.35 - 0.4	0.35 - 0.4
PA / I	PA / I	PA / I
V0	V0	V0

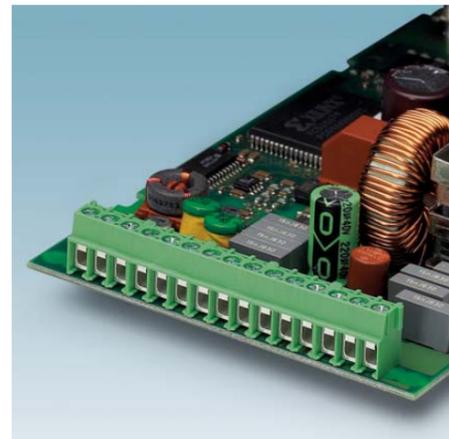
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-PH-5,0	1755583	250
PT 1,5/ 3-PH-5,0	1755596	250
PT 1,5/ 4-PH-5,0	1755606	250
PT 1,5/ 5-PH-5,0	1755619	100
PT 1,5/ 6-PH-5,0	1755622	100
PT 1,5/ 7-PH-5,0	1755635	100
PT 1,5/ 8-PH-5,0	1755648	100
PT 1,5/ 9-PH-5,0	1755651	100
PT 1,5/10-PH-5,0	1755664	100
PT 1,5/11-PH-5,0	1755677	50
PT 1,5/12-PH-5,0	1755680	50
PT 1,5/13-PH-5,0	1755693	50
PT 1,5/14-PH-5,0	1755703	50
PT 1,5/15-PH-5,0	1755716	50
PT 1,5/16-PH-5,0	1755729	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-PH-5,0 CLIP	1755732	250
PT 1,5/ 3-PH-5,0 CLIP	1755745	250
PT 1,5/ 4-PH-5,0 CLIP	1755758	250
PT 1,5/ 5-PH-5,0 CLIP	1755761	100
PT 1,5/ 6-PH-5,0 CLIP	1755774	100
PT 1,5/ 7-PH-5,0 CLIP	1755787	100
PT 1,5/ 8-PH-5,0 CLIP	1755790	100
PT 1,5/ 9-PH-5,0 CLIP	1755800	100
PT 1,5/10-PH-5,0 CLIP	1755813	100
PT 1,5/11-PH-5,0 CLIP	1755826	50
PT 1,5/12-PH-5,0 CLIP	1755839	50
PT 1,5/13-PH-5,0 CLIP	1755842	50
PT 1,5/14-PH-5,0 CLIP	1755855	50
PT 1,5/15-PH-5,0 CLIP	1755868	50
PT 1,5/16-PH-5,0 CLIP	1755871	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-PVH-5,0	1934861	250
PT 1,5/ 3-PVH-5,0	1934874	250
PT 1,5/ 4-PVH-5,0	1934887	250
PT 1,5/ 5-PVH-5,0	1934890	100
PT 1,5/ 6-PVH-5,0	1934900	100
PT 1,5/ 7-PVH-5,0	1934913	100
PT 1,5/ 8-PVH-5,0	1934926	100
PT 1,5/ 9-PVH-5,0	1934939	100
PT 1,5/10-PVH-5,0	1934942	100
PT 1,5/11-PVH-5,0	1934955	50
PT 1,5/12-PVH-5,0	1934968	50
PT 1,5/13-PVH-5,0	1934971	50
PT 1,5/14-PVH-5,0	1934984	50
PT 1,5/15-PVH-5,0	1934997	50
PT 1,5/16-PVH-5,0	1935006	50

PCB terminal blocks with a screw connection up to 4 mm²

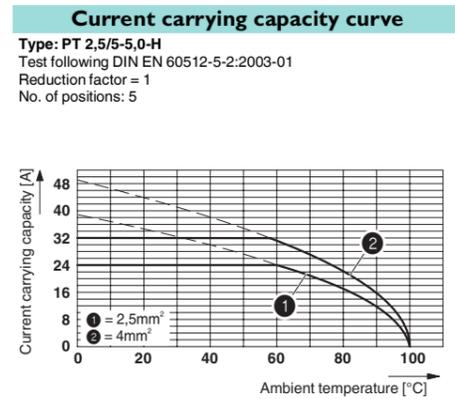


- High terminal block capacity thanks to rectangular terminal block space
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design for larger cross sections
- Plus/minus screw

Notes:

- 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- 2) When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.
- 3) Use a hole diameter of 1.3 - 1.6 mm

Accessories		
For all types	Type	Page
	Marker cards SK 5/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	PT 2,5/ ...-5,0-H			PT 2,5/ ...-5,0-V		
Rated current / conductor cross section	32 ¹⁾ / 4			32 ¹⁾ / 4		
Rated insulation voltage for pollution degree 2	400			400		
Pitch	5			5		
Connection capacity						
Solid / stranded	0.5 - 4 / 0.5 - 4 / 20 - 10			0.5 - 4 / 0.5 - 4 / 20 - 10		
Stranded with ferrules without plastic sleeve	0.5 - 2.5 ²⁾			0.5 - 2.5 ²⁾		
Stranded with ferrules with plastic sleeve	0.5 - 2.5 ²⁾			0.5 - 2.5 ²⁾		
Multi-conductor connection capacity (two conductors with the same cross section)						
Solid / stranded	0.5 - 1.5 / 0.5 - 1.5			0.5 - 1.5 / 0.5 - 1.5		
Stranded with ferrules without plastic sleeve	0.5 - 0.75 ²⁾			0.5 - 0.75 ²⁾		
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1.5 ²⁾			0.5 - 1.5 ²⁾		
Insulation coordination						
Surge voltage category / pollution degree	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	250	400	630	250	400	630
Rated surge voltage	4	4	4	4	4	4
Approval data (UL/CUL)	B	C	D	B	C	D
Nominal voltage	300	-	300	300	-	300
Nominal current	20	-	10	20	-	10
Connection capacity AWG	20 - 12	-	20 - 12	20 - 12	-	20 - 12
Approval data (CSA)	B	C	D	B	C	D
Nominal voltage	-	-	-	-	-	-
Nominal current	-	-	-	-	-	-
Connection capacity AWG	-	-	-	-	-	-
General data						
Stripping length	6.5			6.5		
Screw thread	M3			M3		
Tightening torque	0.45 - 0.5			0.45 - 0.5		
Type of insulation material / insulation material group	PA / I			PA / I		
Inflammability class according to UL 94	V0			V0		
Drill hole diameter / pin dimensions	1.3 ³⁾ / 1,0 mm			1.3 ³⁾ / 1,0 mm		

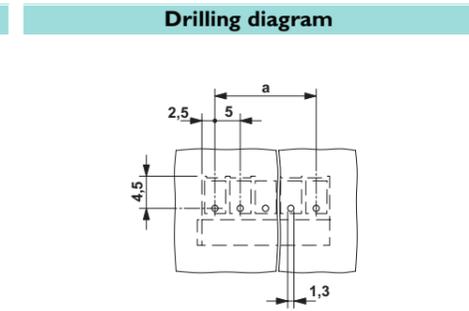
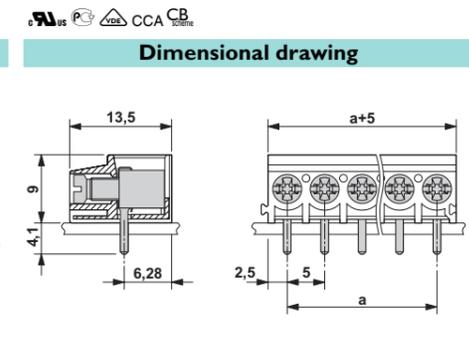
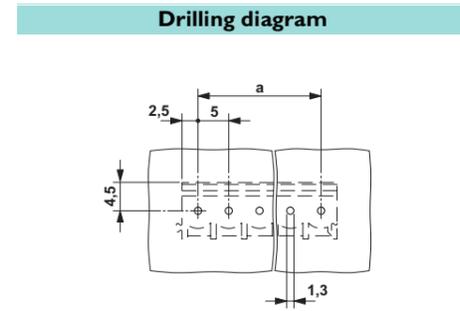
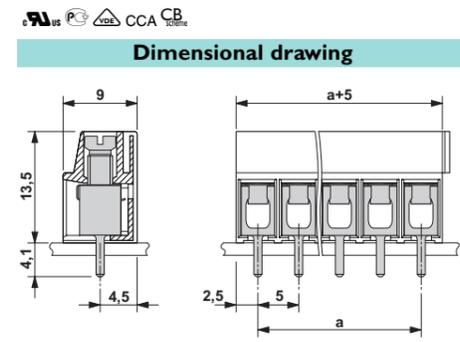
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00



PCB terminal block, connection direction horizontal to the PCB



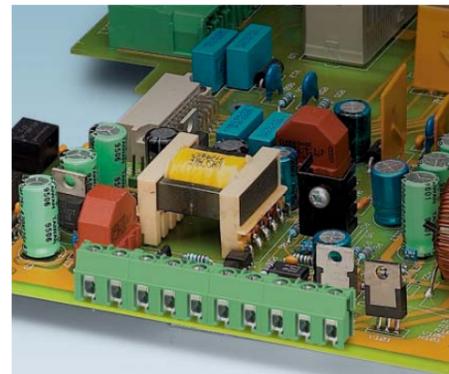
PCB terminal block, connection direction vertical to the PCB



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-5,0-H	1935776	250
PT 2,5/ 3-5,0-H	1935789	250
PT 2,5/ 4-5,0-H	1935792	250
PT 2,5/ 5-5,0-H	1935802	100
PT 2,5/ 6-5,0-H	1935815	100
PT 2,5/ 7-5,0-H	1935828	100
PT 2,5/ 8-5,0-H	1935831	100
PT 2,5/ 9-5,0-H	1935844	100
PT 2,5/10-5,0-H	1935857	100
PT 2,5/11-5,0-H	1935860	50
PT 2,5/12-5,0-H	1935873	50
PT 2,5/13-5,0-H	1935886	50
PT 2,5/14-5,0-H	1935899	50
PT 2,5/15-5,0-H	1935909	50
PT 2,5/16-5,0-H	1935912	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-5,0-V	1987724	250
PT 2,5/ 3-5,0-V	1987737	250
PT 2,5/ 4-5,0-V	1987740	250
PT 2,5/ 5-5,0-V	1987753	100
PT 2,5/ 6-5,0-V	1987766	100
PT 2,5/ 7-5,0-V	1987779	100
PT 2,5/ 8-5,0-V	1987782	100
PT 2,5/ 9-5,0-V	1987795	100
PT 2,5/10-5,0-V	1987805	100
PT 2,5/11-5,0-V	1987818	50
PT 2,5/12-5,0-V	1987821	50
PT 2,5/13-5,0-V	1987834	50
PT 2,5/14-5,0-V	1987847	50
PT 2,5/15-5,0-V	1987850	50
PT 2,5/16-5,0-V	1987863	50

PCB terminal blocks with a screw connection up to 4 mm²

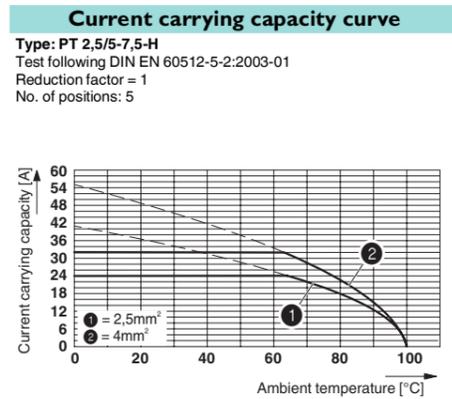


- High terminal block capacity thanks to rectangular terminal block space
- 7.5 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design for larger cross sections and higher voltages
- Plus/minus screw

Notes:

- 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- 2) When using ferrules, 500 V are only achieved in combination with surge voltage category/pollution degree II/2.
- 3) Use a hole diameter of 1.3 - 1.6 mm

Accessories		
For all types	Type	Page
	Marker cards SK 7,5/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

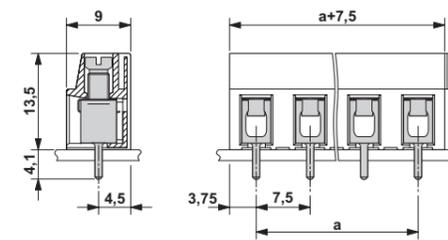


PCB terminal block, connection direction horizontal to the PCB

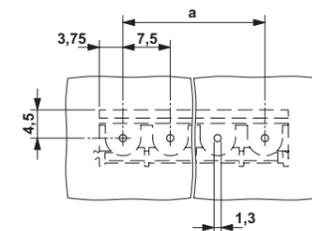


PCB terminal block, connection direction vertical to the PCB

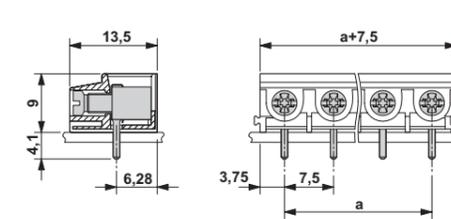
Dimensional drawing



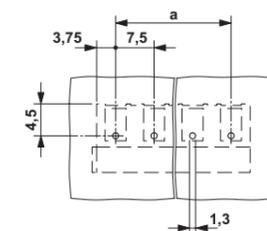
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PT 2,5/ 2-7,5-H	1988105	250
PT 2,5/ 3-7,5-H	1988118	250
PT 2,5/ 4-7,5-H	1988121	250
PT 2,5/ 5-7,5-H	1988134	100
PT 2,5/ 6-7,5-H	1988147	100
PT 2,5/ 7-7,5-H	1988150	100
PT 2,5/ 8-7,5-H	1988163	100
PT 2,5/ 9-7,5-H	1988176	100
PT 2,5/10-7,5-H	1988189	100
PT 2,5/11-7,5-H	1988192	50
PT 2,5/12-7,5-H	1988202	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PT 2,5/ 2-7,5-V	1987957	250
PT 2,5/ 3-7,5-V	1987960	250
PT 2,5/ 4-7,5-V	1987973	250
PT 2,5/ 5-7,5-V	1987986	100
PT 2,5/ 6-7,5-V	1987999	100
PT 2,5/ 7-7,5-V	1988008	100
PT 2,5/ 8-7,5-V	1988011	100
PT 2,5/ 9-7,5-V	1988024	100
PT 2,5/10-7,5-V	1988037	100
PT 2,5/11-7,5-V	1988040	50
PT 2,5/12-7,5-V	1988053	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PT 2,5/ ...-7,5-H			PT 2,5/ ...-7,5-V		
Rated current / conductor cross section	32 ¹⁾ / 4		32 ¹⁾ / 4		
Rated insulation voltage for pollution degree 2	800		800		
Pitch	7.5		7.5		
Connection capacity	0.5 - 4 / 0.5 - 4 / 20 - 10		0.5 - 4 / 0.5 - 4 / 20 - 10		
Solid / stranded	0.5 - 2.5 ²⁾		0.5 - 2.5 ²⁾		
Stranded with ferrules without plastic sleeve	0.5 - 2.5 ²⁾		0.5 - 2.5 ²⁾		
Stranded with ferrules with plastic sleeve	0.5 - 2.5 ²⁾		0.5 - 2.5 ²⁾		
Multi-conductor connection capacity (two conductors with the same cross section)					
Solid / stranded	0.5 - 1.5 / 0.5 - 1.5		0.5 - 1.5 / 0.5 - 1.5		
Stranded with ferrules without plastic sleeve	0.5 - 0.75 ²⁾		0.5 - 0.75 ²⁾		
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1.5 ²⁾		0.5 - 1.5 ²⁾		
Insulation coordination					
Surge voltage category / pollution degree	III / 3 III / 2 II / 2		III / 3 III / 2 II / 2		
Rated insulation voltage	500 800 1000		500 800 1000		
Rated surge voltage	6 6 6		6 6 6		
Approval data (UL/CUL)	B C D		B C D		
Nominal voltage	300 150 300		300 150 300		
Nominal current	20 20 10		20 20 10		
Connection capacity AWG	20 - 12 20 - 12 20 - 12		20 - 12 20 - 12 20 - 12		
Approval data (CSA)	B C D		B C D		
Nominal voltage	- - -		- - -		
Nominal current	- - -		- - -		
Connection capacity AWG	- - -		- - -		
General data					
Stripping length	6.5		6.5		
Screw thread	M3		M3		
Tightening torque	0.45 - 0.5		0.45 - 0.5		
Type of insulation material / insulation material group	PA / I		PA / I		
Inflammability class according to UL 94	V0		V0		
Drill hole diameter / pin dimensions	1.3 ³⁾ / 1,0 mm		1.3 ³⁾ / 1,0 mm		

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

PT 2,5 plug-in system

PT 2,5 plug-in system

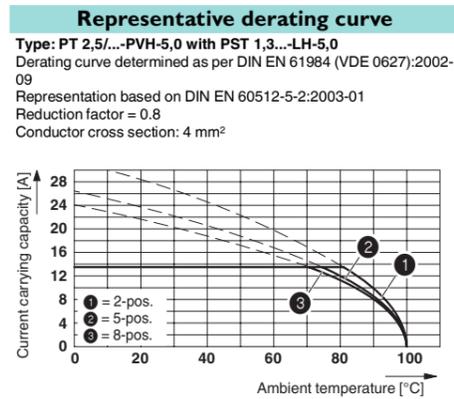
Multi-plug-in system with a screw connection up to 4 mm²



- Plug-in system with five plug-in options in all
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- High stability thanks to the L-shaped base strips
- Reliable contact system with high current carrying capacity
- Patented coding available if desired
- Compatible with standard pin strips PST 1,3...

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
 Larger numbers of positions on request.
 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

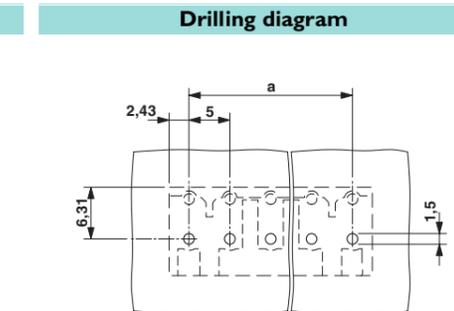
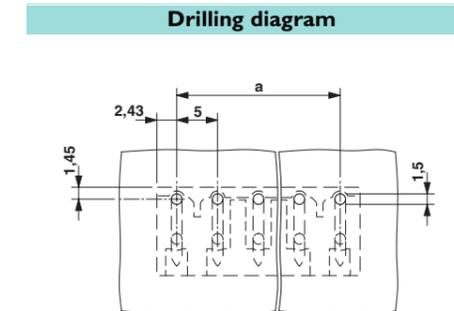
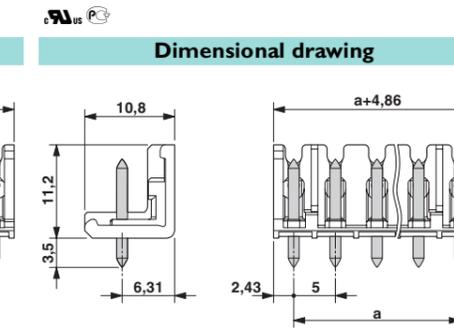
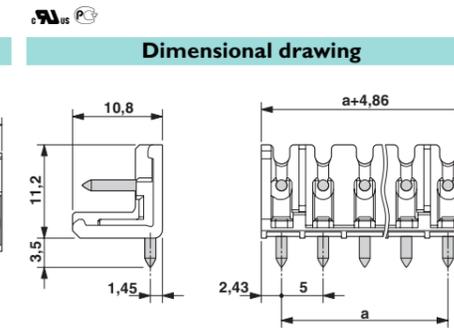
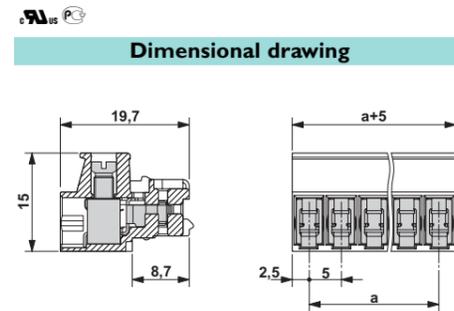
Accessories		
For all types	Type	Page
	Keying profile CP-PT 2,5 Order No. 1733398	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



Plugs with screw connection, can be plugged in horizontally and vertically

Pin strip for PT 2,5 connector, Plug-in direction parallel to the PCB

Pin strip for PT 2,5 plug, Plug-in direction vertical to the PCB



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-PVH-5,0	1704165	250
PT 2,5/ 3-PVH-5,0	1704178	250
PT 2,5/ 4-PVH-5,0	1704181	250
PT 2,5/ 5-PVH-5,0	1704194	100
PT 2,5/ 6-PVH-5,0	1704204	100
PT 2,5/ 7-PVH-5,0	1704217	100
PT 2,5/ 8-PVH-5,0	1704220	100

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-LH-5,0	1704275	250
PST 1,3/ 3-LH-5,0	1704291	250
PST 1,3/ 4-LH-5,0	1704327	250
PST 1,3/ 5-LH-5,0	1704356	100
PST 1,3/ 6-LH-5,0	1704369	100
PST 1,3/ 7-LH-5,0	1704372	100
PST 1,3/ 8-LH-5,0	1704385	100

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-LV-5,0	1704437	250
PST 1,3/ 3-LV-5,0	1704453	250
PST 1,3/ 4-LV-5,0	1704482	250
PST 1,3/ 5-LV-5,0	1704518	100
PST 1,3/ 6-LV-5,0	1704521	100
PST 1,3/ 7-LV-5,0	1704534	100
PST 1,3/ 8-LV-5,0	1704547	100

Technical data

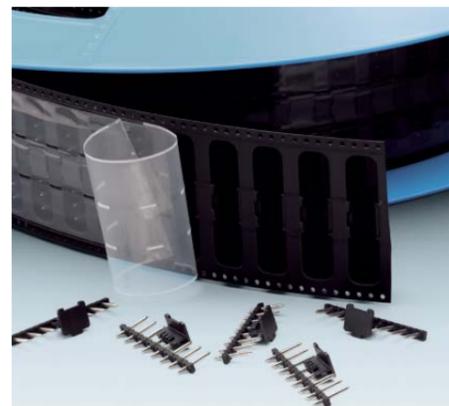
	PT 2,5/ ...-PVH-5,0	PST 1,3/ ...-LH-5,0	PST 1,3/ ...-LV-5,0
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section [A] / [mm ²]	13.5 ¹⁾ / 4	13.5	13.5
Rated insulation voltage for pollution degree 2 [V]	320	400	400
Pitch [mm]	5	5	5
Connection capacity			
Solid / stranded [mm ²] / [mm ²] / AWG	0.5 - 4 / 0.5 - 4 / 20 - 12	- / - / -	- / - / -
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 2.5	-	-
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 2.5	-	-
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded [mm ²]	0.5 - 1.5 / 0.5 - 1.5	- / -	- / -
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 0.75	-	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1.5	-	-
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	250 320 630	250 400 400	250 400 400
Rated surge voltage [kV]	4 4 4	4 4 4	4 4 4
Approval data (UL/CUL) Use Group			
Nominal voltage [V]	B C D	B C D	B C D
Nominal current [A]	300 - 300	300 - 300	300 - 300
Nominal current [A]	10 - 10	10 - 10	10 - 10
Connection capacity AWG			
Approval data (CSA) Use Group	26 - 12 26 - 12 26 - 12	- - -	- - -
Nominal voltage [V]	B C D	B C D	B C D
Nominal current [A]	- - -	- - -	- - -
Nominal current [A]	- - -	- - -	- - -
Connection capacity AWG	- - -	- - -	- - -
General data			
Stripping length [mm]	8	-	-
Screw thread	M3	-	-
Tightening torque [Nm]	0.45 - 0.5	-	-
Type of insulation material / insulation material group	PA / I	PA / IIIb	PA / IIIb
Inflammability class according to UL 94	V0	V0	V0

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00

PST series

PST series

Pin strips for COMBICON compact connector



- Reflow solderable pin strip, optimized for COMBICON compact connectors
- Pitch 3.5 mm
- Pin geometry caring on the plug
- Various pin lengths and pin geometries available on request
- Pin strip available in machine-compatible packaging (tube magazine or tape)
- Pin strip with a pad for the suction pipette pushed over it for optional taped packaging

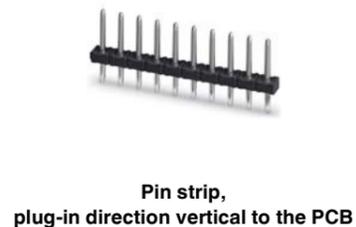
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

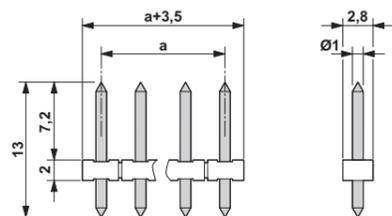
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

These items are also available in larger unit packs.

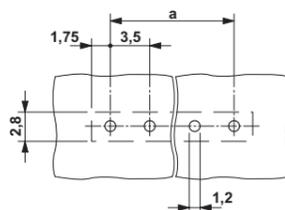
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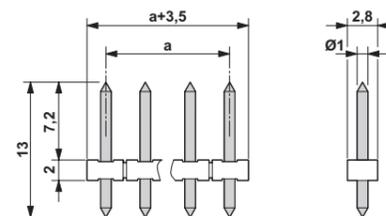
Dimensional drawing



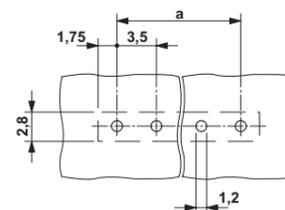
Drilling diagram



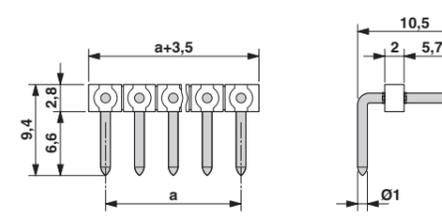
Dimensional drawing



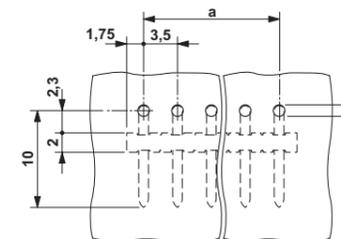
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	8
Rated insulation voltage for pollution degree 2 [V]	250
Pitch [mm]	3.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	160 250 250
Rated surge voltage [kV]	2.5 2.5 2.5
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - -
Nominal current [A]	10 - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.2 / 1 mm

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black				
2	3.50	PST 1,0/ 2-3,5	1945096	50
3	7.00	PST 1,0/ 3-3,5	1945106	50
4	10.50	PST 1,0/ 4-3,5	1945119	50
5	14.00	PST 1,0/ 5-3,5	1945122	50
6	17.50	PST 1,0/ 6-3,5	1945135	50
7	21.00	PST 1,0/ 7-3,5	1945148	50
8	24.50	PST 1,0/ 8-3,5	1945151	50
9	28.00	PST 1,0/ 9-3,5	1945164	50
10	31.50	PST 1,0/10-3,5	1945177	50
11	35.00	PST 1,0/11-3,5	1945180	50
12	38.50	PST 1,0/12-3,5	1945193	50
13	42.00	PST 1,0/13-3,5	1945203	50
14	45.50	PST 1,0/14-3,5	1945216	50
15	49.00	PST 1,0/15-3,5	1945229	50
16	52.50	PST 1,0/16-3,5	1945232	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
PST 1,0/ 2-3,5 R24	1720233	330
PST 1,0/ 3-3,5 R24	1720246	330
PST 1,0/ 4-3,5 R24	1995525	330
PST 1,0/ 5-3,5 R56	1720259	250
PST 1,0/ 6-3,5 R56	1720262	250
PST 1,0/ 7-3,5 R56	1995538	250
PST 1,0/ 8-3,5 R56	1720275	250
PST 1,0/ 9-3,5 R56	1995541	250
PST 1,0/10-3,5 R56	1720288	250
PST 1,0/11-3,5 R56	1720291	250

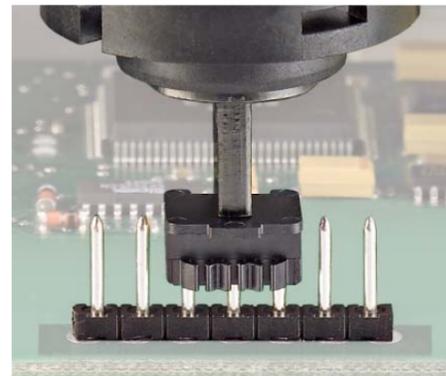
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
PST 1,0/ 2-H-3,5	1737019	50
PST 1,0/ 3-H-3,5	1737022	50
PST 1,0/ 4-H-3,5	1737035	50
PST 1,0/ 5-H-3,5	1737048	50
PST 1,0/ 6-H-3,5	1737051	50
PST 1,0/ 7-H-3,5	1737064	50
PST 1,0/ 8-H-3,5	1737077	50
PST 1,0/ 9-H-3,5	1737080	50
PST 1,0/10-H-3,5	1737093	50
PST 1,0/11-H-3,5	1737103	50
PST 1,0/12-H-3,5	1737116	50
PST 1,0/13-H-3,5	1737129	50
PST 1,0/14-H-3,5	1737132	50
PST 1,0/15-H-3,5	1737145	50
PST 1,0/16-H-3,5	1737158	50

PST series

PST series

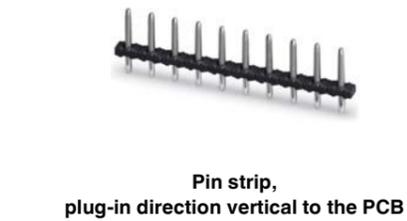
Pin strips for COMBICON compact connector



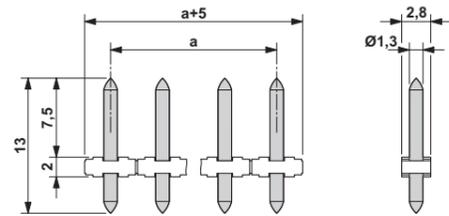
Notes:
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 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.
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 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

- Reflow solderable pin strip, optimized for COMBICON compact connectors
- 5.0 mm pitch
- Pin geometry caring on the plug
- Various pin lengths and pin geometries available on request
- Pin strip available in machine-compatible packaging (tube magazine or tape)
- Pin strip with a pad for the suction pipette pushed over it for optional taped packaging

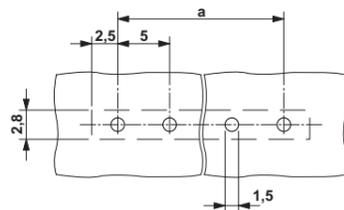
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	12
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 400
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	16 - 10
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 - 300
Nominal current [A]	5 - 5
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.5 / 1,3 mm



Dimensional drawing



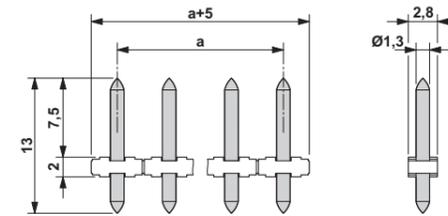
Drilling diagram



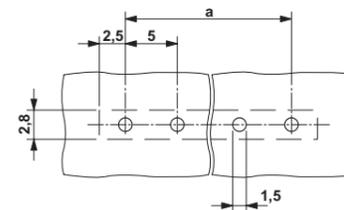
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 5.0 mm, color: Black			
PST 1,3/ 2-5,0	1933189	50	
PST 1,3/ 3-5,0	1933192	50	
PST 1,3/ 4-5,0	1933202	50	
PST 1,3/ 5-5,0	1933215	50	
PST 1,3/ 6-5,0	1933228	50	
PST 1,3/ 7-5,0	1933231	50	
PST 1,3/ 8-5,0	1933244	50	
PST 1,3/ 9-5,0	1933257	50	
PST 1,3/10-5,0	1933260	50	
PST 1,3/11-5,0	1933273	50	
PST 1,3/12-5,0	1933286	50	
PST 1,3/13-5,0	1933299	50	
PST 1,3/14-5,0	1933309	50	
PST 1,3/15-5,0	1933312	50	
PST 1,3/16-5,0	1933325	50	



Dimensional drawing



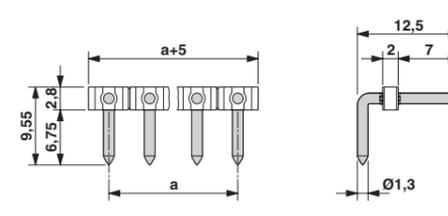
Drilling diagram



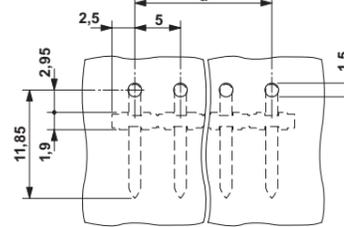
Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-5,0 R24	1720301	330
PST 1,3/ 3-5,0 R24	1713169	330
PST 1,3/ 4-5,0 R56	1720314	250
PST 1,3/ 5-5,0 R56	1720327	250
PST 1,3/ 6-5,0 R56	1720330	250
PST 1,3/ 7-5,0 R56	1720343	250
PST 1,3/ 8-5,0 R56	1720356	250



Dimensional drawing

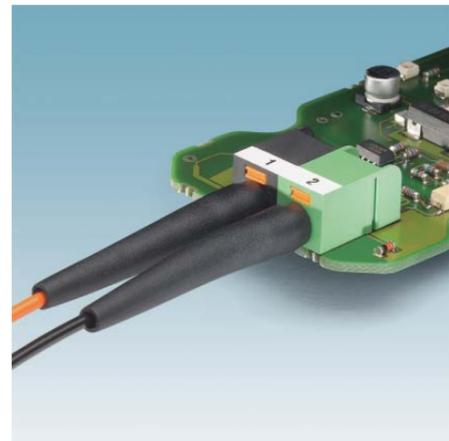


Drilling diagram



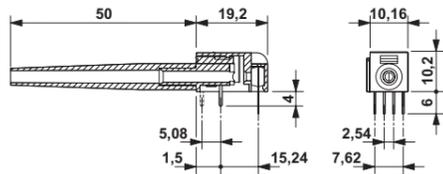
Ordering data		
Type	Order No.	Pcs. / Pkt.
PST 1,3/ 2-H-5,0	1995635	250
PST 1,3/ 3-H-5,0	1705478	250
PST 1,3/ 4-H-5,0	1705481	100
PST 1,3/ 5-H-5,0	1705494	100
PST 1,3/ 6-H-5,0	1705504	100
PST 1,3/ 7-H-5,0	1717301	100
PST 1,3/ 8-H-5,0	1717314	100
PST 1,3/ 9-H-5,0	1717327	100
PST 1,3/10-H-5,0	1717330	100
PST 1,3/11-H-5,0	1717343	50
PST 1,3/12-H-5,0	1717356	50
PST 1,3/13-H-5,0	1717369	50
PST 1,3/14-H-5,0	1717372	50
PST 1,3/15-H-5,0	1717385	50
PST 1,3/16-H-5,0	1717398	50

FOPT 2,2-T/R FO fast connect PCB terminal blocks



- Integrated transmit or receive diode
- Connection without fiber pretreatment, easily cut to length with fiber cutter IBS RL FOC
- Increased operating convenience thanks to the direct plug-in method with release button
- Stability through additional strain relief
- Bend protection sleeve included in delivery

Notes:
If the coupled optical power is ≥ -21.6 dBm, data output switches to LOW (inversion of optical data signal).



FO fast connection for PCB term. blocks with receive diode



Technical data

Technical data	
Data rate	5.00 Mbps
Transmission length	to 50 m
Ambient temperature (operation)	0 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Transmitter	
Optical transmission capacity (at 60 mA and 25°C)	-
Forward current	-
Forward voltage (with 60 mA forward current)	-
Optical peak wavelength (0 to 70°C)	-
Receiver	
Optical receiver sensitivity (0 to 70°C)	-21.60 dBm
Optical overdrive threshold (0 to 70°C)	-2 dBm
Supply voltage	4.75 V DC ... 5.25 V DC
Connection capacity	
Polymer fiber (in acc. with IEC 60 793-2 type A4a)	980/1000 μ m
Diameter of outer sheath	2.2 mm \pm 0.07 mm

Ordering data

FO PCB terminal block with receive diode		
Color: Black		
FO PCB terminal block with transmit diode		
Color: Green		
FOPT 2,2-R	1907924	10

Accessories

Bend protection sleeve	-	
Fiber cutter , for quick and easy mounting of fiber optic cables with the Ruggedline connector	-	
KST-POF	1933011	10
IBS RL FOC	2725147	1



FO fast connection for PCB term. blocks with transm. diode



Technical data

Technical data	
Data rate	5.00 Mbps
Transmission length	to 50 m
Ambient temperature (operation)	0 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Transmitter	
Optical transmission capacity (at 60 mA and 25°C)	-5.3 dBm ... -0.5 dBm
Forward current	max. 60 mA
Forward voltage (with 60 mA forward current)	1.8 V
Optical peak wavelength (0 to 70°C)	\leq 660 nm
Receiver	
Optical receiver sensitivity (0 to 70°C)	-
Optical overdrive threshold (0 to 70°C)	-
Supply voltage	-
Connection capacity	
Polymer fiber (in acc. with IEC 60 793-2 type A4a)	980/1000 μ m
Diameter of outer sheath	2.2 mm \pm 0.07 mm

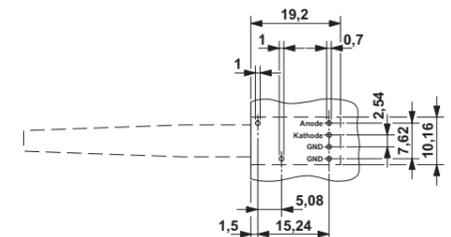
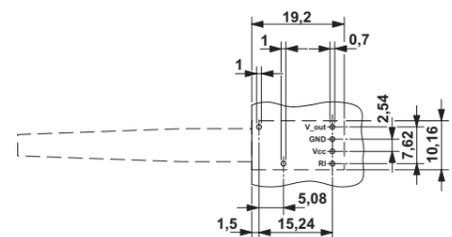
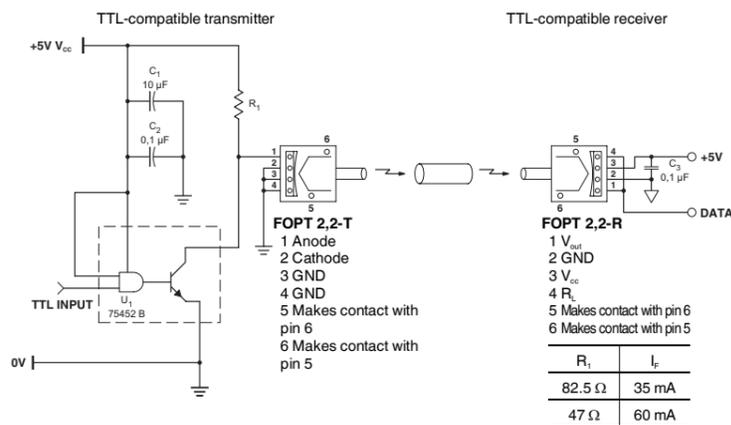
Ordering data

FOPT 2,2-T	1907911	10
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Accessories

KST-POF	1933011	10
IBS RL FOC	2725147	1

Recommended wiring



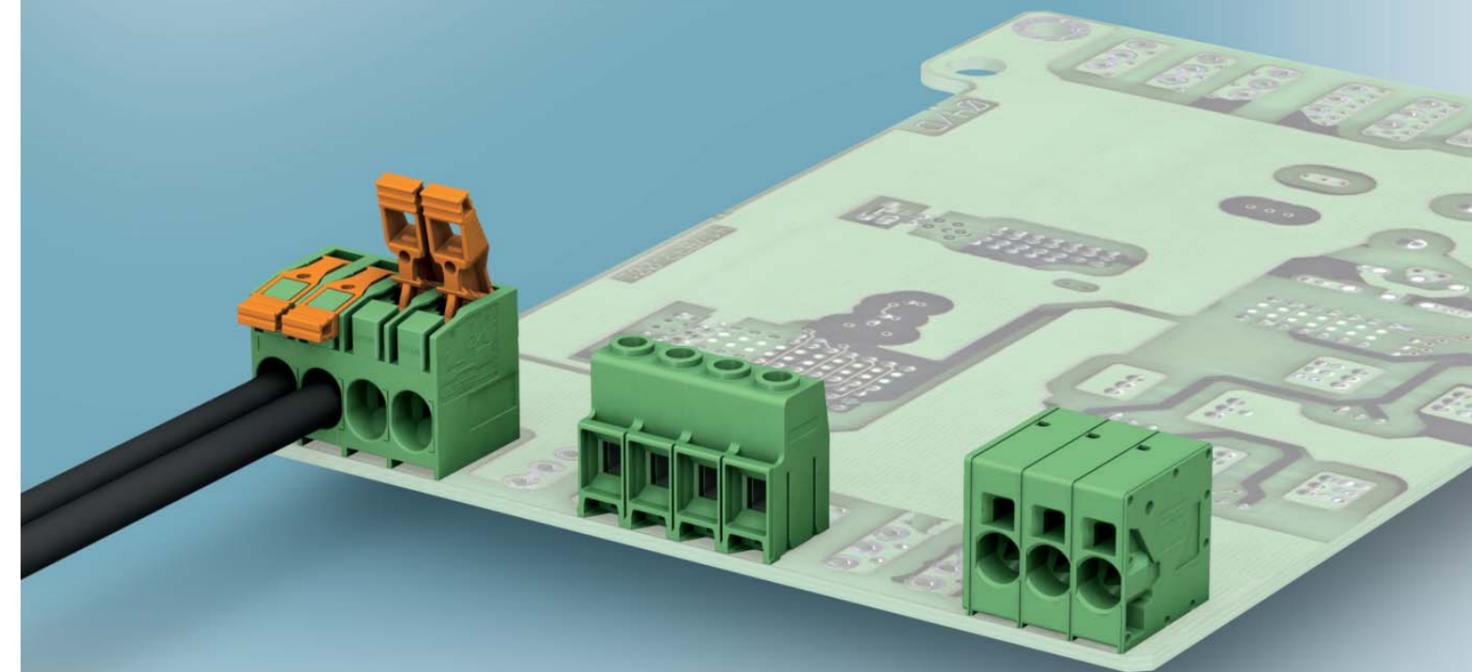
PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks

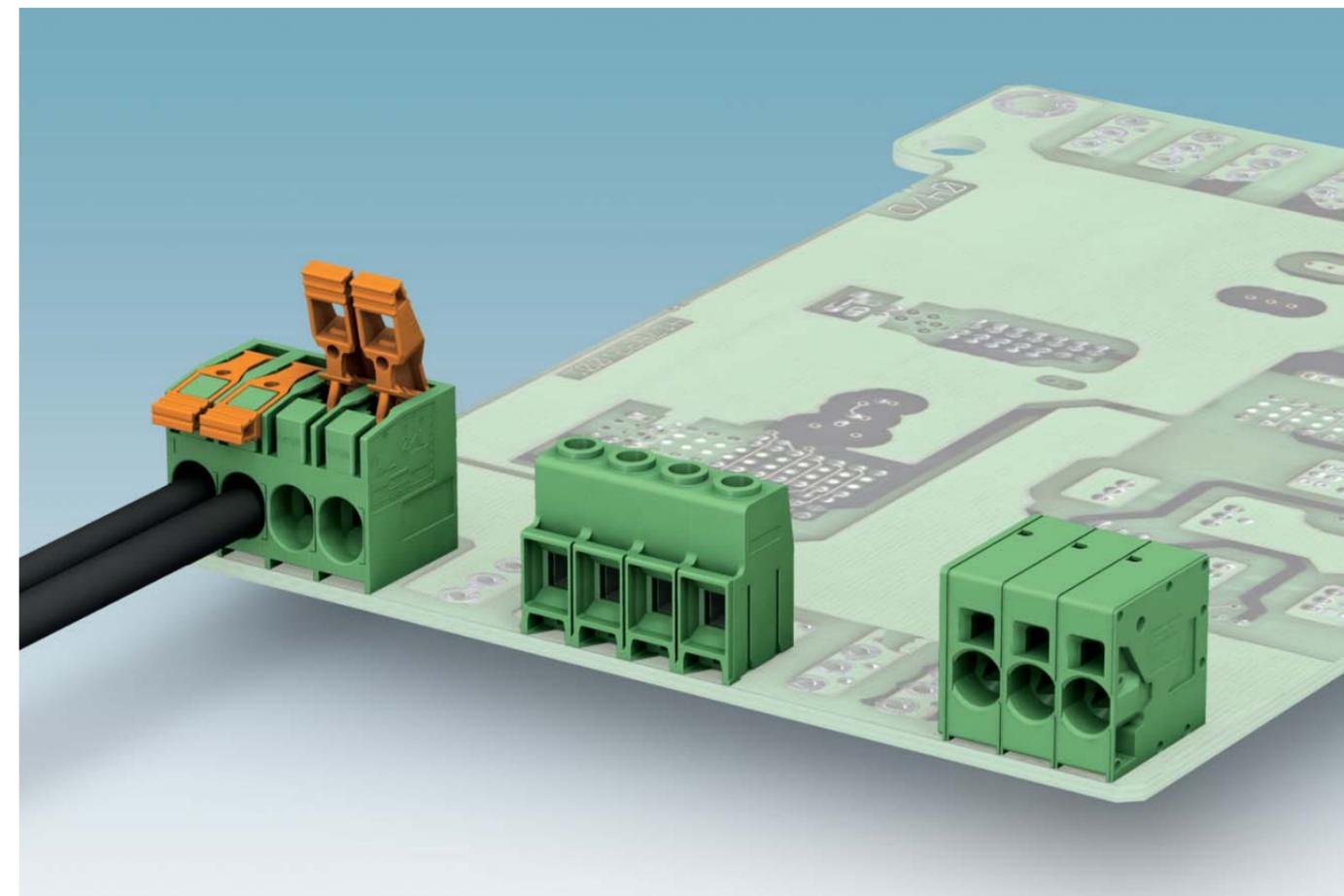
High-performance PCB terminal blocks provide connection options for conductors with cross sections of 0.2 to 35 mm². The conductors are easily connected using the tension sleeve principle or the spring-cage method. This, therefore, eliminates the need for complex and costly auxiliary constructions with ring cable lugs, upstream DIN rails or modular terminal block packages.

The particularly powerful screw PCB terminal block, MKDSP 25, is designed for currents up to 125 A and has unlimited UL approval up to 600 V or 1000 V according to IEC/DIN VDE. It is connected quickly and reliably to the PCB by means of wave soldering.

The PCB terminal blocks with push-in spring connection in the SPT series (Spring Print Terminal) enable quick and user-friendly conductor connection. Stranded conductors with ferrules or solid conductors can be inserted directly into the terminal point quickly and without tools.



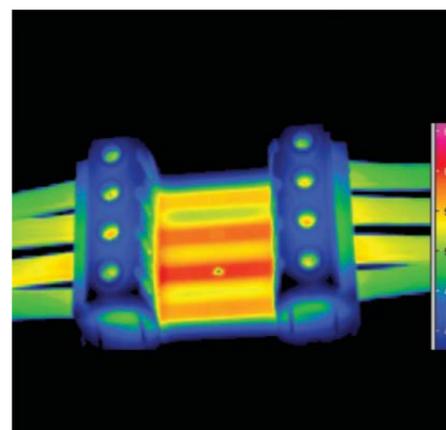
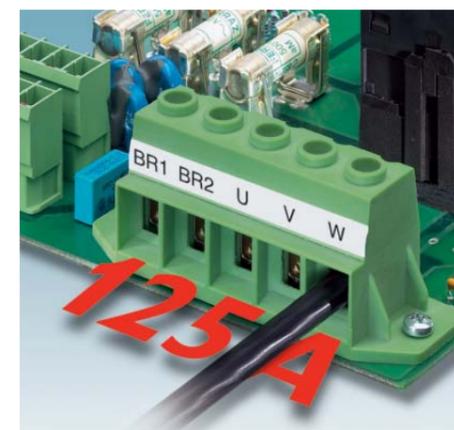
General	440
PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²	443
Horizontal connection direction, pitch 6.35/7.62/9.52 mm	443
600 V-UL, horizontal connection direction, pitch 6.35/9.52 mm	445
Angled connection direction, pitch 6.35/9.52 mm	447
Double-level design, pitch 6.35/9.52 mm	449
PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²	451
Horizontal connection direction, pitch 10.16/12.7 mm	451
600 V-UL, horizontal connection direction, pitch 10.16/12.7 mm	453
PCB terminal blocks with screw connection, MKDSP 25 series, up to 125 A/35 mm²	453
Horizontal connection direction, pitch 15 mm	453
Special designs with screw connection, KDS 10, Front 4 series, up to 76 A, 32 A/16 mm², 4 mm²	453
Feed-through PCB terminal blocks, pitch 10 mm	453
Front PCB terminal blocks, pitch 6.35/7.62 mm	459
PCB terminal blocks with push-in spring connection, SPT series, up to 41 A/6 mm², 16 mm²	463
Horizontal and vertical connection direction, pitch 7.5 mm	463
Horizontal and vertical connection direction, pitch 10 mm	465
PCB terminal blocks with push-lock spring connection, PL series, up to 41 A, 76 A/6 mm², 16 mm²	470
Horizontal and angled connection direction, pitch 7.5 mm	470
Horizontal design up to 10 mm pitch	473
PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²	475
Horizontal design without insulating housing	475
PCB terminal blocks with spring-cage connection, ZFKDS series up to 41 A, 76 A/6 mm², 16 mm²	477
Angled connection direction, pitch 7.5 mm	477
Angled connection direction, pitch 10 mm	479



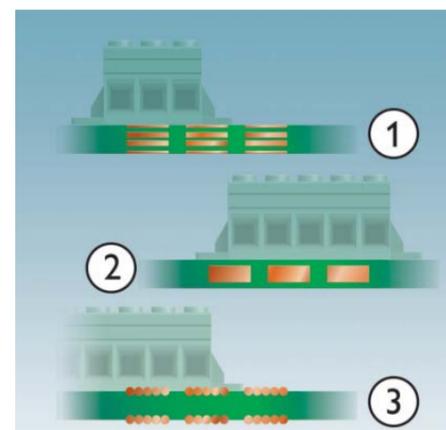
125 A via the PCB? It works!

Used in conjunction with high-current PCBs, the high-performance PCB terminal blocks support a current carrying capacity of up to 125 A.

Different PCB production technologies are providing new options for device design. The necessary functions and modules can now be grouped together on a single PCB. In this manner, expensive additional device wiring can be eliminated.



Thermographic image of a test application with 125 A



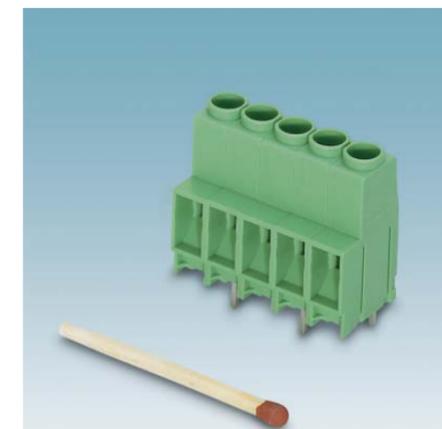
PCB production technologies

- ① = Multi-layer technology
- ② = Thick copper technology
- ③ = Wire-writing technology



Color coding

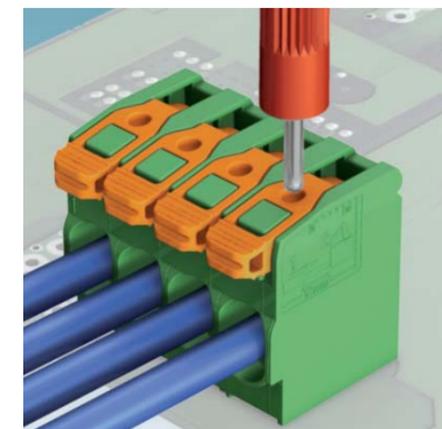
Color coding/printing, which is available as an option, enables the easy assignment of conductor/terminal points. This simplifies error-free installation of the devices to be connected. Color coding facilitates the easy and reliable implementation of work instructions such as "red conductor to red terminal point".



UL approvals for 600 V high-current applications

The high-performance PCB terminal blocks offer 600 V UL approval for every application, even those with the smallest of dimensions. Please note that a distinction must be made here between product and device approvals. The COMBICON power flyer lists the applicable approvals for products and applications in detail.

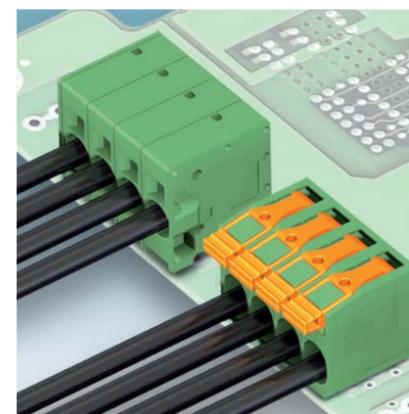
For additional information on UL certifications, see page 42.



Fast and user-friendly testing

The high-performance PCB terminal block range offers a variety of products with integrated test connections/touch connections for service work and locating errors.

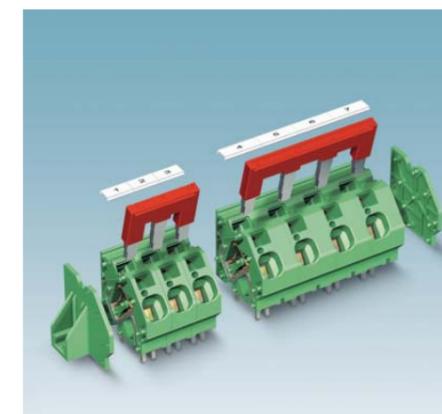
Measurements can, therefore, be taken easily without having to remove the wiring or other accessories.



Connect large cross sections quickly and easily

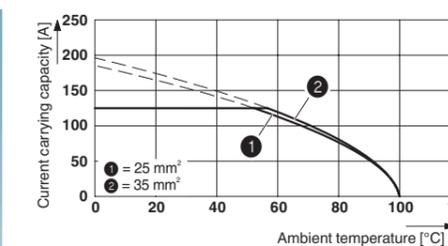
With fast connection technology, conductors of up to 16 mm² are easily connected.

- With the PL series conductor connection, you can choose between the tool-free "one-hand rocker arm" principle and push-in connection.
- The SPT series with push-in connection facilitates the fast and tool-free connection of solid or stranded conductors with ferrules of up to 16 mm².



Bridges

The fully-insulated plug-in bridges in the ZFKDS series enable potential distribution or the ground conductor to be looped through. These enable the terminal blocks to be bridged electrically as required. The bridges, which are available with various numbers of positions, are inserted in the separate bridge shafts using minimal force.



Current carrying capacity of PCB terminal blocks

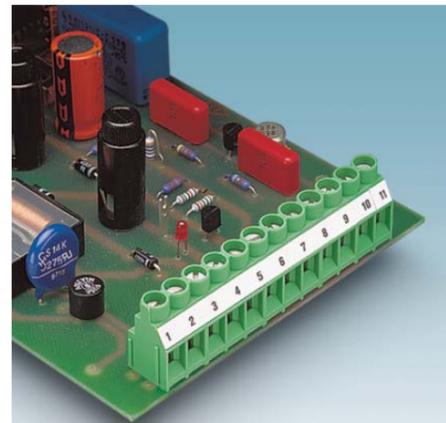
Base curves are provided in the catalog so that the permitted current carrying capacity of the high-performance PCB terminal blocks can be determined. The maximum permissible current strength for a specific application can be read depending on the ambient temperature. The number of positions and the connection cross section of a conductor must be taken into account while doing so. Please also refer to the laboratory data sheets of the corresponding products. More information can be found on page 854.

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

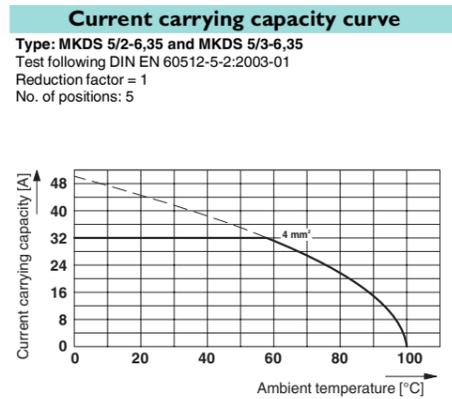
Horizontal connection direction, pitch 6.35/7.62/9.52 mm

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.



- PCB terminal blocks with screw connection up to 6 mm² conductor cross section
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Different pitches to fulfill different voltage requirements (6.35 mm / 7.62 mm / 9.52 mm)
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 7,5/3,8 or SK 5 WH:REEL	799



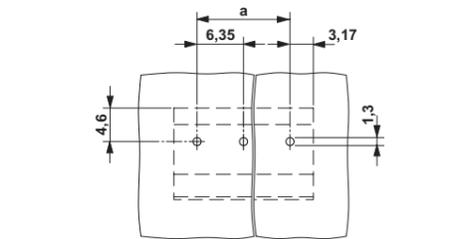
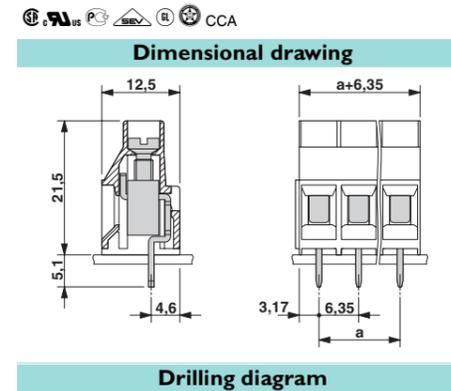
6.35 mm pitch



7.62 mm pitch

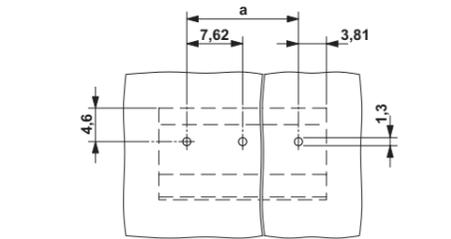
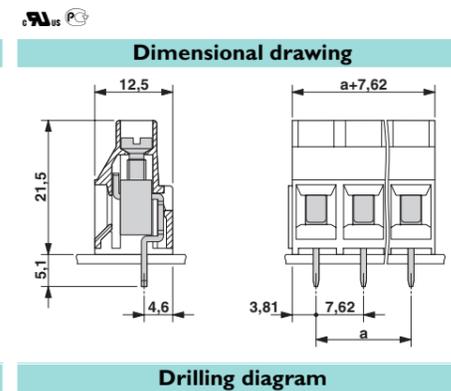


9.52 mm pitch



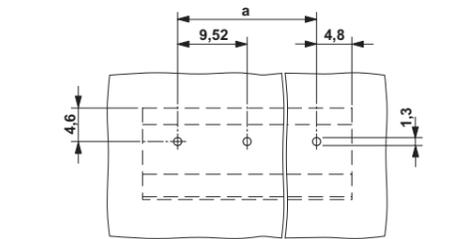
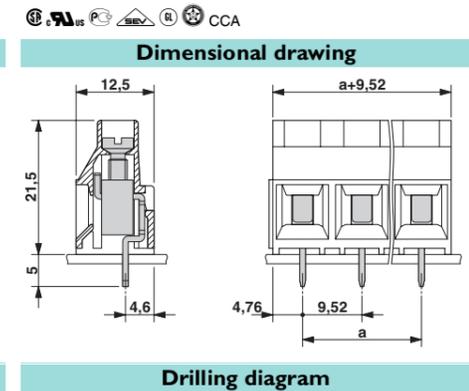
Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKDS 5/ 2-6,35	1714955	50
MKDS 5/ 3-6,35	1714968	50
6.35 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-6,35	1710056	50
MKDSV 5/ 3-6,35	1710085	50
Pitch 7.62 mm, color: Green		
MKDS 5/ 2-7,62	1868076	50
MKDS 5/ 3-7,62	1704936	50
7.62 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-7,62	1907131	50
MKDSV 5/ 3-7,62	1907144	50
9.52 mm pitch, color: Green		
MKDS 5/ 2-9,5	1714971	50
MKDS 5/ 3-9,5	1714984	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-9,5	1710072	50
MKDSV 5/ 3-9,5	1710069	50



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKDS 5/ 2-6,35	1714955	50
MKDS 5/ 3-6,35	1714968	50
6.35 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-6,35	1710056	50
MKDSV 5/ 3-6,35	1710085	50
Pitch 7.62 mm, color: Green		
MKDS 5/ 2-7,62	1868076	50
MKDS 5/ 3-7,62	1704936	50
7.62 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-7,62	1907131	50
MKDSV 5/ 3-7,62	1907144	50
9.52 mm pitch, color: Green		
MKDS 5/ 2-9,5	1714971	50
MKDS 5/ 3-9,5	1714984	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-9,5	1710072	50
MKDSV 5/ 3-9,5	1710069	50



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKDS 5/ 2-6,35	1714955	50
MKDS 5/ 3-6,35	1714968	50
6.35 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-6,35	1710056	50
MKDSV 5/ 3-6,35	1710085	50
Pitch 7.62 mm, color: Green		
MKDS 5/ 2-7,62	1868076	50
MKDS 5/ 3-7,62	1704936	50
7.62 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-7,62	1907131	50
MKDSV 5/ 3-7,62	1907144	50
9.52 mm pitch, color: Green		
MKDS 5/ 2-9,5	1714971	50
MKDS 5/ 3-9,5	1714984	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products .		
MKDSV 5/ 2-9,5	1710072	50
MKDSV 5/ 3-9,5	1710069	50

Technical data

	MKDS 5/...-6,35	MKDS 5/ ...-7,62	MKDS 5/...-9,5
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section [A] / [mm ²]	32(1) / 6	32(1) / 6	32(1) / 6
Rated insulation voltage for pollution degree 2 [V]	630	630	1000
Pitch [mm]	6.35	7.62	9.52
Connection capacity			
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	500 630 1000	500 630 1000	690 1000 1000
Rated surge voltage [kV]	6 6 6	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - - 300	300 - - 300	300 300 600
Nominal current [A]	30 - - 10	30 - - 10	30 30 5
Connection capacity AWG	30 - 10 - - 30 - 10	30 - 10 - - 30 - 10	30 - 10 30 - 10 30 - 10
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - - 300	- - -	300 300 -
Nominal current [A]	10 - - 10	- - -	30 30 -
Connection capacity AWG	28 - 10 - - 28 - 10	- - -	28 - 10 28 - 10 -
General data			
Stripping length [mm]	8	8	8
Screw thread	M3	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm

Technical data

	MKDS 5/...-6,35	MKDS 5/ ...-7,62	MKDS 5/...-9,5
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section [A] / [mm ²]	32(1) / 6	32(1) / 6	32(1) / 6
Rated insulation voltage for pollution degree 2 [V]	630	630	1000
Pitch [mm]	6.35	7.62	9.52
Connection capacity			
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	500 630 1000	500 630 1000	690 1000 1000
Rated surge voltage [kV]	6 6 6	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - - 300	300 - - 300	300 300 600
Nominal current [A]	30 - - 10	30 - - 10	30 30 5
Connection capacity AWG	30 - 10 - - 30 - 10	30 - 10 - - 30 - 10	30 - 10 30 - 10 30 - 10
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - - 300	- - -	300 300 -
Nominal current [A]	10 - - 10	- - -	30 30 -
Connection capacity AWG	28 - 10 - - 28 - 10	- - -	28 - 10 28 - 10 -
General data			
Stripping length [mm]	8	8	8
Screw thread	M3	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm

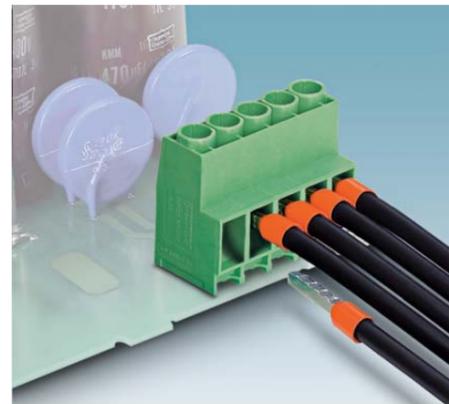
Technical data

	MKDS 5/...-6,35	MKDS 5/ ...-7,62	MKDS 5/...-9,5
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section [A] / [mm ²]	32(1) / 6	32(1) / 6	32(1) / 6
Rated insulation voltage for pollution degree 2 [V]	630	630	1000
Pitch [mm]	6.35	7.62	9.52
Connection capacity			
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.75	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [kV]	500 630 1000	500 630 1000	690 1000 1000
Rated surge voltage [kV]	6 6 6	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - - 300	300 - - 300	300 300 600
Nominal current [A]	30 - - 10	30 - - 10	30 30 5
Connection capacity AWG	30 - 10 - - 30 - 10	30 - 10 - - 30 - 10	30 - 10 30 - 10 30 - 10
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 - - 300	- - -	300 300 -
Nominal current [A]	10 - - 10	- - -	30 30 -
Connection capacity AWG	28 - 10 - - 28 - 10	- - -	28 - 10 28 - 10 -
General data			
Stripping length [mm]	8	8	8
Screw thread	M3	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

600 V-UL, horizontal connection direction, pitch 6.35/9.52 mm



- High-voltage MKDS 5N HV PCB terminal blocks with increased air and creepage distances
- Unrestricted 600 V UL approval thanks to compact Z pinning (MKDS 5N HV/...ZB-6,35 and MKDS 5 HV/...-9,52-Z)

MKDS 5 HV/...-9,52...

- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

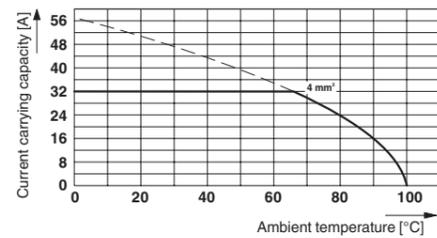
¹⁾ Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 5,0 WH-REEL	799

Current carrying capacity curve

Type: MKDS 5 HV/2-9,52 and MKDS 5 HV/3-9,52
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Z pinning, 600 V UL approval, 6.35 mm pitch



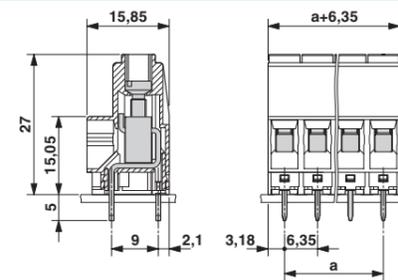
Linear pinning, 300 V UL approval, 9.52 mm pitch



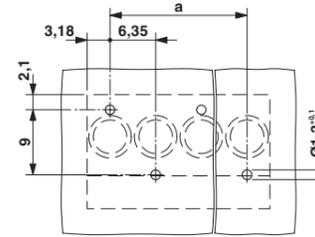
Z pinning, 600 V UL approval, 9.52 mm pitch



Dimensional drawing



Drilling diagram

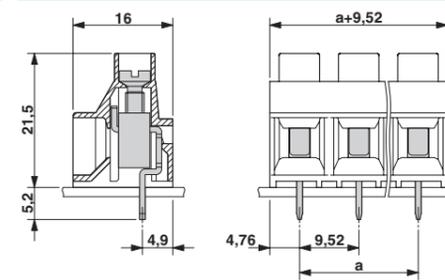


Ordering data

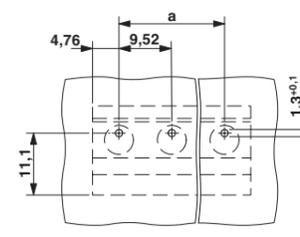
Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKDS 5N HV/ 2-ZB-6,35	1777545	50
MKDS 5N HV/ 3-ZB-6,35	1777558	50
MKDS 5N HV/ 4-ZB-6,35	1777561	50
MKDS 5N HV/ 5-ZB-6,35	1777574	50
MKDS 5N HV/ 6-ZB-6,35	1777587	50
MKDS 5N HV/ 7-ZB-6,35	1777590	50
MKDS 5N HV/ 8-ZB-6,35	1777600	50
MKDS 5N HV/ 9-ZB-6,35	1777613	50
MKDS 5N HV/10-ZB-6,35	1777626	50
MKDS 5N HV/11-ZB-6,35	1777639	50
MKDS 5N HV/12-ZB-6,35	1777642	50



Dimensional drawing



Drilling diagram

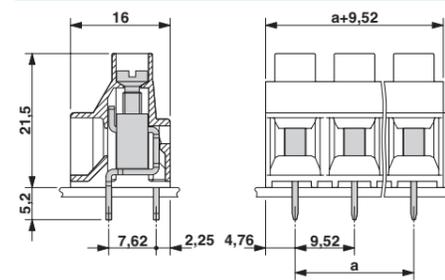


Ordering data

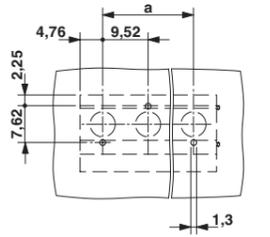
Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
MKDS 5 HV/ 2-9,52	1902547	50
MKDS 5 HV/ 3-9,52	1904150	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.		
MKDSV 5 HV/ 2-9,52	1904147	50



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
MKDS 5 HV/ 2-9,52-Z	1907432	50
MKDS 5 HV/ 3-9,52-Z	1907429	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.		
MKDSV 5 HV/ 2-9,52-Z	1907416	50

Technical data

Technical data in accordance to IEC / DIN VDE	MKDS 5N HV/ ...-ZB-6,35	MKDS 5 HV/ ...-9,52	MKDS 5 HV/ ...-9,52-Z
Rated current / conductor cross section [A] / [mm ²]	41 ¹⁾ / 6	32 ¹⁾ / 6	32 ¹⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	1000	1000	1000
Pitch [mm]	6.35	9.52	9.52
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Solid / stranded [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4	0.25 - 4	0.25 - 4
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Insulation coordination	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	800 1000 1000	800 1000 1000	690 1000 1000
Rated surge voltage [kV]	8 8 8	8 8 6	8 8 6
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	600 600 -	300 300 600	600 600 -
Nominal current [A]	30 30 -	30 30 5	30 30 -
Connection capacity AWG	30 - 10 30 - 10 -	30 - 10 30 - 10 30 - 10	30 - 10 30 - 10 -
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	- - -	- - -	- - -
Nominal current [A]	- - -	- - -	- - -
Connection capacity AWG	- - -	- - -	- - -
General data			
Stripping length [mm]	8	8	8
Screw thread	M3	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm

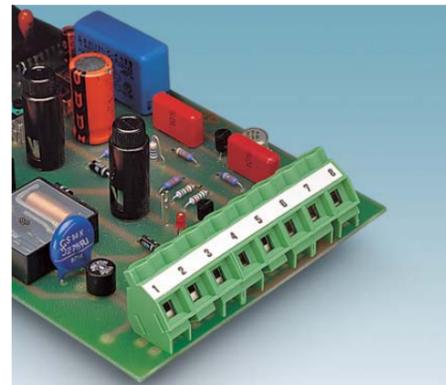
Technical data

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
4	19.05
5	25.40
6	31.75
7	38.10
8	44.45
9	50.80
10	57.15
11	63.50
12	69.85
2	9.52
3	19.04
2	9.52

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

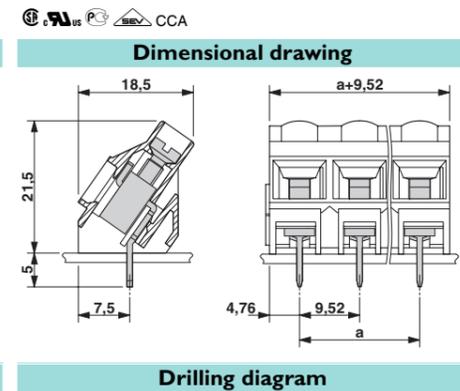
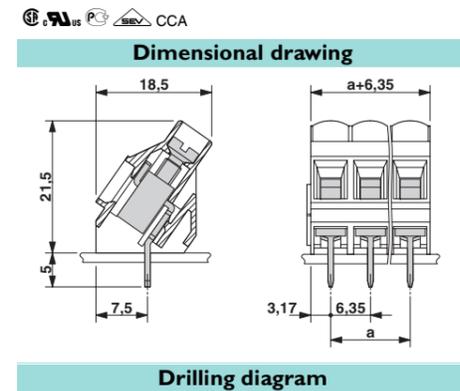
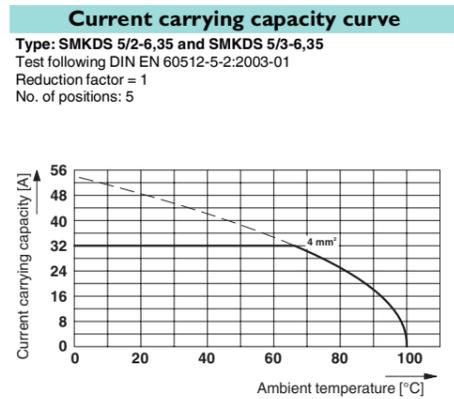
Angled connection direction, pitch 6.35/9.52 mm



- Connection direction of the conductor angled to the PCB (35°)
- PCB terminal blocks with screw connection up to 6 mm² conductor cross section
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Different pitches to fulfill different voltage requirements (6.35 mm / 9.52 mm)

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 5,0 WH:REEL	799



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
SMKDS 5/ 2-6,35	1720033	50
SMKDS 5/ 3-6,35	1720046	50
2	9.52	
3	19.04	

Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
SMKDS 5/ 2-9,5	1720017	50
SMKDS 5/ 3-9,5	1720020	50

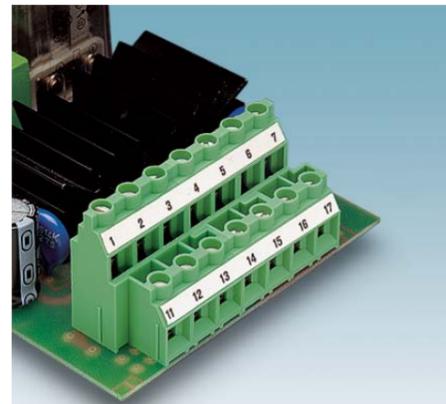
Technical data

	SMKDS 5/ ...-6,35	SMKDS 5/ ...-9,5
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section [A] / [mm ²]	32 ¹⁾ / 6	32 ¹⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	630	1000
Pitch [mm]	6.35	9.52
Connection capacity		
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000	690 1000 1000
Rated surge voltage [kV]	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	250 - 300	250 300 -
Nominal current [A]	30 - 10	30 30 -
Connection capacity AWG	30 - 10	30 - 10 -
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	300 - 300	300 300 -
Nominal current [A]	10 - 10	30 30 -
Connection capacity AWG	28 - 10	28 - 10 -
General data		
Stripping length [mm]	8	8
Screw thread	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V2	V2
Drill hole diameter / pin dimensions [mm]	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

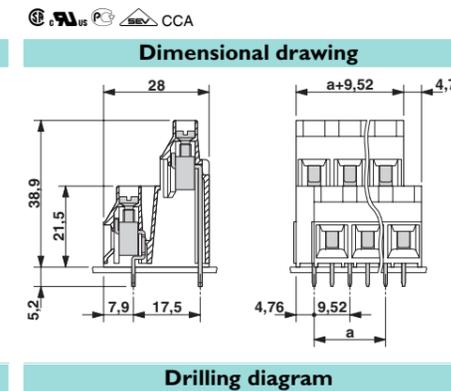
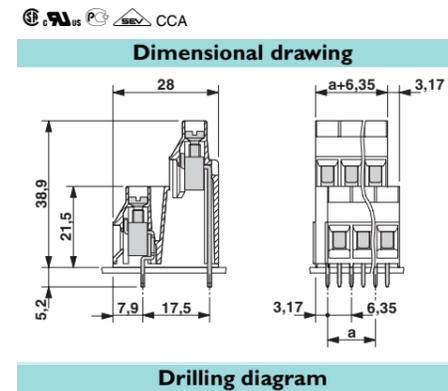
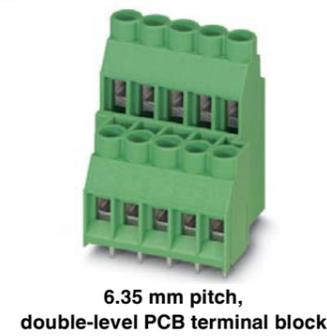
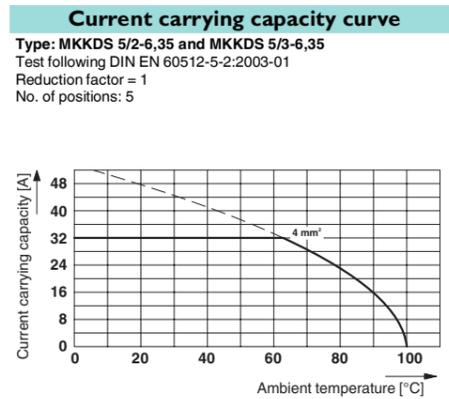
Double-level design, pitch 6.35/9.52 mm



- Double-level PCB terminal blocks with a screw connection up to 6 mm² conductor cross section
- Different pitches to fulfill different voltage requirements (6.35 mm / 9.52 mm)
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Lateral offset of terminal points for better accessibility of cable funnels

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 5,0 WH:REEL	799



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKKDS 5/ 2-6,35	1719031	50
MKKDS 5/ 3-6,35	1719044	50

Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
MKKDS 5/ 2-9,5	1719015	50
MKKDS 5/ 3-9,5	1719028	50

Technical data

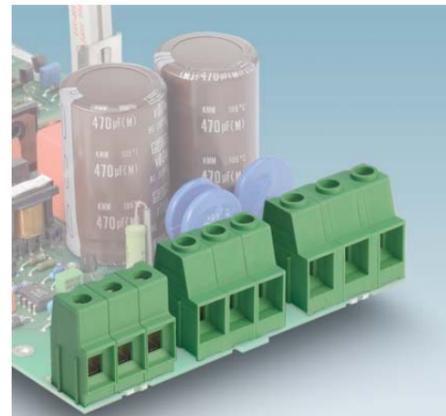
	MKKDS 5/ ...-6,35	MKKDS 5/ ...-9,5
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section [A] / [mm ²]	32 ¹⁾ / 6	32 ¹⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	630	1000
Pitch [mm]	6.35	9.52
Connection capacity		
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000	690 1000 1000
Rated surge voltage [kV]	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	300 - 300	300 300 600
Nominal current [A]	30 - 10	30 30 5
Connection capacity AWG	30 - 10 - 30 - 10	30 - 10 30 - 10 30 - 10
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	300 - 300	300 300 -
Nominal current [A]	10 - 10	30 30 -
Connection capacity AWG	28 - 10 - 28 - 10	28 - 10 28 - 10 -
General data		
Stripping length [mm]	8	8
Screw thread	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V2
Drill hole diameter / pin dimensions [mm]	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

Technical data

	MKKDS 5/ ...-6,35	MKKDS 5/ ...-9,5
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section [A] / [mm ²]	32 ¹⁾ / 6	32 ¹⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	630	1000
Pitch [mm]	6.35	9.52
Connection capacity		
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 0.75	0.25 - 0.75
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000	690 1000 1000
Rated surge voltage [kV]	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	300 - 300	300 300 600
Nominal current [A]	30 - 10	30 30 5
Connection capacity AWG	30 - 10 - 30 - 10	30 - 10 30 - 10 30 - 10
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	300 - 300	300 300 -
Nominal current [A]	10 - 10	30 30 -
Connection capacity AWG	28 - 10 - 28 - 10	28 - 10 28 - 10 -
General data		
Stripping length [mm]	8	8
Screw thread	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V2
Drill hole diameter / pin dimensions [mm]	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
2	9.52
3	19.04

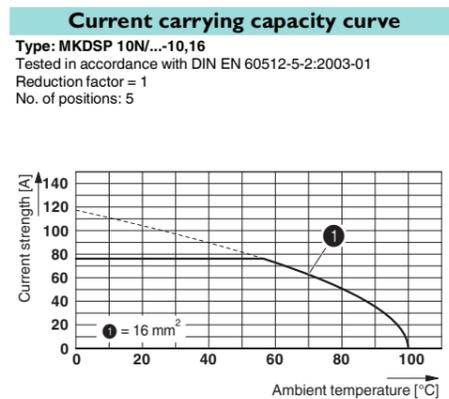
Horizontal connection direction, pitch 10.16/12.7 mm



- High-capacity PCB terminal blocks with a screw connection up to 16 mm² flexible and a current carrying capacity of 76 A
- Individual adjustment of voltage requirements using RZ pitch spacers (MKDS 10 HV)
- MKDSP 10 HV...-12,7 with unrestricted 600-V-UL approval
- Integrated test connection
- Terminal block bases that can be lined up next to each other in order to set up any number of positions

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).
 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Test plug MPS	831
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0,25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	
Only for MKDSP 10 HV...-12,7		
	Pitch spacer, width: 2,54 mm RZ-MKDSP 10 HV-2,54 Order No. 1929672	



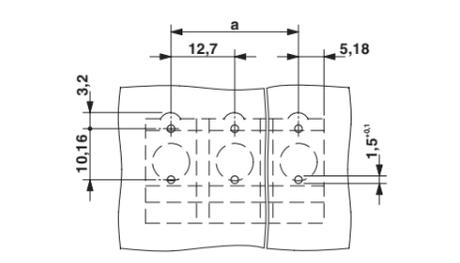
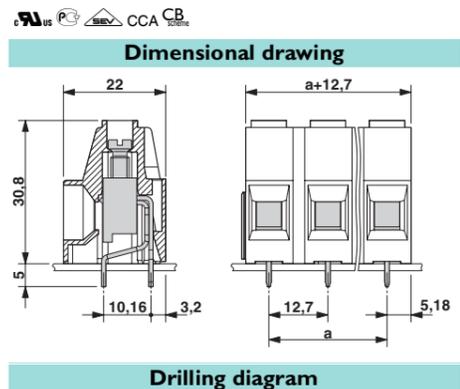
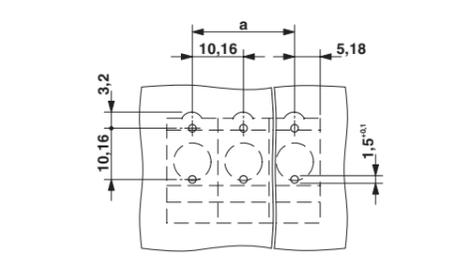
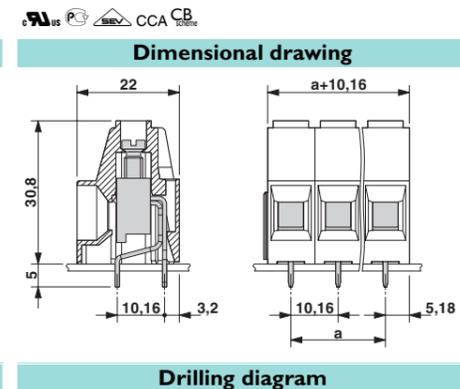
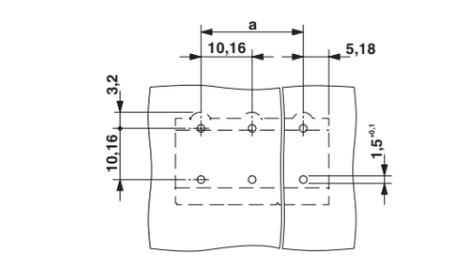
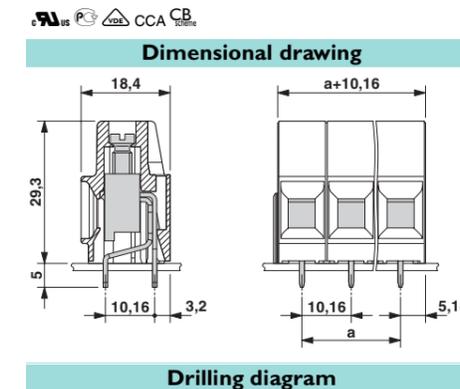
10.16 mm pitch, 300 V UL approval



10.16 mm pitch, 300 V UL approval



12.7 mm pitch, 600 V UL approval



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[kV]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	MKDSP 10N/ ...-10,16	MKDSP 10HV/ ...-10,16	MKDSP 10HV/ ...-12,7
Rated current / conductor cross section	76 ¹⁾ / 16	76 ¹⁾ / 16	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2	1000	1000	1000
Pitch	10.16	10.16	12.7
Connection capacity			
Solid / stranded	0.5 - 16 / 0.5 - 16 / 20 - 6	0.5 - 16 / 0.5 - 16 / 20 - 6	0.5 - 16 / 0.5 - 16 / 20 - 6
Stranded with ferrules without plastic sleeve	0.5 - 16	0.5 - 16	0.5 - 16
Stranded with ferrules with plastic sleeve	0.5 - 16	0.5 - 16	0.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	0.5 - 4 / 0.5 - 4	0.5 - 4 / 0.5 - 4	0.5 - 4 / 0.5 - 4
Stranded with ferrules without plastic sleeve	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 6	0.5 - 6	0.5 - 6
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	690 1000 1000	690 1000 1000	1000 1000 1000
Rated surge voltage	8 8 6	8 8 6	8 8 6
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	300 300 600	300 300 600	600 600 -
Nominal current	60 60 5	60 60 5	60 60 -
Connection capacity AWG	20 - 6 20 - 6 20 - 6	20 - 6 20 - 6 20 - 6	20 - 6 20 - 6 -
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	- - -	- - -	- - -
Nominal current	- - -	- - -	- - -
Connection capacity AWG	- - -	- - -	- - -
General data			
Stripping length	10	10	10
Screw thread	M4	M4	M4
Tightening torque	1.2 - 1.5	1.2 - 1.5	1.2 - 1.5
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions	1.5 / 1 x 0.9 mm	1.5 / 1 x 0.9 mm	1.5 / 1 x 0.9 mm

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
2	10.16
3	20.32
2	12.70
3	25.40

PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²

PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²

600 V-UL, horizontal connection direction, pitch 10.16 mm



- Compact high-capacity PCB terminal blocks with a screw connection up to 16 mm², stranded, and a current carrying capacity of 76 A
- Unrestricted 600-V-UL approval thanks to zig-zag pinning
- Pitch 10.16 mm
- MKDS 10 HV/...-B-10,16 with a solder pin at the back; MKDS 10 HV/...-F-10,16 with a solder pin in the front
- Terminal block bases that can be lined up next to each other in order to set up any number of positions

Notes:

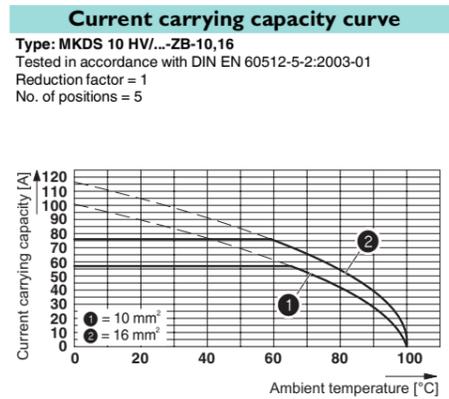
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

When aligning single PCB terminal blocks with identical pinning, other rated insulation voltages can occur.

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker strips SK 5,0 WH-REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDS 10 HV/ ...-ZB-10,16	MKDS 10 HV/ 1-B-10,16	MKDS 10 HV/ 1-F-10,16
76 ¹⁾ / 16	76 ¹⁾ / 16	76 ¹⁾ / 16
1000	400	400
10.16	10.16	10.16
0.5 - 16 / 0.5 - 16 / 20 - 6	0.5 - 16 / 0.5 - 16 / 20 - 6	0.5 - 16 / 0.5 - 16 / 20 - 6
0.5 - 16	0.5 - 16	0.5 - 16
0.5 - 16	0.5 - 16	0.5 - 16
0.5 - 6 / 0.5 - 6	0.5 - 6 / 0.5 - 6	0.5 - 6 / 0.5 - 6
0.5 - 4	0.5 - 4	0.5 - 4
0.5 - 6	0.5 - 6	0.5 - 6
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
800 1000 1000	400 400 800	400 400 800
8 8 8	4 4 4	4 4 4
B C D	B C D	B C D
600 600 -	600 600 -	600 600 -
60 60 -	60 60 -	60 60 -
20 - 6 20 - 6 -	20 - 6 20 - 6 -	20 - 6 20 - 6 -
B C D	B C D	B C D
- - -	- - -	- - -
- - -	- - -	- - -
- - -	- - -	- - -
10	10	10
M4	M4	M4
1.2 - 1.5	1.2 - 1.5	1.2 - 1.5
PA / I	PA / I	PA / I
V0	V0	V0
1.5 / 1 x 0.9 mm	1.5 / 1 x 0.9 mm	1.5 / 1 x 0.9 mm

No. of pos.	Dim. a [mm]
1	
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28
10	91.44
11	101.60
12	111.76



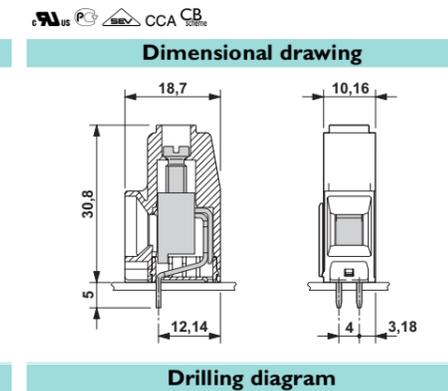
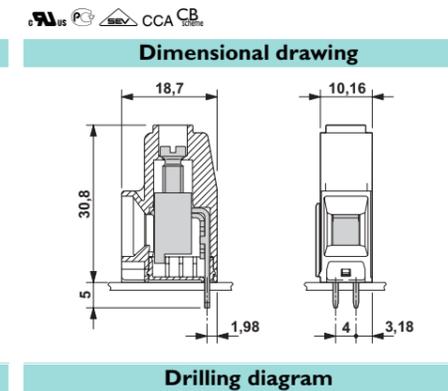
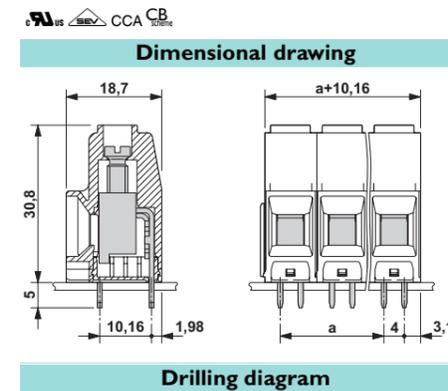
Z pinning, 600 V UL approval



Single PCB terminal block with solder pin to the rear, 600 V UL approval



Single PCB terminal block with solder pin to the front, 600 V UL approval

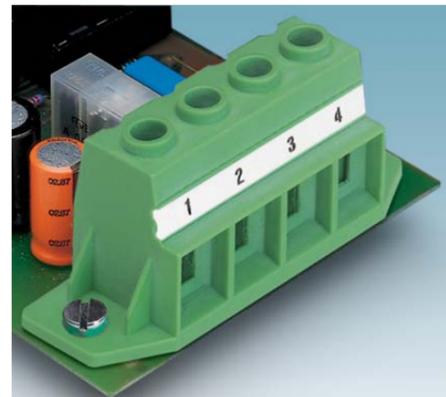


Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDS 10 HV/ 2-ZB-10,16	1709681	50
MKDS 10 HV/ 3-ZB-10,16	1709694	50
MKDS 10 HV/ 4-ZB-10,16	1709704	50
MKDS 10 HV/ 5-ZB-10,16	1709717	50
MKDS 10 HV/ 6-ZB-10,16	1709720	50
MKDS 10 HV/ 7-ZB-10,16	1709733	50
MKDS 10 HV/ 8-ZB-10,16	1709746	50
MKDS 10 HV/ 9-ZB-10,16	1709759	50
MKDS 10 HV/10-ZB-10,16	1709762	50
MKDS 10 HV/11-ZB-10,16	1709775	50
MKDS 10 HV/12-ZB-10,16	1709788	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDS 10 HV/ 1-B-10,16	1993776	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDS 10 HV/ 1-F-10,16	1993763	50

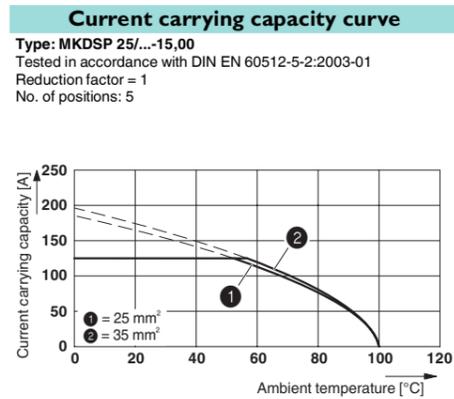
Horizontal connection direction, pitch 15 mm



Notes:
 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.
 2) 2.5 Nm = 25 mm²
 4.5 Nm = 35 mm²

- High-capacity PCB terminal blocks with a screw connection up to 35 mm² conductor cross section and a current carrying capacity of 125 A
- Unrestricted 600-V-UL approval
- Integrated test connection
- Version with mounting flange (-F) for safe mounting on the PCB
- Single-pos. version with a left-sided mounting flange (-FL)
- Integrated protective guide

Accessories		
For all types	Type	Page
	Test plug MPS	831
	Reducing plug RPS Order No. 0201647	831
	Screwdriver SZS 1,0 x 6,5 Order No. 1205079	
	Marker strips SK 10,0 WH-REEL Order No. 0812188	801
	Zack marker strip ZBF 15: UNBEDRUCKT	807



Without mounting flange, 600 V UL approval

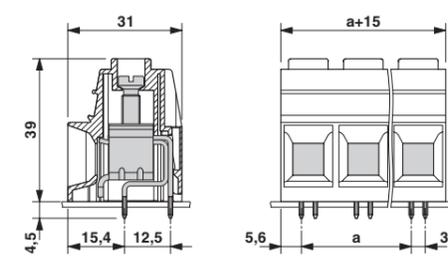


With mounting flange, 600 V UL approval

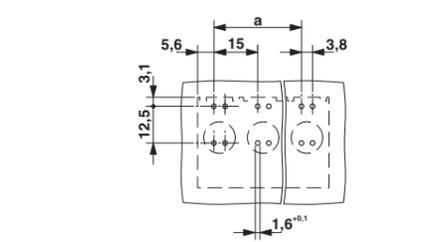


Single PCB terminal block with mounting flange, left, 600 V UL approval

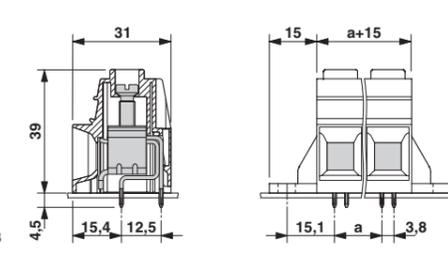
Dimensional drawing



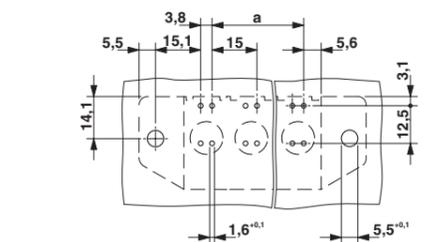
Drilling diagram



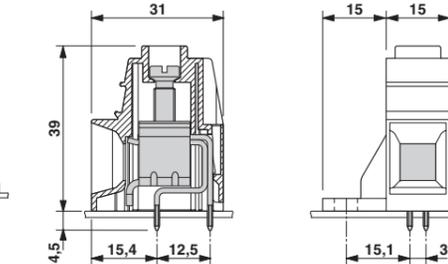
Dimensional drawing



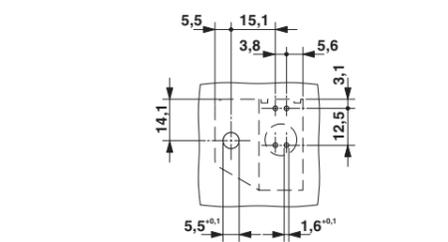
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSP 25/ ...-15,00	MKDSP 25/ ...-15,00-F	MKDSP 25/ 1-15,00-FL
125 ¹⁾ / 35	125 ¹⁾ / 35	125 ¹⁾ / 35
1000	1000	1000
15	15	15
0.5 - 35 / 0.5 - 25 / 20 - 2	0.5 - 35 / 0.5 - 25 / 20 - 2	0.5 - 35 / 0.5 - 25 / 20 - 2
1 - 25	1 - 25	1 - 25
1.5 - 25	1.5 - 25	1.5 - 25
0.5 - 6 / 0.5 - 6	0.5 - 6 / 0.5 - 6	0.5 - 6 / 0.5 - 6
0.5 - 4	0.5 - 4	0.5 - 4
0.5 - 6	0.5 - 6	0.5 - 6
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
1000 1000 1000	1000 1000 1000	1000 1000 1000
8 8 8	8 8 8	8 8 8
B C D	B C D	B C D
600 600 -	600 600 -	600 600 -
115 115 -	115 115 -	115 115 -
20 - 2 20 - 2 -	20 - 2 20 - 2 -	20 - 2 20 - 2 -
B C D	B C D	B C D
- - -	- - -	- - -
- - -	- - -	- - -
- - -	- - -	- - -
18	18	18
M5	M5	M5
2.5 - 4.5 ²⁾	2.5 - 4.5 ²⁾	2.5 - 4.5 ²⁾
PA / I	PA / I	PA / I
V0	V0	V0
1.6 / 1.2 x 1.2 mm	1.6 / 1.2 x 1.2 mm	1.6 / 1.2 x 1.2 mm

No. of pos.	Dim. a [mm]
1	
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00
7	90.00
8	105.00
9	120.00

Ordering data		
Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
MKDSP 25/ 2-15,00	1932588	25
MKDSP 25/ 3-15,00	1932591	25
MKDSP 25/ 4-15,00	1932601	25
MKDSP 25/ 5-15,00	1932614	25
MKDSP 25/ 6-15,00	1932627	25
MKDSP 25/ 7-15,00	1932630	25
MKDSP 25/ 8-15,00	1932643	25
MKDSP 25/ 9-15,00	1932656	25

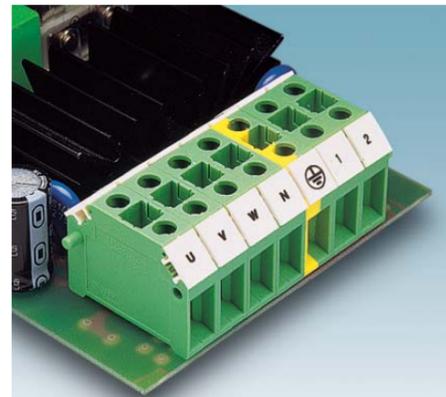
Ordering data		
Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
MKDSP 25/ 2-15,00-F	1932494	25
MKDSP 25/ 3-15,00-F	1932504	25
MKDSP 25/ 4-15,00-F	1932517	25
MKDSP 25/ 5-15,00-F	1932520	25
MKDSP 25/ 6-15,00-F	1932533	25
MKDSP 25/ 7-15,00-F	1932546	25
MKDSP 25/ 8-15,00-F	1932559	25
MKDSP 25/ 9-15,00-F	1932562	25

Ordering data		
Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
MKDSP 25/ 1-15,00-FL	1932575	25

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²

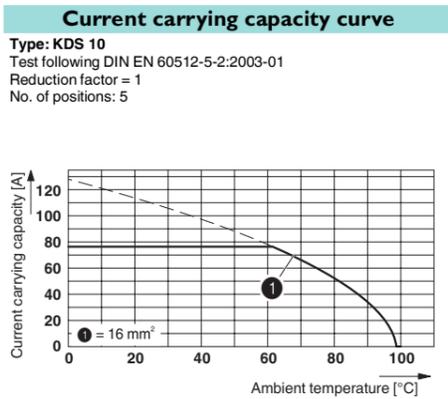
Feed-through PCB terminal blocks, pitch 10 mm



- High-capacity PCB terminal blocks with a current carrying capacity up to 76 A at the solder connection
- Can also be used as a feed-through terminal block up to 76 A
- Different solder pin geometries for greater voltage distances (KDS 10.../SO)
- Individual adjustment of voltage requirements using pitch spacers RZ
- Potential distribution possible by means of bridges

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 FBI 10-10 maximum via 3 KDS 10 terminal blocks. Remove the break-out wall for bridging.
 1) Higher voltages are achieved when the RZ-KDS 10 pitch spacer is inserted.
 2) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Pitch spacer, width: 2.5 mm RZ-KDS 10 Order No. 1701065	
	Fixed bridge, 10-pos., divisible FBI 10-10 Order No. 0203276	
	Test plug PS...	831
	Test socket for PS test plugs PSB 4/7/6 Order No. 0303299	
	Zack marker strip ZB 10	805
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	



PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

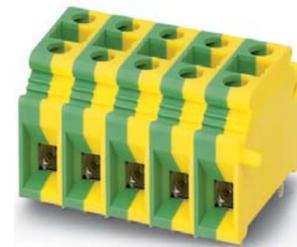
Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²



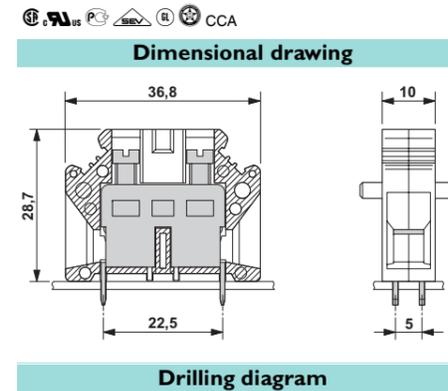
Solder pins in a row



Offset solder pins

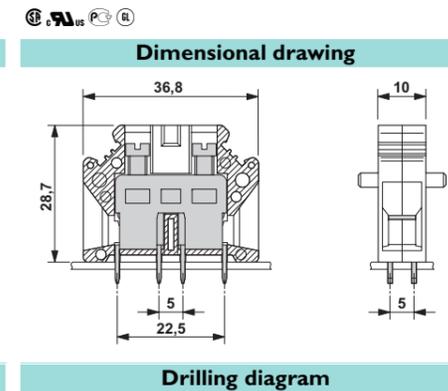


PE connection, solder pins in a row



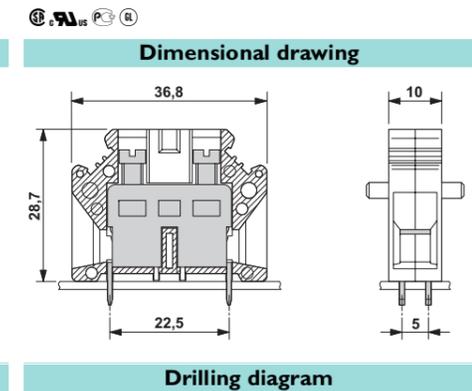
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green KDS10	1704020	50



Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green KDS10/SO	1704059	50



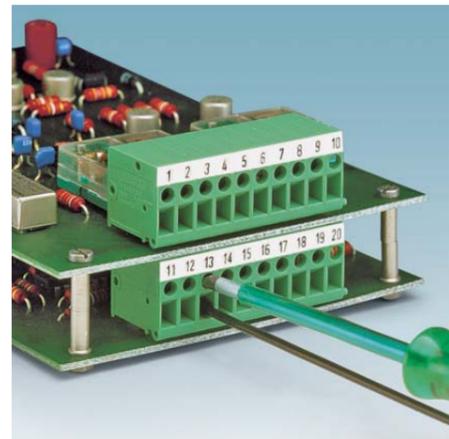
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green-yellow KDS10-PE	1704033	50

Technical data

	KDS10	KDS10/SO	KDS10-PE
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section [A] / [mm ²]	76 ²⁾ / 16	76 ²⁾ / 16	76 ²⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	320	630	320
Pitch [mm]	10	10	10
Connection capacity			
Solid / stranded [mm ²] / [mm ²] / AWG	0.5 - 16 / 0.5 - 10 / 20 - 6	0.5 - 16 / 0.5 - 10 / 20 - 6	0.5 - 16 / 0.5 - 10 / 20 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 10	0.5 - 10	0.5 - 10
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 10	0.5 - 10	0.5 - 10
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded [mm ²]	0.5 - 4 / 0.5 - 4	0.5 - 4 / 0.5 - 4	0.5 - 4 / 0.5 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 6	0.5 - 6	0.5 - 6
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 ¹⁾ 320 630	630 ¹⁾ 630 1000	250 320 630
Rated surge voltage [kV]	4 4 4	6 6 6	4 4 4
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	250 300 600	250 300 600	- - -
Nominal current [A]	65 65 5	65 65 5	- - -
Connection capacity AWG	24 - 6 24 - 6 24 - 6	24 - 6 24 - 6 24 - 6	- - -
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	300 300 -	300 300 -	- - -
Nominal current [A]	65 65 -	65 65 -	- - -
Connection capacity AWG	18 - 6 18 - 6 -	18 - 6 18 - 6 -	- - -
General data			
Stripping length [mm]	12	12	12
Screw thread	M4	M4	M4
Tightening torque [Nm]	1.2 - 1.5	1.2 - 1.5	1.2 - 1.5
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	1.4 / 1 x 0.9 mm	1.4 / 1 x 0.9 mm	1.4 / 1 x 0.9 mm

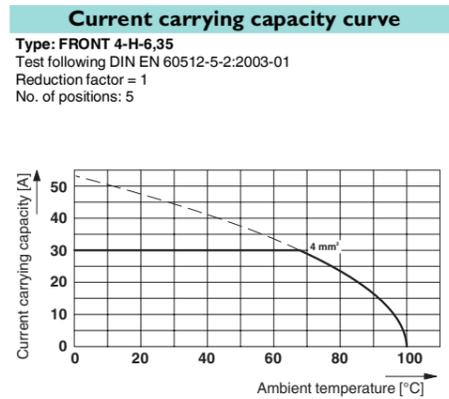
Front PCB terminal blocks, pitch 6.35/7.62 mm



- Front screw connection terminal blocks up to 6 mm² conductor cross section
- Connection direction of the conductor: Horizontal (0° -H) or vertical (90° -V)
- A cover is necessary at the end of a terminal block row (D-FRONT 4-6,35)

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 Additional versions and accessories for the KDS 10 series can be found on page 456.
 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
Only for KDS 10...		
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Pitch spacer, width: 2,5 mm RZ-KDS 10 Order No. 1701065	
	Zack marker strip ZB 10	805
Only for FRONT 4...-6,5		
	Cover, width 1,5 mm D-FRONT 4-6,35 Order No. 1703076	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8	799



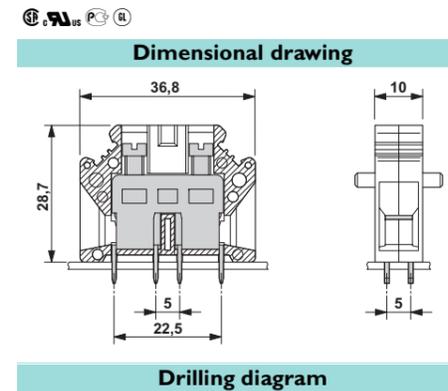
Feed-through terminal block as PE connection, offset solder pins



Individual PCB terminal block, horizontal connection direction

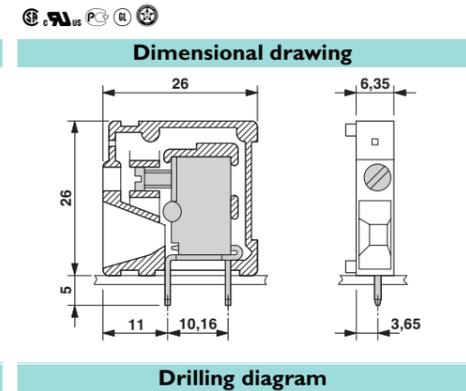


Individual PCB terminal block, vertical connection direction



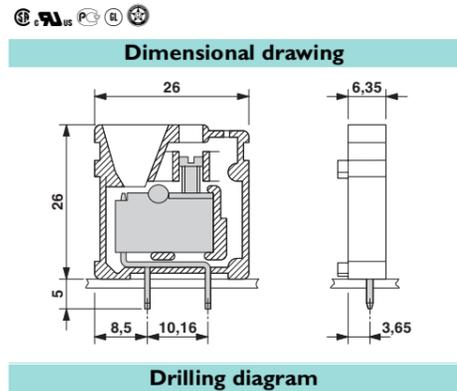
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green-yellow KDS10-PE/SO	1704062	50



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green FRONT 4-H-6,35	1703050	50



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green FRONT 4-V-6,35	1703063	50

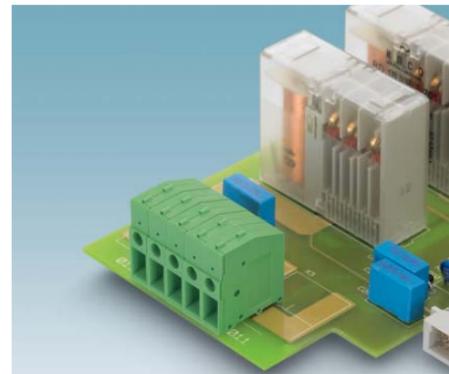
Technical data

	KDS10-PE/SO	FRONT 4-H-6,35	FRONT 4-V-6,35
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16	32 ¹⁾ / 6	32 ¹⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	630	320	320
Pitch [mm]	10	6.35	6.35
Connection capacity [mm ²] / [mm ²] / AWG	0.5 - 16 / 0.5 - 10 / 20 - 6	0.5 - 6 / 0.5 - 4 / 20 - 10	0.5 - 6 / 0.5 - 4 / 20 - 10
Solid / stranded [mm ²]	0.5 - 10	0.5 - 4	0.5 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 10	0.5 - 4	0.5 - 4
Stranded with ferrules with plastic sleeve [mm ²]			
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.5 - 4 / 0.5 - 4	0.5 - 1.5 / 0.5 - 1.5	0.5 - 1.5 / 0.5 - 1.5
Solid / stranded [mm ²]			
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 2.5	0.25 - 1	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 6	0.5 - 1	0.5 - 1
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	630 630 1000	320 320 630	320 320 630
Rated surge voltage [kV]	4 4 4	4 4 4	4 4 4
Approval data (UL/CUL) Use Group	B C D	B C D	B C D
Nominal voltage [V]	- - -	300 - 300	300 - 300
Nominal current [A]	- - -	30 - 30	30 - 30
Connection capacity AWG	- - -	24 - 10 - 24 - 10	24 - 10 - 24 - 10
Approval data (CSA) Use Group	B C D	B C D	B C D
Nominal voltage [V]	- - -	300 - 300	300 - 300
Nominal current [A]	- - -	30 - 10	30 - 10
Connection capacity AWG	- - -	22 - 10 - 22 - 10	22 - 10 - 22 - 10
General data			
Stripping length [mm]	12	14	14
Screw thread	M4	M3	M3
Tightening torque [Nm]	1.2 - 1.5	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V2	V2
Drill hole diameter / pin dimensions [mm]	1.4 / 1 x 0,9 mm	1.3 / 1 x 0,8 mm	1.3 / 1 x 0,8 mm

No. of pos.

1
1

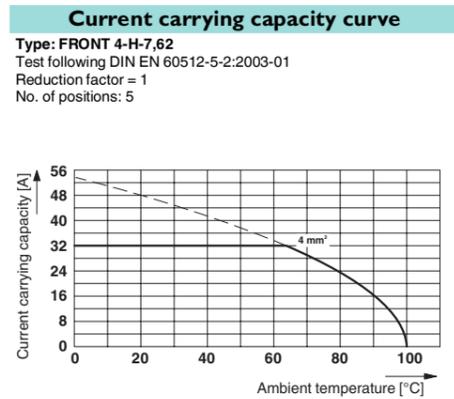
Front PCB terminal blocks, pitch 6.35/7.62 mm



Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 *) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

- Front screw connection terminal blocks up to 6 mm² conductor cross section
- Connection direction of the conductor: Horizontal (0° -H) or vertical (90° -V)
- In the horizontal version, pitch spacers (RZ) are available for adjusting insulation distances

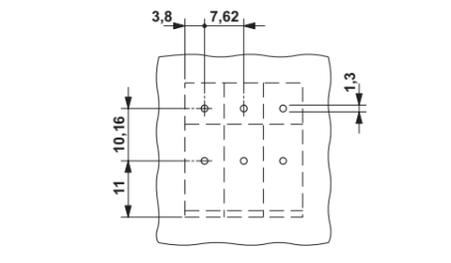
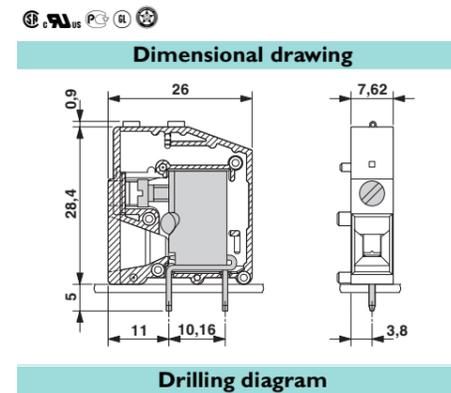
Accessories		
For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Pitch spacer, width: 5.08 mm RZ-5,08-FRONT 4-H-7,62 Order No. 1904011	
	Marker cards SK 7,62/3,8	799



Individual PCB terminal block, horizontal connection direction

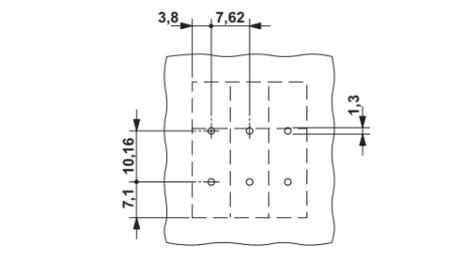
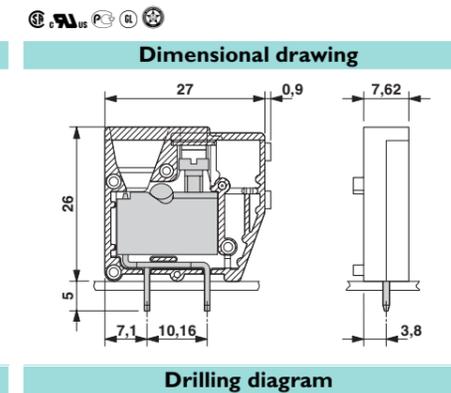


Individual PCB terminal block, vertical connection direction



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green FRONT 4-H-7,62	1703034	50



Ordering data

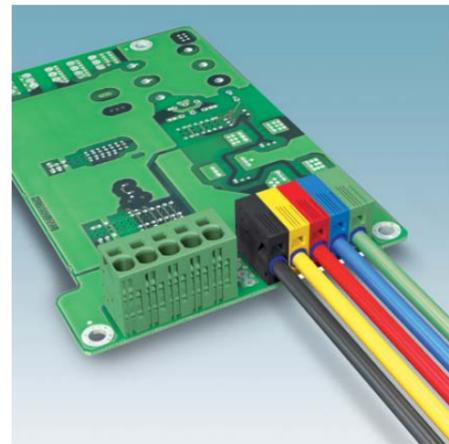
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green FRONT 4-V-7,62	1703021	50

Technical data

	FRONT 4-H-7,62	FRONT 4-V-7,62
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section [A] / [mm ²]	32 ¹⁾ / 6	32 ¹⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	630	630
Pitch [mm]	7.62	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.5 - 6 / 0.5 - 4 / 20 - 10	0.5 - 6 / 0.5 - 4 / 20 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 4	0.5 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 4	0.5 - 4
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.5 - 1.5 / 0.5 - 1.5	0.5 - 1.5 / 0.5 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1	0.5 - 1
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000	500 630 1000
Rated surge voltage [kV]	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	300 - 300	300 - 300
Nominal current [A]	30 - 30	30 - 30
Connection capacity AWG	24 - 10 - 24 - 10	24 - 10 - 24 - 10
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	300 - 300	300 - 300
Nominal current [A]	30 - 10	30 - 10
Connection capacity AWG	22 - 10 - 22 - 10	22 - 10 - 22 - 10
General data		
Stripping length [mm]	14	14
Screw thread	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 1 x 0.8 mm	1.3 / 1 x 0.8 mm

No. of pos.
1

Vertical connection direction, pitch 7.5 mm



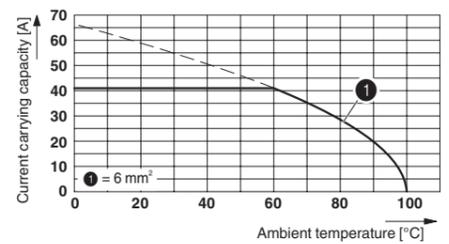
- Push-in spring-cage PCB terminal blocks SPT 5 for conductor cross sections up to 6 mm², stranded
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- Connection direction of the conductor: Vertical (90° -V) to the PCB
- Single-position terminal blocks with double pinning

Notes:
 When aligning versions with double pinning, other rated insulation voltages can occur.
 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

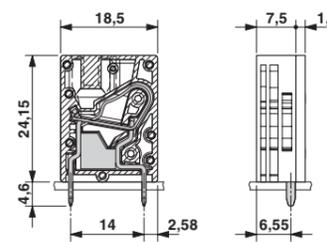
Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 7,5/3,8	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Pitch spacer RZ-SPT 5-4-V Order No. 1701535	

Current carrying capacity curve

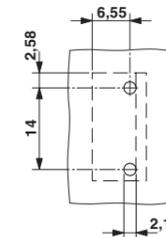
Type: SPT 5/...-V-7,5-ZB
 Test following DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 No. of positions: 5



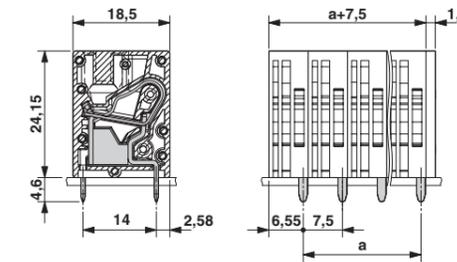
Dimensional drawing



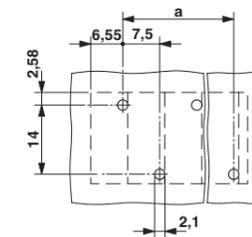
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
SPT 5/ 1-V-7,5	1719309	50
SPT 5/ 2-V-7,5-ZB	1719312	50
SPT 5/ 3-V-7,5-ZB	1719325	50
SPT 5/ 4-V-7,5-ZB	1719338	50
SPT 5/ 5-V-7,5-ZB	1719341	50
SPT 5/ 6-V-7,5-ZB	1719354	50
SPT 5/ 7-V-7,5-ZB	1719367	50
SPT 5/ 8-V-7,5-ZB	1719370	50
SPT 5/ 9-V-7,5-ZB	1719383	50
SPT 5/10-V-7,5-ZB	1719396	50
SPT 5/11-V-7,5-ZB	1719406	50
SPT 5/12-V-7,5-ZB	1719419	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
SPT 5/ 2-V-7,5-ZB	1719312	50
SPT 5/ 3-V-7,5-ZB	1719325	50
SPT 5/ 4-V-7,5-ZB	1719338	50
SPT 5/ 5-V-7,5-ZB	1719341	50
SPT 5/ 6-V-7,5-ZB	1719354	50
SPT 5/ 7-V-7,5-ZB	1719367	50
SPT 5/ 8-V-7,5-ZB	1719370	50
SPT 5/ 9-V-7,5-ZB	1719383	50
SPT 5/10-V-7,5-ZB	1719396	50
SPT 5/11-V-7,5-ZB	1719406	50
SPT 5/12-V-7,5-ZB	1719419	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm]

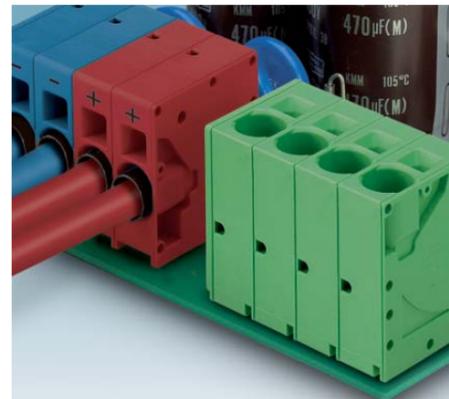
SPT 5/ 1-V-7,5			SPT 5/ ...-V-7,5-ZB		
Rated current / conductor cross section	41) / 10		41) / 10		
Rated insulation voltage for pollution degree 2	1000		1000		
Pitch	7.5		7.5		
Connection capacity	0.2 - 10 / 0.2 - 6 / 24 - 8		0.2 - 10 / 0.2 - 6 / 24 - 8		
Stranded with ferrules without plastic sleeve	0.25 - 6		0.25 - 6		
Stranded with ferrules with plastic sleeve	0.25 - 4		0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)	- / -		- / -		
Solid / stranded	- / -		- / -		
Stranded with ferrules without plastic sleeve	-		-		
Stranded with TWIN ferrule with plastic sleeve	0.25 - 1.5		0.25 - 1.5		
Insulation coordination			Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2		III / 3 III / 2 II / 2		
Rated insulation voltage	630 1000 1000		800 1000 1000		
Rated surge voltage	6 6 6		8 8 6		
Approval data (UL/CUL)	B C D		B C D		
Nominal voltage	300 150 600		600 600 -		
Nominal current	35 35 5		35 35 -		
Connection capacity AWG	24 - 8 24 - 8 24 - 8		24 - 8 24 - 8 -		
Approval data (CSA)	B C D		B C D		
Nominal voltage	- - -		- - -		
Nominal current	- - -		- - -		
Connection capacity AWG	- - -		- - -		
General data			General data		
Stripping length	15		15		
Type of insulation material / insulation material group	PA / I		PA / I		
Inflammability class according to UL 94	V0		V0		
Drill hole diameter / pin dimensions	2.1 / 1,7 x 0,8		2.1 / 1,7 x 0,8		

No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

Horizontal connection direction, pitch 10 mm



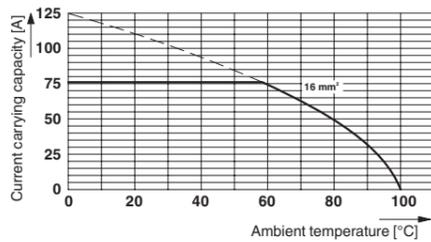
- SPT 16 PCB terminal block with push-in spring connection for conductor cross sections up to 16 mm² and a current carrying capacity of 76 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval thanks to compact zigzag pinning
- Connection direction of the conductor: Horizontal (0° -H) to the PCB
- Terminal blocks that can be lined up next to each other for color coding from position to position
- Single-position terminal blocks with double pinning

Notes:
When aligning versions with double pinning, other rated insulation voltages can occur.
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Marker strips SK 5,0 WH-REEL Order No. 0805221	801
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Current carrying capacity curve

Type: SPT 16/...-H-10,0-ZB
Test based on DIN EN 60512-5-2:2003-01
Reduction factor = 1
Number of positions: 5



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPT 16/ 1-H-10,0			SPT 16/ ...-H-10,0-ZB			
Rated current / conductor cross section	76 ¹⁾ / 16		76 ¹⁾ / 16			
Rated insulation voltage for pollution degree 2	1000		1000			
Pitch	10		10			
Connection capacity						
Solid & multi-strand / stranded	0.75 - 16 / 0.75 - 16 / 20 - 4		0.75 - 16 / 0.75 - 16 / 20 - 4			
Stranded with ferrules without plastic sleeve	0.75 - 16		0.75 - 16			
Stranded with ferrules with plastic sleeve	0.75 - 10		0.75 - 10			
Multi-conductor connection capacity (two conductors with the same cross section)						
Solid & multi-strand / stranded	- / -		- / -			
Stranded with ferrules without plastic sleeve	-		-			
Stranded with TWIN ferrule with plastic sleeve	0.75 - 4		0.75 - 4			
Insulation coordination						
Surge voltage category / pollution degree	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	1000	1000	1000	1000	1000	1000
Rated surge voltage	8	8	6	8	8	6
Approval data (UL/CUL)	B	C	D	B	C	D
Nominal voltage	300	150	300	600	600	-
Nominal current	66	66	10	66	66	-
Connection capacity AWG	20 - 4	20 - 4	20 - 4	20 - 4	20 - 4	-
Approval data (CSA)	B	C	D	B	C	D
Nominal voltage	-	-	-	-	-	-
Nominal current	-	-	-	-	-	-
Connection capacity AWG	-	-	-	-	-	-
General data						
Stripping length	18		18			
Type of insulation material / insulation material group	PA / I		PA / I			
Inflammability class according to UL 94	V0		V0			
Drill hole diameter / pin dimensions	1.7 / 1,2 x 1 mm		1.7 / 1,2 x 1 mm			

No. of pos.	Dim. a [mm]
1	0.00
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²



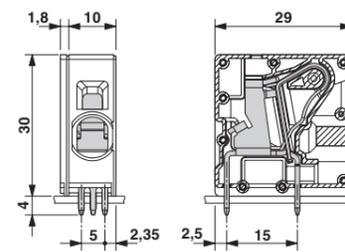
Individual PCB terminal block, double pinning



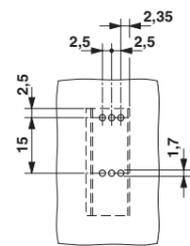
Z pinning, 600 V UL approval



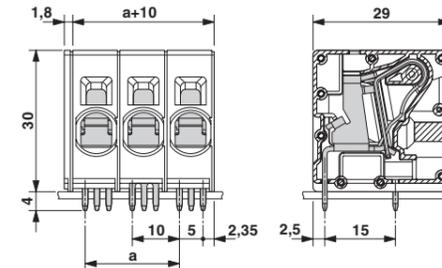
Dimensional drawing



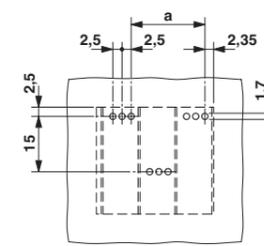
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 1-H-10,0	1735778	50

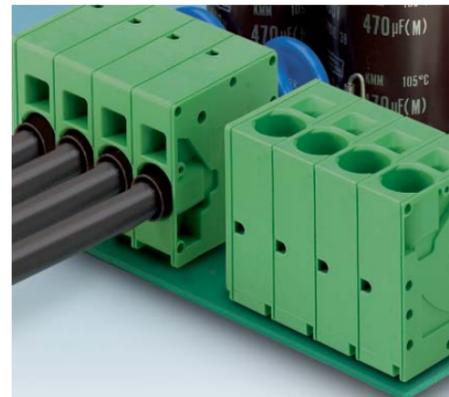
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 2-H-10,0-ZB	1735781	50
SPT 16/ 3-H-10,0-ZB	1735794	50
SPT 16/ 4-H-10,0-ZB	1735804	50
SPT 16/ 5-H-10,0-ZB	1735817	50
SPT 16/ 6-H-10,0-ZB	1735820	50
SPT 16/ 7-H-10,0-ZB	1735833	50
SPT 16/ 8-H-10,0-ZB	1735846	50
SPT 16/ 9-H-10,0-ZB	1735859	50

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

Vertical connection direction, pitch 10 mm



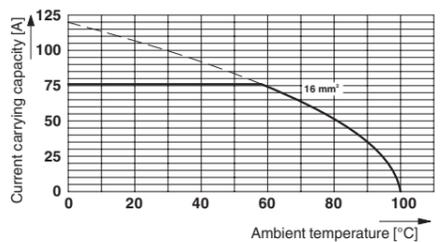
- SPT 16 PCB terminal block with push-in spring connection for conductor cross sections up to 16 mm² and a current carrying capacity of 76 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- Connection direction of the conductor: Horizontal (90° -V) to the PCB
- Single-position terminal blocks with double pinning
- Additional versions with anti-rotation protection for clear positioning during PCB assembly

Notes:
When aligning versions with double pinning, other rated insulation voltages can occur.
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Current carrying capacity curve

Type: SPT 16/...-V-10,0-ZB
Test based on DIN EN 60512-5-2:2003-01
Reduction factor = 1
Number of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10
Connection capacity	
Solid & multi-strand / stranded [mm ²] / [mm ²] / AWG	0.75 - 16 / 0.75 - 16 / 20 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.75 - 16
Stranded with ferrules with plastic sleeve [mm ²]	0.75 - 10
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.75 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 150 300
Nominal current [A]	66 66 10
Connection capacity AWG	20 - 4 20 - 4 20 - 4
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	18
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.7 / 1,2 x 1 mm

SPT 16/ 1-V-10,0	SPT 16/ ...-V-10,0-ZB
76 ¹⁾ / 16	76 ¹⁾ / 16
1000	1000
10	10
0.75 - 16 / 0.75 - 16 / 20 - 4	0.75 - 16 / 0.75 - 16 / 20 - 4
0.75 - 16	0.75 - 16
0.75 - 10	0.75 - 10
- / -	- / -
-	-
0.75 - 4	0.75 - 4
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
1000 1000 1000	1000 1000 1000
8 8 6	8 8 6
B C D	B C D
300 150 300	600 600 -
66 66 10	66 66 -
20 - 4 20 - 4 20 - 4	20 - 4 20 - 4 -
B C D	B C D
- - -	- - -
- - -	- - -
- - -	- - -
18	18
PA / I	PA / I
V0	V0
1.7 / 1,2 x 1 mm	1.7 / 1,2 x 1 mm

No. of pos.	Dim. a [mm]
1	0.00
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00
2	10.00

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²



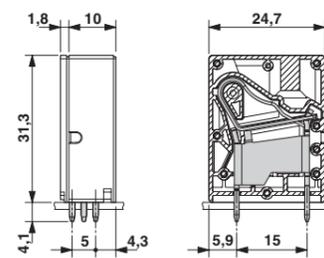
Individual PCB terminal block, double pinning



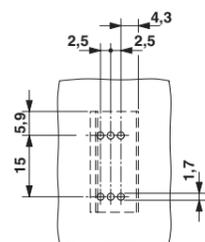
Z pinning, 600 V UL approval

UL US CCA CB

Dimensional drawing



Drilling diagram

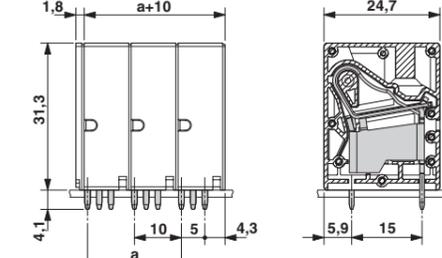


Ordering data

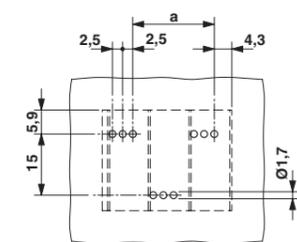
Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 1-V-10,0	1735862	50

UL US CCA CB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 2-V-10,0-ZB	1735875	50
SPT 16/ 3-V-10,0-ZB	1735888	50
SPT 16/ 4-V-10,0-ZB	1735891	50
SPT 16/ 5-V-10,0-ZB	1735901	50
SPT 16/ 6-V-10,0-ZB	1735914	50
SPT 16/ 7-V-10,0-ZB	1735927	50
SPT 16/ 8-V-10,0-ZB	1735930	50
SPT 16/ 9-V-10,0-ZB	1735943	50
10 mm pitch, color: green, with anti-rotation pins, drilling diagram, and dimensional drawing, see www.phoenixcontact.net/products		
SPT 16/ 2-V-10,0-ZBV GN	1775356	50

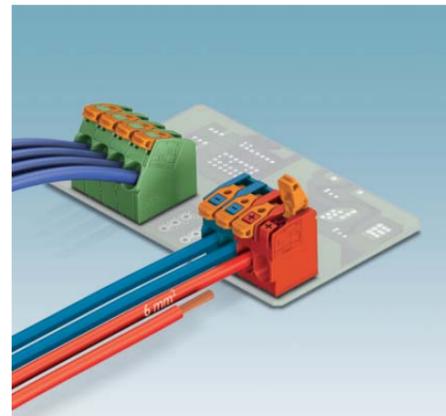
PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²

Horizontal and angled connection direction, pitch 7.5 mm



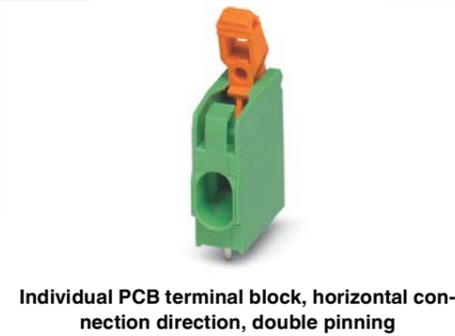
Notes:

When aligning versions with double pinning, other rated insulation voltages can occur.

When ferrules are used for 6 mm² conductor sizes, crimp with CRIMPFOX 6 (see accessories).

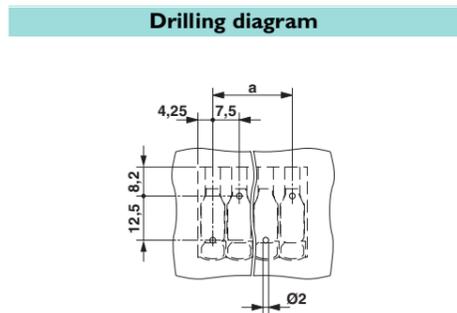
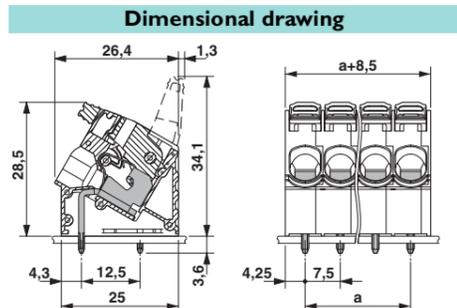
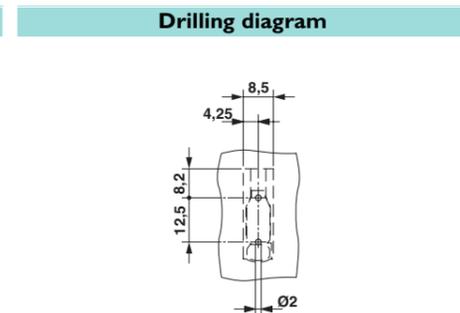
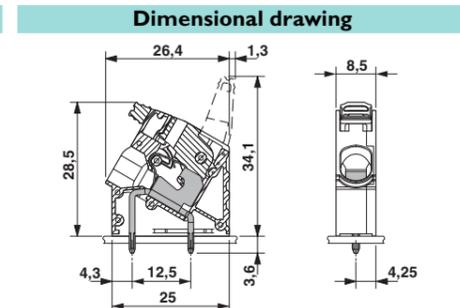
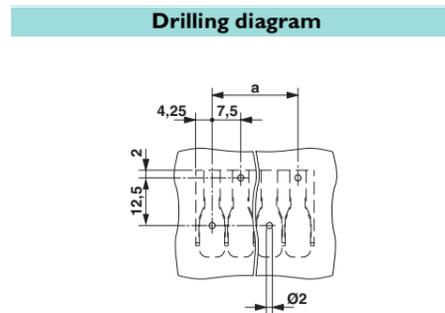
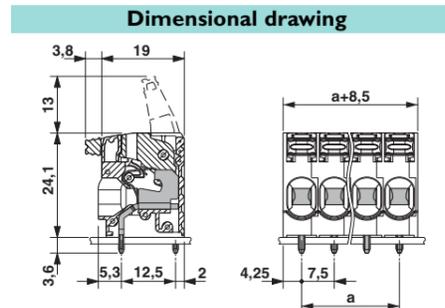
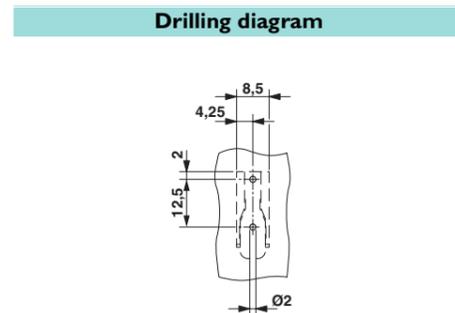
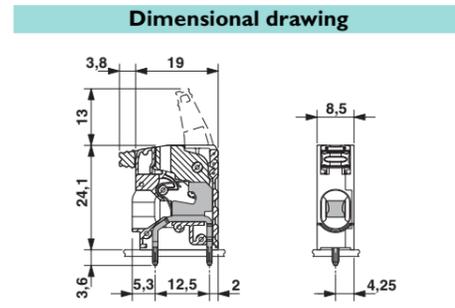
1) UL/CUL on request.

2) Please observe the current carrying capacity curves and laboratory data sheets. Current carrying capacity curves can be found at www.phoenixcontact.net/products.



- PLH 5 and PLA 5 PCB terminal block with push-lock spring connection with lever operation for conductor cross sections up to 6 mm² and a current carrying capacity of up to 41 A
- Fast connection method thanks to the toolless "One-hand tilting lever principle" or the direct plug-in method
- Low actuation forces
- Unlimited 600 V UL approval already available with 7.5 mm pitch with zigzag pinning
- Position to position color coding is possible thanks to terminal blocks, which can be lined up next to each other, and tilting lever colors
- Integrated touch connection
- Supplied open

Accessories		
For all types	Type	Page
	Marker cards SK U/3.8 WH: UN-PRINTED Order No. 0803906	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No. 1212034	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm²]	41²) / 6
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.5
Connection capacity	
Solid & multi-strand / stranded [mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 6 / 24 - 10
Stranded with ferrules without plastic sleeve [mm²]	0.2 - 6
Stranded with ferrules with plastic sleeve [mm²]	0.2 - 6
Multi-conductor connection capacity (two conductors with the same cross section) [mm²]	
Solid & multi-strand / stranded [mm²]	- / -
Stranded with ferrules without plastic sleeve [mm²]	-
Stranded with TWIN ferrule with plastic sleeve [mm²]	0.5 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	12
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	2 / 1,2 x 1,5 mm

No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLH 5/ 1-7,5	1792096	25

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLH 5/ 2-7,5-ZF	1792106	25
PLH 5/ 3-7,5-ZF	1792119	25
PLH 5/ 4-7,5-ZF	1792122	25
PLH 5/ 5-7,5-ZF	1792135	25
PLH 5/ 6-7,5-ZF	1792148	25
PLH 5/ 7-7,5-ZF	1792151	25
PLH 5/ 8-7,5-ZF	1792164	25
PLH 5/ 9-7,5-ZF	1792177	25
PLH 5/10-7,5-ZF	1792180	25
PLH 5/11-7,5-ZF	1792193	25
PLH 5/12-7,5-ZF	1792203	25

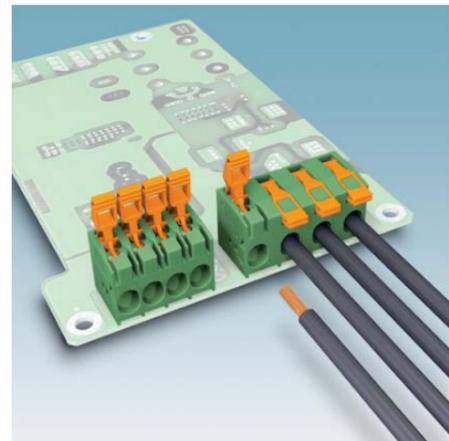
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLA 5/ 1-7,5	1792216	25

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLA 5/ 2-7,5-ZF	1792229	25
PLA 5/ 3-7,5-ZF	1792232	25
PLA 5/ 4-7,5-ZF	1792245	25
PLA 5/ 5-7,5-ZF	1792258	25
PLA 5/ 6-7,5-ZF	1792261	25
PLA 5/ 7-7,5-ZF	1792274	25
PLA 5/ 8-7,5-ZF	1792287	25
PLA 5/ 9-7,5-ZF	1792290	25
PLA 5/10-7,5-ZF	1792300	25
PLA 5/11-7,5-ZF	1792313	25
PLA 5/12-7,5-ZF	1792326	25

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²

Horizontal connection direction up to 10/15 mm pitch



- PLH 16 terminal block with push-lock spring connection with lever operation for conductor cross sections up to 16 mm² and a current carrying capacity of up to 76 A
- Low actuation forces
- Fast connection method thanks to the toolless "One-hand tilting lever principle" or the direct plug-in method
- Unrestricted 600 V-UL approval already available with a 10 mm pitch with zig-zag pinning
- Touch connection for integration in the center of the lever
- Color coding from position to position thanks to terminal blocks that can be mounted side by side
- Supplied open

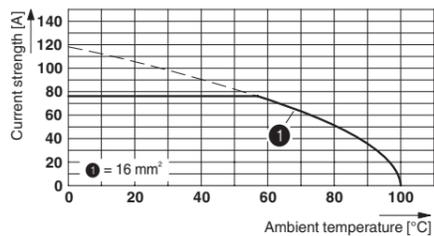
Notes:

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Marker cards SK U/3.8 WH: UN-PRINTED Order No. 0803906	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm² CRIMPFOX 16 S Order No. 1207983	

Current carrying capacity curve

Type: PLH 16/...-10
Tested in accordance with DIN EN 60512-5-2:2003-01
No. of positions: 5
Conductor cross section: 16 mm²



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	400
Pitch [mm]	10
Connection capacity	
Solid & multi-strand / stranded [mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 4
Stranded with ferrules without plastic sleeve [mm²]	0.75 - 16
Stranded with ferrules with plastic sleeve [mm²]	0.75 - 10
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded [mm²]	- / -
Stranded with ferrules without plastic sleeve [mm²]	-
Stranded with TWIN ferrule with plastic sleeve [mm²]	0.75 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	400 400 800
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 300 -
Nominal current [A]	51 51 -
Connection capacity AWG	18 - 6 18 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	18
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.6 / 1,2 x 1,2 mm

PLH 16/ ...-10	PLH 16/ ...-10-ZF	PLH 16/ ...-15
76 ¹⁾ / 16	76 ¹⁾ / 16	76 ¹⁾ / 16
400	1000	1000
10	10	15
0.75 - 16 / 0.75 - 16 / 18 - 4	0.75 - 16 / 0.75 - 16 / 18 - 4	0.75 - 16 / 0.75 - 16 / 18 - 4
0.75 - 16	0.75 - 16	0.75 - 16
0.75 - 10	0.75 - 10	0.75 - 10
- / -	- / -	- / -
-	-	-
0.75 - 4	0.75 - 4	0.75 - 4
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
400 400 800	1000 1000 1000	1000 1000 1000
4 4 4	8 8 8	8 8 8
B C D	B C D	B C D
300 300 -	600 600 -	600 600 -
51 51 -	51 51 -	66 66 -
18 - 6 18 - 6 -	18 - 6 18 - 6 -	18 - 4 18 - 4 -
B C D	B C D	B C D
- - -	- - -	- - -
- - -	- - -	- - -
- - -	- - -	- - -
18	18	18
PA / I	PA / I	PA / I
V0	V0	V0
1.6 / 1,2 x 1,2 mm	1.6 / 1,2 x 1,2 mm	1.6 / 1,2 x 1,2 mm

No. of pos.	Dim. a [mm]
1	
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00
7	90.00
8	105.00

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²



Double pinning, 10 mm pitch



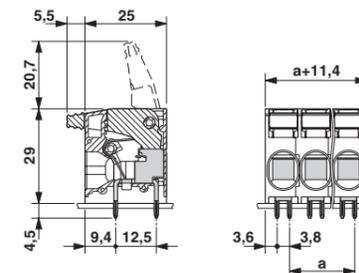
600 V UL approval, Z pinning, 10 mm pitch



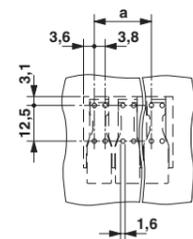
600 V UL approval, double pinning, 15 mm pitch



Dimensional drawing



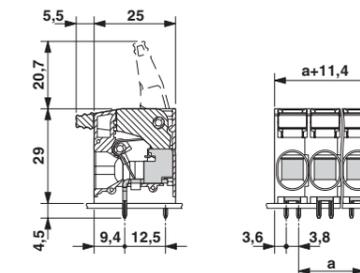
Drilling diagram



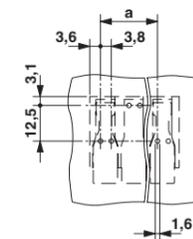
Ordering data		
Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
PLH 16/ 1-10	1703995	25
PLH 16/ 2-10	1770393	25
PLH 16/ 3-10	1770403	25
PLH 16/ 4-10	1770416	25
PLH 16/ 5-10	1770429	25
PLH 16/ 6-10	1770432	25
PLH 16/ 7-10	1770445	25
PLH 16/ 8-10	1770458	25



Dimensional drawing



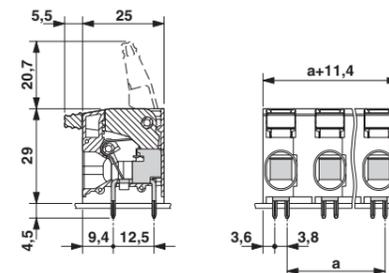
Drilling diagram



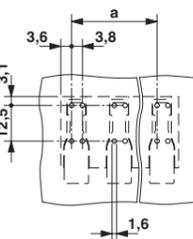
Ordering data		
Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
PLH 16/ 2-10-ZF	1770461	25
PLH 16/ 3-10-ZF	1770474	25
PLH 16/ 4-10-ZF	1770487	25
PLH 16/ 5-10-ZF	1770490	25
PLH 16/ 6-10-ZF	1770500	25
PLH 16/ 7-10-ZF	1770513	25
PLH 16/ 8-10-ZF	1770526	25



Dimensional drawing



Drilling diagram

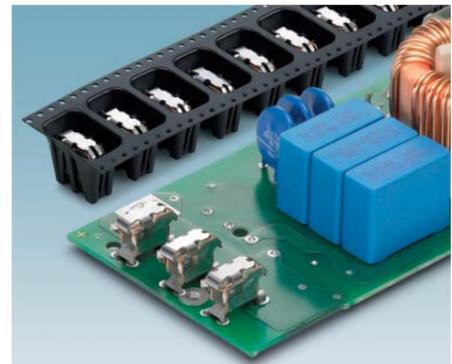


Ordering data		
Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
PLH 16/ 2-15	1770539	25
PLH 16/ 3-15	1770542	25
PLH 16/ 4-15	1770555	25
PLH 16/ 5-15	1770568	25
PLH 16/ 6-15	1770571	25
PLH 16/ 7-15	1770584	25
PLH 16/ 8-15	1770597	25

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²

Horizontal connection direction without insulating housing



- PTSPL 6 push-lock spring-cage PCB terminal block without insulating body for conductor cross sections up to 6 mm² and a current carrying capacity of up to 41 A
- For use in SMT reflow processes
- Low actuation forces
- Delivery form: tape-on-reel packing according to IEC 60286-3 for automated mounting; 330 mm reel diameter
- PTSPL spring closed for assembly with vacuum pipette
- PTSPLO spring opened for assembly with mechanical gripper
- Standard pin lengths of 2.1 mm and 2.9 mm

Notes:
 Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.
 1) UL/CUL on request.
 2) Please observe the current carrying capacity curves and laboratory data sheets. Current carrying capacity curves can be found at www.phoenixcontact.net/products.

Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	PTSPL-6/1-2X2 2,1	PTSPLO-6/1-2X2 2,1
Rated current / conductor cross section	41 ² / 6	41 ² / 6
Rated insulation voltage for pollution degree 2	-	-
Pitch	-	-
Connection capacity		
Solid & multi-strand / stranded	- / 2.5 - 6 / -	- / 2.5 - 6 / -
Stranded with ferrules without plastic sleeve	2.5 - 6	2.5 - 6
Stranded with ferrules with plastic sleeve	-	-
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid & multi-strand / stranded	- / -	- / -
Stranded with ferrules without plastic sleeve	-	-
Stranded with TWIN ferrule with plastic sleeve	-	-
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage		
Rated surge voltage		
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	-	-
Nominal current	-	-
Connection capacity AWG	-	-
Approval data (CSA)	B C D	B C D
Nominal voltage	-	-
Nominal current	-	-
Connection capacity AWG	-	-
General data		
Stripping length	15	15
Type of insulation material / insulation material group	- / -	- / -
Inflammability class according to UL 94	-	-
Drill hole diameter / pin dimensions	1.3 / 0,6 x 1	1.3 / 0,6 x 1

No. of pos.

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²



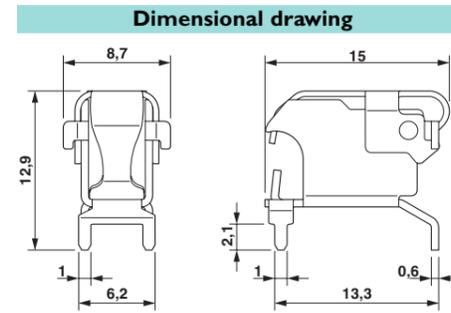
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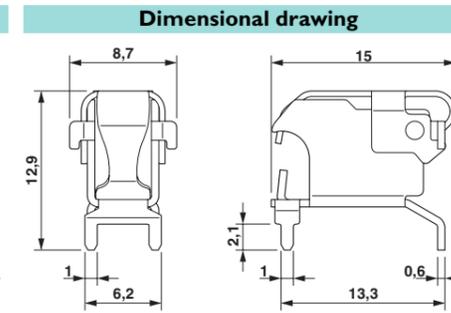
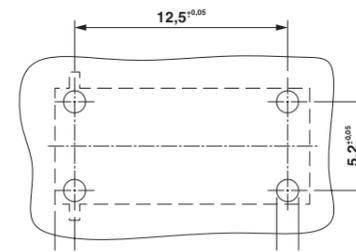
Closed on delivery, tape-on-reel packing

Open on delivery, individual PCB terminal block without insulating body, tape-on-reel packing



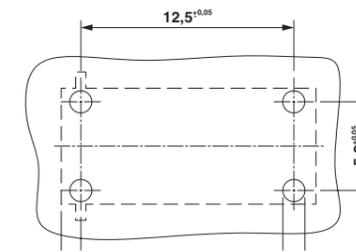
Dimensional drawing

Drilling diagram



Dimensional drawing

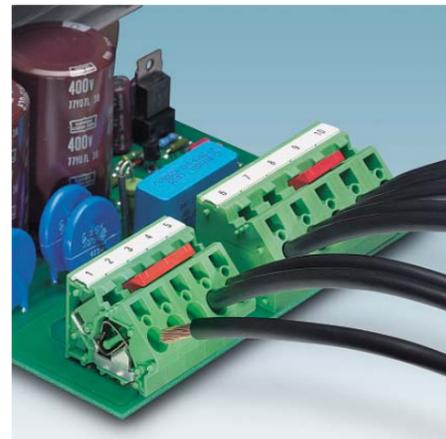
Drilling diagram



Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB terminal block closed, pin length 2.1 mm		
PTSPL-6/1-2X2 2,1 R32	1704836	240
PCB terminal block closed, pin length 2.9 mm		
PTSPL-6/1-2X2 2,9 R32	1704837	240

Ordering data		
Type	Order No.	Pcs. / Pkt.
PCB terminal block open, pin length 2.1 mm		
PTSPLO-6/1-2X2 2,1 R32	1705081	220
Open PCB terminal block, pin length 2.9 mm		
PTSPLO-6/1-2X2 2,9 R32	1705085	220

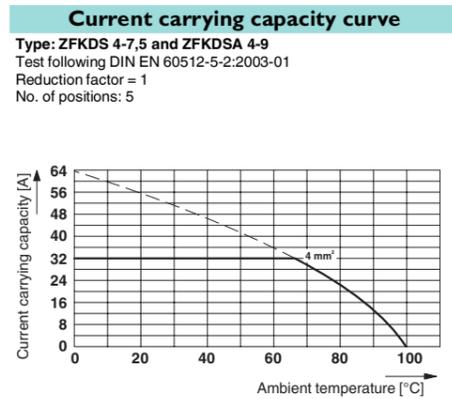
Angled connection direction, pitch 7.5 mm



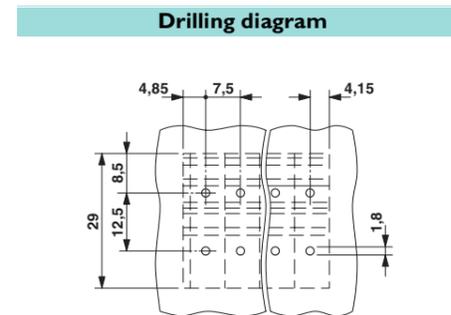
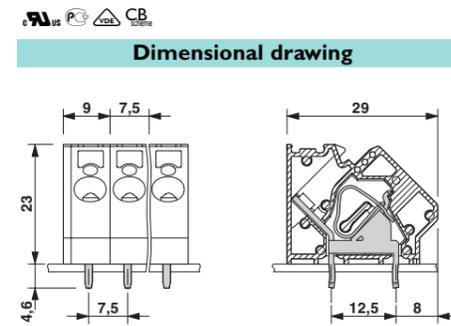
- PCB terminal blocks with spring-cage connection up to 6 mm² conductor cross section
- Fully insulated bridges (FBSK) with different number of positions, e. g. for potential distribution
- Integrated test connection
- Pitch spacers (RZ) for voltage expansion
- Optional mounting flange (FL) for safe mounting in the device
- Colored marking of individual positions is possible
- A ZFKDSA end terminal block must be used at the end of a row of terminal blocks

Notes:
 In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
 The current carrying capacity of the FBSK-ZFKDS 4 plug-in bridge is 20 A (see laboratory data sheet).
 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Type	Page
	Pitch spacer, width: 2.5 mm RZ-ZFKDS 4 Order No. 1928521	
	Pair of flanges FL-ZFKDS 4 Order No. 1928495	
	Marker cards SK 7,5/5 or SK10/5	800
	Flat Zack marker strip ZBF 7,5 or ZBF 10	807
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for ZFKDS 4...		
	Plug-in bridge FBSK...	830

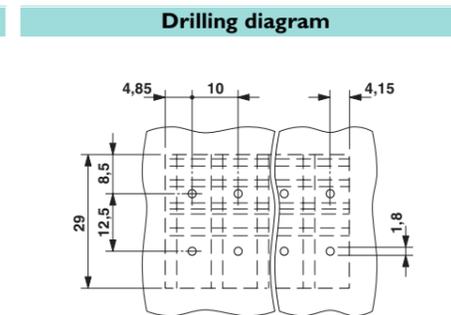
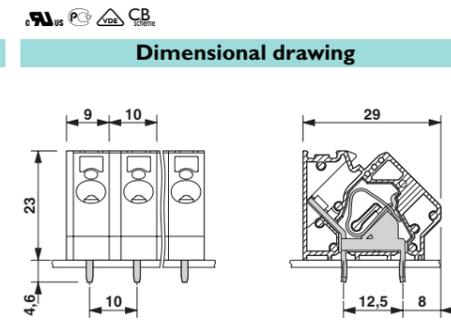


7.5 mm pitch, with test connection, bridgeable 10 mm pitch, with test connection, bridgeable



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green ZFKDS 4-7,5	1907526	50
End terminal block, 9 mm wide, required at the end of a terminal row ZFKDSA 4-9	1907542	50



Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green ZFKDS 4-10	1907539	50
End terminal block, 9 mm wide, required at the end of a terminal row ZFKDSA 4-9	1907542	50

Technical data

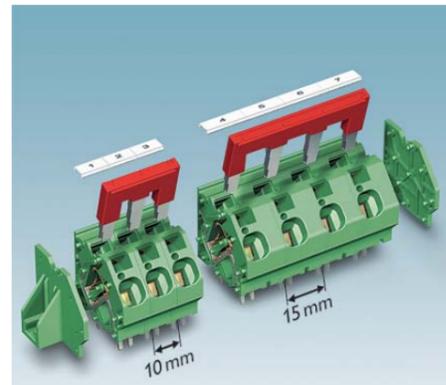
	ZFKDS 4-7,5	ZFKDS 4-10
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section [A] / [mm ²]	32 ¹⁾ / 6	32 ¹⁾ / 6
Rated insulation voltage for pollution degree 2 [V]	630	630
Pitch [mm]	7.5	10
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
Solid / stranded [mm ²]	0.25 - 4	0.25 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	-	-
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -	- / -
Solid / stranded [mm ²]	-	-
Stranded with ferrules without plastic sleeve [mm ²]	-	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-	-
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000	630 630 1000
Rated surge voltage [kV]	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	300 150 300	300 300 600
Nominal current [A]	30 30 10	30 30 5
Connection capacity AWG	24 - 10 24 - 10 24 - 10	24 - 10 24 - 10 24 - 10
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	- - -	- - -
Nominal current [A]	- - -	- - -
Connection capacity AWG	- - -	- - -
General data		
Stripping length [mm]	10	10
Type of insulation material / insulation material group	PA / I	PA / I
Inflammability class according to UL 94	V0	V0
Drill hole diameter / pin dimensions [mm]	1.8 / 1,0 x 1,4 mm	1.8 / 1,0 x 1,4 mm

No. of pos.
1
1
1

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with spring-cage connection, ZFKDS series up to 76 A/16 mm²

Angled connection direction, pitch 10 mm



Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

The current carrying capacity of the FBSK-ZFKDS 10 plug-in bridge is 57 A (see laboratory data sheet).

1) When the bridge is used, the voltage is reduced to 800 V.

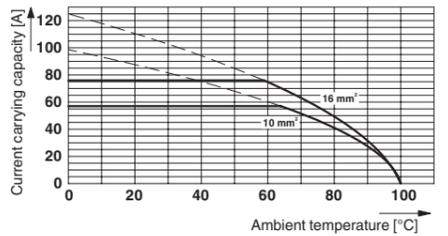
2) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

- PCB terminal blocks with spring-cage connection up to 0.02 in² conductor cross section
- 15 mm pitch for the unrestricted 600-V-UL approval
- Fully insulated bridges (FBSK) with different number of positions, e. g. for potential distribution
- Integrated test connection
- Optional mounting flange (FL) for safe mounting in the device
- Colored marking of individual positions is possible
- A ZFKDSA end terminal block must be used at the end of a row of terminal blocks

Accessories		
For all types	Type	Page
	Pair of flanges FL-ZFKDS 10 Order No. 1987070	
	Screwdriver SZF 3-1,0 x 5,5 Order No. 1206612	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	
Only for ZFKDS 10-...	Plug-in bridge FBSK.../ZFKDS 10	830

Current carrying capacity curve

Type: ZFKDS 10-10,00 and ZFKDSA 10-11,7
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

Technical data in accordance to IEC / DIN VDE		ZFKDS 10-10,00	ZFKDS 10-15,00
Rated current / conductor cross section	[A] / [mm ²]	76 ²⁾ / 16	76 ²⁾ / 16
Rated insulation voltage for pollution degree 2	[V]	400	1000 ¹⁾
Pitch	[mm]	10	15
Connection capacity			
Solid / stranded	[mm ²] / [mm ²] / AWG	0.2 - 16 / 0.2 - 16 / 24 - 6	0.2 - 16 / 0.2 - 16 / 24 - 6
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 10	0.25 - 10
Stranded with ferrules with plastic sleeve	[mm ²]	0.25 - 10	0.25 - 10
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	[mm ²]	- / -	- / -
Stranded with ferrules without plastic sleeve	[mm ²]	-	-
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	-	-
Insulation coordination			
Surge voltage category / pollution degree		III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	[V]	320 400 800	1000 ¹⁾ 1000 ¹⁾ 1000 ¹⁾
Rated surge voltage	[kV]	4 4 4	8 8 8
Approval data (UL/CUL)	Use Group	B C D	B C D
Nominal voltage	[V]	300 150 300	600 600 -
Nominal current	[A]	65 65 10	65 65 -
Connection capacity AWG	AWG	24 - 6 24 - 6 24 - 6	24 - 6 24 - 6 -
Approval data (CSA)	Use Group	B C D	B C D
Nominal voltage	[V]	- - -	- - -
Nominal current	[A]	- - -	- - -
Connection capacity AWG	AWG	- - -	- - -
General data			
Stripping length	[mm]	12	12
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	2.2 / 1,2 x 1,4	2.2 / 1,2 x 1,4

No. of pos.
1
1
1
1

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

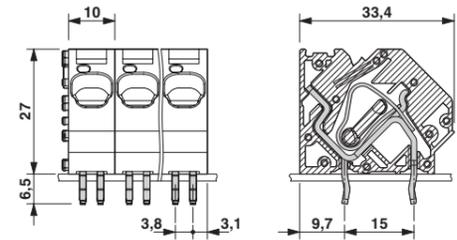
PCB terminal blocks with spring-cage connection, ZFKDS series up to 76 A/16 mm²



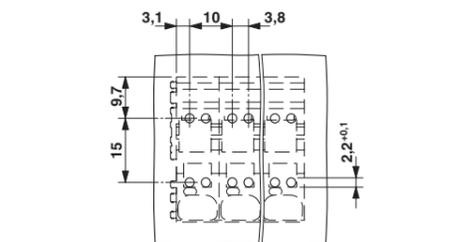
10 mm pitch, with test connection, bridgeable

15 mm pitch, with test connection, bridgeable, 600 V UL approval

Dimensional drawing



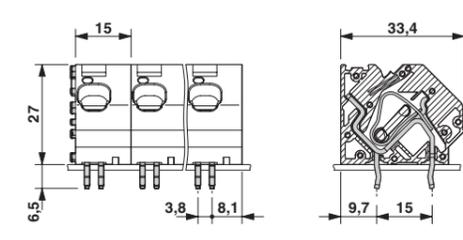
Drilling diagram



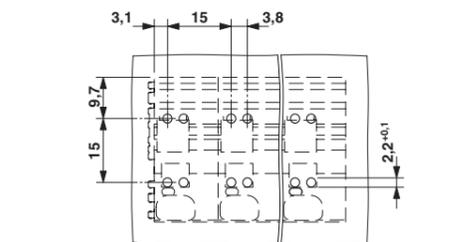
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green ZFKDS 10-10,00	1986628	50
End terminal block, 11.7 mm wide, required at the end of a terminal row ZFKDSA 10-11,7	1987054	50

Dimensional drawing



Drilling diagram



Ordering data

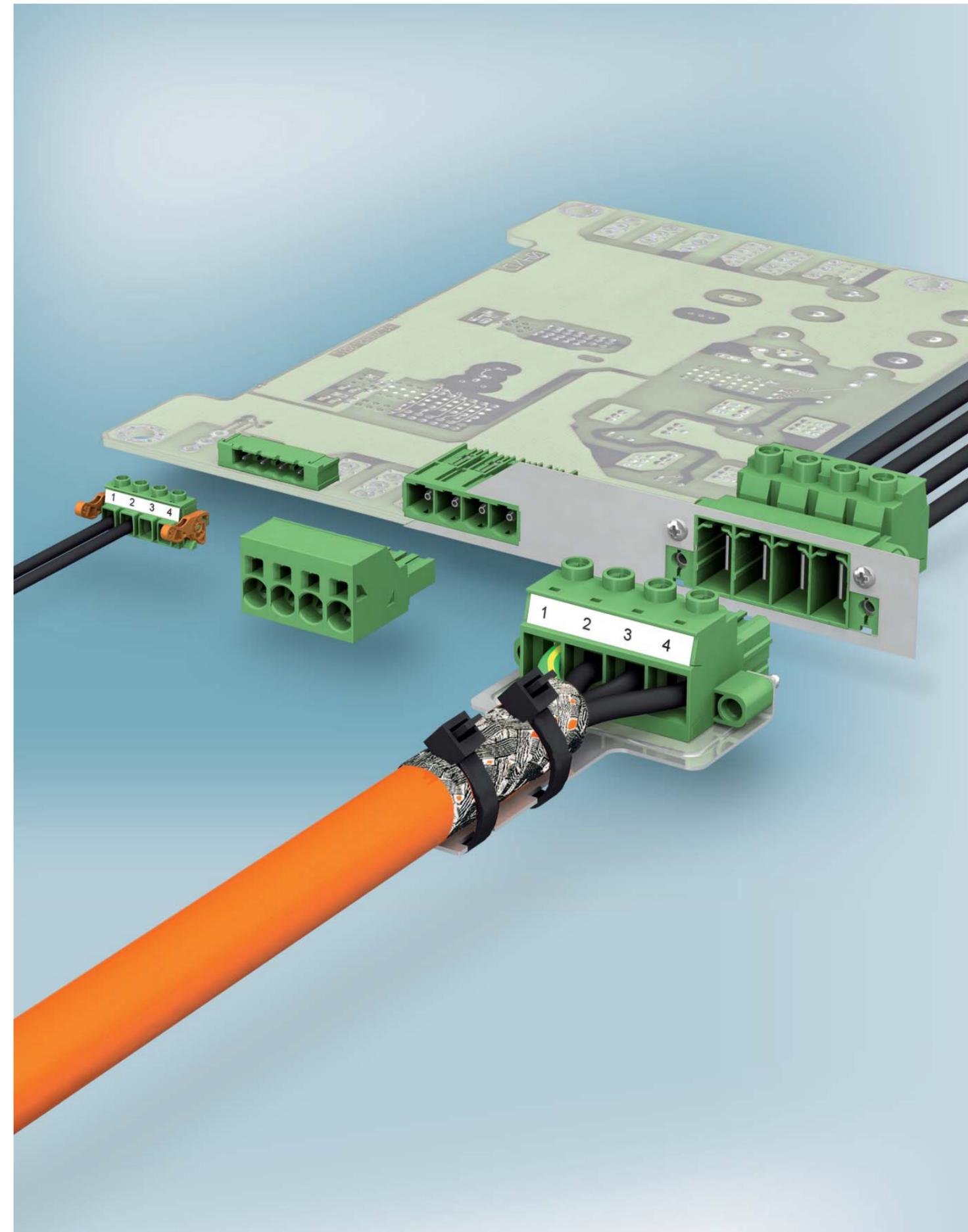
Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green ZFKDS 10-15,00	1986631	50
End terminal block, 16.7 mm wide, required at the end of a terminal row, ZFKDSA 10-16,7	1987067	50

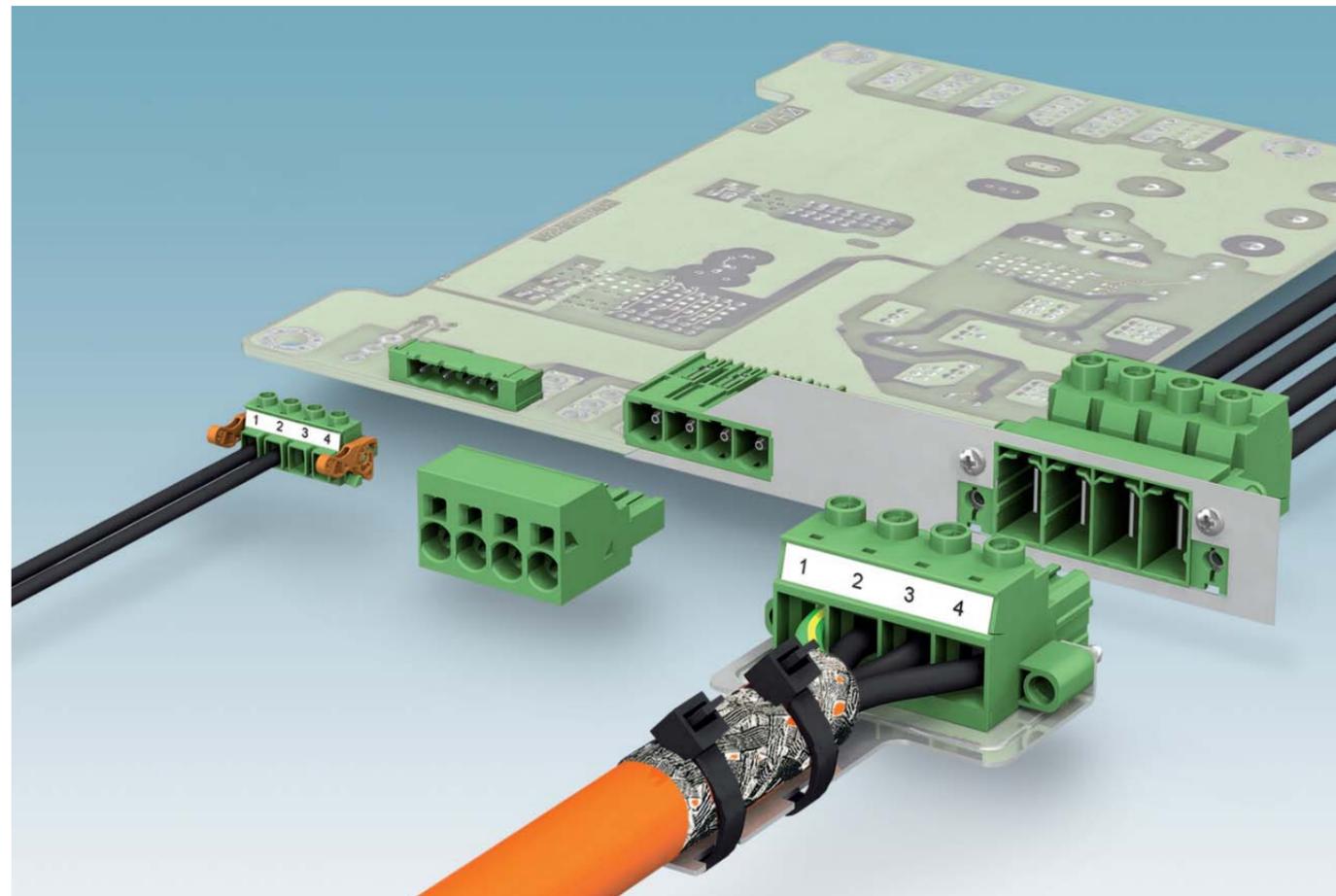
Plug-in connectors for power electronics

COMBICON power plug-in connectors provide professional connection solutions for power electronics. Plug-in PCB connections are available from 16 A with the HC series up to 125 A in the PC 35 series. The conductors are connected with the proven screw connection technology (tension sleeve principle) or alternatively using the user-friendly direct plug-in technology.

In the high-performance classes 41 A (PC 5 series) and 76 A (PC 16 series) in particular, every one of the many and varied combinations supported by touch-protected (inverted) versions and housing feed-throughs is plug-in-capable and easy to maintain. In compact pitches and with 600 V UL approvals, the high-power plug-in connectors provide a connection for all applications with large cross sections anywhere on the global market.

General	482
COMBICON power cross-reference list	484
HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm	490
Plugs with screw and spring connection	490
Headers with pin contact	490
Headers with socket contact	498
Vertical plugs for 600 V UL	498
Plugs with screw connection for 600 V UL	502
Headers with pin contact	504
Headers with socket contact	506
ME/ME MAX plug-in connectors/headers, pitch 7.25 mm	508
PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm	512
Plugs with screw and crimp connection	512
Headers with pin contact	512
Feed-through headers with pin contact	518
Headers with pin contact for DIN rail mounting	521
Cable housing for PC 4 plugs	521
PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm	521
Plugs with screw connection	521
Plugs with push-in spring connection	530
Headers with pin contact	536
Headers with socket contact	540
Feed-through headers with pin contact	544
PC 6 series plug-in connectors up to 41 A/6 mm², pitch 10.16 mm	550
Plugs with screw connection	550
Headers with pin contact	566
Plugs for direct mounting with socket contact	552
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm	554
Plugs with screw and push-in spring connection	554
Headers with pin contact	566
Headers with socket contact	570
Feed-through headers with pin/socket contact	574
PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm	586
Plugs with screw connection	586
Headers with pin contact	590
Headers with socket contact	592
Sheet metal cutout dimensions	594

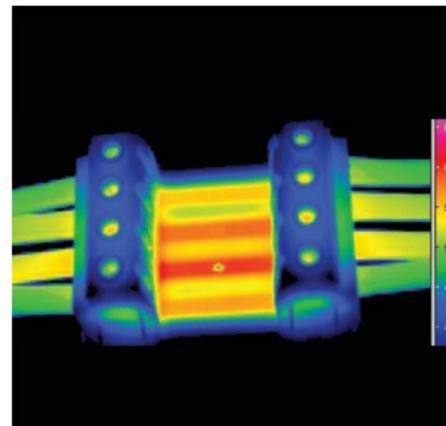
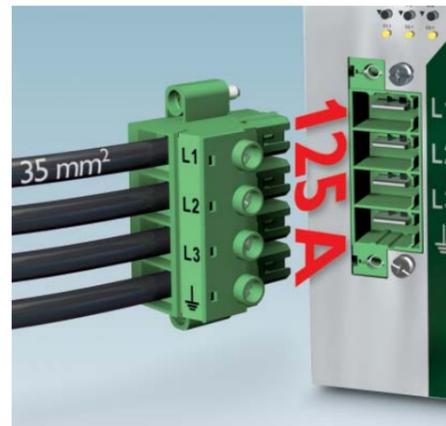




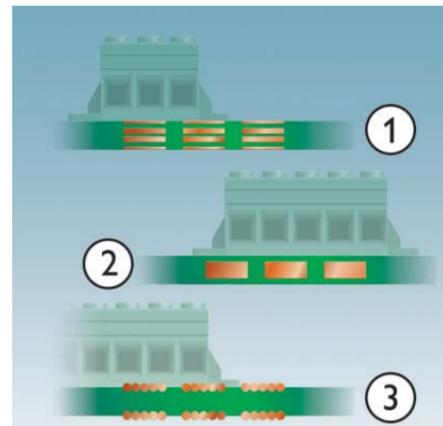
125 A via the PCB? It works!

Used in conjunction with high-current PCBs, the plug-in connectors for the power electronics support a current carrying capacity of up to 125 A.

Different PCB production technologies are providing new options for device design. The necessary functions and modules can now be grouped together on a single PCB. In this manner, expensive additional device wiring can be eliminated.

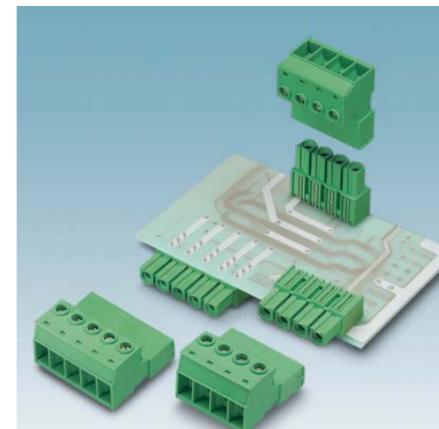


Thermographic image of a test application with 125 A



PCB production technologies

- ① = Multi-layer technology
- ② = Thick copper technology
- ③ = Wire-writing technology



Touch-protected PCB inputs and outputs

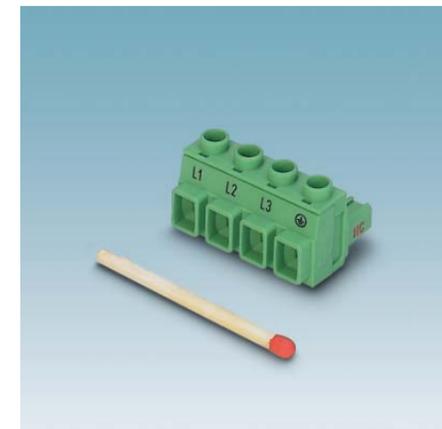
The inverted plugs and headers provide the option of touch-protected PCB and device outputs. Furthermore, they also enable PCB/PCB and cable/cable connections to be implemented.

This enables a new level of freedom in device design.



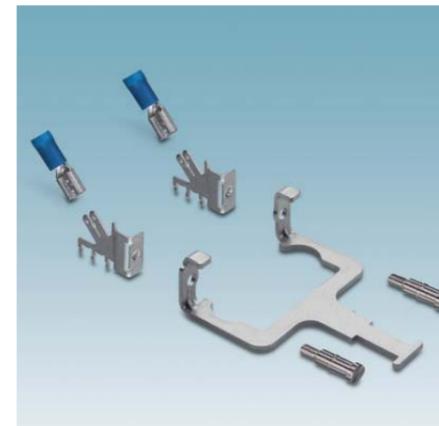
Extra safety for optimum performance

All plug-in connectors for the power electronics have an integrated double steel spring. This covering spring provides additional safety in the event of power and temperature fluctuations. Contact corrosion is prevented as the double steel spring exerts additional pressure on the contact. This ensures the long-term stability of the contact resistance.



UL approvals for 600 V high-current applications

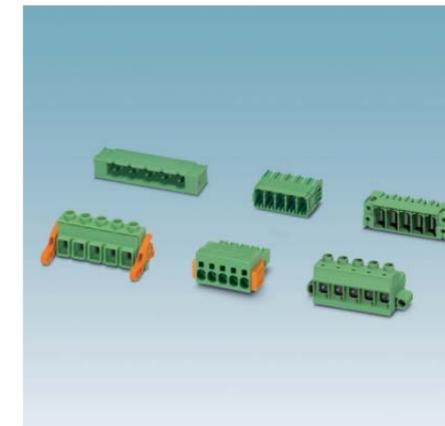
The plug-in connectors for the power electronics offer 600 V UL approval for every application, even those with the smallest of dimensions. Please note that a distinction must be made here between product and device approvals. The COMBICON power flyer lists the applicable approvals for products and applications in detail.



Plug versions with shield connection/strain relief

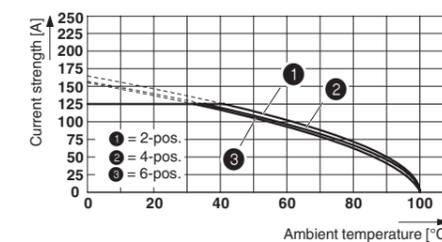
The shielded plug versions (-STF-SH) in the PC 5, PC 6, PC 16, and PC 35 product ranges provide a professional connection solution for the braided shield, which prevents electrical interference and meets EMC requirements.

- Spade connection for routing the shield
- PCB-SHIELD contacts the shield directly with the PCB
- Vibration-resistant connection, thanks to screws integrated in plug flange



Reliable connection when exposed to vibration:

- A fixed connection is essential for applications which experience high vibrations. A fixed connection can be implemented with:
- Conventional screw flange
 - Automatic interlocking click & lock system
 - New Lock & Release system, with ejector lever



Current carrying capacity of the plug-in connection

Derating data is provided in the catalog so that the permitted current carrying capacity of the plug-in connections can be determined. The maximum permissible current strength for a specific application can be read depending on the ambient temperature. The number of positions and the connection cross section of the conductor must also be taken into consideration. Please also refer to the laboratory data sheets of the corresponding products. For further information, see page 854.

COMBICON power cross-reference list

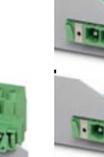
COMBICON power cross-reference list

COMBICON power plug-in connectors with pin contact		COMBICON power plug-in connectors with pin contact				
Type	Pitch	MSTBA 2,5 HC/...G MSTBVA 2,5 HC/...G Page 496 497	MSTB 2,5 HC/...GF MSTBV 2,5 HC/...GF Page 497 497	FKIC 2,5 HC/...-ST FKIC 2,5 HC/...-STF Page 495	GMSTBA 2,5 HC/...-G GMSTBVA 2,5 HC/...-G Page 504	GIC 2,5 HCV/...-ST-7,62 Page 503
COMBICON power plug-in connectors with socket contact		5.0	5.0	5.0	7.62	7.62
	MSTB 2,5 HC...ST Page 490	5.0	•	•		
	MSTB 2,5 HC...STF Page 491	5.08	•	•		
	MSTBT 2,5 HC...ST Page 491	5.0	•			
	MVSTBR 2,5 HC...ST Page 492	5.0	•	•		
	MVSTBR 2,5 HC...STF Page 493	5.08	•	•		
	MVSTBW 2,5 HC...ST Page 493	5.0	•	•		
	MVSTBW 2,5 HC...STF Page 493	5.08	•	•		
	FKC 2,5 HC/...-ST Page 494	5.0	•	•		
	FKC 2,5 HC/...-STF Page 495	5.08	•	•		
	IC 2,5 HC/...-G Page 498	5.08	•	•		
	ICV 2,5 HC/...-G Page 499	5.08	•	•		
	IC 2,5 HC/...-GF Page 499	5.08		•		
	ICV 2,5 HC/...-GF Page 499	5.08		•		
	GMSTB 2,5 HCV/...-ST Page 502	7.62			•	•
	GIC(V) 2,5 HC/...-G Page 506	7.62			•	•

COMBICON power plug-in connectors with pin contact		COMBICON power plug-in connectors with pin contact					
Type	Pitch	IPC 35 HC/...STF Page 588	IPC 35 HC/...STGF(-SH) Page 588	IPC 35 HC/...-STF(-SH) Page 589	PC 35 HC/...GF Page 590	PCV 35 HC/...GF Page 591	PC 35 HC/...GF-SH Page 591
COMBICON power plug-in connectors with socket contact		15.00	15.00	15.00	15.00	15.00	15.00
	PC 35 HC...STF Page 586	15.00	•		•	•	
	PC 35 HC...STF-SH Page 587	15.00	•				•
	IPC 35 HC...GF Page 592	15.00	•		•	•	
	IPCV 35 HC...GF Page 593	15.00	•		•	•	
	DFK-IPC 35 HC/...GF Page 593	15.00	•	•			
	DFK-IPCV 35 HC/...GF Page 593	15.00	•	•			

COMBICON power plug-in connectors with pin contact		COMBICON power plug-in connectors with pin contact	
Type	Pitch	GMSTB(V)A 2,5 HC/...G-7,62-LR Page 505	
COMBICON power plug-in connectors with socket contact		7.62	
	GMSTB 2,5 HCV/...ST-LR Page 503	7.62	•

COMBICON power plug-in connectors with pin contact																		
Type	Pitch	PC 4/...G PCV 4/...G Page 516	DFK-PC 4/...GF Page 518	DFK-PC/...G.-FS-4,8 Page 519	PCVK 4-7,62-(PE) UPCV3K 4-G-7,62 Page 521	IPC 5/...ST IPC 5/...STF-(SH) Page 526	IPC 5/...STGCL Page 527		IPC 5/...STGF IPC 5/...STGF-SH Page 527 528	ISPC 5/...STGCL Page 534	ISPC 5/...STGF Page 535	PC 5/...G(U) PCV 5/...G Page 536 538	PC 5/...GF(U) PCV 5/...GF Page 537 539	DFK(V)-PC 5/...G(U) Page 544 547	DFK-PC(V) 5/...GF(U)-SH Page 546	DFK-PC 5/...ST Page 548	DFK-PC 5/...STF-(SH) Page 549	
	Pitch	7.62	7.62	7.62	7.62	7.62	7.62		7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	
	7.62	•		•	•													
	7.62	•	•		•													
	7.62	•		•	•													
	7.62	•		•	•	•				•		•		•		•		
	7.62	•	•		•				•		•		•		•		•	
	7.62	•							•			•		•		•		
	7.62						•			•		•		•		•		
	7.62					•				•		•		•		•		
	7.62								•		•	•	•		•		•	
	7.62						•			•		•		•		•		
	7.62					•				•		•		•		•		
	7.62								•		•		•		•		•	
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	7.62					•				•		•						

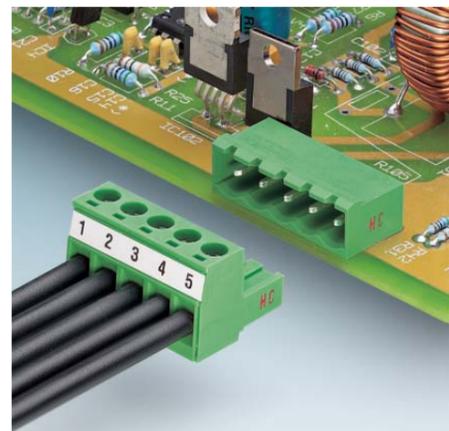
COMBICON power plug-in connectors with pin contact														
Type	Pitch	IPC 16/...ST Page 558	IPC 16/...STF-(SH) Page 559	IPC 16/...STGF-(SH) Page 560	ISPC 16/...ST Page 564	ISPC 16/...STF Page 565	ISPC 16/...STGF Page 565		PC(V) 6-16/...-G1 PC 6-16/...G1U Page 566 568	PC(V) 6-16/...-G1F PC 6-16/...G1FU Page 567 569	DFK-PC(V) 6-16/...G(U) Page 574 577	DFK-PC(V) 6-16/...GF(U)-(SH) Page 575 577	DFK-PC 16/...ST Page 582	DFK-PC 16-STF-(SH) Page 583
COMBICON power plug-in connectors with socket contact		10.16	10.16	10.16	10.16	10.16	10.16		10.16	10.16	10.16	10.16	10.16	10.16
 	PC 6...ST Page 550								•					
	PC 6...STF-(SH) Page 551									•		•		
	PCU 6...STD Page 552								•					
 	PC 16/...ST Page 554								•					
	PC 16/...STF-(SH) Page 555			•					•	•		•		•
 	TPC 16/...ST Page 556								•					
	TPC 16/...STF Page 557			•					•	•		•		•
 	SPC 16/...ST Page 562								•					
	SPC 16/...STF-(SH) Page 563			•					•	•		•		•
 	IPC 16/...G(U) Page 570		•						•					
	IPC 16/...GF(U) Page 571		•						•					
 	IPCV 16/...G Page 572		•						•					
	IPCV 16/...GF Page 573		•						•					
 	DFK-IPC(V) 16/...G(U) Page 578													
	DFK-IPC(V) 16/...GF(U)-(SH) Page 581			•										
 	DFK-IPC 16/...ST Page 584													
	DFK-IPC 16/...STF-(SH) Page 585			•										

¹⁾ Only with POWER COMBICON PCB-SHIELD

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Plugs with screw and spring connection



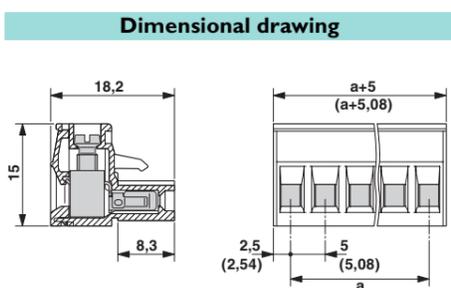
- The "High Current" (HC) versions with screw connection transmit a current of 16 A
- MSTB 2,5 HC connectors should be used only with HC headers
- The double steel spring ensures additional safety, especially in case of temperature and capacity fluctuations
- Keying profile CP-MSTB as protection against mismatching
- Available as a T-version (MSTBT 2,5 HC)

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.
 The designation "HC" is printed in red to provide clear identification of "High current" connectors.
 Corresponding HC headers can be found starting from page 496.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 5/3,8 or SK 5,08/3,8	798

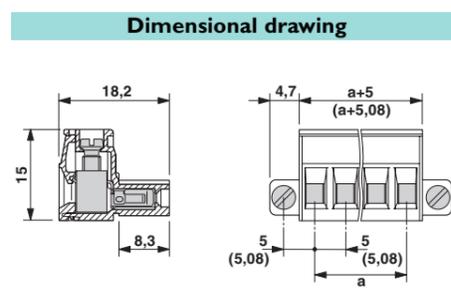
Dimensional drawing



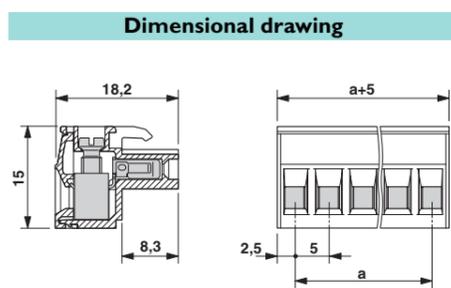
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

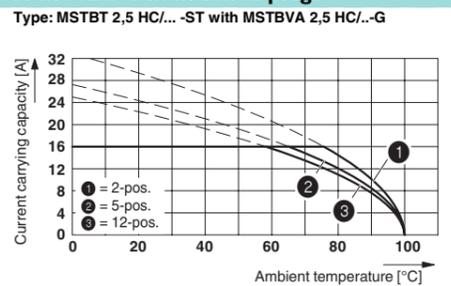
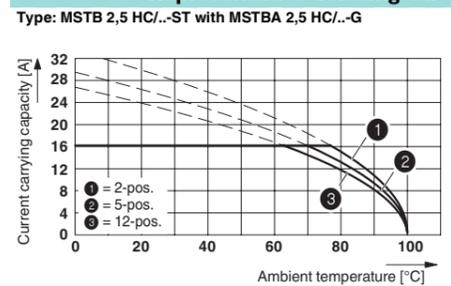
Dimensional drawing



Dimensional drawing



Representative derating curves of the above-mentioned plugs



Technical data

Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section	[A] / [mm ²]	16 ¹⁾ / 2.5	
Rated insulation voltage for pollution degree 2	[V]	320	
Pitch	[mm]	5 / 5.08	
Connection capacity	[mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12	
Solid / stranded	[mm ²] / [mm ²] / AWG	0.25 - 2.5	
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 2.5	
Stranded with ferrules with plastic sleeve	[mm ²]	0.25 - 2.5	
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	[mm ²]	0.2 - 1 / 0.2 - 1.5	
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 1	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	0.5 - 1.5	
Insulation coordination			
Surge voltage category / pollution degree		III / 3	III / 2 II / 2
Rated insulation voltage	[V]	250	320 630
Rated surge voltage	[kV]	4	4 4
Approval data (UL/CUL)	Use Group	B	C D
Nominal voltage	[V]	300	- 300
Nominal current	[A]	16	- 15
Connection capacity AWG	AWG	30 - 12	- 30 - 12
Approval data (CSA)	Use Group	B	C D
Nominal voltage	[V]	-	- -
Nominal current	[A]	-	- -
Connection capacity AWG	AWG	-	- -
General data			
Stripping length	[mm]	7	
Screw thread		M3	
Tightening torque	[Nm]	0.5 - 0.6	
Type of insulation material / insulation material group		PA / I	
Inflammability class according to UL 94		V0	

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
2	5.00	MSTB 2,5 HC/ 2-ST	1911855	50
3	10.00	MSTB 2,5 HC/ 3-ST	1911868	50
4	15.00	MSTB 2,5 HC/ 4-ST	1911871	50
5	20.00	MSTB 2,5 HC/ 5-ST	1911884	50
6	25.00	MSTB 2,5 HC/ 6-ST	1911897	50
7	30.00	MSTB 2,5 HC/ 7-ST	1911907	50
8	35.00	MSTB 2,5 HC/ 8-ST	1911910	50
9	40.00	MSTB 2,5 HC/ 9-ST	1911923	50
10	45.00	MSTB 2,5 HC/10-ST	1911936	50
11	50.00	MSTB 2,5 HC/11-ST	1911949	50
12	55.00	MSTB 2,5 HC/12-ST	1911952	50
5.08 mm pitch, color: Green				
2	5.08	MSTB 2,5 HC/ 2-ST-5,08	1911965	50
3	10.16	MSTB 2,5 HC/ 3-ST-5,08	1911978	50
4	15.24	MSTB 2,5 HC/ 4-ST-5,08	1911981	50
5	20.32	MSTB 2,5 HC/ 5-ST-5,08	1911994	50
6	25.40	MSTB 2,5 HC/ 6-ST-5,08	1912003	50
7	30.48	MSTB 2,5 HC/ 7-ST-5,08	1912016	50
8	35.56	MSTB 2,5 HC/ 8-ST-5,08	1912029	50
9	40.64	MSTB 2,5 HC/ 9-ST-5,08	1912032	50
10	45.72	MSTB 2,5 HC/10-ST-5,08	1912045	50
11	50.80	MSTB 2,5 HC/11-ST-5,08	1912058	50
12	55.88	MSTB 2,5 HC/12-ST-5,08	1912061	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5 HC/ 2-STF	1912074	50
MSTB 2,5 HC/ 3-STF	1912087	50
MSTB 2,5 HC/ 4-STF	1912090	50
MSTB 2,5 HC/ 5-STF	1912100	50
MSTB 2,5 HC/ 6-STF	1912113	50
MSTB 2,5 HC/ 7-STF	1912126	50
MSTB 2,5 HC/ 8-STF	1912139	50
MSTB 2,5 HC/ 9-STF	1912142	50
MSTB 2,5 HC/10-STF	1912155	50
MSTB 2,5 HC/11-STF	1912168	50
MSTB 2,5 HC/12-STF	1912171	50
5.08 mm pitch, color: Green		
MSTB 2,5 HC/ 2-STF-5,08	1912184	50
MSTB 2,5 HC/ 3-STF-5,08	1912197	50
MSTB 2,5 HC/ 4-STF-5,08	1912207	50
MSTB 2,5 HC/ 5-STF-5,08	1912210	50
MSTB 2,5 HC/ 6-STF-5,08	1912223	50
MSTB 2,5 HC/ 7-STF-5,08	1912236	50
MSTB 2,5 HC/ 8-STF-5,08	1912249	50
MSTB 2,5 HC/ 9-STF-5,08	1912252	50
MSTB 2,5 HC/10-STF-5,08	1912265	50
MSTB 2,5 HC/11-STF-5,08	1912278	50
MSTB 2,5 HC/12-STF-5,08	1912281	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBT 2,5 HC/ 2-ST	1926358	50
MSTBT 2,5 HC/ 3-ST	1926248	50
MSTBT 2,5 HC/ 4-ST	1926251	50
MSTBT 2,5 HC/ 5-ST	1926264	50
MSTBT 2,5 HC/ 6-ST	1926277	50
MSTBT 2,5 HC/ 7-ST	1926280	50
MSTBT 2,5 HC/ 8-ST	1926293	50
MSTBT 2,5 HC/ 9-ST	1926303	50
MSTBT 2,5 HC/10-ST	1926316	50
MSTBT 2,5 HC/11-ST	1926329	50
MSTBT 2,5 HC/12-ST	1926332	50

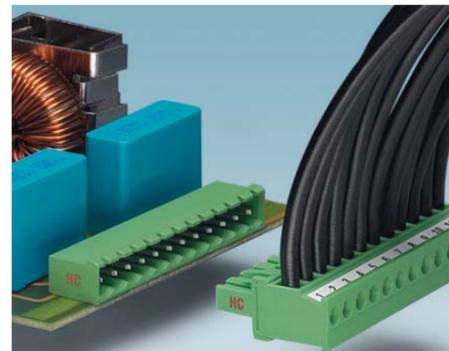
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBT 2,5 HC/ 2-ST	1926358	50
MSTBT 2,5 HC/ 3-ST	1926248	50
MSTBT 2,5 HC/ 4-ST	1926251	50
MSTBT 2,5 HC/ 5-ST	1926264	50
MSTBT 2,5 HC/ 6-ST	1926277	50
MSTBT 2,5 HC/ 7-ST	1926280	50
MSTBT 2,5 HC/ 8-ST	1926293	50
MSTBT 2,5 HC/ 9-ST	1926303	50
MSTBT 2,5 HC/10-ST	1926316	50
MSTBT 2,5 HC/11-ST	1926329	50
MSTBT 2,5 HC/12-ST	1926332	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Plugs with screw and spring connection



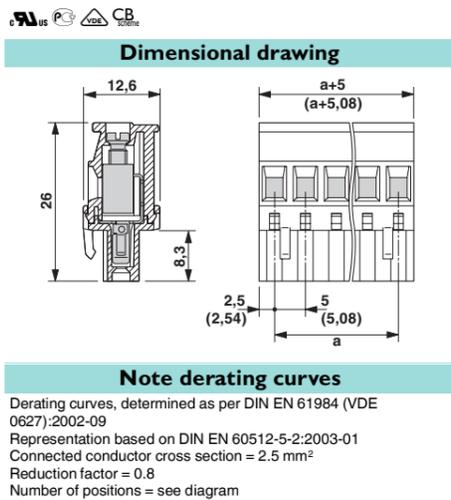
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.
 The designation "HC" is printed in red to provide clear identification of "High current" connectors.
 Corresponding HC headers can be found starting from page 496.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

- 16 A plugs with vertical connection direction and screw connection
- MVSTBR 2,5 HC...ST, conductor entry on the keying side of the plug, therefore conductor exit to the top
- MVSTBW 2,5 HC...ST, conductor entry on the rippled side of the plug, therefore conductor exit to the bottom
- HC connectors should be used only with HC headers
- Versions with a screw flange (-STF) for a vibration-resistant connection

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 5/3,8 or SK 5,08/3,8	798

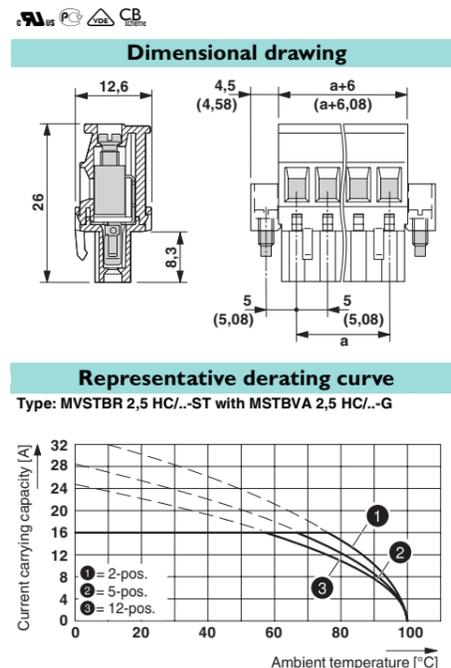
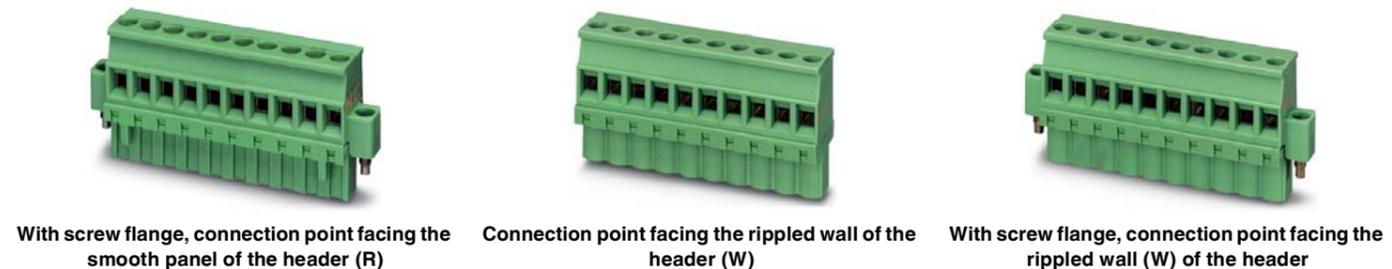
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	16 ¹⁾ / 2,5
Rated insulation voltage for pollution degree 2 [V]	320
Pitch [mm]	5 / 5,08
Connection capacity [mm ²] / [mm ²] / AWG	0,2 - 2,5 / 0,2 - 2,5 / 24 - 12
Solid / stranded [mm ²] / [mm ²] / AWG	0,2 - 1 / 0,2 - 1,5
Stranded with ferrules without plastic sleeve [mm ²]	0,25 - 2,5
Stranded with ferrules with plastic sleeve [mm ²]	0,25 - 2,5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0,2 - 1 / 0,2 - 1,5
Solid / stranded [mm ²]	0,25 - 1
Stranded with ferrules without plastic sleeve [mm ²]	0,5 - 1,5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	250 320 630
Rated surge voltage [kV]	4 4 4
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 - - 300
Nominal current [A]	16 - - 15
Connection capacity AWG	30 - 12 - - 30 - 12
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0,5 - 0,6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MVSTBR 2,5 HC/ 2-ST	1912294	50	
MVSTBR 2,5 HC/ 3-ST	1912304	50	
MVSTBR 2,5 HC/ 4-ST	1912317	50	
MVSTBR 2,5 HC/ 5-ST	1912320	50	
MVSTBR 2,5 HC/ 6-ST	1912333	50	
MVSTBR 2,5 HC/ 7-ST	1912346	50	
MVSTBR 2,5 HC/ 8-ST	1912359	50	
MVSTBR 2,5 HC/ 9-ST	1912362	50	
MVSTBR 2,5 HC/10-ST	1912375	50	
MVSTBR 2,5 HC/11-ST	1912388	50	
MVSTBR 2,5 HC/12-ST	1912391	50	
5.08 mm pitch, color: Green			
MVSTBR 2,5 HC/ 2-ST-5,08	1912401	50	
MVSTBR 2,5 HC/ 3-ST-5,08	1912414	50	
MVSTBR 2,5 HC/ 4-ST-5,08	1912427	50	
MVSTBR 2,5 HC/ 5-ST-5,08	1912430	50	
MVSTBR 2,5 HC/ 6-ST-5,08	1912443	50	
MVSTBR 2,5 HC/ 7-ST-5,08	1912456	50	
MVSTBR 2,5 HC/ 8-ST-5,08	1912469	50	
MVSTBR 2,5 HC/ 9-ST-5,08	1912472	50	
MVSTBR 2,5 HC/10-ST-5,08	1912485	50	
MVSTBR 2,5 HC/11-ST-5,08	1912498	50	
MVSTBR 2,5 HC/12-ST-5,08	1912508	50	

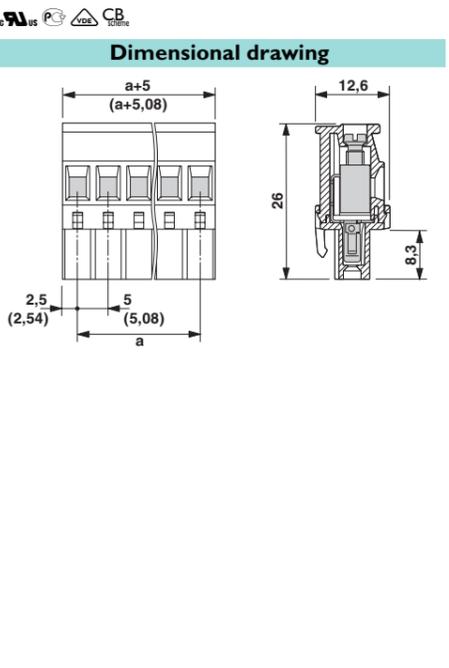


Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

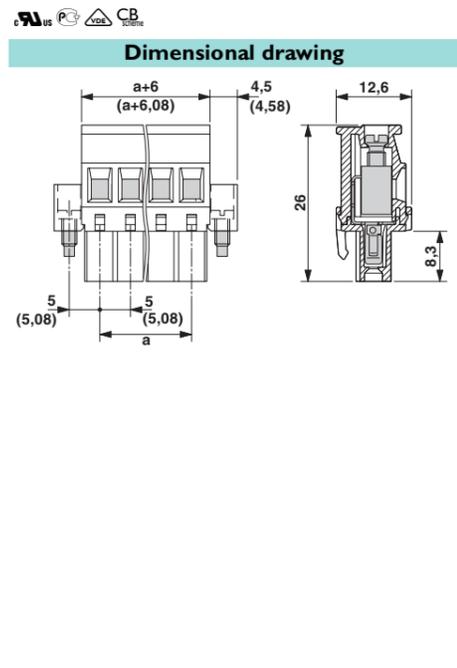
HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBR 2,5 HC/ 2-STF	1912511	50
MVSTBR 2,5 HC/ 3-STF	1912524	50
MVSTBR 2,5 HC/ 4-STF	1912537	50
MVSTBR 2,5 HC/ 5-STF	1912540	50
MVSTBR 2,5 HC/ 6-STF	1912553	50
MVSTBR 2,5 HC/ 7-STF	1912566	50
MVSTBR 2,5 HC/ 8-STF	1912579	50
MVSTBR 2,5 HC/ 9-STF	1912582	50
MVSTBR 2,5 HC/10-STF	1912595	50
MVSTBR 2,5 HC/11-STF	1912605	50
MVSTBR 2,5 HC/12-STF	1912618	50
5.08 mm pitch, color: Green		
MVSTBR 2,5 HC/ 2-STF-5,08	1912621	50
MVSTBR 2,5 HC/ 3-STF-5,08	1912634	50
MVSTBR 2,5 HC/ 4-STF-5,08	1912647	50
MVSTBR 2,5 HC/ 5-STF-5,08	1912650	50
MVSTBR 2,5 HC/ 6-STF-5,08	1912663	50
MVSTBR 2,5 HC/ 7-STF-5,08	1912676	50
MVSTBR 2,5 HC/ 8-STF-5,08	1912689	50
MVSTBR 2,5 HC/ 9-STF-5,08	1912692	50
MVSTBR 2,5 HC/10-STF-5,08	1912702	50
MVSTBR 2,5 HC/11-STF-5,08	1912715	50
MVSTBR 2,5 HC/12-STF-5,08	1912728	50



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBW 2,5 HC/ 2-ST	1912731	50
MVSTBW 2,5 HC/ 3-ST	1912744	50
MVSTBW 2,5 HC/ 4-ST	1912757	50
MVSTBW 2,5 HC/ 5-ST	1912760	50
MVSTBW 2,5 HC/ 6-ST	1912773	50
MVSTBW 2,5 HC/ 7-ST	1912786	50
MVSTBW 2,5 HC/ 8-ST	1912799	50
MVSTBW 2,5 HC/ 9-ST	1912809	50
MVSTBW 2,5 HC/10-ST	1912812	50
MVSTBW 2,5 HC/11-ST	1912825	50
MVSTBW 2,5 HC/12-ST	1912838	50
5.08 mm pitch, color: Green		
MVSTBW 2,5 HC/ 2-ST-5,08	1912841	50
MVSTBW 2,5 HC/ 3-ST-5,08	1912854	50
MVSTBW 2,5 HC/ 4-ST-5,08	1912867	50
MVSTBW 2,5 HC/ 5-ST-5,08	1912870	50
MVSTBW 2,5 HC/ 6-ST-5,08	1912883	50
MVSTBW 2,5 HC/ 7-ST-5,08	1912896	50
MVSTBW 2,5 HC/ 8-ST-5,08	1912906	50
MVSTBW 2,5 HC/ 9-ST-5,08	1912919	50
MVSTBW 2,5 HC/10-ST-5,08	1912922	50
MVSTBW 2,5 HC/11-ST-5,08	1912935	50
MVSTBW 2,5 HC/12-ST-5,08	1912948	50

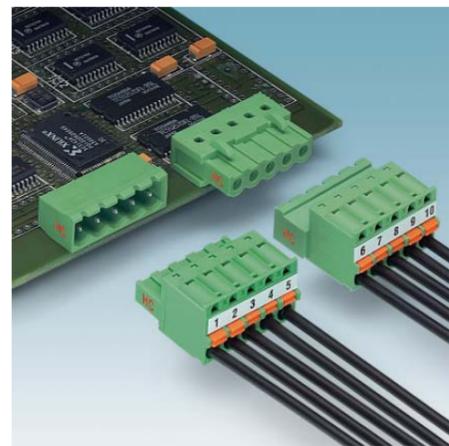


Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBW 2,5 HC/ 2-STF	1912951	50
MVSTBW 2,5 HC/ 3-STF	1912964	50
MVSTBW 2,5 HC/ 4-STF	1912977	50
MVSTBW 2,5 HC/ 5-STF	1912980	50
MVSTBW 2,5 HC/ 6-STF	1912993	50
MVSTBW 2,5 HC/ 7-STF	1913002	50
MVSTBW 2,5 HC/ 8-STF	1913015	50
MVSTBW 2,5 HC/ 9-STF	1913028	50
MVSTBW 2,5 HC/10-STF	1913031	50
MVSTBW 2,5 HC/11-STF	1913044	50
MVSTBW 2,5 HC/12-STF	1913057	50
5.08 mm pitch, color: Green		
MVSTBW 2,5 HC/ 2-STF-5,08	1913060	50
MVSTBW 2,5 HC/ 3-STF-5,08	1913073	50
MVSTBW 2,5 HC/ 4-STF-5,08	1913086	50
MVSTBW 2,5 HC/ 5-STF-5,08	1913099	50
MVSTBW 2,5 HC/ 6-STF-5,08	1913109	50
MVSTBW 2,5 HC/ 7-STF-5,08	1913112	50
MVSTBW 2,5 HC/ 8-STF-5,08	1913125	50
MVSTBW 2,5 HC/ 9-STF-5,08	1913138	50
MVSTBW 2,5 HC/10-STF-5,08	1913141	50
MVSTBW 2,5 HC/11-STF-5,08	1913154	50
MVSTBW 2,5 HC/12-STF-5,08	1913167	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

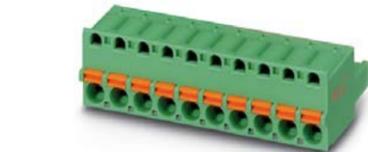
Plugs with screw and spring connection



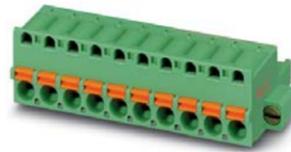
- Plug-in connectors with push-in spring connection as "High Current" (HC) version for 16 A
- Inverted versions with a male contact (FKIC 2,5 HC); e.g. for cable-cable connections or motor outputs
- HC connectors should be used only with HC headers
- Two integrated test connections
- Keying profiles (CP) as protection against mismatching
- Versions with screw flange (STF)

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.
 The designation "HC" is printed in red to provide clear identification of "High current" connectors.
 Corresponding HC headers can be found starting from page 496.
 Corresponding inverted HC headers can be found starting from page 498.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

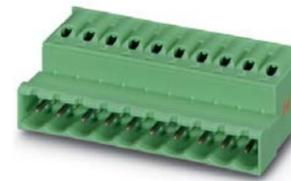
Accessories		
For all types	Type	Page
	Strain relief STZ ...-FKC-5,08	837
	Test plug MPS	831
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for FKC 2,5 HC/...-ST(F)		
	Keying profile CP-MSTB Order No. 1734634	38
Only for FKIC 2,5 HC/...-ST(F)		
	Keying section CR-MSTB Order No. 1734401	38



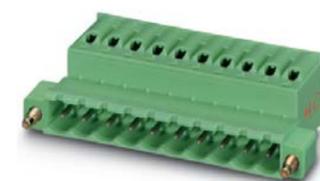
Without screw flange, with female contact



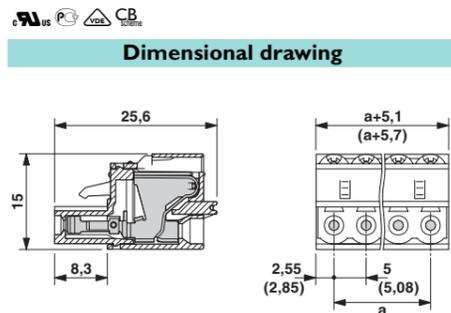
With screw flange and female contact



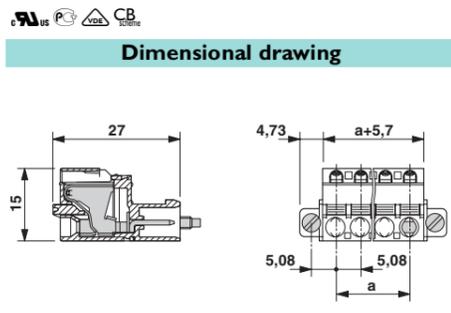
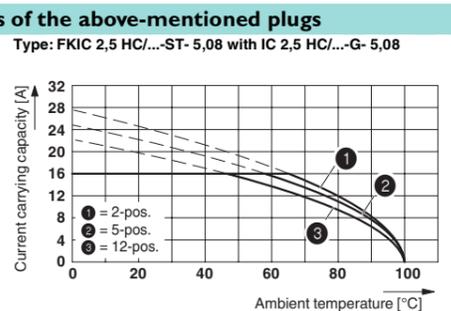
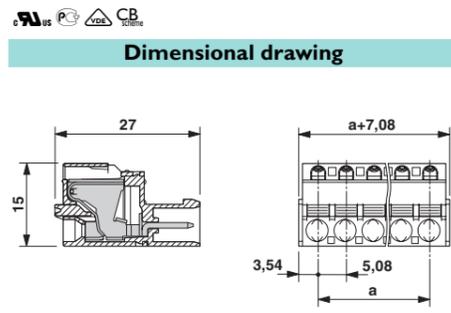
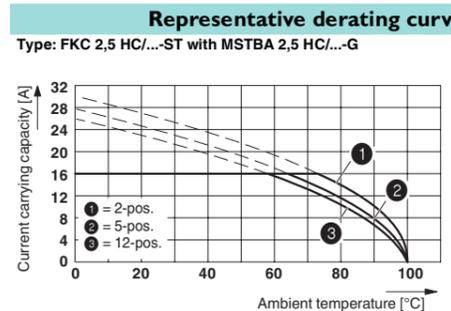
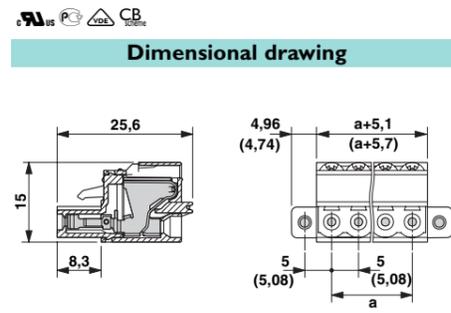
Inverted with male contact



Inverted with male contact, with screw flange



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	[mm ²]
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Ordering data			
Type	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKC 2,5 HC/ 2-ST	1942154	50	
FKC 2,5 HC/ 3-ST	1942167	50	
FKC 2,5 HC/ 4-ST	1942170	50	
FKC 2,5 HC/ 5-ST	1942183	50	
FKC 2,5 HC/ 6-ST	1942196	50	
FKC 2,5 HC/ 7-ST	1942206	50	
FKC 2,5 HC/ 8-ST	1942219	50	
FKC 2,5 HC/ 9-ST	1942222	50	
FKC 2,5 HC/10-ST	1942235	50	
FKC 2,5 HC/11-ST	1942248	50	
FKC 2,5 HC/12-ST	1942251	50	
5.08 mm pitch, color: Green			
FKC 2,5 HC/ 2-ST-5,08	1942374	50	
FKC 2,5 HC/ 3-ST-5,08	1942387	50	
FKC 2,5 HC/ 4-ST-5,08	1942390	50	
FKC 2,5 HC/ 5-ST-5,08	1942400	50	
FKC 2,5 HC/ 6-ST-5,08	1942413	50	
FKC 2,5 HC/ 7-ST-5,08	1942426	50	
FKC 2,5 HC/ 8-ST-5,08	1942439	50	
FKC 2,5 HC/ 9-ST-5,08	1942442	50	
FKC 2,5 HC/10-ST-5,08	1942455	50	
FKC 2,5 HC/11-ST-5,08	1942468	50	
FKC 2,5 HC/12-ST-5,08	1942471	50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5 HC/ 2-STF	1942264	50
FKC 2,5 HC/ 3-STF	1942277	50
FKC 2,5 HC/ 4-STF	1942280	50
FKC 2,5 HC/ 5-STF	1942293	50
FKC 2,5 HC/ 6-STF	1942303	50
FKC 2,5 HC/ 7-STF	1942316	50
FKC 2,5 HC/ 8-STF	1942329	50
FKC 2,5 HC/ 9-STF	1942332	50
FKC 2,5 HC/10-STF	1942345	50
FKC 2,5 HC/11-STF	1942358	50
FKC 2,5 HC/12-STF	1942361	50
5.08 mm pitch, color: Green		
FKC 2,5 HC/ 2-STF-5,08	1942484	50
FKC 2,5 HC/ 3-STF-5,08	1942497	50
FKC 2,5 HC/ 4-STF-5,08	1942507	50
FKC 2,5 HC/ 5-STF-5,08	1942510	50
FKC 2,5 HC/ 6-STF-5,08	1942523	50
FKC 2,5 HC/ 7-STF-5,08	1942536	50
FKC 2,5 HC/ 8-STF-5,08	1942549	50
FKC 2,5 HC/ 9-STF-5,08	1942552	50
FKC 2,5 HC/10-STF-5,08	1942565	50
FKC 2,5 HC/11-STF-5,08	1942578	50
FKC 2,5 HC/12-STF-5,08	1942581	50

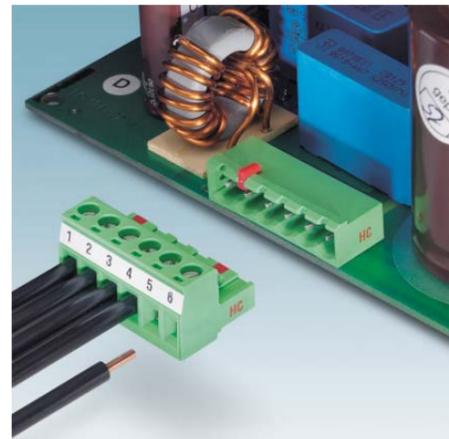
Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKIC 2,5 HC/ 2-ST-5,08	1942594	50
FKIC 2,5 HC/ 3-ST-5,08	1942604	50
FKIC 2,5 HC/ 4-ST-5,08	1942617	50
FKIC 2,5 HC/ 5-ST-5,08	1942620	50
FKIC 2,5 HC/ 6-ST-5,08	1942633	50
FKIC 2,5 HC/ 7-ST-5,08	1942646	50
FKIC 2,5 HC/ 8-ST-5,08	1942659	50
FKIC 2,5 HC/ 9-ST-5,08	1942662	50
FKIC 2,5 HC/10-ST-5,08	1942675	50
FKIC 2,5 HC/11-ST-5,08	1942688	50
FKIC 2,5 HC/12-ST-5,08	1942691	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKIC 2,5 HC/ 2-STF-5,08	1942701	50
FKIC 2,5 HC/ 3-STF-5,08	1942714	50
FKIC 2,5 HC/ 4-STF-5,08	1942727	50
FKIC 2,5 HC/ 5-STF-5,08	1942730	50
FKIC 2,5 HC/ 6-STF-5,08	1942743	50
FKIC 2,5 HC/ 7-STF-5,08	1942756	50
FKIC 2,5 HC/ 8-STF-5,08	1942769	50
FKIC 2,5 HC/ 9-STF-5,08	1942782	50
FKIC 2,5 HC/10-STF-5,08	1942795	50
FKIC 2,5 HC/11-STF-5,08	1942808	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Headers with pin contact



- 16-A (HC) header in horizontal and vertical (MSTBV) design
- Lateral HC print ("High Current")
- HC header should be used only with HC connectors
- Vibration-resistant connection with a threaded flange (-GF)
- Coding sections (CR) as protection against mismatching
- No possibility of lateral mismatching due to side panels

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding HC plug components can be found starting from page 490.

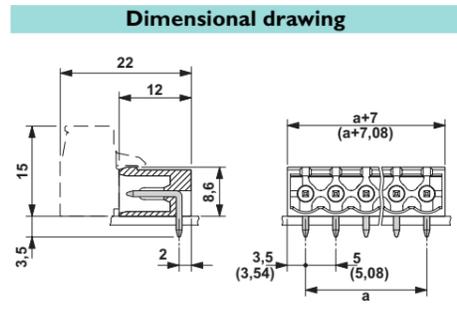
Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

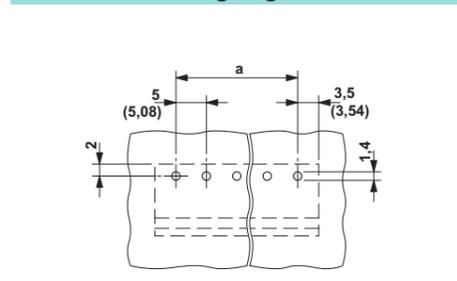
Accessories

For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Keying tab MSTB-BL Order No. 1755477	837
	Marker cards SK 5/3,8 or SK 5,08/3,8	798

Dimensional drawing



Drilling diagram

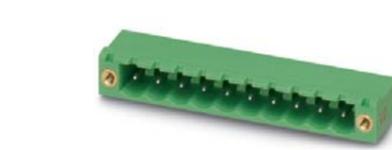


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBA 2,5 HC/ 2-G	1923759	50
MSTBA 2,5 HC/ 3-G	1923762	50
MSTBA 2,5 HC/ 4-G	1923775	50
MSTBA 2,5 HC/ 5-G	1923788	50
MSTBA 2,5 HC/ 6-G	1923791	50
MSTBA 2,5 HC/ 7-G	1923801	50
MSTBA 2,5 HC/ 8-G	1923814	50
MSTBA 2,5 HC/ 9-G	1923827	50
MSTBA 2,5 HC/10-G	1923830	50
MSTBA 2,5 HC/11-G	1923843	50
MSTBA 2,5 HC/12-G	1923856	50
5.08 mm pitch, color: Green		
MSTBA 2,5 HC/ 2-G-5,08	1923869	50
MSTBA 2,5 HC/ 3-G-5,08	1923872	50
MSTBA 2,5 HC/ 4-G-5,08	1923885	50
MSTBA 2,5 HC/ 5-G-5,08	1923898	50
MSTBA 2,5 HC/ 6-G-5,08	1923908	50
MSTBA 2,5 HC/ 7-G-5,08	1923911	50
MSTBA 2,5 HC/ 8-G-5,08	1923924	50
MSTBA 2,5 HC/ 9-G-5,08	1923937	50
MSTBA 2,5 HC/10-G-5,08	1923940	50
MSTBA 2,5 HC/11-G-5,08	1923953	50
MSTBA 2,5 HC/12-G-5,08	1923966	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm



Horizontal, with threaded flange

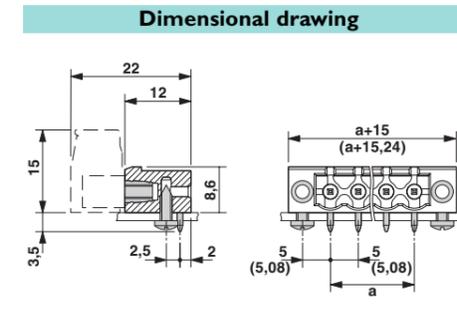


Vertical

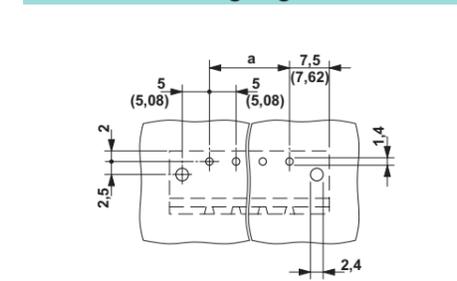


Vertical, with threaded flange

Dimensional drawing



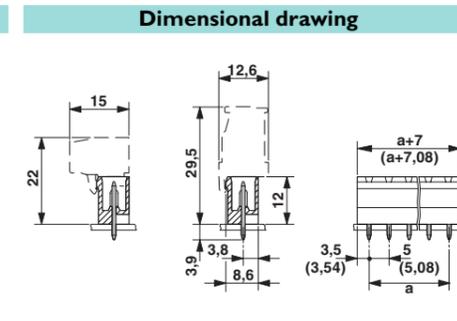
Drilling diagram



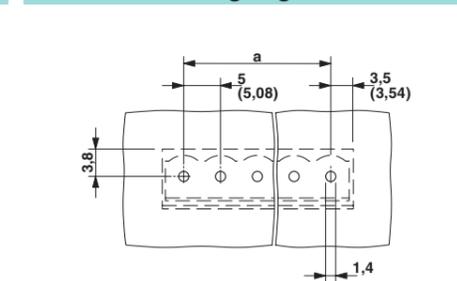
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5 HC/ 2-GF	1923979	50
MSTB 2,5 HC/ 3-GF	1923982	50
MSTB 2,5 HC/ 4-GF	1923995	50
MSTB 2,5 HC/ 5-GF	1924004	50
MSTB 2,5 HC/ 6-GF	1924017	50
MSTB 2,5 HC/ 7-GF	1924020	50
MSTB 2,5 HC/ 8-GF	1924033	50
MSTB 2,5 HC/ 9-GF	1924046	50
MSTB 2,5 HC/10-GF	1924059	50
MSTB 2,5 HC/11-GF	1924062	50
MSTB 2,5 HC/12-GF	1924075	50
5.08 mm pitch, color: Green		
MSTB 2,5 HC/ 2-GF-5,08	1924088	50
MSTB 2,5 HC/ 3-GF-5,08	1924091	50
MSTB 2,5 HC/ 4-GF-5,08	1924101	50
MSTB 2,5 HC/ 5-GF-5,08	1924114	50
MSTB 2,5 HC/ 6-GF-5,08	1924127	50
MSTB 2,5 HC/ 7-GF-5,08	1924130	50
MSTB 2,5 HC/ 8-GF-5,08	1924143	50
MSTB 2,5 HC/ 9-GF-5,08	1924156	50
MSTB 2,5 HC/10-GF-5,08	1924169	50
MSTB 2,5 HC/11-GF-5,08	1924172	50
MSTB 2,5 HC/12-GF-5,08	1924185	50

Dimensional drawing



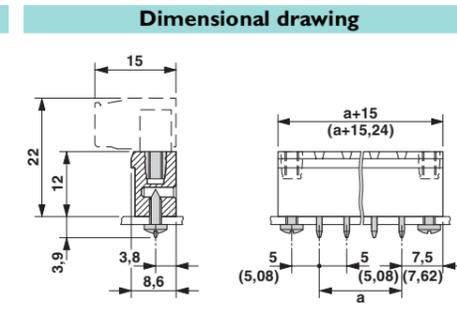
Drilling diagram



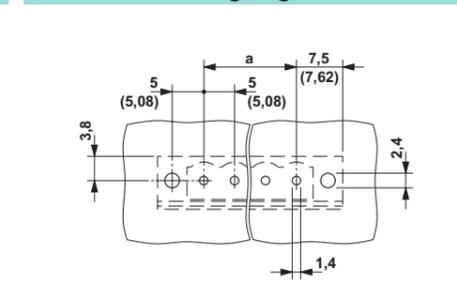
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBVA 2,5 HC/ 2-G	1924198	50
MSTBVA 2,5 HC/ 3-G	1924208	50
MSTBVA 2,5 HC/ 4-G	1924211	50
MSTBVA 2,5 HC/ 5-G	1924224	50
MSTBVA 2,5 HC/ 6-G	1924237	50
MSTBVA 2,5 HC/ 7-G	1924240	50
MSTBVA 2,5 HC/ 8-G	1924253	50
MSTBVA 2,5 HC/ 9-G	1924266	50
MSTBVA 2,5 HC/10-G	1924279	50
MSTBVA 2,5 HC/11-G	1924282	50
MSTBVA 2,5 HC/12-G	1924295	50
5.08 mm pitch, color: Green		
MSTBVA 2,5 HC/ 2-G-5,08	1924305	50
MSTBVA 2,5 HC/ 3-G-5,08	1924318	50
MSTBVA 2,5 HC/ 4-G-5,08	1924321	50
MSTBVA 2,5 HC/ 5-G-5,08	1924334	50
MSTBVA 2,5 HC/ 6-G-5,08	1924347	50
MSTBVA 2,5 HC/ 7-G-5,08	1924350	50
MSTBVA 2,5 HC/ 8-G-5,08	1924363	50
MSTBVA 2,5 HC/ 9-G-5,08	1924376	50
MSTBVA 2,5 HC/10-G-5,08	1924389	50
MSTBVA 2,5 HC/11-G-5,08	1924392	50
MSTBVA 2,5 HC/12-G-5,08	1924402	50

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBV 2,5 HC/ 2-GF	1924415	50
MSTBV 2,5 HC/ 3-GF	1924428	50
MSTBV 2,5 HC/ 4-GF	1924431	50
MSTBV 2,5 HC/ 5-GF	1924444	50
MSTBV 2,5 HC/ 6-GF	1924457	50
MSTBV 2,5 HC/ 7-GF	1924460	50
MSTBV 2,5 HC/ 8-GF	1924473	50
MSTBV 2,5 HC/ 9-GF	1924486	50
MSTBV 2,5 HC/10-GF	1924499	50
MSTBV 2,5 HC/11-GF	1924509	50
MSTBV 2,5 HC/12-GF	1924512	50
5.08 mm pitch, color: Green		
MSTBV 2,5 HC/ 2-GF-5,08	1924525	50
MSTBV 2,5 HC/ 3-GF-5,08	1924538	50
MSTBV 2,5 HC/ 4-GF-5,08	1924541	50
MSTBV 2,5 HC/ 5-GF-5,08	1924554	50
MSTBV 2,5 HC/ 6-GF-5,08	1924567	50
MSTBV 2,5 HC/ 7-GF-5,08	1924570	50
MSTBV 2,5 HC/ 8-GF-5,08	1924583	50
MSTBV 2,5 HC/ 9-GF-5,08	1924596	50
MSTBV 2,5 HC/10-GF-5,08	1924606	50
MSTBV 2,5 HC/11-GF-5,08	1924619	50
MSTBV 2,5 HC/12-GF-5,08	1924622	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Headers with socket contact



Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding inverted HC plug components can be found starting from page 495.

Mounting screws for base element with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

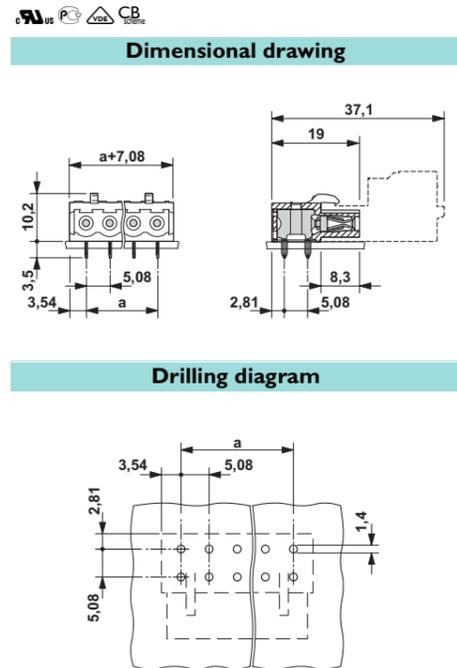
- Inverted 16-A (HC) header with a female contact for shock-proof applications or PCB-PCB connections
- Horizontal and vertical (ICV) designs
- Double steel spring as extra safety against contact corrosion
- Vibration-resistant connection with a threaded flange (-GF)
- HC header should be used only with HC connectors

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Test plug MPS	831
	Reducing plug RPS Order No. 0201647	831

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 16 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 320
Pitch	[mm] 5.08
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 320 320 630
Rated surge voltage	[kV] 4 4 4
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 16 - 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 1.2 x 0.5 mm

Ordering data	
Type	Order No.
5.08 mm pitch, color: Green	
IC 2,5 HC/ 2-G-5,08	1943302
IC 2,5 HC/ 3-G-5,08	1943315
IC 2,5 HC/ 4-G-5,08	1943328
IC 2,5 HC/ 5-G-5,08	1943331
IC 2,5 HC/ 6-G-5,08	1943344
IC 2,5 HC/ 7-G-5,08	1943360
IC 2,5 HC/ 8-G-5,08	1943373
IC 2,5 HC/ 9-G-5,08	1943386
IC 2,5 HC/10-G-5,08	1943399
IC 2,5 HC/11-G-5,08	1943409
IC 2,5 HC/12-G-5,08	1943412

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
2	5.08	IC 2,5 HC/ 2-G-5,08	1943302	50
3	10.16	IC 2,5 HC/ 3-G-5,08	1943315	50
4	15.24	IC 2,5 HC/ 4-G-5,08	1943328	50
5	20.32	IC 2,5 HC/ 5-G-5,08	1943331	50
6	25.40	IC 2,5 HC/ 6-G-5,08	1943344	50
7	30.48	IC 2,5 HC/ 7-G-5,08	1943360	50
8	35.56	IC 2,5 HC/ 8-G-5,08	1943373	50
9	40.64	IC 2,5 HC/ 9-G-5,08	1943386	50
10	45.72	IC 2,5 HC/10-G-5,08	1943399	50
11	50.80	IC 2,5 HC/11-G-5,08	1943409	50
12	55.88	IC 2,5 HC/12-G-5,08	1943412	50



Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm



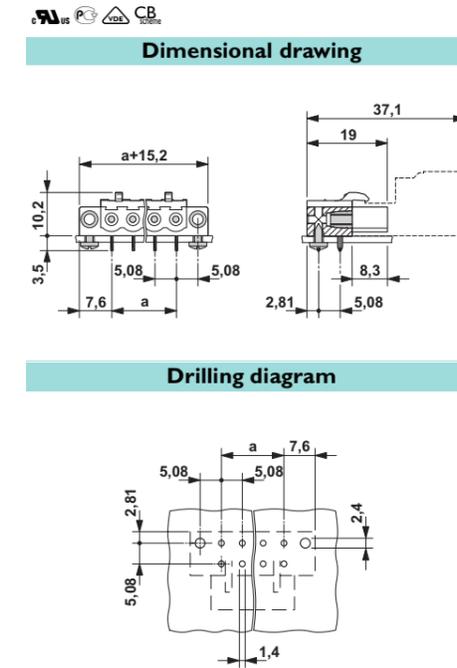
Horizontal, with threaded flange



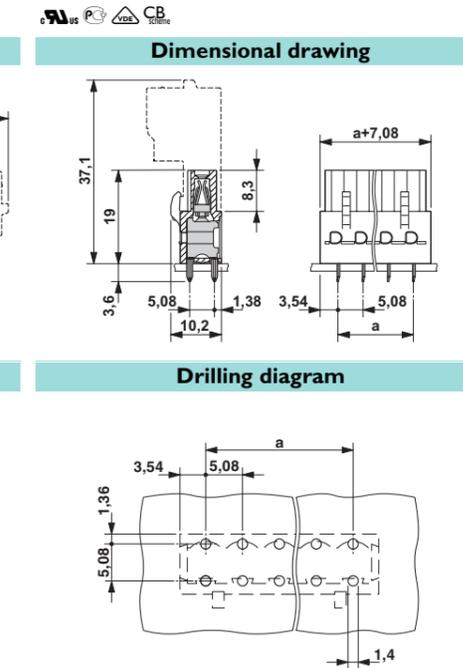
Vertical



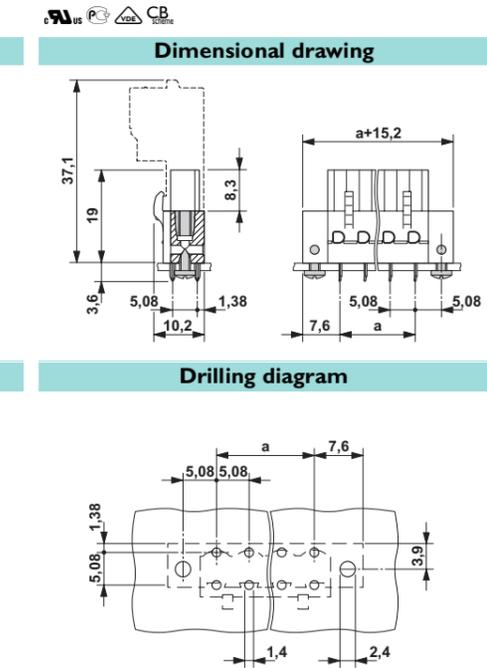
Vertical, with threaded flange



Ordering data	
Type	Order No.
5.08 mm pitch, color: Green	
IC 2,5 HC/ 2-GF-5,08	1943425
IC 2,5 HC/ 3-GF-5,08	1943438
IC 2,5 HC/ 4-GF-5,08	1943441
IC 2,5 HC/ 5-GF-5,08	1943454
IC 2,5 HC/ 6-GF-5,08	1943467
IC 2,5 HC/ 7-GF-5,08	1943470
IC 2,5 HC/ 8-GF-5,08	1943483
IC 2,5 HC/ 9-GF-5,08	1943496
IC 2,5 HC/10-GF-5,08	1943506
IC 2,5 HC/11-GF-5,08	1943519
IC 2,5 HC/12-GF-5,08	1943522

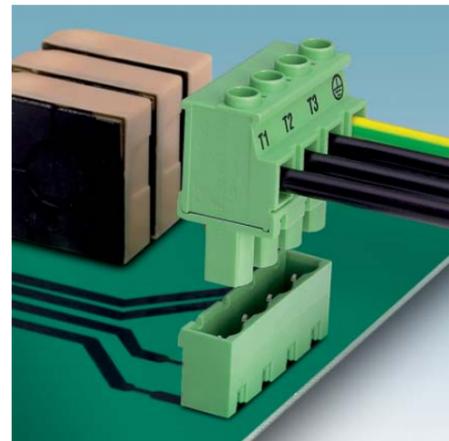


Ordering data	
Type	Order No.
5.08 mm pitch, color: Green	
ICV 2,5 HC/ 2-G-5,08	1943535
ICV 2,5 HC/ 3-G-5,08	1943548
ICV 2,5 HC/ 4-G-5,08	1943551
ICV 2,5 HC/ 5-G-5,08	1943564
ICV 2,5 HC/ 6-G-5,08	1943577
ICV 2,5 HC/ 7-G-5,08	1943580
ICV 2,5 HC/ 8-G-5,08	1943593
ICV 2,5 HC/ 9-G-5,08	1943603
ICV 2,5 HC/10-G-5,08	1943616
ICV 2,5 HC/11-G-5,08	1943629
ICV 2,5 HC/12-G-5,08	1943632



Ordering data	
Type	Order No.
5.08 mm pitch, color: Green	
ICV 2,5 HC/ 2-GF-5,08	1943645
ICV 2,5 HC/ 3-GF-5,08	1943658
ICV 2,5 HC/ 4-GF-5,08	1943661
ICV 2,5 HC/ 5-GF-5,08	1943674
ICV 2,5 HC/ 6-GF-5,08	1943687
ICV 2,5 HC/ 7-GF-5,08	1943690
ICV 2,5 HC/ 8-GF-5,08	1943700
ICV 2,5 HC/ 9-GF-5,08	1943713
ICV 2,5 HC/10-GF-5,08	1943726
ICV 2,5 HC/11-GF-5,08	1943739
ICV 2,5 HC/12-GF-5,08	1943742

Vertical plug-in connectors for 600 V UL



- High-capacity connectors for voltages of up to 1000 V as per IEC
- Plugs with unrestricted 600 V UL approval
- Plug-in direction vertical to the PCB
- GMVSTBR 2,5 HV...ST, conductor entry on the keying side of the plug, so conductor exit upward.
- GMVSTBW 2,5 HV...ST, conductor entry on the rippled side of the plug, so conductor exit downward.
- Compatible with the GMSTB 2,5/...-G-7,62 base strips, see page 342

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

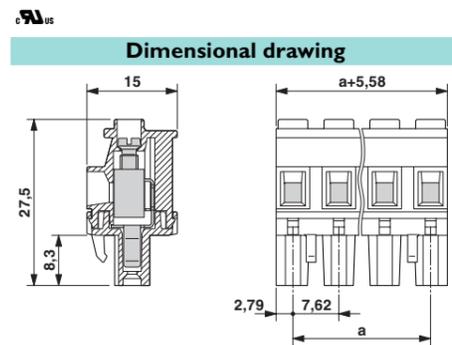


Connection point facing the smooth wall of the header (R), 600 V UL approval

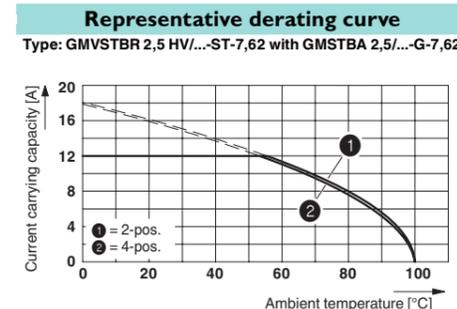
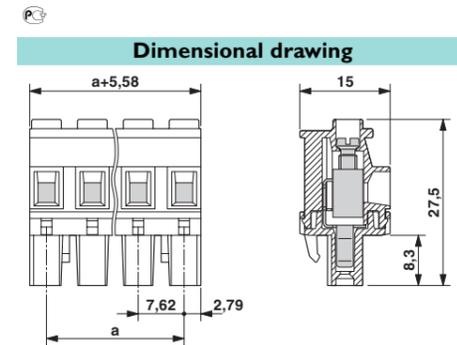


Connection point facing the rippled wall of the header (W), 600 V UL approval

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 7,62/3,8	799



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	12 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	500 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	15 15 -
Connection capacity AWG	30 - 12 30 - 12 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	GMVSTBR 2,5 HV/ 2-ST-7,62	1774454	50
3	15.24	GMVSTBR 2,5 HV/ 3-ST-7,62	1993954	50
4	22.86	GMVSTBR 2,5 HV/ 4-ST-7,62	1774467	50

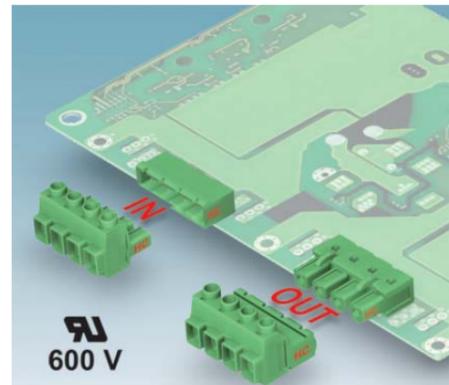
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBR 2,5 HV/ 2-ST-7,62	1771910	50
GMVSTBW 2,5 HV/ 3-ST-7,62	1993967	50
GMVSTBW 2,5 HV/ 4-ST-7,62	1927221	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

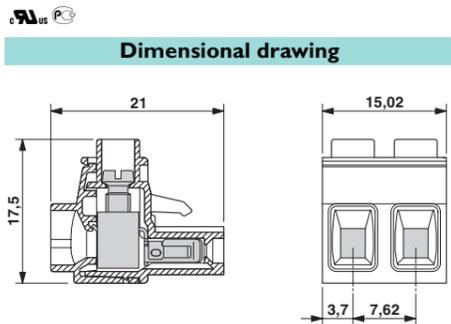
Plugs with screw connection for 600 V UL



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 The designation "HC" is printed in red to provide clear identification of "High current" connectors.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 2) Diverging UL data with GIC 2,5 HCV/...-ST-7,62: nominal current = 16 A.

- High-capacity within minimum space: Current carrying capacity of 16 A in combination with an unrestricted 600-V-UL approval
- Compact 7.62 mm pitch
- GMSTB 2,5 HCV connectors should be used only with GMSTBA 2,5 HC base strips
- The double steel spring ensures additional safety, especially in case of temperature and capacity fluctuations
- The versions with Lock & Release levers lock the plug to the header and also serve as a release tool.
- Inverted GIC 2,5 HCV plugs with pin contacts

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 7,62/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



Note derating curves
 Derating curves according to DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 2.5 mm²
 Reduction factor = 0.8
 No. of positions: See diagram

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
GMSTB 2,5 HCV/ 2-ST-7,62	1714278	50	
GMSTB 2,5 HCV/ 3-ST-7,62	1714281	50	
GMSTB 2,5 HCV/ 4-ST-7,62	1714294	50	
GMSTB 2,5 HCV/ 5-ST-7,62	1714304	50	
GMSTB 2,5 HCV/ 6-ST-7,62	1714317	50	
GMSTB 2,5 HCV/ 7-ST-7,62	1714320	50	
GMSTB 2,5 HCV/ 8-ST-7,62	1714333	50	
GMSTB 2,5 HCV/ 9-ST-7,62	1714346	50	
GMSTB 2,5 HCV/10-ST-7,62	1714359	50	
GMSTB 2,5 HCV/11-ST-7,62	1714362	50	
GMSTB 2,5 HCV/12-ST-7,62	1714375	50	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	16 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Solid / stranded [mm ²]	0.25 - 2.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 1 / 0.2 - 1.5
Solid / stranded [mm ²]	0.25 - 1
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 1
Stranded with TWIN ferrule with plastic sleeve [mm ²]	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	18.5 ²⁾ 18.5 -
Connection capacity AWG	30 - 12 30 - 12 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	8
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

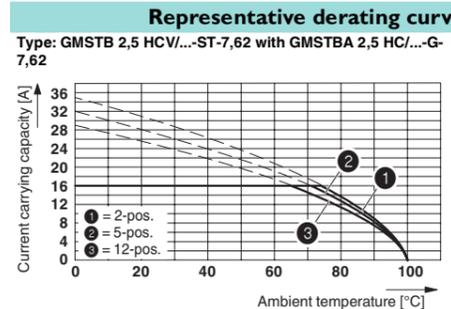
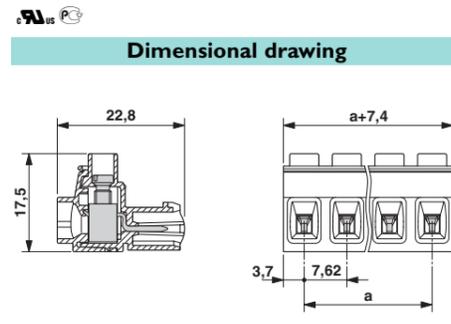
Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

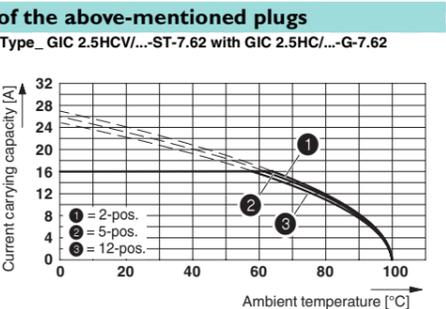
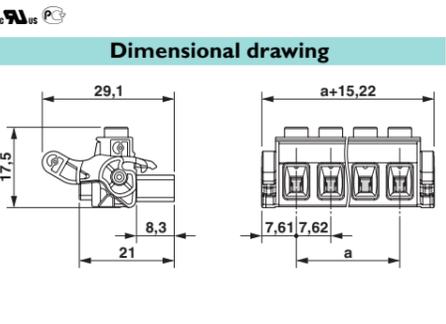
N



Inverted with pin contact, 600 V UL approval Lock & Release locking, with socket contact, 600 V UL approval



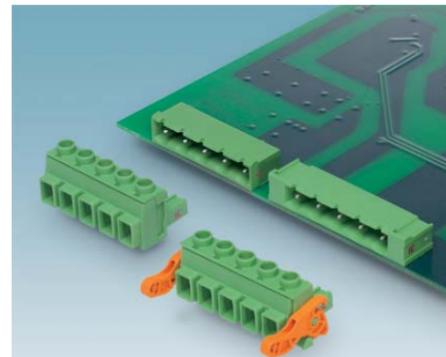
Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5 HCV/ 2-ST-7,62	1745629	50
GIC 2,5 HCV/ 3-ST-7,62	1745632	50
GIC 2,5 HCV/ 4-ST-7,62	1745645	50
GIC 2,5 HCV/ 5-ST-7,62	1745658	50
GIC 2,5 HCV/ 6-ST-7,62	1745661	50
GIC 2,5 HCV/ 7-ST-7,62	1745674	50
GIC 2,5 HCV/ 8-ST-7,62	1745687	50
GIC 2,5 HCV/ 9-ST-7,62	1745690	50
GIC 2,5 HCV/10-ST-7,62	1745700	50
GIC 2,5 HCV/11-ST-7,62	1745713	50
GIC 2,5 HCV/12-ST-7,62	1745726	50



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5 HCV/ 2-ST-7,62-LR	1812759	50
GMSTB 2,5 HCV/ 3-ST-7,62-LR	1812762	50
GMSTB 2,5 HCV/ 4-ST-7,62-LR	1812775	50
GMSTB 2,5 HCV/ 5-ST-7,62-LR	1812788	50
GMSTB 2,5 HCV/ 6-ST-7,62-LR	1812791	50
GMSTB 2,5 HCV/ 7-ST-7,62-LR	1812801	50
GMSTB 2,5 HCV/ 8-ST-7,62-LR	1812814	50
GMSTB 2,5 HCV/10-ST-7,62-LR	1812830	50
GMSTB 2,5 HCV/11-ST-7,62-LR	1812843	50
GMSTB 2,5 HCV/12-ST-7,62-LR	1812856	50

Headers with pin contact

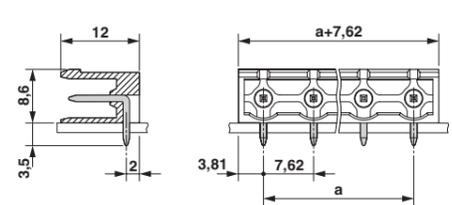
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 The designation "HC" is printed in red to provide clear identification of "High current" connectors.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



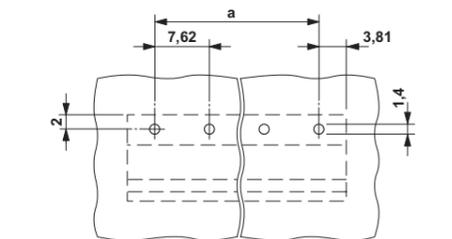
- GMSTB 2,5 HC headers for combination with GMSTB 2,5 HCV plugs
- Compact 7.62 mm pitch
- CR-MSTB coding sections as protection against mismatching
- Lock & Release versions lock the plug to the header and also serve as a release tool

Accessories		
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Marker cards SK 7.62/3,8	799
	Keying tab MSTB-BL Order No. 1755477	837

Dimensional drawing



Drilling diagram



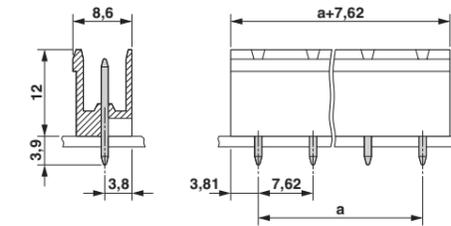
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBA 2,5 HC/ 2-G-7,62	1728853	50
GMSTBA 2,5 HC/ 3-G-7,62	1728866	50
GMSTBA 2,5 HC/ 4-G-7,62	1728879	50
GMSTBA 2,5 HC/ 5-G-7,62	1728882	50
GMSTBA 2,5 HC/ 6-G-7,62	1728895	50
GMSTBA 2,5 HC/ 7-G-7,62	1728905	50
GMSTBA 2,5 HC/ 8-G-7,62	1728918	50
GMSTBA 2,5 HC/ 9-G-7,62	1728921	50
GMSTBA 2,5 HC/10-G-7,62	1728934	50
GMSTBA 2,5 HC/11-G-7,62	1728947	50
GMSTBA 2,5 HC/12-G-7,62	1728950	50

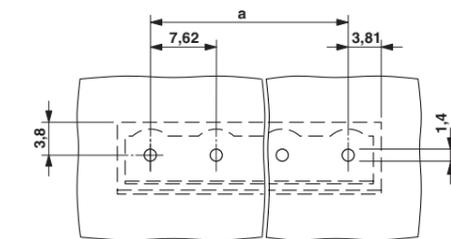


Vertical

Dimensional drawing



Drilling diagram



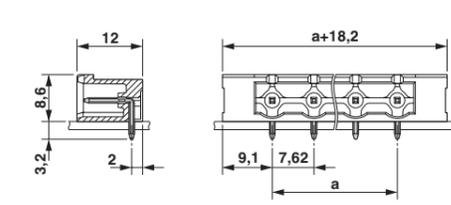
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBVA 2,5 HC/ 2-G-7,62	1792397	50
GMSTBVA 2,5 HC/ 3-G-7,62	1767979	50
GMSTBVA 2,5 HC/ 4-G-7,62	1758179	50
GMSTBVA 2,5 HC/ 5-G-7,62	1773455	50
GMSTBVA 2,5 HC/ 6-G-7,62	1767050	50
GMSTBVA 2,5 HC/ 7-G-7,62	1792407	50
GMSTBVA 2,5 HC/ 8-G-7,62	1792410	50
GMSTBVA 2,5 HC/ 9-G-7,62	1792423	50
GMSTBVA 2,5 HC/10-G-7,62	1792436	50
GMSTBVA 2,5 HC/11-G-7,62	1792449	50
GMSTBVA 2,5 HC/12-G-7,62	1792452	50

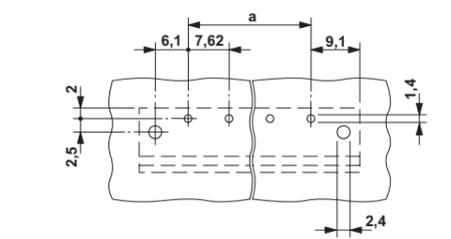


Lock & Release locking, horizontal

Dimensional drawing



Drilling diagram



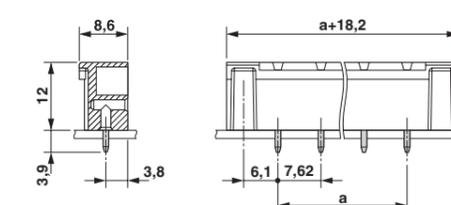
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBA 2,5 HC/ 2-G-7,62-LR	1812869	50
GMSTBA 2,5 HC/ 3-G-7,62-LR	1812872	50
GMSTBA 2,5 HC/ 4-G-7,62-LR	1812885	50
GMSTBA 2,5 HC/ 5-G-7,62-LR	1812898	50
GMSTBA 2,5 HC/ 6-G-7,62-LR	1812908	50
GMSTBA 2,5 HC/ 7-G-7,62-LR	1812911	50
GMSTBA 2,5 HC/ 8-G-7,62-LR	1812924	50
GMSTBA 2,5 HC/ 9-G-7,62-LR	1812937	50
GMSTBA 2,5 HC/10-G-7,62-LR	1812940	50
GMSTBA 2,5 HC/11-G-7,62-LR	1812953	50
GMSTBA 2,5 HC/12-G-7,62-LR	1812966	50

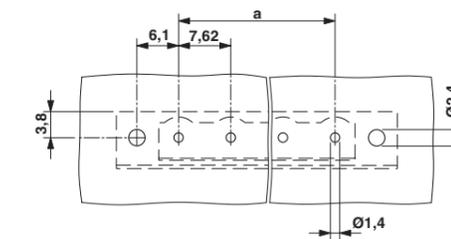


Lock & Release locking, vertical

Dimensional drawing



Drilling diagram



Ordering data

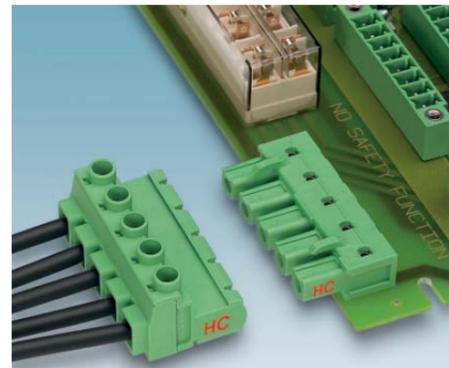
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBVA 2,5 HC/ 2-G-7,62-LR	1812979	50
GMSTBVA 2,5 HC/ 3-G-7,62-LR	1812982	50
GMSTBVA 2,5 HC/ 4-G-7,62-LR	1812995	50
GMSTBVA 2,5 HC/ 5-G-7,62-LR	1813004	50
GMSTBVA 2,5 HC/ 6-G-7,62-LR	1813017	50
GMSTBVA 2,5 HC/ 7-G-7,62-LR	1813020	50
GMSTBVA 2,5 HC/ 8-G-7,62-LR	1813033	50
GMSTBVA 2,5 HC/ 9-G-7,62-LR	1813046	50
GMSTBVA 2,5 HC/10-G-7,62-LR	1813059	50
GMSTBVA 2,5 HC/11-G-7,62-LR	1813062	50
GMSTBVA 2,5 HC/12-G-7,62-LR	1813075	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 16 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 500 630 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 - 300
Nominal current	[A] 18.5 - 10
Connection capacity AWG	AWG - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - -
Nominal current	[A] - -
Connection capacity AWG	AWG - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.4 / 1 x 1 mm

Headers with socket contact

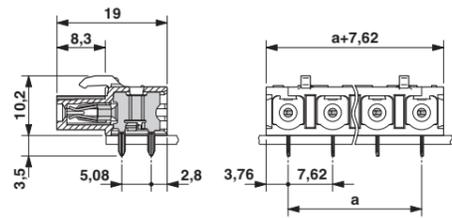
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.
 The designation "HC" is printed in red to provide clear identification of "High current" connectors.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



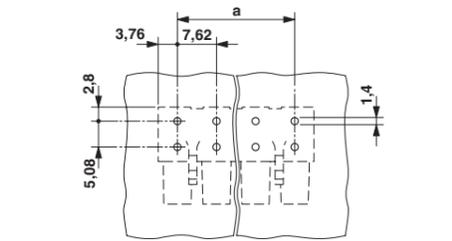
- Inverted GIC 2,5 HC headers with female contacts for touch-proof device outputs (with GIC 2,5 HCV/... -ST) or a PCB-PCB connection (with GMSTBA 2,5 HC/... -G)
- Maximum contact safety thanks to an integrated double steel spring
- Keying profile CP-MSTB as protection against mismatching
- Compact 7.62 mm pitch

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 7,62/3,8	799
	Reducing plug RPS Order No. 0201647	831
	Test plug MPS	831

Dimensional drawing



Drilling diagram



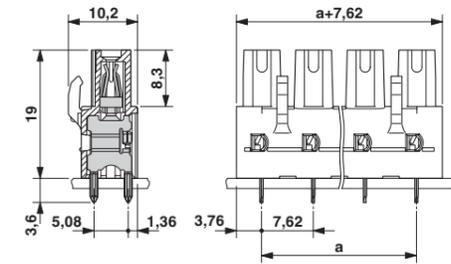
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5 HC/ 2-G-7,62	1745784	50
GIC 2,5 HC/ 3-G-7,62	1745797	50
GIC 2,5 HC/ 4-G-7,62	1745807	50
GIC 2,5 HC/ 5-G-7,62	1745810	50
GIC 2,5 HC/ 6-G-7,62	1745823	50
GIC 2,5 HC/ 7-G-7,62	1745836	50
GIC 2,5 HC/ 8-G-7,62	1745849	50
GIC 2,5 HC/ 9-G-7,62	1745852	50
GIC 2,5 HC/10-G-7,62	1745865	50
GIC 2,5 HC/11-G-7,62	1745878	50
GIC 2,5 HC/12-G-7,62	1745881	50

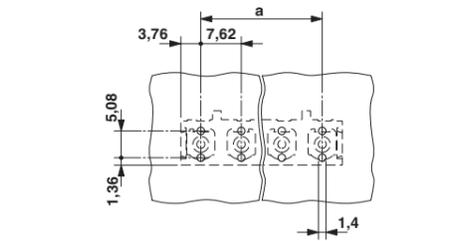


Vertical

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GICV 2,5 HC/ 2-G-7,62	1756485	50
GICV 2,5 HC/ 3-G-7,62	1756498	50
GICV 2,5 HC/ 4-G-7,62	1756508	50
GICV 2,5 HC/ 5-G-7,62	1756511	50
GICV 2,5 HC/ 6-G-7,62	1756524	50
GICV 2,5 HC/ 7-G-7,62	1756537	50
GICV 2,5 HC/ 8-G-7,62	1756540	50
GICV 2,5 HC/ 9-G-7,62	1756553	50
GICV 2,5 HC/10-G-7,62	1756566	50
GICV 2,5 HC/11-G-7,62	1756579	50
GICV 2,5 HC/12-G-7,62	1756582	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	16 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	630 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	16 - 10
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.4 / 1,2 x 0,5

ME/ME MAX plug-in connectors/headers, 7.62 mm pitch



- Suitable for ME/ME MAX electronic housing
- 7.25 mm pitch for unlimited 600 V UL approval
- Orthogonal screw/plug-in connection
- 2 and 3 positions suitable for 17.5/35 mm and 22.5/45 mm housing width

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

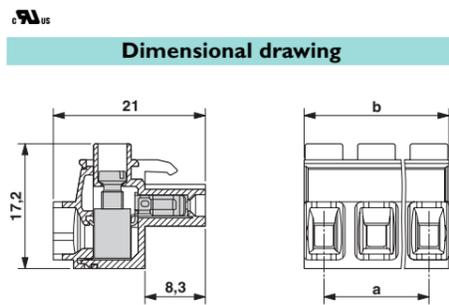
GMSTBT 2,5 HV/...-ST-7,25 GY7035	
No. of pos.	Dimension b [mm]
2	14.95
3	19.95

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Suitable for GMSTBO 2,5 HV... headers, high-current-compatible

Accessories		
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker cards SK 7,5/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



Representative derating curve

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

Rated current / conductor cross section	16 ¹⁾ / 2.5
Rated insulation voltage for pollution degree 2	1000
Pitch	7.25
Connection capacity	
Solid / stranded	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	0.25 - 2.5
Stranded with ferrules with plastic sleeve	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	0.1 - 1 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	0.25 - 1
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	1000 1000 1000
Rated surge voltage	8 8 8
Approval data (UL/CUL)	B C D
Nominal voltage	600 600 -
Nominal current	16 16 -
Connection capacity AWG	24 - 12 24 - 12 -
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	8
Screw thread	M3
Tightening torque	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	7.25
3	14.50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: light gray		
GMSTBT 2,5 HV/2-ST-7,25 GY7035	2199757	50
GMSTBT 2,5 HV/3-ST-7,25 GY7035	2199553	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

ME/ME MAX plug-in connectors/headers, 7.62 mm pitch



- Suitable for ME/ME MAX electronic housing
- 7.25 mm pitch for unlimited 600 V UL approval
- Orthogonal screw/plug-in connection
- THR solderable
- 2 and 3 positions suitable for 17.5/35 mm and 22.5/45 mm housing width
- "Left" and "right" design
- Delivery form: Box packaging bulk material or tape-on-reel packing for automated mounting

Notes:

No. of pos.	Dimension b [mm]	Dimension c [mm]
2	14.95	8.00
3	19.95	16.00

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

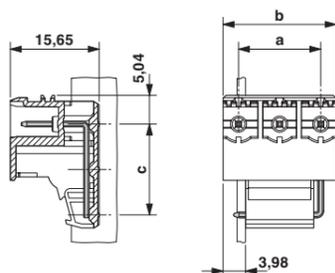
Accessories

For all types	Type	Page
	Keying section CR-MSTBO G1 Order No. 2199618	38
	Marker cards SK 7,5/3,8	799

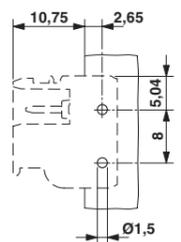
Header with "left" pin strip leading off at a right angle, box packaging



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GL-7,25 THR	2199867	50
GMSTBO 2,5 HV/ 3-GL-7,25 THR	2199663	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

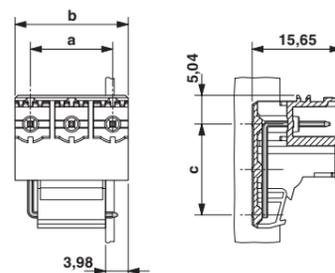
HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm



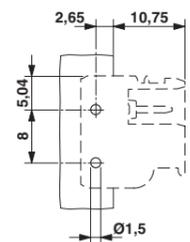
Header with "right" pin strip leading off at a right angle, box packaging



Dimensional drawing



Drilling diagram



Ordering data

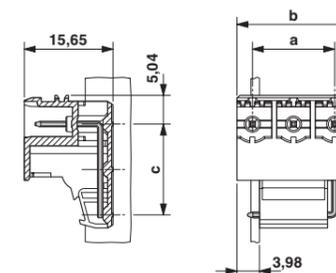
Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GR-7,25 THR	2199760	50
GMSTBO 2,5 HV/ 3-GR-7,25 THR	2199566	50



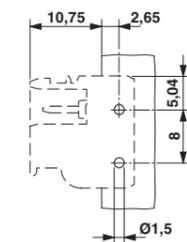
Header with "left" pin strip leading off at a right angle, tape-on-reel packing



Dimensional drawing



Drilling diagram



Ordering data

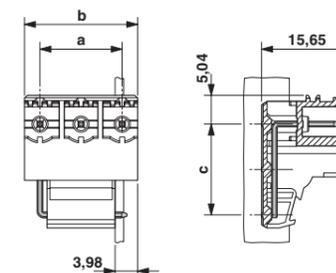
Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GL-7,25THRR32	2279703	110
GMSTBO 2,5 HV/3-GL-7,25 THRR44	2200263	70



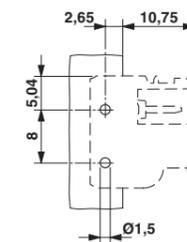
Header with "right" pin strip leading off at a right angle, tape-on-reel packing



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GR-7,25THRR32	2279606	110
GMSTBO 2,5 HV/3-GR-7,25 THRR44	2200262	70

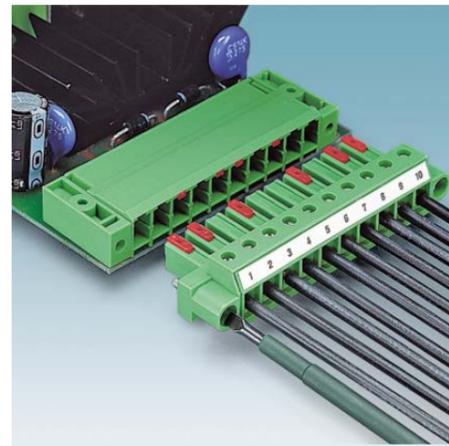
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 16 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] -
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 630 630
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 150 300
Nominal current	[A] 16 16 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	LCP / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.5 / 1,0 x 1,0 mm

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

Plugs with screw and crimp connection



- High-capacity plugs with a current carrying capacity of 20 A
- Screw connection up to 4 mm², stranded
- Integrated double steel spring as extra safety against contact corrosion
- Available with 2 to 12-pos.
- Vibration-resistant connection with a screw flange (PC 4/...-STF-7,62)
- Plug components can be keyed using the CP-PC RD keying profiles

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



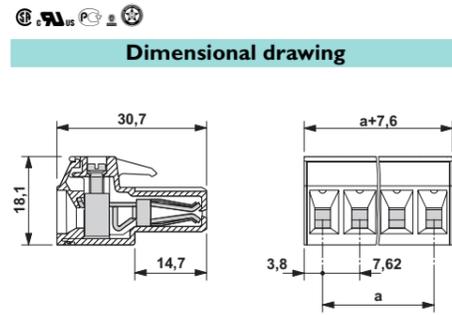
Without screw flange



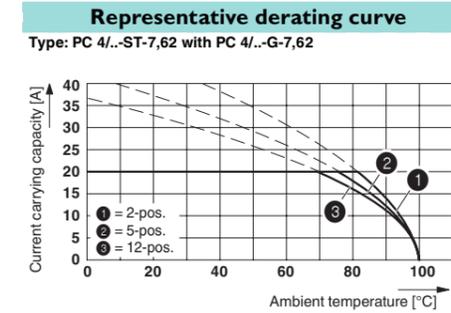
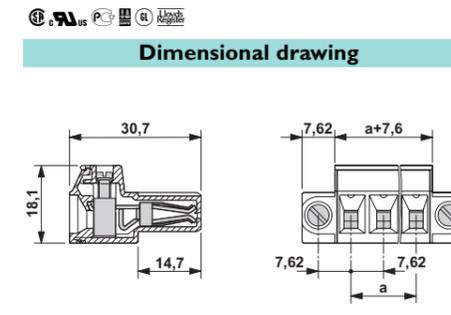
With screw flange



Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 4 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Note on PC 4 HV/...ST-7,62
 As part of ongoing product improvements, the PC 4 HV plug-in connector range has been withdrawn.
 A replacement is available in the form of the PC 5-ST1 plug-in connector. This connector offers the same space but even better performance data. This plug-in connector is available in the same version options and can be found from catalog page 524.

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	20 ¹⁾ / 4
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 4 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	0.2 - 2.5 / 0.2 - 1.5
Solid / stranded [mm ²]	0.2 - 2.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	400 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 300 600
Nominal current [A]	20 20 5
Connection capacity AWG	30 - 10 30 - 10 30 - 10
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	300 300 -
Nominal current [A]	20 20 -
Connection capacity AWG	28 - 10 28 - 10 -
General data	
Stripping length [mm]	7
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

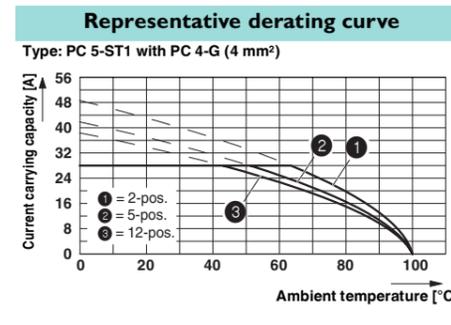
No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 4/ 2-ST-7,62	1804904	50
PC 4/ 3-ST-7,62	1804917	50
PC 4/ 4-ST-7,62	1804920	50
PC 4/ 5-ST-7,62	1804933	50
PC 4/ 6-ST-7,62	1804946	50
PC 4/ 7-ST-7,62	1804959	50
PC 4/ 8-ST-7,62	1804962	50
PC 4/ 9-ST-7,62	1804975	50
PC 4/10-ST-7,62	1804988	50
PC 4/11-ST-7,62	1804991	50
PC 4/12-ST-7,62	1805000	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 4/ 2-STF-7,62	1828249	50
PC 4/ 3-STF-7,62	1828252	50
PC 4/ 4-STF-7,62	1828265	50
PC 4/ 5-STF-7,62	1828278	50
PC 4/ 6-STF-7,62	1828281	50
PC 4/ 7-STF-7,62	1828294	50
PC 4/ 8-STF-7,62	1828304	50
PC 4/ 9-STF-7,62	1828317	50
PC 4/10-STF-7,62	1828320	50
PC 4/11-STF-7,62	1828333	50
PC 4/12-STF-7,62	1827583	50



Plugs with screw and crimp connection



- Low height of the PCC 4 series
- Plug-in direction parallel to the conductor axis
- Latching option for pull-out aid
- Compatible with PC 4 headers for PCB and PCVK 4- and UPCV3K headers for DIN rail mounting
- Crimp contacts available loose and on tape

- STG-MTN 0,5-1,0**
- for conductor cross sections from 0.5 to 1.0 mm² (AWG 20-18)
- STG-MTN 1,5-2,5**
- for conductor cross sections from 1.5 to 2.5 mm² (16-14 AWG)

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

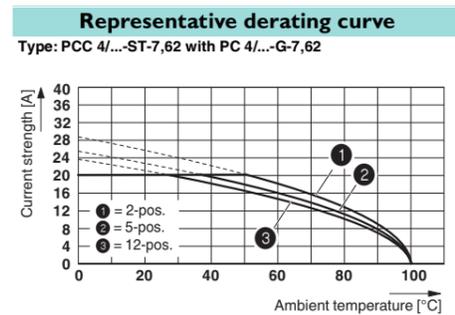
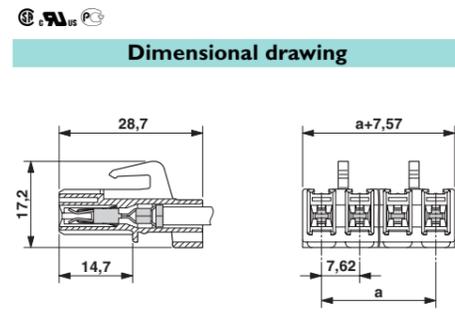
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Plugs for crimp contacts

Accessories		
For all types	Type	Page
	Module female contact, 0.5 to 2.5 mm ² STG-MTN...	827
	Crimping pliers for 0.5 to 2.5 mm ² CRIMPFOX MT 2,5 Order No. 1204038	
	Contact removal tool STG-EW Order No. 3190441	
	Pullout aid STZ...-PCC 4-7,62	828
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker cards SK 7,62/3,8	799

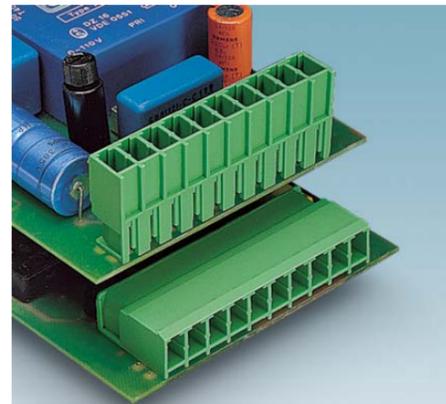


Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 20 ¹⁾ / 4
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 7.62
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG - / 0.5 - 2.5 / 20 - 14
Stranded with ferrules without plastic sleeve	[mm ²] -
Stranded with ferrules with plastic sleeve	[mm ²] -
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] - / -
Stranded with ferrules without plastic sleeve	[mm ²] -
Stranded with TWIN ferrule with plastic sleeve	[mm ²] -
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 1000 1000
Rated surge voltage	[kV] 8 8 8
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 10 10 -
Connection capacity AWG	AWG 20 - 14 20 - 14 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 10 10 -
Connection capacity AWG	AWG 20 - 14 20 - 14 -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCC 4/ 2-ST-7,62	1840191	50
PCC 4/ 3-ST-7,62	1840188	50
PCC 4/ 4-ST-7,62	1840175	50
PCC 4/ 5-ST-7,62	1840162	50
PCC 4/ 6-ST-7,62	1840159	50
PCC 4/ 7-ST-7,62	1840146	50
PCC 4/ 8-ST-7,62	1840133	50
PCC 4/ 9-ST-7,62	1840120	50
PCC 4/10-ST-7,62	1840117	50
PCC 4/11-ST-7,62	1840104	50
PCC 4/12-ST-7,62	1840094	50

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Headers with pin contact



- PC 4 headers for use in combination with all PC 4 plugs
- Horizontal and vertical (PCV) versions available with 2 to 12-pos.
- Vibration-resistant connection with separate mounting flange BF-PC 4 (also for screw connection in the device)
- Shroud PCB-SHIELD for a professional EMC shield connection
- CP-PC RD keying profile as protection against mismatching

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 Mounting screw for PC(V) 4-G-7,62 with BF-PC 4: sheet metal screw ISO 1481-ST 2,9x9,5 C. Screw connection only permitted prior to soldering.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 2) Insulation material/insulation material class for the 10-, 11- and 12-pos. versions: PBT/IIa

Accessories		
For all types	Type	Page
	Mounting flange for lateral snapping on BF-PC 4 Order No. 1827570	
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799
Only for PC 4/...-G-7,62		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	



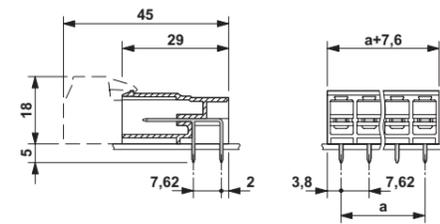
Horizontal



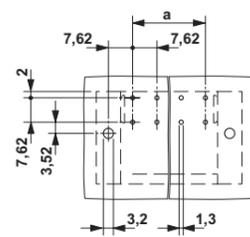
Vertical



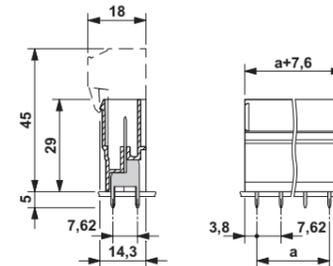
Dimensional drawing



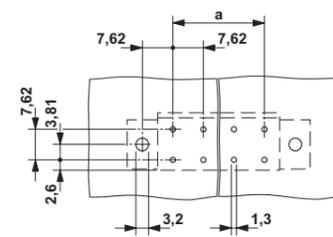
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 20 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 630 630
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	
Use Group	B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG - - -
Approval data (CSA)	
Use Group	B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I ²⁾
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.3 / 1 x 0,8 mm

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 4/ 2-G-7,62	1804797	50
PC 4/ 3-G-7,62	1804807	50
PC 4/ 4-G-7,62	1804810	50
PC 4/ 5-G-7,62	1804823	50
PC 4/ 6-G-7,62	1804836	50
PC 4/ 7-G-7,62	1804849	50
PC 4/ 8-G-7,62	1804852	50
PC 4/ 9-G-7,62	1804865	50
PC 4/10-G-7,62	1804878	50
PC 4/11-G-7,62	1804881	50
PC 4/12-G-7,62	1804894	50

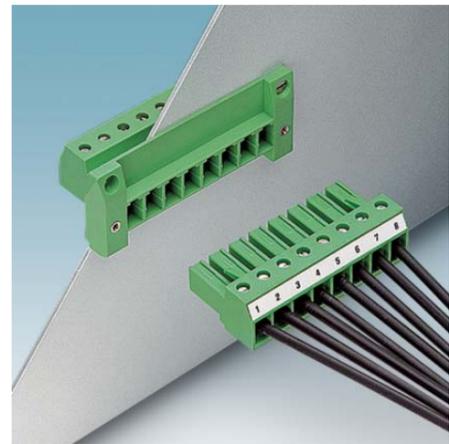
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCV 4/ 2-G-7,62	1804687	50
PCV 4/ 3-G-7,62	1804690	50
PCV 4/ 4-G-7,62	1804700	50
PCV 4/ 5-G-7,62	1804713	50
PCV 4/ 6-G-7,62	1804726	50
PCV 4/ 7-G-7,62	1804739	50
PCV 4/ 8-G-7,62	1804742	50
PCV 4/ 9-G-7,62	1804755	50
PCV 4/10-G-7,62	1804768	50
PCV 4/11-G-7,62	1804771	50
PCV 4/12-G-7,62	1804784	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

Feed-through header with a male contact



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 connectors
- A screw connection on the inside of the device
- Lateral mounting flange (screw set, refer to accessories)
- Can be mounted either from outside or pre-wired and mounted from inside

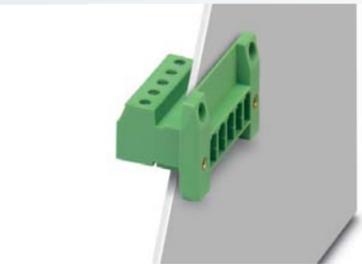
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The cutout dimensions for the feed-through versions can be found on page 595.

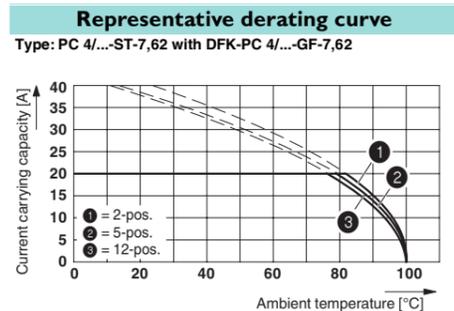
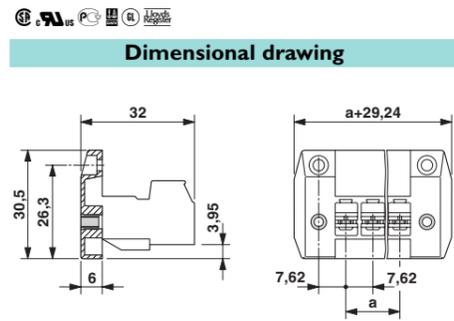
Derating curves according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 4 mm²
Reduction factor = 0.8
No. of positions: See diagram

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263	
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



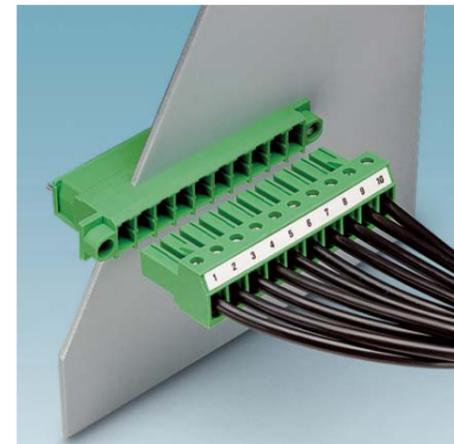
With screw connection on the inside of the device



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 4/ 2-GF-7,62	1840557	50	
DFK-PC 4/ 3-GF-7,62	1840560	50	
DFK-PC 4/ 4-GF-7,62	1840573	50	
DFK-PC 4/ 5-GF-7,62	1840586	50	
DFK-PC 4/ 6-GF-7,62	1840599	50	
DFK-PC 4/ 7-GF-7,62	1840609	50	
DFK-PC 4/ 8-GF-7,62	1840612	50	
DFK-PC 4/ 9-GF-7,62	1840625	50	
DFK-PC 4/10-GF-7,62	1840638	50	
DFK-PC 4/11-GF-7,62	1840641	50	
DFK-PC 4/12-GF-7,62	1840654	50	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 20 ¹⁾ / 4
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.62
Connection capacity	[mm ²] / [mm ²] / AWG 0.2 - 4 / 0.2 - 4 / 24 - 10
Solid / stranded	[mm ²] / [mm ²] / AWG 0.25 - 4
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 4
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.2 - 2.5 / 0.2 - 2.5
Stranded with ferrules without plastic sleeve	[mm ²] 0.2 - 1.5
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 630 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 35 35 5
Connection capacity AWG	AWG 30 - 10 30 - 10 30 - 10
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG 28 - 10 28 - 10 -
General data	
Stripping length	[mm] 7
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Feed-through header with a male contact



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 connectors
- Slip-on connection on the inside of the device (solder connection on request)
- Lateral mounting flange (screw set, refer to accessories)

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 15 ¹⁾ / 4
Rated insulation voltage for pollution degree 2	[V] 400
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 400 800
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V2
Slip-on connection (DIN 46249-1)	[A]/[mm] - / 4,8 x 0,8 mm

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

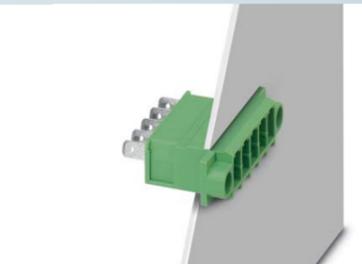
Notes:
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

The cutout dimensions for the feed-through versions can be found on page 595.

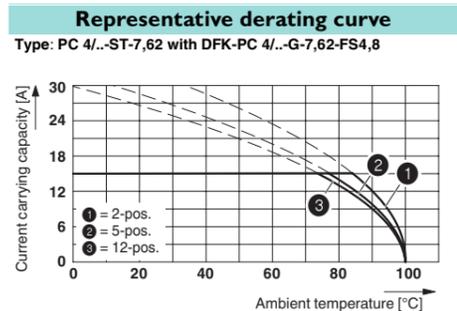
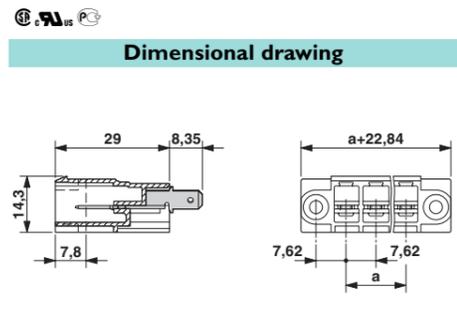
Derating curves according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
No. of positions: See diagram

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263	
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



With slip-on connection on the inside of the device

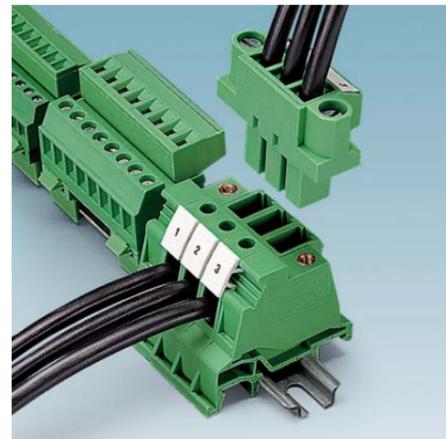


Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 4/ 2-G-7,62-FS4,8	1861154	50	
DFK-PC 4/ 3-G-7,62-FS4,8	1861167	50	
DFK-PC 4/ 4-G-7,62-FS4,8	1861170	50	
DFK-PC 4/ 5-G-7,62-FS4,8	1861183	50	
DFK-PC 4/ 6-G-7,62-FS4,8	1861196	50	
DFK-PC 4/ 7-G-7,62-FS4,8	1861206	50	
DFK-PC 4/ 8-G-7,62-FS4,8	1861219	50	
DFK-PC 4/ 9-G-7,62-FS4,8	1861222	50	
DFK-PC 4/10-G-7,62-FS4,8	1861235	50	
DFK-PC 4/11-G-7,62-FS4,8	1861248	50	
DFK-PC 4/12-G-7,62-FS4,8	1861251	50	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

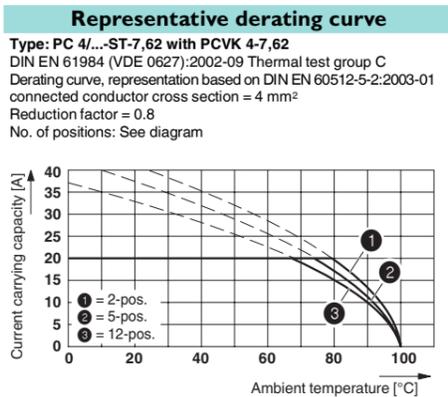
Headers with pin contact for DIN rail mounting



- PCVK 4 and UPCV3K 4 establish the pluggable connection between the electronics and the control cabinet
- For mounting on NS 35/... and NS 15... DIN rail according to EN 60715 – or for the UPCV3K 4-G-7,62 – for mounting on NS 35/... and NS 32 DIN rail
- Can be plugged onto PC 4 and PC 5 connector range
- Vibration-resistant connection with flange terminal blocks that can be aligned (-F)
- UPCV3K provides three connector outputs for each terminal point

Notes:
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 For DIN rails, see Catalog 5.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Zack marker strip ZB 7,62	805



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	PCVK 4-7,62	PCVK 4-7,62-PE	UPCV3K 4-G-7,62
Rated current / conductor cross section	20 ¹⁾ / 4	20 ¹⁾ / 4	20 ¹⁾ / 4
Rated insulation voltage for pollution degree 2	630	630	1000
Pitch	7.62	7.62	7.62
Connection capacity			
Solid / stranded	0.2 - 4 / 0.2 - 4 / 24 - 12	0.2 - 4 / 0.2 - 4 / 24 - 12	0.2 - 4 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4	0.25 - 4	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4	0.25 - 4	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	0.25 - 2.5 / 0.25 - 2.5	0.25 - 2.5 / 0.25 - 2.5	0.25 - 2.5 / 0.25 - 2.5
Stranded with ferrules without plastic sleeve	0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Insulation coordination			
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	500 630 1000	500 630 1000	800 1000 1000
Rated surge voltage	6 6 6	6 6 6	8 8 8
Approval data (UL/CUL)	B C D	B C D	B C D
Nominal voltage	300 300 600	- - -	300 300 600
Nominal current	20 20 5	- - -	20 20 5
Connection capacity AWG	30 - 10 30 - 10 30 - 10	- - -	30 - 10 30 - 10 30 - 10
Approval data (CSA)	B C D	B C D	B C D
Nominal voltage	300 300 -	- - -	- - -
Nominal current	20 20 -	20 20 -	- - -
Connection capacity AWG	28 - 10 28 - 10 -	- - -	- - -
General data			
Stripping length	10	10	10
Screw thread	M3	M3	M3
Tightening torque	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0

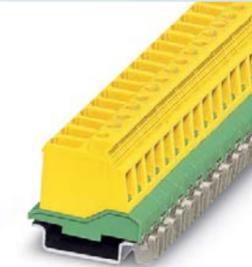
No. of pos.
1
1
1
1

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm



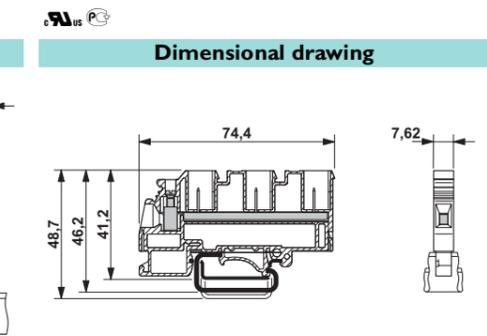
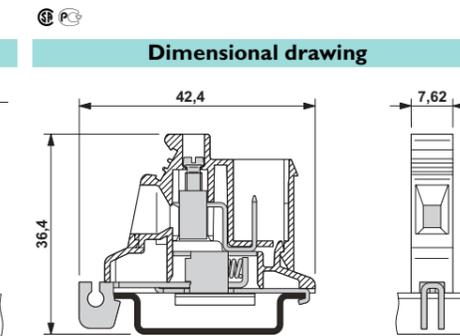
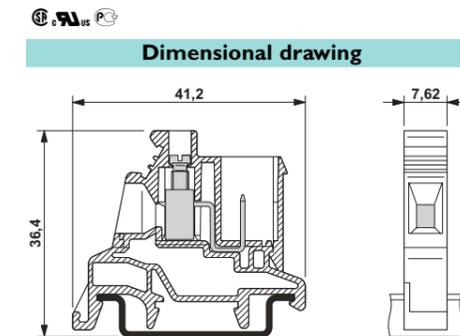
Single terminal block



Single terminal block as protective conductor



Single terminal block with 3 plug entries



Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCVK 4-7,62	1849998	50
Flange cover, fitted on the left and right of PCVK 4-7,62 for reliable screw connection of plugs with screw flanges, pitch: 7.62 mm, color: Green		
PCVK 4-7,62-F	1850000	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green-yellow		
PCVK 4-7,62-PE	1876246	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Terminal block, with three vertical COMBICON (Power) connectors/exits, for mounting on NS 32 or NS 35		
UPCV3K 4-G-7,62	1838381	50
Flange cover, fitted on the left and right of UPCV3K 4-G-7,62 for reliable screw connection with the plugs with screw flanges		
UPCV3K-F	1881202	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

Cable housing for PC 4 plug-in connectors

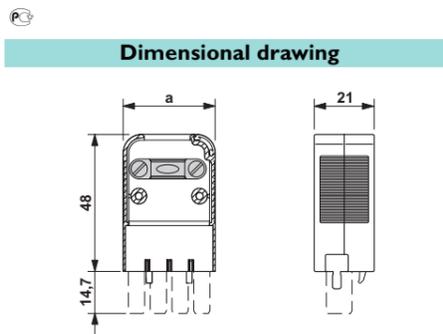


- Ergonomical cable housing for the standard PC 4 connectors with a screw connection
- 3 to 5-pos. and 6 to 12-pos. housing versions are available with and without a mounting flange (-F)
- KGG-PC 4 for cable diameters from 4 to 13.5 mm²
- KGS-PC 4 (angled cable outlet) for cable diameters from 6 to 16 mm²
- A cable clamp can be mounted back to front

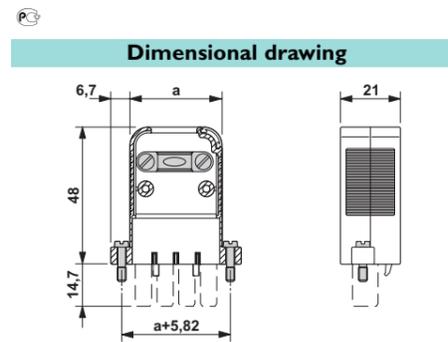
Notes:
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

Accessories		
For all types	Type	Page
	Transparent marker carrier KGS-MSTB 2,5/DST Order No. 1784914	
	Marker strips, unprinted, 10-section SBS 2,5/7,5 Order No. 1007604	

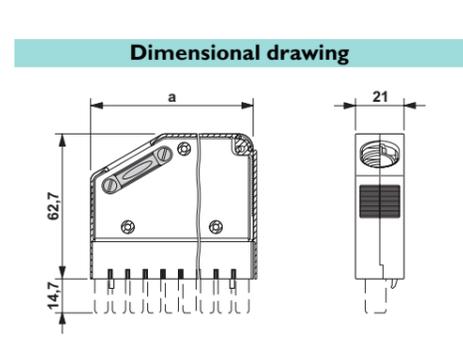
3-5 positions, with straight cable connection



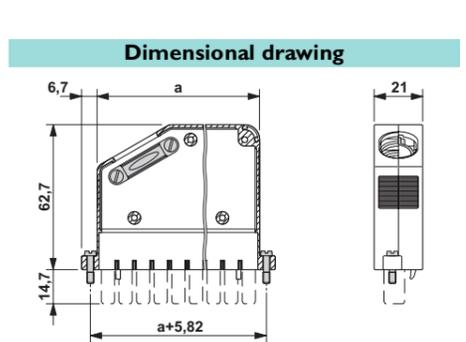
3-15 positions, with straight cable outlet and screw flange



6-12 positions, with angled cable connection



6-12 positions, with angled cable connection and screw flange



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
General data	
Type of insulation material / insulation material group	ABS / 0
Inflammability class according to UL 94	HB

Ordering data	
Type	Pitch 7.62 mm, color: Green
Order No.	
Pcs. / Pkt.	

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
3	24.66	KGG-PC 4/ 3	1837227	10
4	32.28	KGG-PC 4/ 4	1837230	10
5	39.90	KGG-PC 4/ 5	1837243	10
6	47.52			
7	55.14			
8	62.76			
9	70.38			
10	78.00			
11	85.62			
12	93.24			

Ordering data	
Type	Pitch 7.62 mm, color: Green
Order No.	
Pcs. / Pkt.	

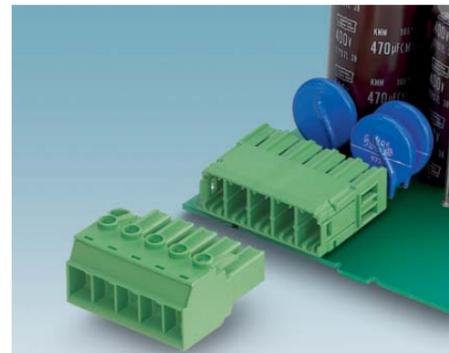
Ordering data	
Type	Pitch 7.62 mm, color: Green
Order No.	
Pcs. / Pkt.	

Ordering data	
Type	Pitch 7.62 mm, color: Green
Order No.	
Pcs. / Pkt.	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Plugs with screw connection, pin/socket contact



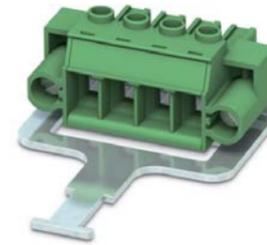
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 2) Tightening torque for ≤ 4 mm² = 0.5 to 0.6 Nm
 Tightening torque for > 4 mm² = 0.7 to 0.8 Nm



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval



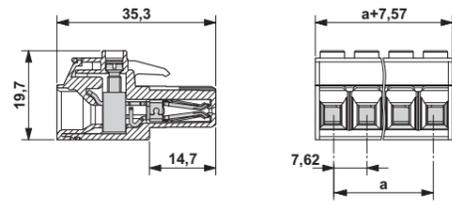
With screw flange and shield, 600 V UL approval



With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval



Dimensional drawing

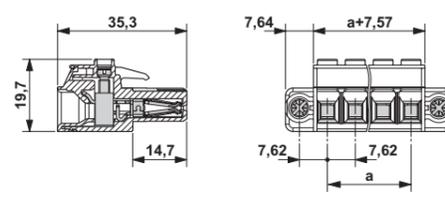


Note derating curves

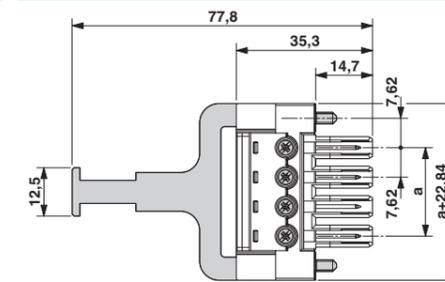
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Reduction factor = 0.8
 No. of positions: See diagram



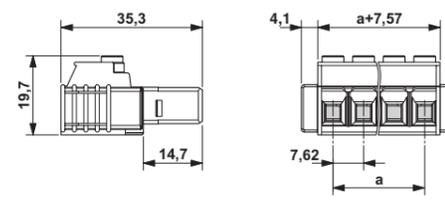
Dimensional drawing



Dimensional drawing

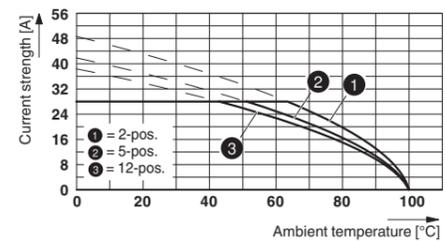


Dimensional drawing

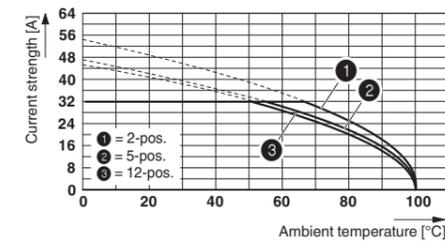


Representative derating curves of the above-mentioned plugs

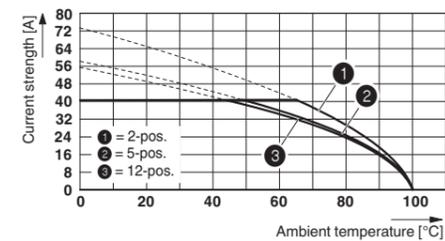
Type: PC 5/...ST1-7,62 with PC 4/....-G-7,62
 Conductor cross section: 4 mm²



Type: PC 5/...ST1-7,62 with PC 5/....-G-7,62
 Conductor cross section: 6 mm²



Type: PC 5/...ST1-7,62 with PC 5/....-G-7,62
 Conductor cross section: 10 mm²



- High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², flexible/10 mm² solid
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- An automatic toolless snap-lock mechanism with the click and lock system (-STCL); high degree of safety also in the case of vibrations
- Further features: Screw flange (-STF) and shield (-SH)
- CP-PC keying profile as protection against mismatching

Accessories

For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41 ¹⁾ / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 10
Solid / stranded [mm ²]	0.25 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²] / [mm ²] / AWG	0.2 - 2.5 / 0.2 - 4
Solid / stranded [mm ²]	0.25 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	41 41 -
Connection capacity AWG	24 - 8 24 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Screw thread	M3
Tightening torque [Nm]	0.5 - 0.8 ²⁾
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-ST1-7,62	1777723	50
PC 5/ 3-ST1-7,62	1777736	50
PC 5/ 4-ST1-7,62	1777749	50
PC 5/ 5-ST1-7,62	1777752	50
PC 5/ 6-ST1-7,62	1777765	50
PC 5/ 7-ST1-7,62	1777778	50
PC 5/ 8-ST1-7,62	1777781	50
PC 5/ 9-ST1-7,62	1777794	50
PC 5/10-ST1-7,62	1777804	50
PC 5/11-ST1-7,62	1777817	50
PC 5/12-ST1-7,62	1777820	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-STF1-7,62	1777833	50
PC 5/ 3-STF1-7,62	1777846	50
PC 5/ 4-STF1-7,62	1777859	50
PC 5/ 5-STF1-7,62	1777862	50
PC 5/ 6-STF1-7,62	1777875	50
PC 5/ 7-STF1-7,62	1777888	50
PC 5/ 8-STF1-7,62	1777891	50
PC 5/ 9-STF1-7,62	1777904	50
PC 5/10-STF1-7,62	1777914	50
PC 5/11-STF1-7,62	1777927	50
PC 5/12-STF1-7,62	1777930	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-STF-SH1-7,62	1778175	50
PC 5/ 3-STF-SH1-7,62	1778188	50
PC 5/ 4-STF-SH1-7,62	1778191	50
PC 5/ 7-STF-SH1-7,62	1778201	50

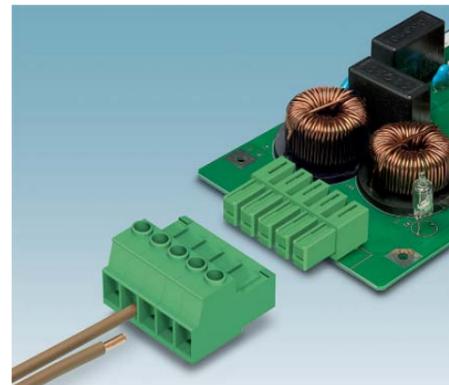
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-STCL1-7,62	1778065	50
PC 5/ 3-STCL1-7,62	1778078	50
PC 5/ 4-STCL1-7,62	1778081	50
PC 5/ 5-STCL1-7,62	1778094	50
PC 5/ 6-STCL1-7,62	1778104	50
PC 5/ 7-STCL1-7,62	1778117	50
PC 5/ 8-STCL1-7,62	1778120	50
PC 5/ 9-STCL1-7,62	1778133	50
PC 5/10-STCL1-7,62	1778146	50
PC 5/11-STCL1-7,62	1778159	50
PC 5/12-STCL1-7,62	1778162	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Plugs with screw connection, pin/socket contact



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

- Inverted IPC 5 plugs with pin contacts for touch-proof device outputs (with IPC 5 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into PC 5 plugs or inverted IPC 5 headers
- An automatic snap-on mechanism without tools for cable-cable connections with the Click and Lock system (-STGCL); high degree of safety even in case of vibrations
- STGF plug with threaded flange

Accessories

For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZK PZ 1 Order No. 1206450	
	Marker cards SK 7,62/3,8	799



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval

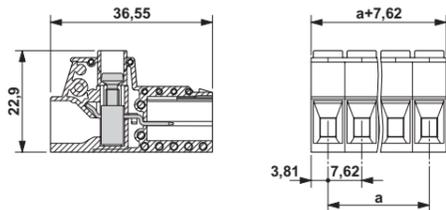


With threaded flange, 600 V UL approval



With Click and Lock system, compatible with STCL plugs, 600 V UL approval

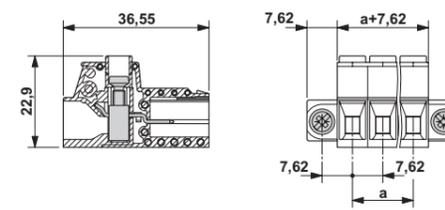
Dimensional drawing



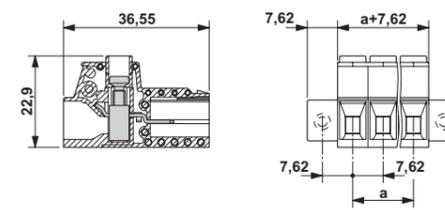
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Reduction factor = 0.8
 No. of positions: See diagram

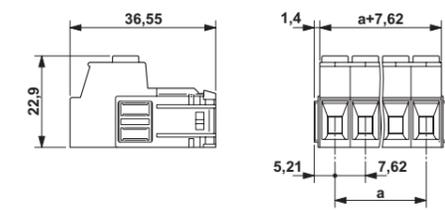
Dimensional drawing



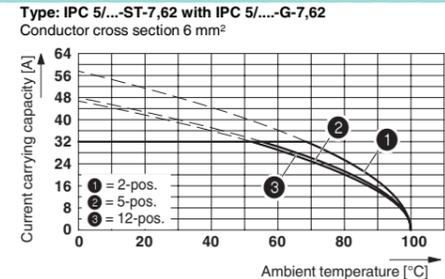
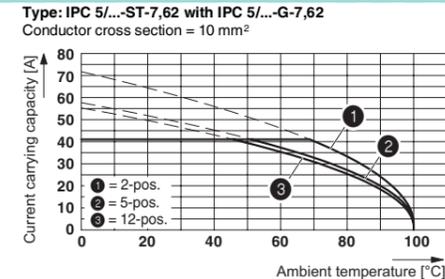
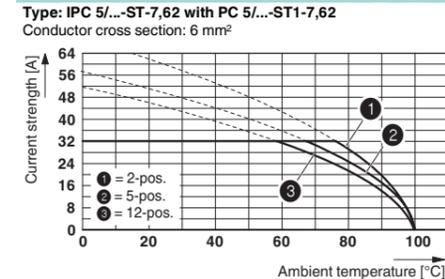
Dimensional drawing



Dimensional drawing



Representative derating curves of the above-mentioned plugs



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 41) / 10
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 7.62
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.2 - 10 / 0.2 - 6 / 24 - 10
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 6
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.2 - 2.5 / 0.2 - 4
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.25 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 41 41 -
Connection capacity AWG	AWG 24 - 8 24 - 8 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 10
Screw thread	M3
Tightening torque	[Nm] 0.7 - 0.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-ST-7,62	1709047	50
IPC 5/ 3-ST-7,62	1709050	50
IPC 5/ 4-ST-7,62	1709063	50
IPC 5/ 5-ST-7,62	1709076	50
IPC 5/ 6-ST-7,62	1709089	50
IPC 5/ 7-ST-7,62	1709092	50
IPC 5/ 8-ST-7,62	1709102	50
IPC 5/ 9-ST-7,62	1709115	50
IPC 5/10-ST-7,62	1709128	50
IPC 5/11-ST-7,62	1709131	50
IPC 5/12-ST-7,62	1709144	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-STF-7,62	1709157	50
IPC 5/ 3-STF-7,62	1709160	50
IPC 5/ 4-STF-7,62	1709173	50
IPC 5/ 5-STF-7,62	1709186	50
IPC 5/ 6-STF-7,62	1709199	50
IPC 5/ 7-STF-7,62	1709209	50
IPC 5/ 8-STF-7,62	1709212	50
IPC 5/ 9-STF-7,62	1709225	50
IPC 5/10-STF-7,62	1709238	50
IPC 5/11-STF-7,62	1709241	50
IPC 5/12-STF-7,62	1709254	50

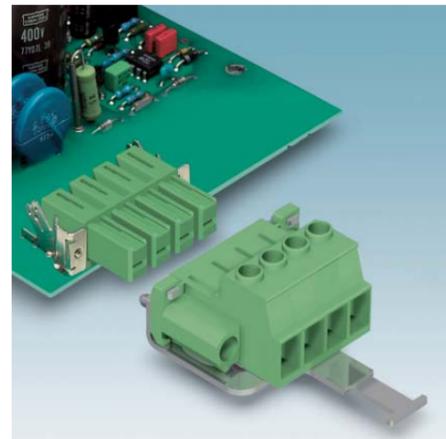
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-STGF-7,62	1709267	50
IPC 5/ 3-STGF-7,62	1709270	50
IPC 5/ 4-STGF-7,62	1709283	50
IPC 5/ 5-STGF-7,62	1709296	50
IPC 5/ 6-STGF-7,62	1709306	50
IPC 5/ 7-STGF-7,62	1709319	50
IPC 5/ 8-STGF-7,62	1709322	50
IPC 5/ 9-STGF-7,62	1709335	50
IPC 5/10-STGF-7,62	1709348	50
IPC 5/11-STGF-7,62	1709351	50
IPC 5/12-STGF-7,62	1709364	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-STGCL-7,62	1718261	50
IPC 5/ 3-STGCL-7,62	1718274	50
IPC 5/ 4-STGCL-7,62	1718287	50
IPC 5/ 5-STGCL-7,62	1718290	50
IPC 5/ 6-STGCL-7,62	1718300	50
IPC 5/ 7-STGCL-7,62	1718313	50
IPC 5/ 8-STGCL-7,62	1718326	50
IPC 5/ 9-STGCL-7,62	1718339	50
IPC 5/10-STGCL-7,62	1718342	50
IPC 5/11-STGCL-7,62	1718355	50
IPC 5/12-STGCL-7,62	1718368	50

Plugs with screw connection, pin/socket contact



- The SH versions provide a professional EMC shield for adherence to the EMC requirements and an optional strain relief
- Unrestricted 600-V-UL approval
- Can be plugged into PC 5 plugs or inverted IPC 5 headers
- Increased vibration protection for cable/cable connections thanks to screw-on STGF plugs

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

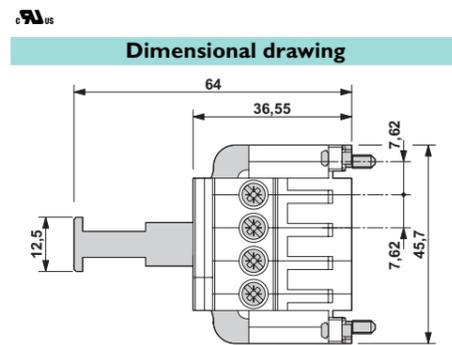


With screw flange and shield, 600 V UL approval

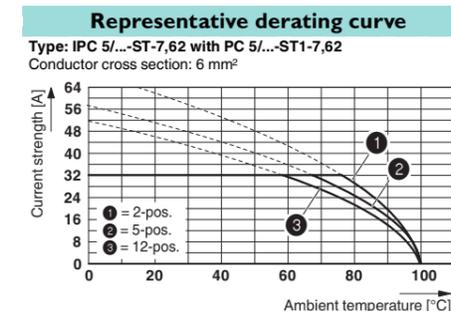
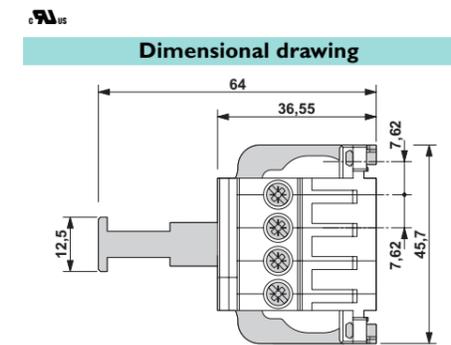


With threaded flange and shield, 600 V UL approval

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZK PZ 1 Order No. 1206450	
	Marker cards SK 7,62/3,8	799



Note derating curves
 Derating curves according to DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Number of positions = see diagram



Ordering data			
Type	Order No.	Pcs. / Pkt.	
IPC 5/ 4-STF-SH-7,62	1709380	50	

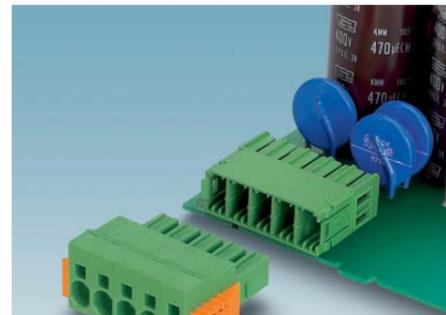
Ordering data			
Type	Order No.	Pcs. / Pkt.	
IPC 5/ 4-STGF-SH-7,62	1709377	50	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41 ¹⁾ / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.62
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 6
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 2.5 / 0.2 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.25 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	41 41 -
Connection capacity AWG	24 - 8 24 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Screw thread	M3
Tightening torque [Nm]	0.7 - 0.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Plugs with push-in spring connection, pin/socket contact



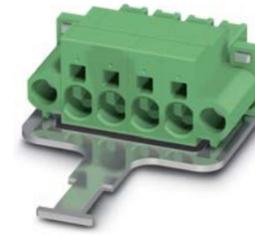
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval



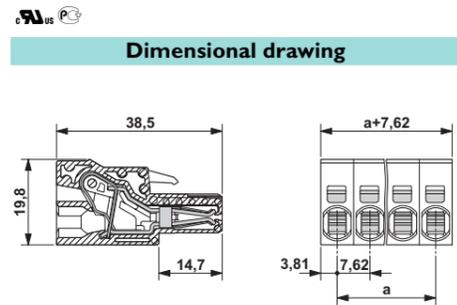
With screw flange and shield, 600 V UL approval



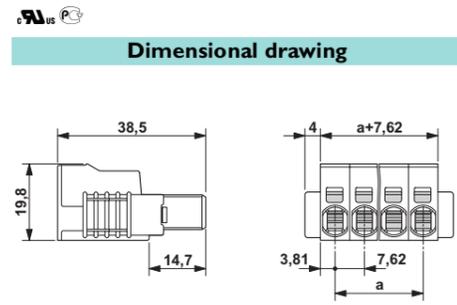
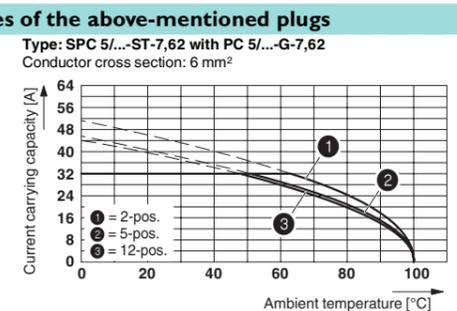
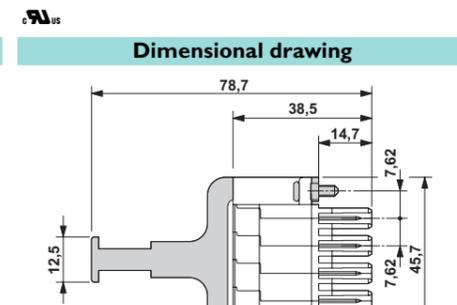
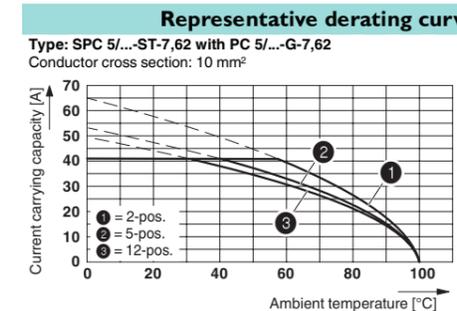
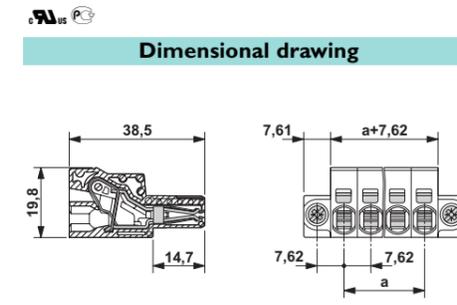
With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval

- Push-in spring connection with a current carrying capacity of 41 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- An automatic snap-on mechanism without tools with the Click and Lock system (-STCL); high degree of safety even in case of vibrations
- The SH versions provide a professional shield and an optional strain relief
- CP-PC RD keying profile

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 7,62/3,8	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Reduction factor = 0.8
 No. of positions: See diagram



Ordering data		
Type	Order No.	Pcs. / Pkt.
SPC 5/ 2-STCL-7,62	1718481	50
SPC 5/ 3-STCL-7,62	1718494	50
SPC 5/ 4-STCL-7,62	1718504	50
SPC 5/ 5-STCL-7,62	1718517	50
SPC 5/ 6-STCL-7,62	1718520	50
SPC 5/ 7-STCL-7,62	1718533	50
SPC 5/ 8-STCL-7,62	1718546	50
SPC 5/ 9-STCL-7,62	1718559	50
SPC 5/10-STCL-7,62	1718562	50
SPC 5/11-STCL-7,62	1718575	50
SPC 5/12-STCL-7,62	1718588	50

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41) / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8
Solid / stranded [mm ²]	0.25 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	- / -
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.25 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	35 35 -
Connection capacity AWG	24 - 8 24 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	15
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data		
No. of pos.	Dim. a [mm]	Type
2	7.62	SPC 5/ 2-ST-7,62
3	15.24	SPC 5/ 3-ST-7,62
4	22.86	SPC 5/ 4-ST-7,62
5	30.48	SPC 5/ 5-ST-7,62
6	38.10	SPC 5/ 6-ST-7,62
7	45.72	SPC 5/ 7-ST-7,62
8	53.34	SPC 5/ 8-ST-7,62
9	60.96	SPC 5/ 9-ST-7,62
10	68.58	SPC 5/10-ST-7,62
11	76.20	SPC 5/11-ST-7,62
12	83.82	SPC 5/12-ST-7,62

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
SPC 5/ 2-ST-7,62	1996016	50	
SPC 5/ 3-ST-7,62	1996029	50	
SPC 5/ 4-ST-7,62	1996032	50	
SPC 5/ 5-ST-7,62	1996045	50	
SPC 5/ 6-ST-7,62	1996058	50	
SPC 5/ 7-ST-7,62	1996061	50	
SPC 5/ 8-ST-7,62	1996074	50	
SPC 5/ 9-ST-7,62	1996087	50	
SPC 5/10-ST-7,62	1996090	50	
SPC 5/11-ST-7,62	1996100	50	
SPC 5/12-ST-7,62	1996113	50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
SPC 5/ 2-STF-7,62	1996126	50
SPC 5/ 3-STF-7,62	1996139	50
SPC 5/ 4-STF-7,62	1996142	50
SPC 5/ 5-STF-7,62	1996155	50
SPC 5/ 6-STF-7,62	1996168	50
SPC 5/ 7-STF-7,62	1996171	50
SPC 5/ 8-STF-7,62	1996184	50
SPC 5/ 9-STF-7,62	1996197	50
SPC 5/10-STF-7,62	1996207	50
SPC 5/11-STF-7,62	1996210	50
SPC 5/12-STF-7,62	1996223	50

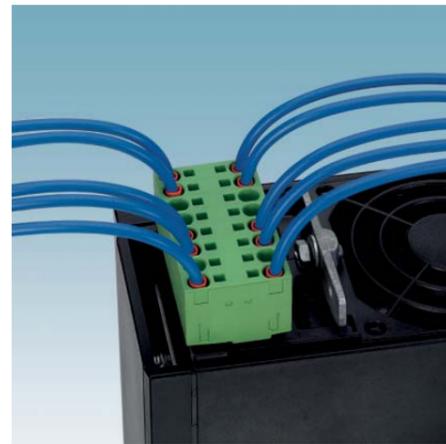
Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
SPC 5/ 4-STF-SH-7,62	1704071	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
SPC 5/ 2-STCL-7,62	1718481	50
SPC 5/ 3-STCL-7,62	1718494	50
SPC 5/ 4-STCL-7,62	1718504	50
SPC 5/ 5-STCL-7,62	1718517	50
SPC 5/ 6-STCL-7,62	1718520	50
SPC 5/ 7-STCL-7,62	1718533	50
SPC 5/ 8-STCL-7,62	1718546	50
SPC 5/ 9-STCL-7,62	1718559	50
SPC 5/10-STCL-7,62	1718562	50
SPC 5/11-STCL-7,62	1718575	50
SPC 5/12-STCL-7,62	1718588	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

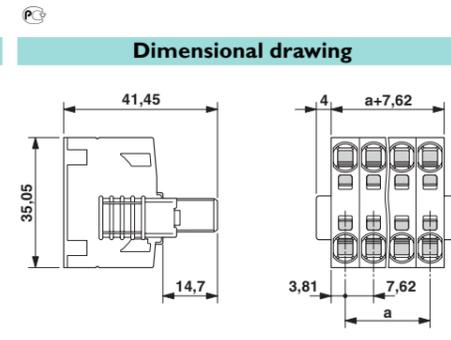
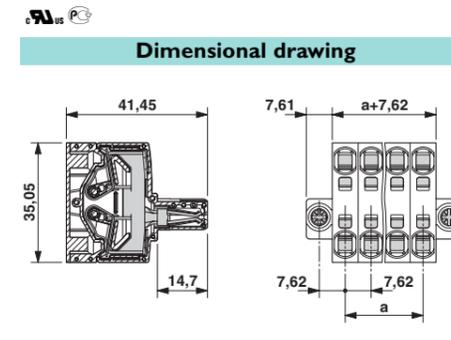
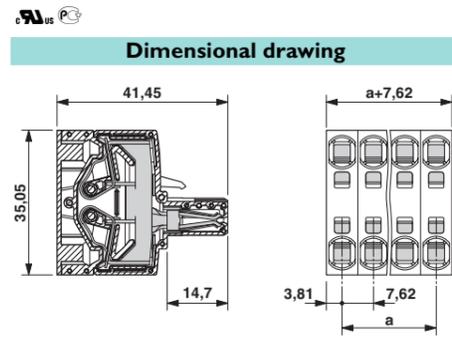
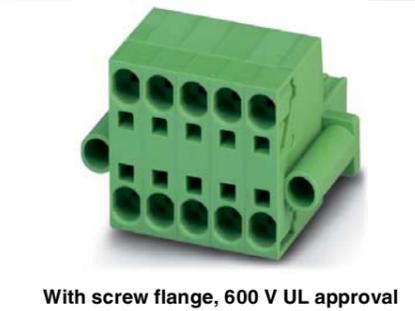
Plugs with push-in spring connection, pin/socket contact



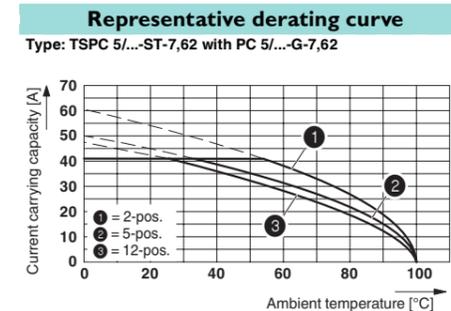
- Push-in spring connection with TWIN connection
- Simple potential distribution through two terminal points per contact
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- An automatic snap-on mechanism without tools with the Click and Lock system (-STCL); high degree of safety even in case of vibrations
- Further features: Screw flange (-STF)
- CP-PC RD keying profile

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 10 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41) / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 6
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	- / -
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.25 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	31 31 -
Connection capacity AWG	24 - 8 24 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	15
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
TSPC 5/ 2-ST-7,62	1728455	50	
TSPC 5/ 3-ST-7,62	1728468	50	
TSPC 5/ 4-ST-7,62	1728471	50	
TSPC 5/ 5-ST-7,62	1728484	50	
TSPC 5/ 6-ST-7,62	1728497	25	
TSPC 5/ 7-ST-7,62	1728507	25	
TSPC 5/ 8-ST-7,62	1728510	25	
TSPC 5/ 9-ST-7,62	1728523	25	
TSPC 5/10-ST-7,62	1728536	25	
TSPC 5/11-ST-7,62	1728549	25	
TSPC 5/12-ST-7,62	1728552	25	

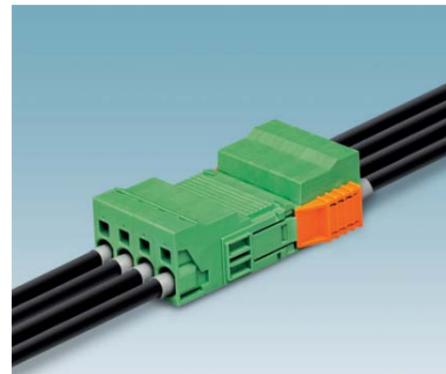
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
TSPC 5/ 2-STF-7,62	1728206	50	
TSPC 5/ 3-STF-7,62	1728219	50	
TSPC 5/ 4-STF-7,62	1728222	50	
TSPC 5/ 5-STF-7,62	1728235	50	
TSPC 5/ 6-STF-7,62	1728248	25	
TSPC 5/ 7-STF-7,62	1728251	25	
TSPC 5/ 8-STF-7,62	1728264	25	
TSPC 5/ 9-STF-7,62	1728277	25	
TSPC 5/10-STF-7,62	1728280	25	
TSPC 5/11-STF-7,62	1728293	25	
TSPC 5/12-STF-7,62	1728303	25	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
TSPC 5/ 2-STCL-7,62	1765418	10	
TSPC 5/ 3-STCL-7,62	1765421	10	
TSPC 5/ 4-STCL-7,62	1765434	10	
TSPC 5/ 5-STCL-7,62	1765447	10	
TSPC 5/ 6-STCL-7,62	1765450	10	
TSPC 5/ 7-STCL-7,62	1765463	10	
TSPC 5/ 8-STCL-7,62	1765476	10	
TSPC 5/ 9-STCL-7,62	1765489	10	
TSPC 5/10-STCL-7,62	1765492	10	
TSPC 5/11-STCL-7,62	1765502	10	
TSPC 5/12-STCL-7,62	1765515	10	

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

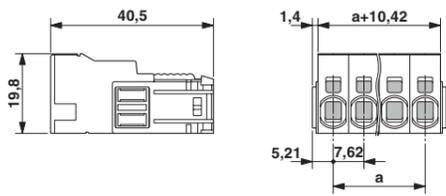
Plugs with push-in spring connection, pin/socket contact



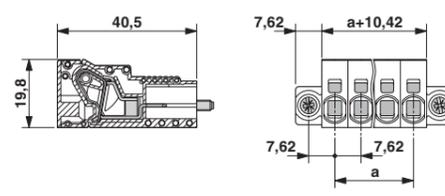
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



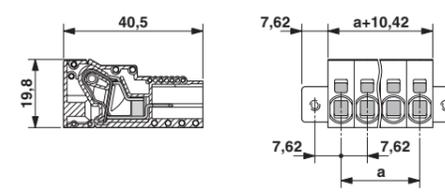
Dimensional drawing



Dimensional drawing



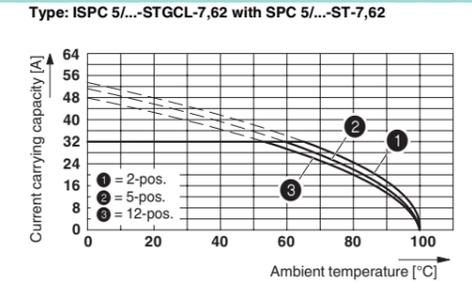
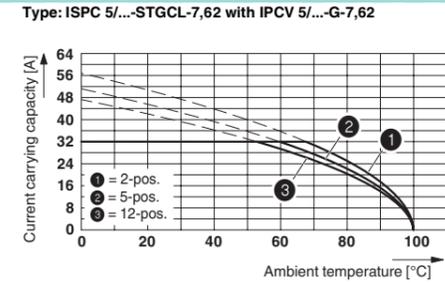
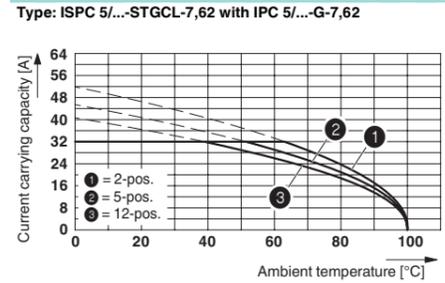
Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 6 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

Representative derating curves of the above-mentioned plugs



Accessories

For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 7,62/3,8	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

- Inverted ISPC 5 push-in spring connection plugs with pin contact for touch-proof device outputs (with IPC 5 G) or free-hanging cable/cable connections (with SPC 5 ST)
- Unrestricted 600-V-UL approval
- Increased vibration protection thanks to screw-on STF plug with screw flange
- STGF plug with threaded flange

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41) / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.62
Connection capacity [mm ²] / [mm ²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8
Solid / stranded [mm ²]	0.25 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.25 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	35 35 -
Connection capacity AWG	24 - 8 24 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	15
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	ISPC 5/ 2-STGCL-7,62	1748862	50
3	15.24	ISPC 5/ 3-STGCL-7,62	1748875	50
4	22.86	ISPC 5/ 4-STGCL-7,62	1748888	50
5	30.48	ISPC 5/ 5-STGCL-7,62	1748891	50
6	38.10	ISPC 5/ 6-STGCL-7,62	1748901	50
7	45.72	ISPC 5/ 7-STGCL-7,62	1748914	50
8	53.34	ISPC 5/ 8-STGCL-7,62	1748927	50
9	60.96	ISPC 5/ 9-STGCL-7,62	1748930	50
10	68.58	ISPC 5/10-STGCL-7,62	1748943	50
11	76.20	ISPC 5/11-STGCL-7,62	1748956	50
12	83.82	ISPC 5/12-STGCL-7,62	1748969	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
ISPC 5/ 2-STF-7,62	1748972	50
ISPC 5/ 3-STF-7,62	1748985	50
ISPC 5/ 4-STF-7,62	1748998	50
ISPC 5/ 5-STF-7,62	1749007	50
ISPC 5/ 6-STF-7,62	1749010	50
ISPC 5/ 7-STF-7,62	1749023	50
ISPC 5/ 8-STF-7,62	1749036	50
ISPC 5/ 9-STF-7,62	1749049	50
ISPC 5/10-STF-7,62	1749052	50
ISPC 5/11-STF-7,62	1749065	50
ISPC 5/12-STF-7,62	1749078	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
ISPC 5/ 2-STGF-7,62	1749201	50
ISPC 5/ 3-STGF-7,62	1749214	50
ISPC 5/ 4-STGF-7,62	1749227	50
ISPC 5/ 5-STGF-7,62	1749230	50
ISPC 5/ 6-STGF-7,62	1749243	50
ISPC 5/ 7-STGF-7,62	1749256	50
ISPC 5/ 8-STGF-7,62	1749269	50
ISPC 5/ 9-STGF-7,62	1749272	50
ISPC 5/10-STGF-7,62	1749285	50
ISPC 5/11-STGF-7,62	1749298	50
ISPC 5/12-STGF-7,62	1749308	50

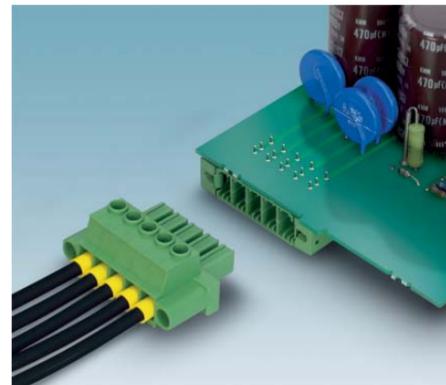
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
ISPC 5/ 2-STGF-7,62	1749201	50
ISPC 5/ 3-STGF-7,62	1749214	50
ISPC 5/ 4-STGF-7,62	1749227	50
ISPC 5/ 5-STGF-7,62	1749230	50
ISPC 5/ 6-STGF-7,62	1749243	50
ISPC 5/ 7-STGF-7,62	1749256	50
ISPC 5/ 8-STGF-7,62	1749269	50
ISPC 5/ 9-STGF-7,62	1749272	50
ISPC 5/10-STGF-7,62	1749285	50
ISPC 5/11-STGF-7,62	1749298	50
ISPC 5/12-STGF-7,62	1749308	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Headers with pin contact



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 Mounting screw for PC 5/...-GF-7,62 and PC 5/...-GFU-7,62: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

- PC 5 headers for use in combination with PC 5 plugs
- If the GU headers are used, the plug is rotated by 180° before fitting
- Vibration-resistant connection with a threaded flange (-GF; also for screw connection in the device)
- Compatible with the Click and Lock system
- Shroud PCB-SHIELD for a professional EMC shield connection
- CP-PC RD keying profile as protection against mismatching
- Suitable for 600 V UL when used in combination with PC 5 screw or spring-cage plugs

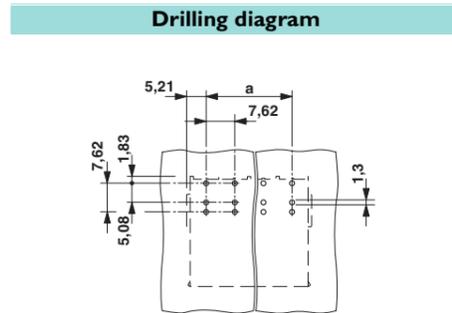
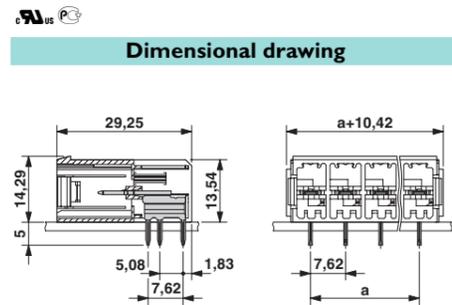
Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799
Only for PC 5/...-G-7,62 and PC 5/...-GU-7,62		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	41 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	630 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 150 300
Nominal current [A]	41 41 10
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0.8 x 1.0

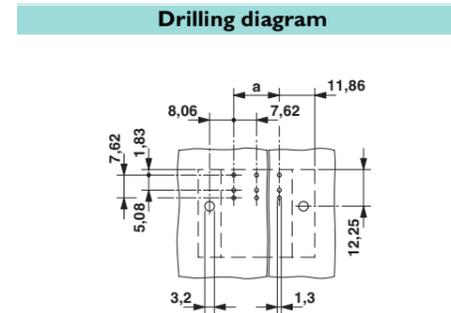
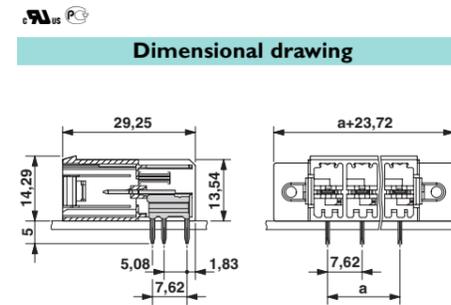
Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 7.62 mm, color: Green	
PC 5/ 2-G-7,62	1720466 50
PC 5/ 3-G-7,62	1720479 50
PC 5/ 4-G-7,62	1720482 50
PC 5/ 5-G-7,62	1720495 50
PC 5/ 6-G-7,62	1720505 50
PC 5/ 7-G-7,62	1720518 50
PC 5/ 8-G-7,62	1720521 50
PC 5/ 9-G-7,62	1720534 50
PC 5/10-G-7,62	1720547 50
PC 5/11-G-7,62	1720550 50
PC 5/12-G-7,62	1720563 50



Compatible with STCL plugs



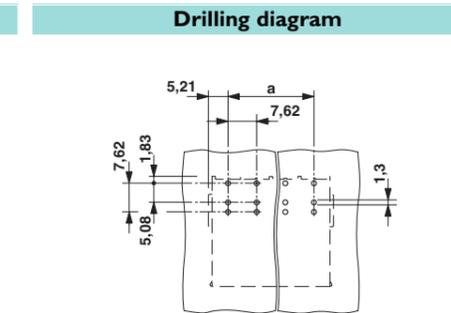
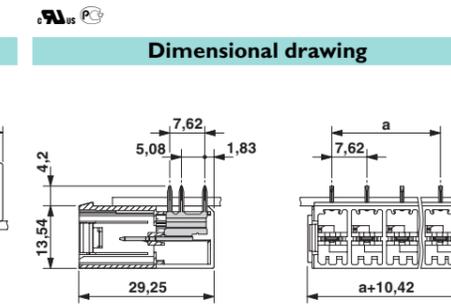
With threaded flange



Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 7.62 mm, color: Green	
PC 5/ 2-GF-7,62	1720796 50
PC 5/ 3-GF-7,62	1720806 50
PC 5/ 4-GF-7,62	1720819 50
PC 5/ 5-GF-7,62	1720822 50
PC 5/ 6-GF-7,62	1720835 50
PC 5/ 7-GF-7,62	1720848 50
PC 5/ 8-GF-7,62	1720851 50
PC 5/ 9-GF-7,62	1720864 50
PC 5/10-GF-7,62	1720877 50
PC 5/11-GF-7,62	1720880 50
PC 5/12-GF-7,62	1720893 50



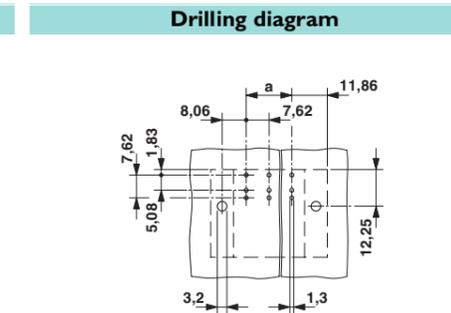
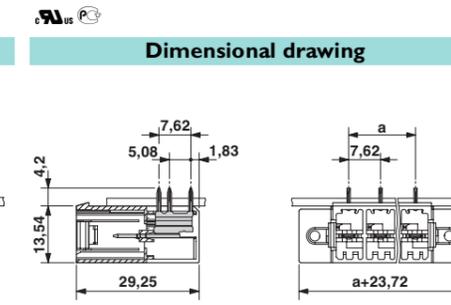
Rotated 180°, compatible with STCL plugs



Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 7.62 mm, color: Green	
PC 5/ 2-GU-7,62	1720686 50
PC 5/ 3-GU-7,62	1720699 50
PC 5/ 4-GU-7,62	1720709 50
PC 5/ 5-GU-7,62	1720712 50
PC 5/ 6-GU-7,62	1720725 50
PC 5/ 7-GU-7,62	1720738 50
PC 5/ 8-GU-7,62	1720741 50
PC 5/ 9-GU-7,62	1720754 50
PC 5/10-GU-7,62	1720767 50
PC 5/11-GU-7,62	1720770 50
PC 5/12-GU-7,62	1720783 50

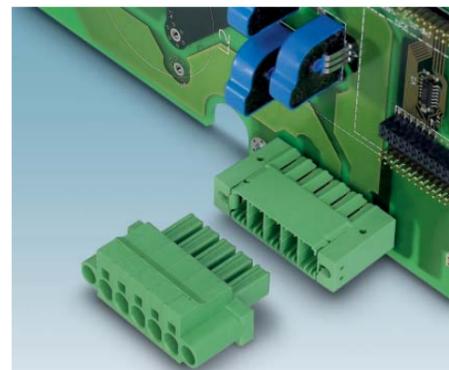


Rotated 180°, with threaded flange



Ordering data	
Type	Order No. Pcs. / Pkt.
Pitch 7.62 mm, color: Green	
PC 5/ 2-GFU-7,62	1721012 50
PC 5/ 3-GFU-7,62	1721025 50
PC 5/ 4-GFU-7,62	1721038 50
PC 5/ 5-GFU-7,62	1721041 50
PC 5/ 6-GFU-7,62	1721054 50
PC 5/ 7-GFU-7,62	1721067 50
PC 5/ 8-GFU-7,62	1721070 50
PC 5/ 9-GFU-7,62	1721083 50
PC 5/10-GFU-7,62	1721096 50
PC 5/11-GFU-7,62	1721106 50
PC 5/12-GFU-7,62	1721119 50

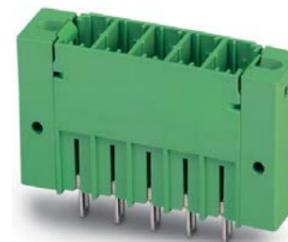
Headers with pin contact



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 Mounting screw for PCV 5/...-GF-7,62: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Compatible with STCL plugs



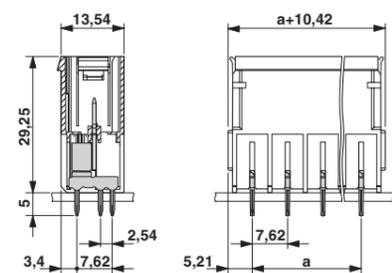
With threaded flange

- Vertical PC 5 headers for use in combination with PC 5 plugs
- Available with 2 to 12-pos.
- Vibration-resistant connection with a threaded flange (-GF; also for screw connection in the device)
- Compatible with the Click and Lock system
- Asymmetrical layout of solder pins to avoid incorrect plugging-in
- Suitable for 600 V UL when used in combination with PC 5 screw or spring-cage plugs

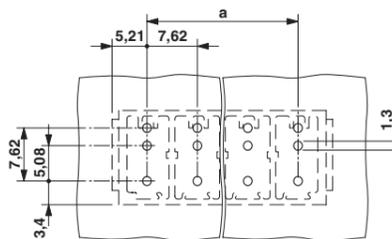
Accessories

For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799

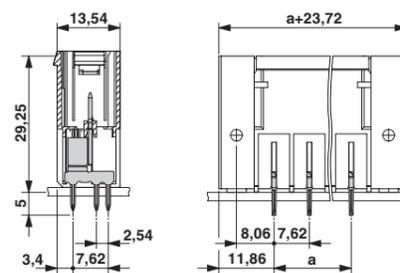
Dimensional drawing



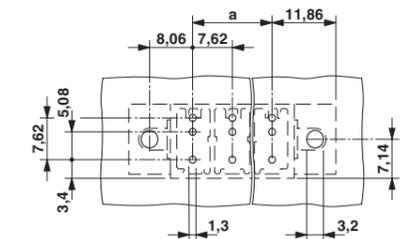
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCV 5/ 2-G-7,62	1720576	50
PCV 5/ 3-G-7,62	1720589	50
PCV 5/ 4-G-7,62	1720592	50
PCV 5/ 5-G-7,62	1720602	50
PCV 5/ 6-G-7,62	1720615	50
PCV 5/ 7-G-7,62	1720628	50
PCV 5/ 8-G-7,62	1720631	50
PCV 5/ 9-G-7,62	1720644	50
PCV 5/10-G-7,62	1720657	50
PCV 5/11-G-7,62	1720660	50
PCV 5/12-G-7,62	1720673	50

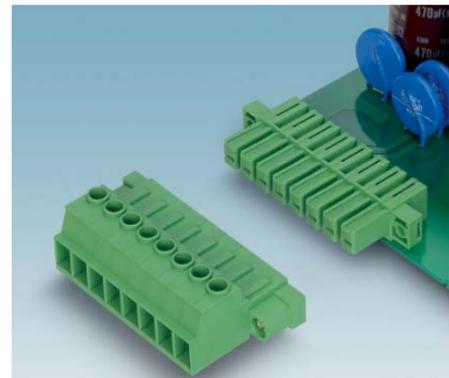
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCV 5/ 2-GF-7,62	1720903	50
PCV 5/ 3-GF-7,62	1720916	50
PCV 5/ 4-GF-7,62	1720929	50
PCV 5/ 5-GF-7,62	1720932	50
PCV 5/ 6-GF-7,62	1720945	50
PCV 5/ 7-GF-7,62	1720958	50
PCV 5/ 8-GF-7,62	1720961	50
PCV 5/ 9-GF-7,62	1720974	50
PCV 5/10-GF-7,62	1720987	50
PCV 5/11-GF-7,62	1720990	50
PCV 5/12-GF-7,62	1721009	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	41 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	630 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 150 300
Nominal current [A]	41 41 10
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 0.8 x 1.0

Headers with socket contact



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange



With threaded flange



Rotated 180°, without threaded flange

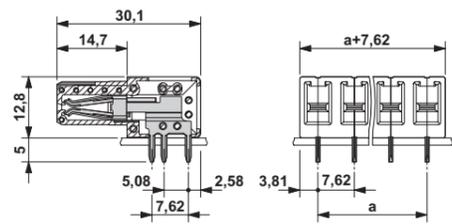


Rotated 180°, with threaded flange

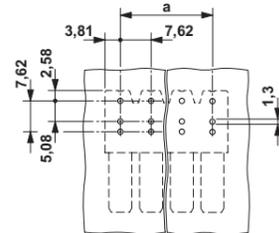
- An inverted IPC 5 header to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 5 base strips)
- Maximum contact safety thanks to an integrated double steel spring
- GU versions for a solder-in direction rotated by 180°
- Shroud PCB-SHIELD for a professional EMC shield connection
- Suitable for 600 V UL when used in combination with IPC 5 screw and spring-cage plugs

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799
Only for IPC 5/...-G-7,62 and IPC 5/...-GU-7,62		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	

Dimensional drawing



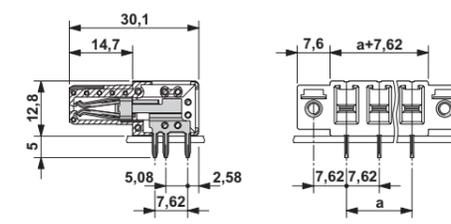
Drilling diagram



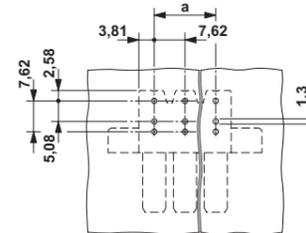
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-G-7,62	1708381	50
IPC 5/ 3-G-7,62	1708394	50
IPC 5/ 4-G-7,62	1708404	50
IPC 5/ 5-G-7,62	1708417	50
IPC 5/ 6-G-7,62	1708420	50
IPC 5/ 7-G-7,62	1708433	50
IPC 5/ 8-G-7,62	1708446	50
IPC 5/ 9-G-7,62	1708459	50
IPC 5/10-G-7,62	1708462	50
IPC 5/11-G-7,62	1708475	50
IPC 5/12-G-7,62	1708488	50

Dimensional drawing



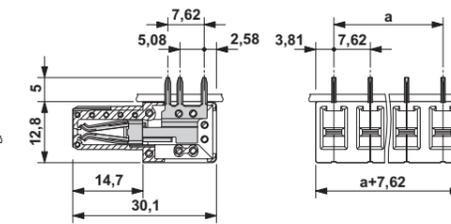
Drilling diagram



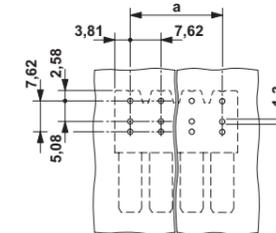
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-GF-7,62	1708491	50
IPC 5/ 3-GF-7,62	1708501	50
IPC 5/ 4-GF-7,62	1708514	50
IPC 5/ 5-GF-7,62	1708527	50
IPC 5/ 6-GF-7,62	1708530	50
IPC 5/ 7-GF-7,62	1708543	50
IPC 5/ 8-GF-7,62	1708556	50
IPC 5/ 9-GF-7,62	1708569	50
IPC 5/10-GF-7,62	1708572	50
IPC 5/11-GF-7,62	1708585	50
IPC 5/12-GF-7,62	1708598	50

Dimensional drawing



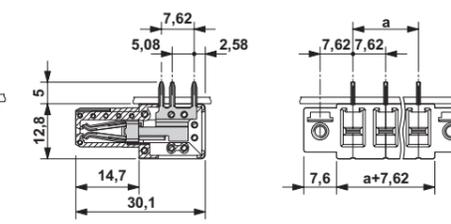
Drilling diagram



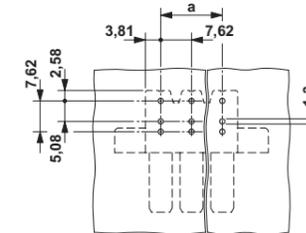
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-GU-7,62	1708608	50
IPC 5/ 3-GU-7,62	1708611	50
IPC 5/ 4-GU-7,62	1708624	50
IPC 5/ 5-GU-7,62	1708637	50
IPC 5/ 6-GU-7,62	1708640	50
IPC 5/ 7-GU-7,62	1708653	50
IPC 5/ 8-GU-7,62	1708666	50
IPC 5/ 9-GU-7,62	1708679	50
IPC 5/10-GU-7,62	1708682	50
IPC 5/11-GU-7,62	1708695	50
IPC 5/12-GU-7,62	1708705	50

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-GFU-7,62	1708718	50
IPC 5/ 3-GFU-7,62	1708721	50
IPC 5/ 4-GFU-7,62	1708734	50
IPC 5/ 5-GFU-7,62	1708747	50
IPC 5/ 6-GFU-7,62	1708750	50
IPC 5/ 7-GFU-7,62	1708763	50
IPC 5/ 8-GFU-7,62	1708776	50
IPC 5/ 9-GFU-7,62	1708789	50
IPC 5/10-GFU-7,62	1708792	50
IPC 5/11-GFU-7,62	1708802	50
IPC 5/12-GFU-7,62	1708815	50

Technical data

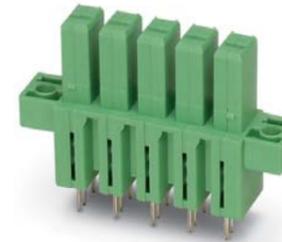
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 41 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 630 630 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 41 41 5
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.3 / 1,2 x 0,8

Headers with socket contact

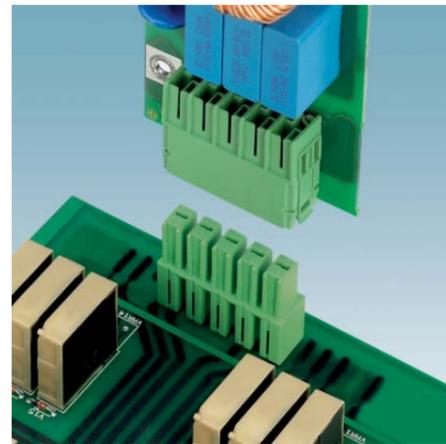
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange



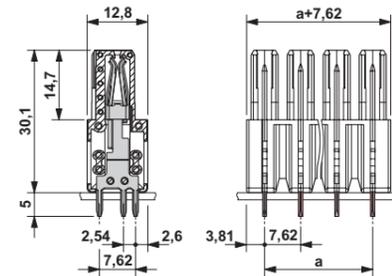
With threaded flange



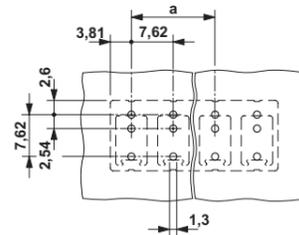
- An inverted IPC 5 header in a vertical design to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 5 base strips)
- Maximum contact safety thanks to an integrated double steel spring
- Asymmetrical layout of solder pins to avoid incorrect plugging-in
- Threaded flange -GF
- Suitable for 600 V UL when used in combination with IPC 5 screw and spring-cage plugs

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker cards SK 7,62/3,8	799

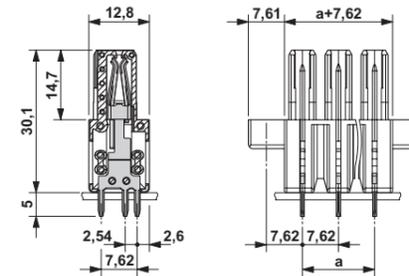
Dimensional drawing



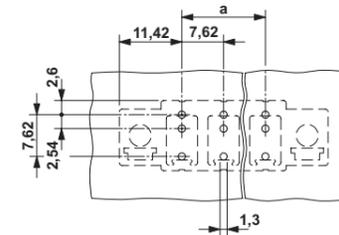
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-G-7,62	1708828	50
IPC 5/ 3-G-7,62	1708831	50
IPC 5/ 4-G-7,62	1708844	50
IPC 5/ 5-G-7,62	1708857	50
IPC 5/ 6-G-7,62	1708860	50
IPC 5/ 7-G-7,62	1708873	50
IPC 5/ 8-G-7,62	1708886	50
IPC 5/ 9-G-7,62	1708899	50
IPC 5/10-G-7,62	1708909	50
IPC 5/11-G-7,62	1708912	50
IPC 5/12-G-7,62	1708925	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-GF-7,62	1708938	50
IPC 5/ 3-GF-7,62	1708941	50
IPC 5/ 4-GF-7,62	1708954	50
IPC 5/ 5-GF-7,62	1708967	50
IPC 5/ 6-GF-7,62	1708970	50
IPC 5/ 7-GF-7,62	1708983	50
IPC 5/ 8-GF-7,62	1708996	50
IPC 5/ 9-GF-7,62	1709005	50
IPC 5/10-GF-7,62	1709018	50
IPC 5/11-GF-7,62	1709021	50
IPC 5/12-GF-7,62	1709034	50

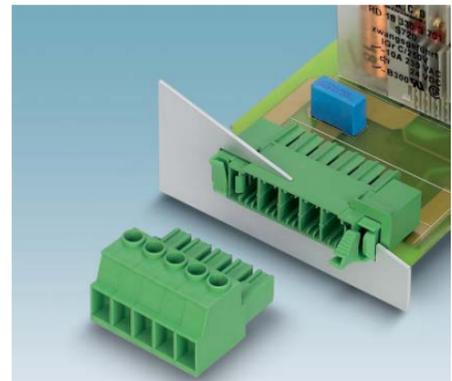
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	41 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	630
Pitch [mm]	7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	630 630 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 300 600
Nominal current [A]	41 41 5
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.3 / 1,2 x 0,8

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Feed-through header with a male contact



- Feed-through headers for use in combination with all PC 5 plugs
- To solder onto the PCB
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- If the GU headers are used, the plug is rotated by 180° before fitting
- Suitable for 600 V UL when used in combination with PC 5 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

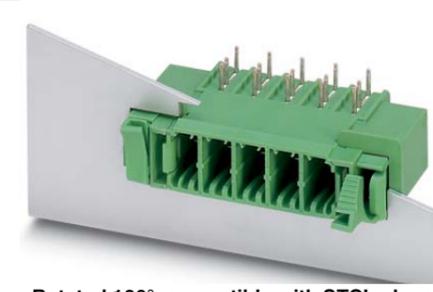
Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker cards SK 7,62/3,8	799



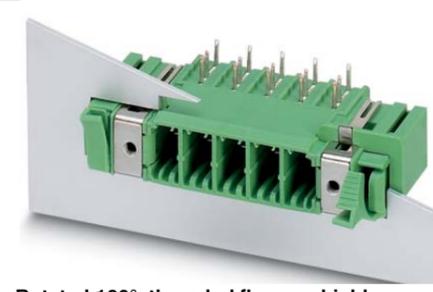
Compatible with STCL plugs



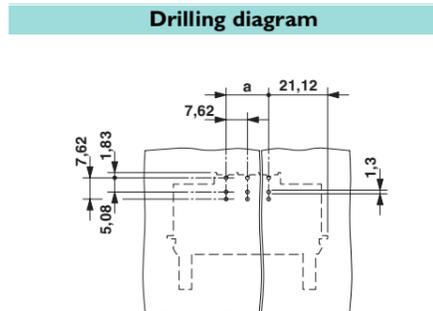
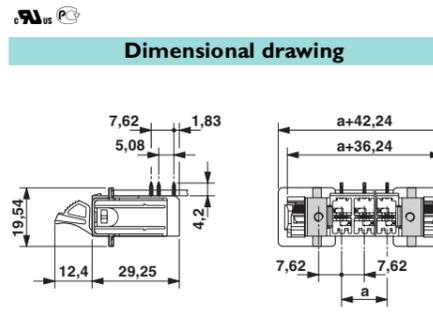
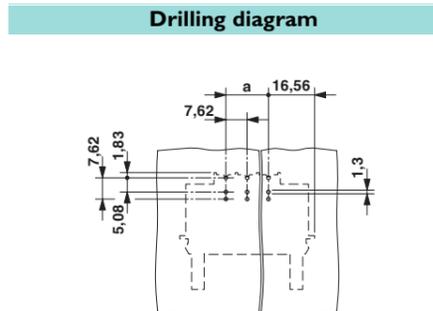
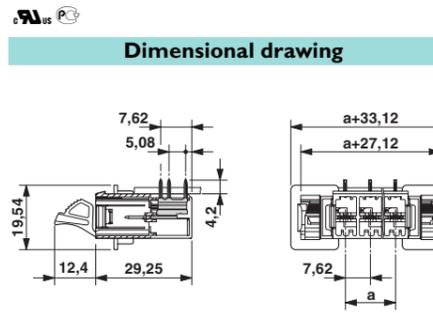
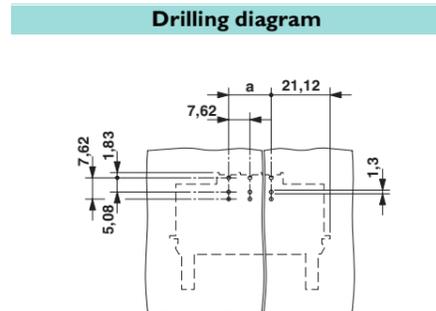
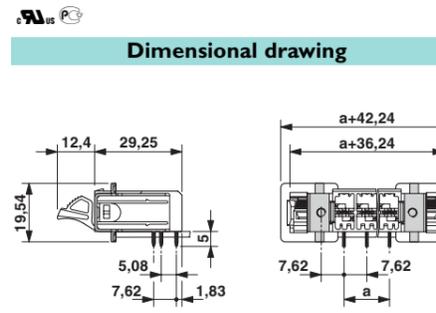
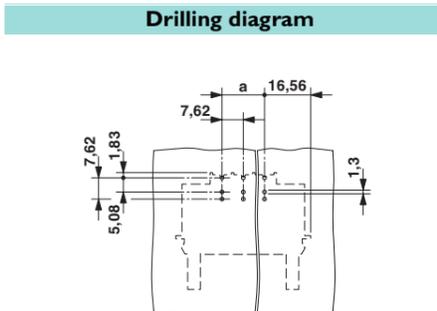
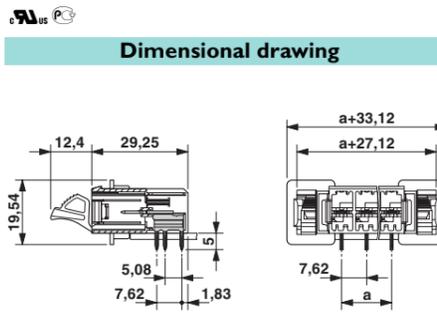
With threaded flange and shield connection on the front of the device



Rotated 180°, compatible with STCL plugs



Rotated 180°, threaded flange, shield connection on the front of the device



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 5/ 2-G-7,62	1727582	10	
DFK-PC 5/ 3-G-7,62	1727595	10	
DFK-PC 5/ 4-G-7,62	1727605	10	
DFK-PC 5/ 5-G-7,62	1727618	10	
DFK-PC 5/ 6-G-7,62	1727621	10	
DFK-PC 5/ 7-G-7,62	1727634	10	
DFK-PC 5/ 8-G-7,62	1727647	10	
DFK-PC 5/ 9-G-7,62	1727650	10	
DFK-PC 5/10-G-7,62	1727663	10	
DFK-PC 5/11-G-7,62	1727676	10	
DFK-PC 5/12-G-7,62	1727689	10	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 5/ 2-GF-7,62	1727692	10	
DFK-PC 5/ 3-GF-7,62	1727702	10	
DFK-PC 5/ 4-GF-7,62	1727715	10	
DFK-PC 5/ 5-GF-7,62	1727728	10	
DFK-PC 5/ 6-GF-7,62	1727731	10	
DFK-PC 5/ 7-GF-7,62	1727744	10	
DFK-PC 5/ 8-GF-7,62	1727757	10	
DFK-PC 5/ 9-GF-7,62	1727760	10	
DFK-PC 5/10-GF-7,62	1727773	10	
DFK-PC 5/11-GF-7,62	1727786	10	
DFK-PC 5/12-GF-7,62	1727799	10	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 5/ 2-GU-7,62	1727809	10	
DFK-PC 5/ 3-GU-7,62	1727812	10	
DFK-PC 5/ 4-GU-7,62	1727825	10	
DFK-PC 5/ 5-GU-7,62	1727838	10	
DFK-PC 5/ 6-GU-7,62	1727841	10	
DFK-PC 5/ 7-GU-7,62	1727854	10	
DFK-PC 5/ 8-GU-7,62	1727867	10	
DFK-PC 5/ 9-GU-7,62	1727870	10	
DFK-PC 5/10-GU-7,62	1727883	10	
DFK-PC 5/11-GU-7,62	1727896	10	
DFK-PC 5/12-GU-7,62	1727906	10	

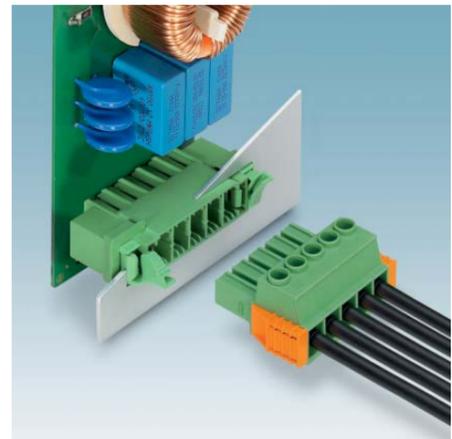
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 5/ 2-GFU-7,62	1727919	10	
DFK-PC 5/ 3-GFU-7,62	1727922	10	
DFK-PC 5/ 4-GFU-7,62	1727935	10	
DFK-PC 5/ 5-GFU-7,62	1727948	10	
DFK-PC 5/ 6-GFU-7,62	1727951	10	
DFK-PC 5/ 7-GFU-7,62	1727964	10	
DFK-PC 5/ 8-GFU-7,62	1727977	10	
DFK-PC 5/ 9-GFU-7,62	1727980	10	
DFK-PC 5/10-GFU-7,62	1727993	10	
DFK-PC 5/11-GFU-7,62	1728002	10	
DFK-PC 5/12-GFU-7,62	1716056	10	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 41 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 500 630 800
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 150 300
Nominal current	[A] 41 41 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.3 / 0.8 x 1.0

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

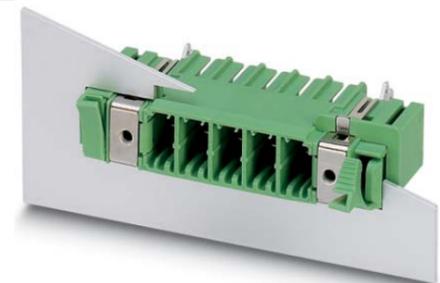
Feed-through header with a male contact



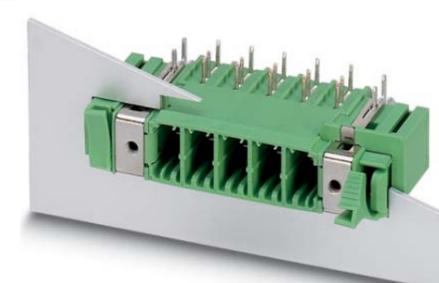
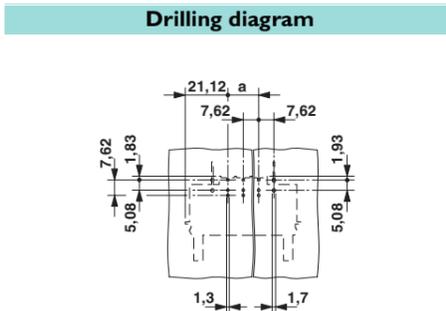
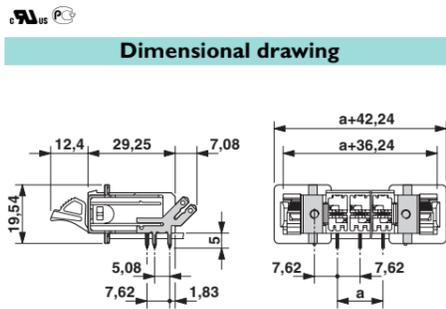
- Feed-through headers for use in combination with all PC 5 plugs
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with PC 5 screw or spring-cage plugs

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 The cutout dimensions and mounting options for the feed-through versions can be found on page 595.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

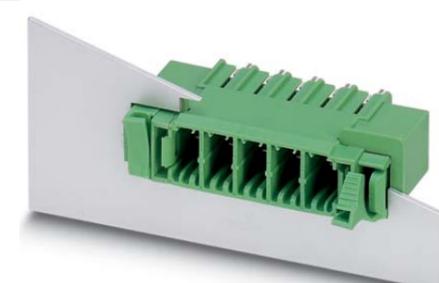
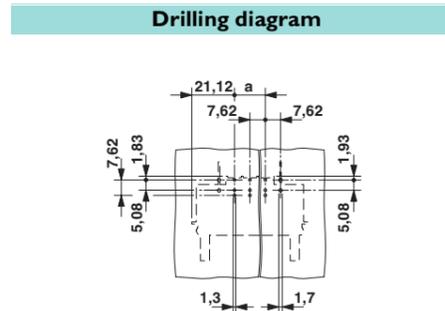
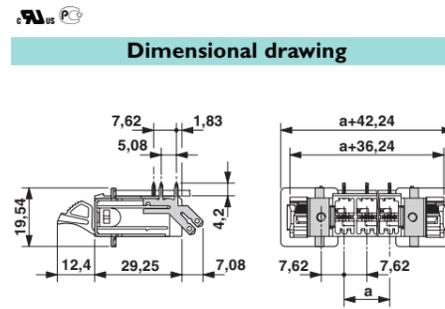
Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker cards SK 7,62/3,8	799



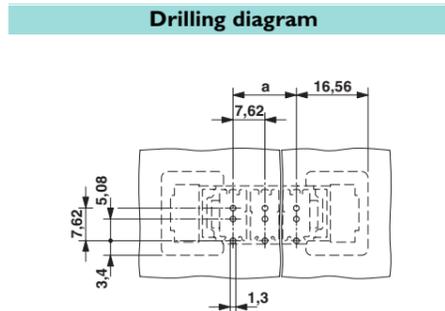
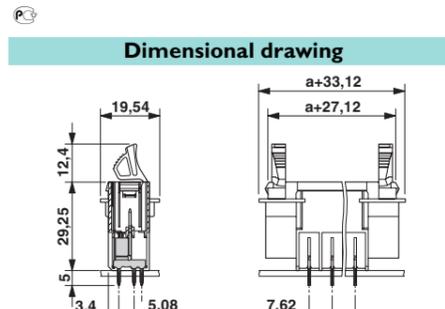
With threaded flange and shield feed-through on the inside of the device



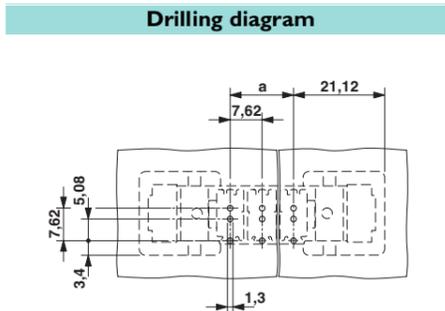
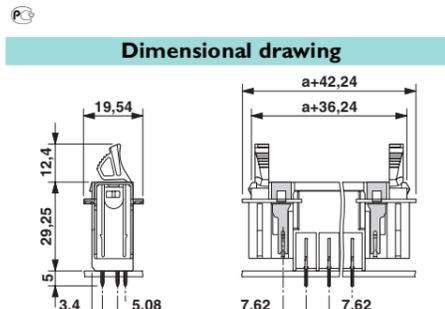
Rotated 180°, threaded flange, shield feed-through on the inside of the device



Vertical, compatible with STCL plugs



Vertical, threaded flange, shield connection on the front of the device



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 41 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 630
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 500 630 800
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 150 300
Nominal current	[A] 41 41 10
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.3 / 0.8 x 1.0

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 5/ 2-GF-SH-7,62	1716069	10	
DFK-PC 5/ 3-GF-SH-7,62	1716072	10	
DFK-PC 5/ 4-GF-SH-7,62	1716085	10	
DFK-PC 5/ 5-GF-SH-7,62	1716098	10	
DFK-PC 5/ 6-GF-SH-7,62	1716108	10	
DFK-PC 5/ 7-GF-SH-7,62	1716111	10	
DFK-PC 5/ 8-GF-SH-7,62	1716124	10	
DFK-PC 5/ 9-GF-SH-7,62	1716137	10	
DFK-PC 5/10-GF-SH-7,62	1716140	10	
DFK-PC 5/11-GF-SH-7,62	1716153	10	
DFK-PC 5/12-GF-SH-7,62	1716166	10	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PC 5/ 2-GFU-SH-7,62	1716179	10	
DFK-PC 5/ 3-GFU-SH-7,62	1716182	10	
DFK-PC 5/ 4-GFU-SH-7,62	1716195	10	
DFK-PC 5/ 5-GFU-SH-7,62	1716205	10	
DFK-PC 5/ 6-GFU-SH-7,62	1716218	10	
DFK-PC 5/ 7-GFU-SH-7,62	1716221	10	
DFK-PC 5/ 8-GFU-SH-7,62	1716234	10	
DFK-PC 5/ 9-GFU-SH-7,62	1716247	10	
DFK-PC 5/10-GFU-SH-7,62	1716250	10	
DFK-PC 5/11-GFU-SH-7,62	1716263	10	
DFK-PC 5/12-GFU-SH-7,62	1716276	10	

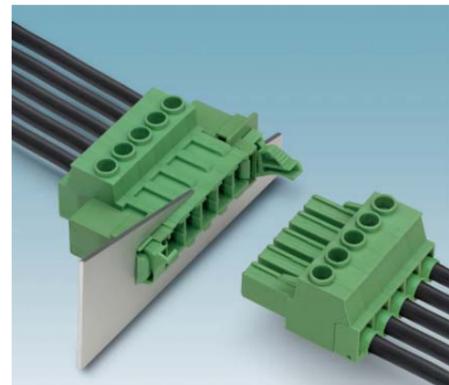
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PCV 5/ 2-G-7,62	1716289	10	
DFK-PCV 5/ 3-G-7,62	1716292	10	
DFK-PCV 5/ 4-G-7,62	1716302	10	
DFK-PCV 5/ 5-G-7,62	1716315	10	
DFK-PCV 5/ 6-G-7,62	1716328	10	
DFK-PCV 5/ 7-G-7,62	1716331	10	
DFK-PCV 5/ 8-G-7,62	1716344	10	
DFK-PCV 5/ 9-G-7,62	1716357	10	
DFK-PCV 5/10-G-7,62	1716360	10	
DFK-PCV 5/11-G-7,62	1716373	10	
DFK-PCV 5/12-G-7,62	1716386	10	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: Green			
DFK-PCV 5/ 2-GF-7,62	1716399	10	
DFK-PCV 5/ 3-GF-7,62	1716409	10	
DFK-PCV 5/ 4-GF-7,62	1716412	10	
DFK-PCV 5/ 5-GF-7,62	1716425	10	
DFK-PCV 5/ 6-GF-7,62	1716438	10	
DFK-PCV 5/ 7-GF-7,62	1716441	10	
DFK-PCV 5/ 8-GF-7,62	1716454	10	
DFK-PCV 5/ 9-GF-7,62	1716467	10	
DFK-PCV 5/10-GF-7,62	1716470	10	
DFK-PCV 5/11-GF-7,62	1716483	10	
DFK-PCV 5/12-GF-7,62	1716496	10	

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

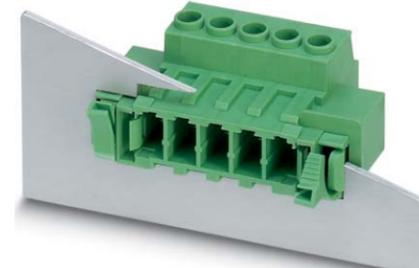
PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Feed-through header with a male contact



- Feed-through headers for use in combination with PC 5 plugs
- Screw connection for direct wiring on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device as well.

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.
 The cutout dimensions and mounting options for the feed-through versions can be found on page 595.
 1) Derating curves on request.



Compatible with STCL plugs, 600 V UL approval

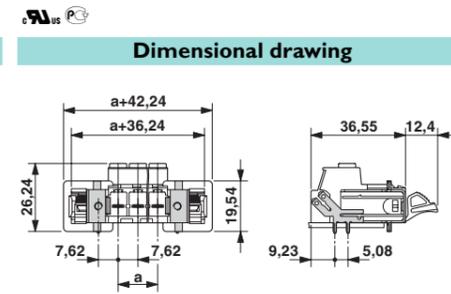
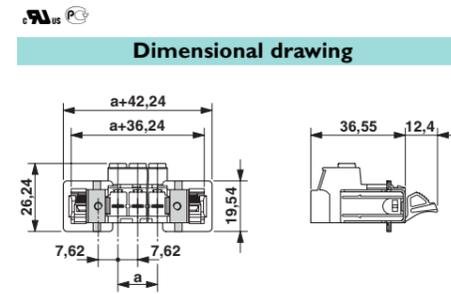
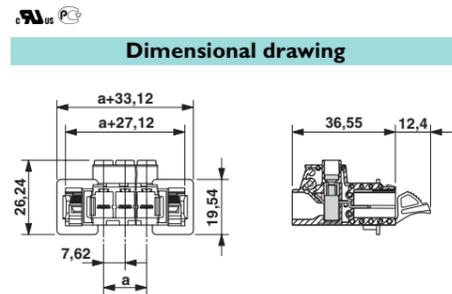


With threaded flange and shield connection on the front of the device, 600 V UL approval



With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker cards SK 7,62/3,8	799
	Screwdriver SZK PZ 1 Order No. 1206450	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41 ¹⁾ / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	7.62
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 6
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 2.5 / 0.2 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.25 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	41 41 -
Connection capacity AWG	24 - 8 24 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	10
Screw thread	M3
Tightening torque [Nm]	0.7 - 0.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data	
Type	Order No.
Pitch 7.62 mm, color: Green	
No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-ST-7,62	1716506	10
DFK-PC 5/ 3-ST-7,62	1716519	10
DFK-PC 5/ 4-ST-7,62	1716522	10
DFK-PC 5/ 5-ST-7,62	1716535	10
DFK-PC 5/ 6-ST-7,62	1716548	10
DFK-PC 5/ 7-ST-7,62	1716551	10
DFK-PC 5/ 8-ST-7,62	1716564	10
DFK-PC 5/ 9-ST-7,62	1716577	10
DFK-PC 5/10-ST-7,62	1716580	10
DFK-PC 5/11-ST-7,62	1716593	10
DFK-PC 5/12-ST-7,62	1716603	10

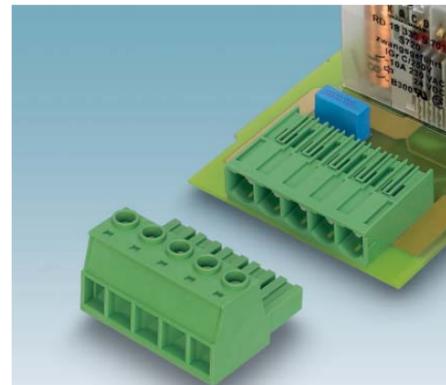
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-STF-7,62	1716616	10
DFK-PC 5/ 3-STF-7,62	1716629	10
DFK-PC 5/ 4-STF-7,62	1716632	10
DFK-PC 5/ 5-STF-7,62	1716645	10
DFK-PC 5/ 6-STF-7,62	1716658	10
DFK-PC 5/ 7-STF-7,62	1716661	10
DFK-PC 5/ 8-STF-7,62	1716674	10
DFK-PC 5/ 9-STF-7,62	1716687	10
DFK-PC 5/10-STF-7,62	1716690	10
DFK-PC 5/11-STF-7,62	1716700	10
DFK-PC 5/12-STF-7,62	1716713	10

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-STF-SH-7,62	1716726	10
DFK-PC 5/ 3-STF-SH-7,62	1716739	10
DFK-PC 5/ 4-STF-SH-7,62	1716742	10
DFK-PC 5/ 5-STF-SH-7,62	1716755	10
DFK-PC 5/ 6-STF-SH-7,62	1716768	10
DFK-PC 5/ 7-STF-SH-7,62	1716771	10
DFK-PC 5/ 8-STF-SH-7,62	1716784	10
DFK-PC 5/ 9-STF-SH-7,62	1716797	10
DFK-PC 5/10-STF-SH-7,62	1716807	10
DFK-PC 5/11-STF-SH-7,62	1716810	10
DFK-PC 5/12-STF-SH-7,62	1716823	10

PC 6 series plug-in connectors up to 41 A/6 mm², pitch 10.16 mm

PC 6 series plug-in connectors up to 41 A/6 mm², pitch 10.16 mm

Connector with a screw connection



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

- High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded/10 mm², solid
- Unrestricted 600-V-UL approval
- Contact safety thanks to integrated double steel spring and silver-plated surfaces
- Screw flange (-F) and shield (-SH)
- Can be plugged onto PC 6-16 headers
- CP-PC RD keying profile

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	



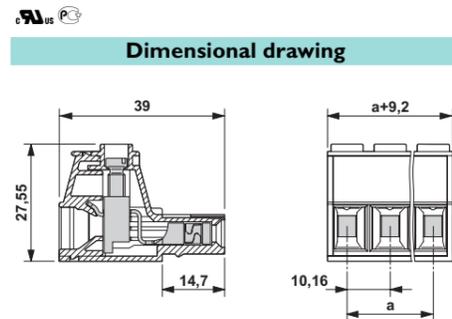
Without screw flange, 600 V UL approval



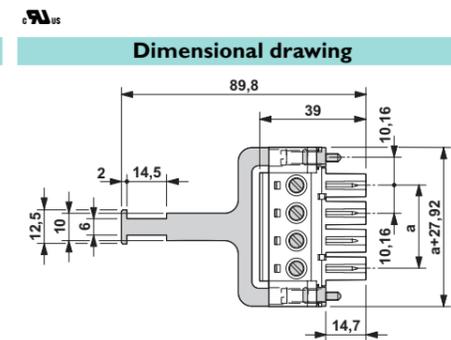
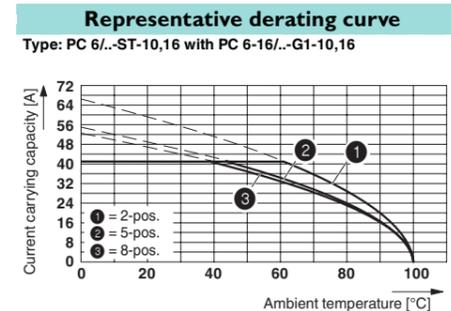
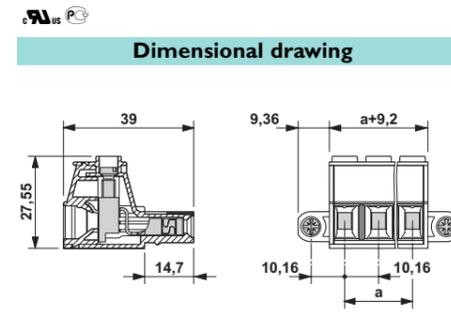
With screw flange, 600 V UL approval



With screw flange and shield, 600 V UL approval



Note derating curves
 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 6 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
PC 6/ 3-STF-SH-10,16	1973042	50
PC 6/ 4-STF-SH-10,16	1966431	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41) / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.75 - 10 / 0.75 - 6 / 18 - 8
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 6
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 6
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.75 - 4 / 0.75 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	50 50 -
Connection capacity AWG	20 - 8 20 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	12
Screw thread	M4
Tightening torque [Nm]	1.2 - 1.5
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 6/ 2-ST-10,16	1913507	50
PC 6/ 3-ST-10,16	1913510	50
PC 6/ 4-ST-10,16	1913523	50
PC 6/ 5-ST-10,16	1913536	50
PC 6/ 6-ST-10,16	1913549	50
PC 6/ 7-ST-10,16	1913552	50
PC 6/ 8-ST-10,16	1913565	50

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 6/ 2-STF-10,16	1913578	50
PC 6/ 3-STF-10,16	1913581	50
PC 6/ 4-STF-10,16	1913594	50
PC 6/ 5-STF-10,16	1913604	50
PC 6/ 6-STF-10,16	1913617	50
PC 6/ 7-STF-10,16	1913620	50
PC 6/ 8-STF-10,16	1913633	50

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 6/ 3-STF-SH-10,16	1973042	50
PC 6/ 4-STF-SH-10,16	1966431	50

Plugs for direct mounting with socket contact



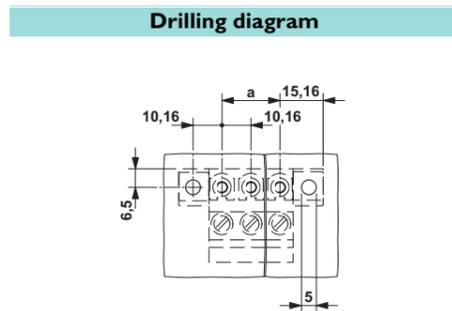
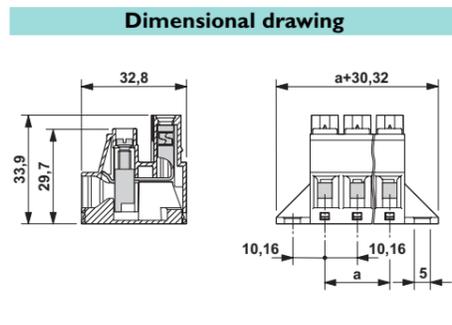
- Plug-in block for direct mounting with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded / 10 mm², solid
- Unrestricted 600-V-UL approval
- Easy-maintenance PCB connection (PC 6-16 G1) or inverted IPC 16 plugs
- Laterally mounted flange for screw connection in the housing / on the mounting plate

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Vertical plug-in direction, can be screwed on, 600 V UL approval

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Marker strips SK 5,0 WH-REEL Order No. 0805221	801
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	41 ¹⁾ / 10
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.5 - 10 / 0.5 - 6 / 20 - 7
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 6
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 6
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.5 - 6 / 0.5 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	50 50 -
Connection capacity AWG	20 - 8 20 - 8 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	12
Screw thread	M4
Tightening torque [Nm]	1.2 - 1.5
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

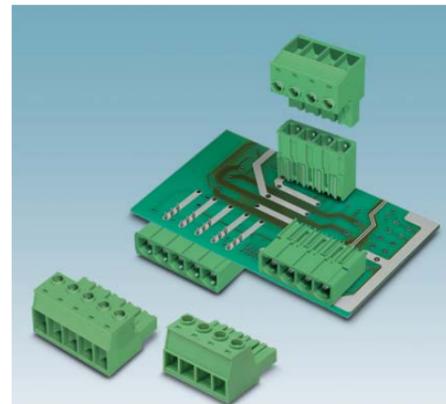
No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
PCU 6/ 2-STD-10,16	1922637	50	
PCU 6/ 3-STD-10,16	1922640	50	
PCU 6/ 4-STD-10,16	1922653	50	
PCU 6/ 5-STD-10,16	1922666	50	
PCU 6/ 6-STD-10,16	1922679	50	
PCU 6/ 7-STD-10,16	1922682	50	
PCU 6/ 8-STD-10,16	1922695	50	
PCU 6/ 9-STD-10,16	1922705	50	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Plugs with screw and spring connection



- High-capacity plugs with a current carrying capacity of 76 A and a connection capacity of 16 mm², stranded
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- Further features: Screw flange (-STF) and shield (-SH)
- Can be plugged into PC 6-16 headers and IPC 16 plugs
- CP-PC RD keying profile

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval

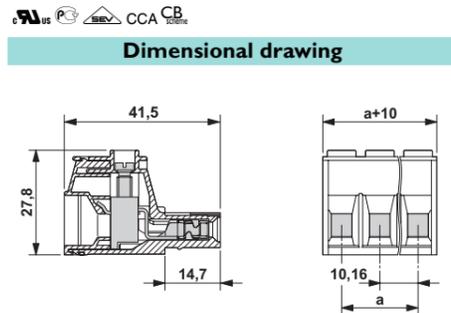


With screw flange, 600 V UL approval



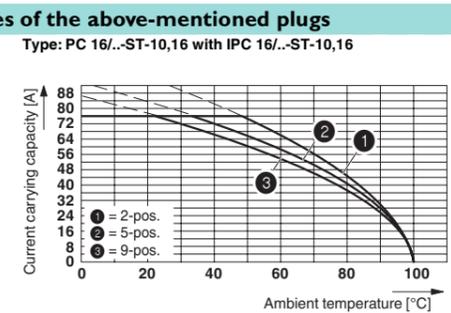
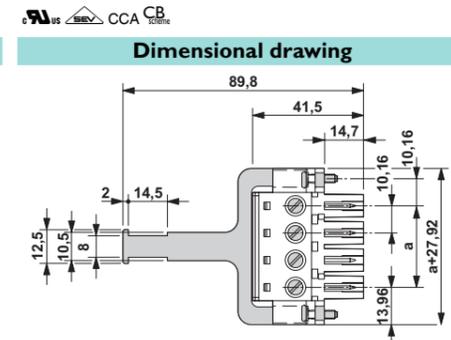
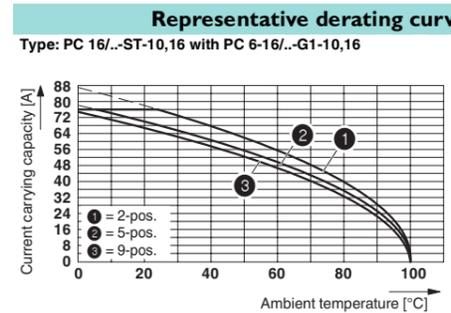
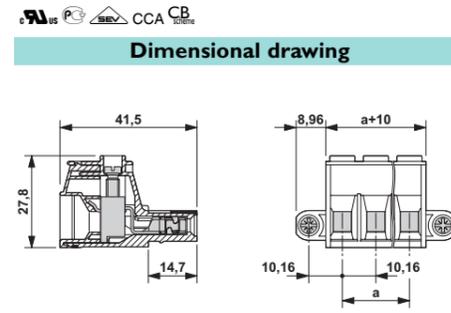
With screw flange and shield, 600 V UL approval

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid & multi-strand / stranded [mm ²] / [mm ²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 16
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded [mm ²]	0.75 - 6 / 0.75 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 4
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 6
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	55 55 -
Connection capacity AWG	20 - 6 20 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	12
Screw thread	M4
Tightening torque [Nm]	1.7 - 1.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

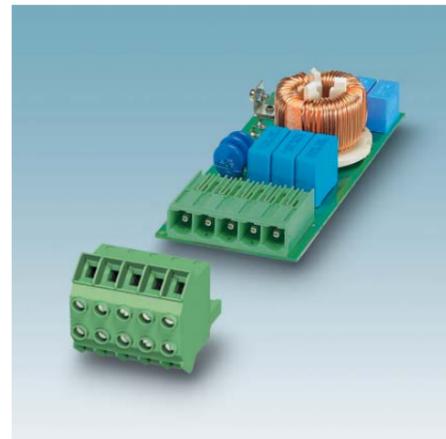
Ordering data	
No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
PC 16/ 2-ST-10,16	1967375	50	
PC 16/ 3-ST-10,16	1967388	50	
PC 16/ 4-ST-10,16	1967391	50	
PC 16/ 5-ST-10,16	1967401	50	
PC 16/ 6-ST-10,16	1967414	50	
PC 16/ 7-ST-10,16	1967427	50	
PC 16/ 8-ST-10,16	1967430	50	
PC 16/ 9-ST-10,16	1967443	50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 16/ 2-STF-10,16	1967456	50
PC 16/ 3-STF-10,16	1967469	50
PC 16/ 4-STF-10,16	1967472	50
PC 16/ 5-STF-10,16	1967485	50
PC 16/ 6-STF-10,16	1967498	50
PC 16/ 7-STF-10,16	1967508	50
PC 16/ 8-STF-10,16	1967511	50
PC 16/ 9-STF-10,16	1967524	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 16/ 3-STF-SH-10,16	1737530	50
PC 16/ 4-STF-SH-10,16	1970359	50

Plugs with screw and spring connection



- Plug with double connection and a current carrying capacity of 76 A
- Simple potential distribution through two terminal points per contact
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- CP-PC RD keying profile

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

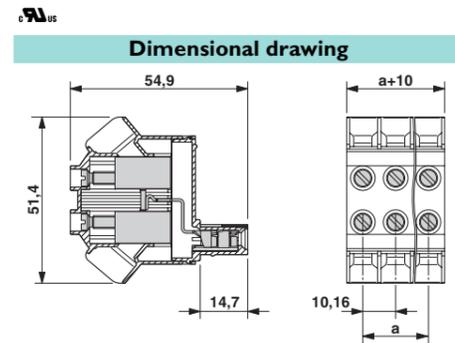
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

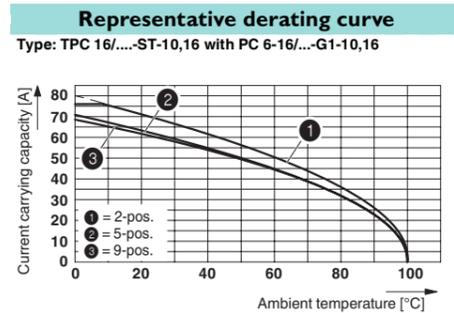
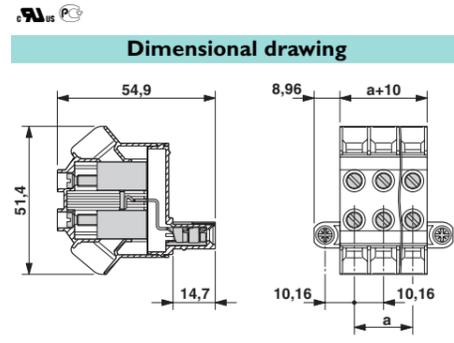


Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid & multi-strand / stranded [mm ²] / [mm ²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 16
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded [mm ²]	0.75 - 6 / 0.75 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 4
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 6
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	60 60 -
Connection capacity AWG	20 - 4 20 - 4 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	18
Screw thread	M4
Tightening torque [Nm]	1.7 - 1.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

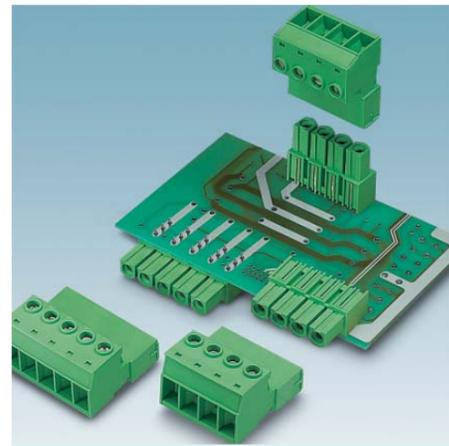
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
TPC 16/ 2-ST-10,16	1715170	20	
TPC 16/ 3-ST-10,16	1715183	20	
TPC 16/ 4-ST-10,16	1715196	20	
TPC 16/ 5-ST-10,16	1715206	20	
TPC 16/ 6-ST-10,16	1715219	20	
TPC 16/ 7-ST-10,16	1715222	20	
TPC 16/ 8-ST-10,16	1715235	20	
TPC 16/ 9-ST-10,16	1715248	20	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
TPC 16/ 2-STF-10,16	1715251	20	
TPC 16/ 3-STF-10,16	1715264	20	
TPC 16/ 4-STF-10,16	1715277	20	
TPC 16/ 5-STF-10,16	1715280	20	
TPC 16/ 6-STF-10,16	1715293	20	
TPC 16/ 7-STF-10,16	1715303	20	
TPC 16/ 8-STF-10,16	1715316	20	
TPC 16/ 9-STF-10,16	1715329	50	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Plugs with screw and spring connection



- Inverted IPC 16 plugs with pin contacts for touch-proof device outputs (with IPC 16 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into PC 16 plugs or inverted IPC 16 headers
- The SH versions provide a professional EMC shield and an optional strain relief

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval

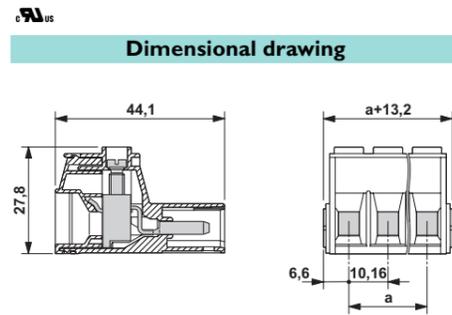


With screw flange, 600 V UL approval



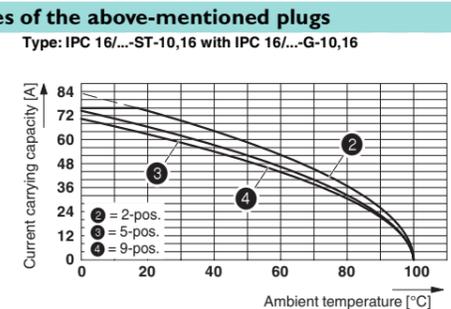
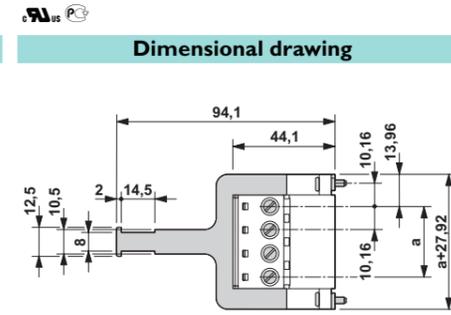
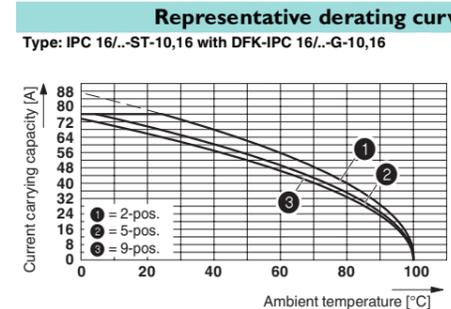
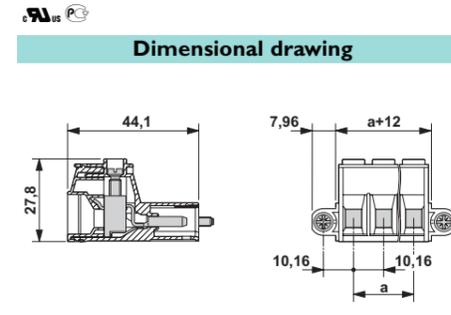
With screw flange and shield, 600 V UL approval

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG 0.75 - 16 / 0.75 - 16 / 18 - 6
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 16
Stranded with ferrules with plastic sleeve	[mm ²] 0.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded	[mm ²] 0.75 - 6 / 0.75 - 6
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 6
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 55 55 -
Connection capacity AWG	AWG 20 - 6 20 - 6 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 12
Screw thread	M4
Tightening torque	[Nm] 1.7 - 1.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

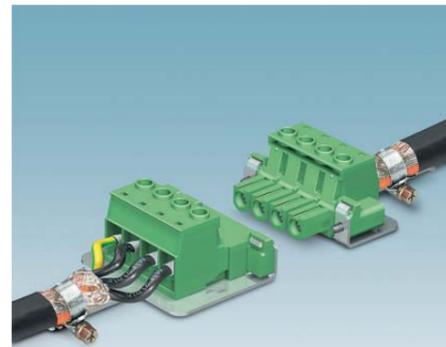
Ordering data	
Type	Order No.
Pitch 10.16 mm, color: Green	
IPC 16/ 2-ST-10,16	1969373
IPC 16/ 3-ST-10,16	1969386
IPC 16/ 4-ST-10,16	1969399
IPC 16/ 5-ST-10,16	1969409
IPC 16/ 6-ST-10,16	1969412
IPC 16/ 7-ST-10,16	1969425
IPC 16/ 8-ST-10,16	1969438
IPC 16/ 9-ST-10,16	1969441

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
IPC 16/ 2-ST-10,16	1969373	50	
IPC 16/ 3-ST-10,16	1969386	50	
IPC 16/ 4-ST-10,16	1969399	50	
IPC 16/ 5-ST-10,16	1969409	50	
IPC 16/ 6-ST-10,16	1969412	50	
IPC 16/ 7-ST-10,16	1969425	50	
IPC 16/ 8-ST-10,16	1969438	50	
IPC 16/ 9-ST-10,16	1969441	50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 2-STF-10,16	1969454	50
IPC 16/ 3-STF-10,16	1969467	50
IPC 16/ 4-STF-10,16	1969470	50
IPC 16/ 5-STF-10,16	1969483	50
IPC 16/ 6-STF-10,16	1969496	50
IPC 16/ 7-STF-10,16	1969506	50
IPC 16/ 8-STF-10,16	1969519	50
IPC 16/ 9-STF-10,16	1969522	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 3-STF-SH-10,16	1737323	50
IPC 16/ 4-STF-SH-10,16	1970346	50
IPC 16/ 7-STF-SH-10,16	1737336	50

Plugs with screw and spring connection



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.
 When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



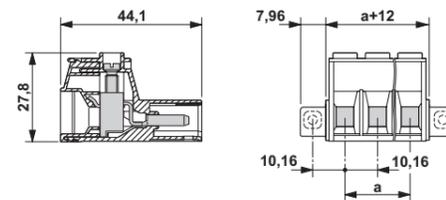
With threaded flange, 600 V UL approval



With threaded flange and shield, 600 V UL approval



Dimensional drawing

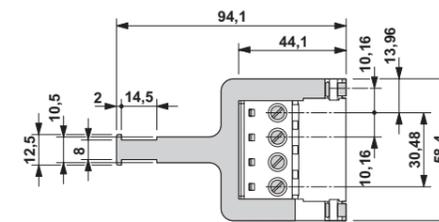


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 16 mm²
 Reduction factor = 0.8
 Number of positions = see diagram

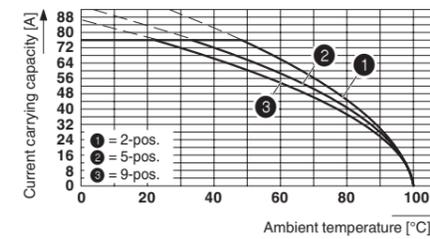


Dimensional drawing



Representative derating curve

Type: PC 16/..-ST-10,16 with IPC 16/..-ST-10,16



Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 10.16 mm, color: Green		
2	10.16	IPC 16/ 2-STGF-10,16	1975817	50
3	20.32	IPC 16/ 3-STGF-10,16	1975820	50
4	30.48	IPC 16/ 4-STGF-10,16	1975833	50
5	40.64	IPC 16/ 5-STGF-10,16	1975846	50
6	50.80	IPC 16/ 6-STGF-10,16	1975859	50
7	60.96	IPC 16/ 7-STGF-10,16	1975862	50
8	71.12	IPC 16/ 8-STGF-10,16	1975875	50
9	81.28	IPC 16/ 9-STGF-10,16	1975888	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 4-STGF-SH-10,16	1975891	50

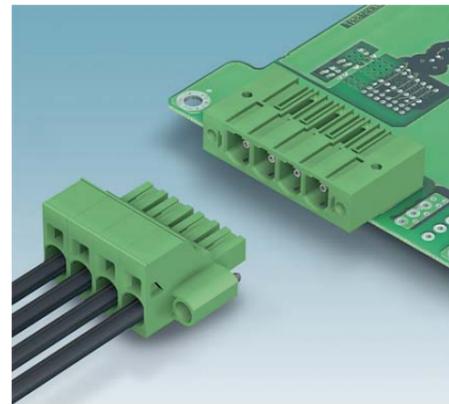
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]	76 ¹⁾ / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrules without plastic sleeve	[mm ²]	0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm ²]	0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm ²]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm ²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	55	55	-
Connection capacity AWG	AWG	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.7 - 1.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Plugs with screw and spring connection



- Push-in spring connection plug with a current carrying capacity of 76 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- The SH versions provide a professional shield and an optional strain relief
- CP-PC RD keying profile

Notes:

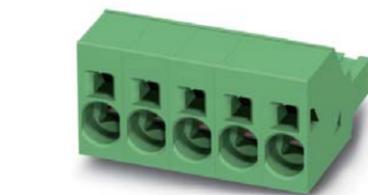
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

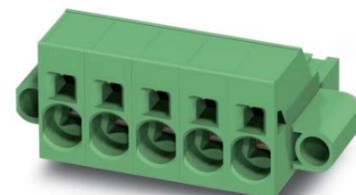
When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	



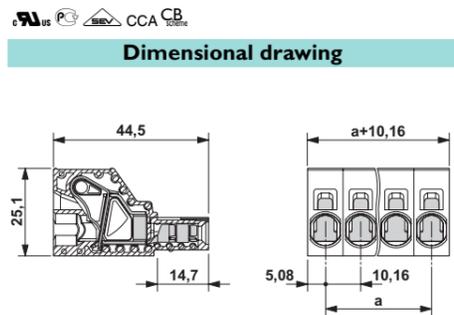
Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval

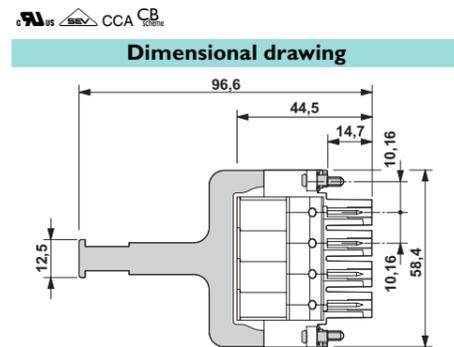
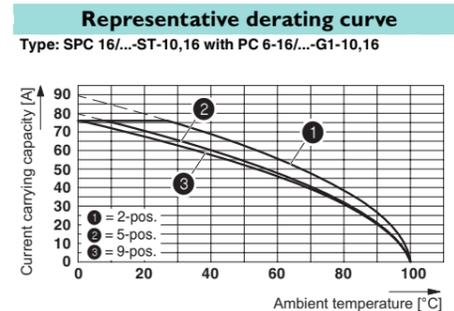
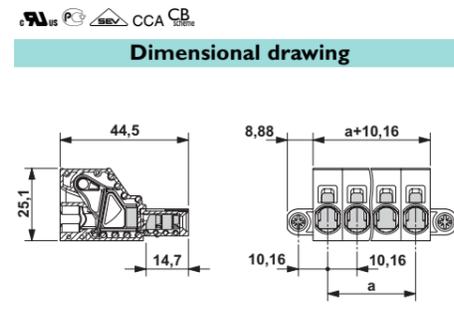


With screw flange and shield, 600 V UL approval



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG 0.75 - 16 / 0.75 - 16 / 18 - 4
Stranded with ferrules without plastic sleeve	[mm ²] 0.75 - 16
Stranded with ferrules with plastic sleeve	[mm ²] 0.75 - 10
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded	[mm ²] - / -
Stranded with ferrules without plastic sleeve	[mm ²] -
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.75 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 66 66 -
Connection capacity AWG	20 - 4 20 - 4 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 18
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data		
No. of pos.	Dim. a [mm]	Type
2	10.16	SPC 16/ 2-ST-10,16
3	20.32	SPC 16/ 3-ST-10,16
4	30.48	SPC 16/ 4-ST-10,16
5	40.64	SPC 16/ 5-ST-10,16
6	50.80	SPC 16/ 6-ST-10,16
7	60.96	SPC 16/ 7-ST-10,16
8	71.12	SPC 16/ 8-ST-10,16
9	81.28	SPC 16/ 9-ST-10,16

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
SPC 16/ 2-ST-10,16	1711268	50	
SPC 16/ 3-ST-10,16	1711271	50	
SPC 16/ 4-ST-10,16	1711284	50	
SPC 16/ 5-ST-10,16	1711297	50	
SPC 16/ 6-ST-10,16	1711307	50	
SPC 16/ 7-ST-10,16	1711310	50	
SPC 16/ 8-ST-10,16	1711323	50	
SPC 16/ 9-ST-10,16	1711336	50	

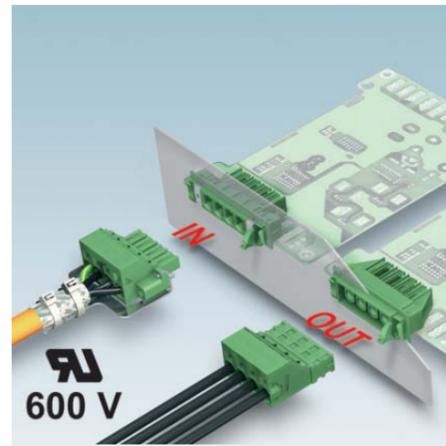
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
SPC 16/ 2-STF-10,16	1711378	50	
SPC 16/ 3-STF-10,16	1711381	50	
SPC 16/ 4-STF-10,16	1711394	50	
SPC 16/ 5-STF-10,16	1711404	50	
SPC 16/ 6-STF-10,16	1711417	50	
SPC 16/ 7-STF-10,16	1711420	50	
SPC 16/ 8-STF-10,16	1711433	50	
SPC 16/ 9-STF-10,16	1711446	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
SPC 16/ 4-STF-SH-10,16	1711488	50	

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Plugs with screw and spring connection



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.
 When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



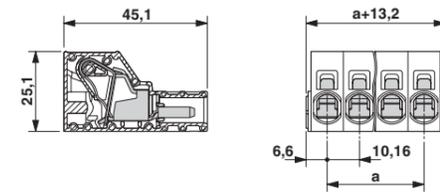
With screw flange, 600 V UL approval



With threaded flange, 600 V UL approval



Dimensional drawing

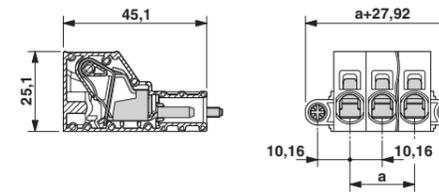


Note derating curves

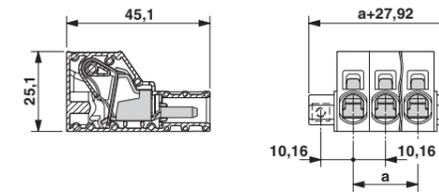
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
 Representation based on DIN EN 60512-5-2:2003-01
 Connected conductor cross section = 16 mm²
 Reduction factor = 0.8
 Number of positions = see diagram



Dimensional drawing

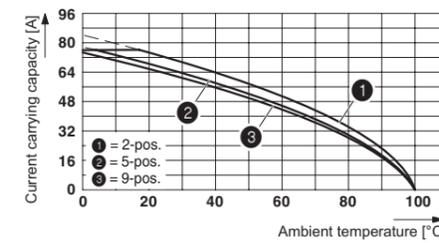


Dimensional drawing

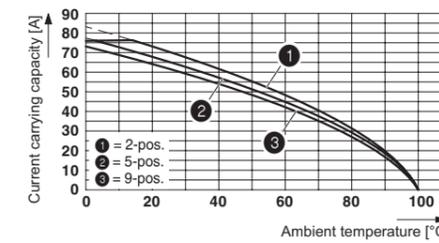


Representative derating curves of the above-mentioned plugs

Type: ISPC 16/...-ST-10,16 with IPC 16/...-G-10,16



Type: ISPC 16/...-ST-10,16 with SPC 16/...-ST-10,16



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid & multi-strand / stranded [mm ²] / [mm ²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 4
Stranded with ferrules without plastic sleeve [mm ²]	0.75 - 16
Stranded with ferrules with plastic sleeve [mm ²]	0.75 - 10
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.75 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	66 66 -
Connection capacity AWG	20 - 4 20 - 4 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	18
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
ISPC 16/ 2-ST-10,16	1748545	50
ISPC 16/ 3-ST-10,16	1748558	50
ISPC 16/ 4-ST-10,16	1748561	50
ISPC 16/ 5-ST-10,16	1748574	50
ISPC 16/ 6-ST-10,16	1748587	50
ISPC 16/ 7-ST-10,16	1748590	50
ISPC 16/ 8-ST-10,16	1748600	50
ISPC 16/ 9-ST-10,16	1748613	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
ISPC 16/ 2-STF-10,16	1748626	50
ISPC 16/ 3-STF-10,16	1748639	50
ISPC 16/ 4-STF-10,16	1748642	50
ISPC 16/ 5-STF-10,16	1748655	50
ISPC 16/ 6-STF-10,16	1748668	50
ISPC 16/ 7-STF-10,16	1748671	50
ISPC 16/ 8-STF-10,16	1748684	50
ISPC 16/ 9-STF-10,16	1748697	50

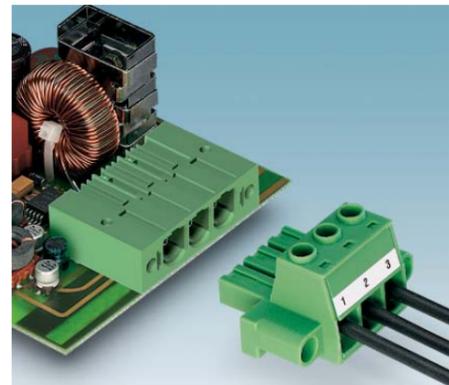
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
ISPC 16/ 2-STGF-10,16	1748707	50
ISPC 16/ 3-STGF-10,16	1748710	50
ISPC 16/ 4-STGF-10,16	1748723	50
ISPC 16/ 5-STGF-10,16	1748736	50
ISPC 16/ 6-STGF-10,16	1748749	50
ISPC 16/ 7-STGF-10,16	1748752	50
ISPC 16/ 8-STGF-10,16	1748765	50
ISPC 16/ 9-STGF-10,16	1748778	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Headers with pin contact



- PC 6-16 headers for use in combination with all PC 6 and PC 16 plugs
- PCB-PCB connections by using IPC 16 headers
- G1U versions for a solder-in direction rotated by 180°
- Shroud PCB-SHIELD for a professional EMC shield connection
- Threaded flange G1F (also for screw connection on the PCB or in the device)
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

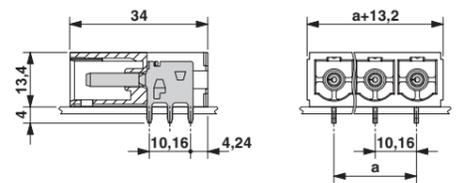
Mounting screw for PC-6-16/...-G1F-10,16 and PC-6-16/...-G1FU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

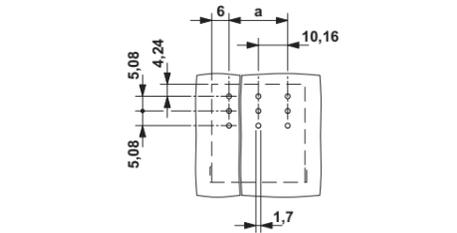
Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
Only for PC 6-16/...-G1(U)-10,16		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	

UL US PC CCA CB

Dimensional drawing



Drilling diagram



Ordering data

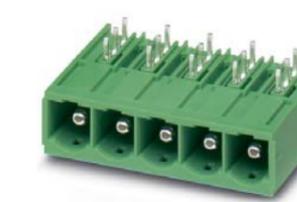
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6-16/ 2-G1-10,16	1998933	50
PC 6-16/ 3-G1-10,16	1998946	50
PC 6-16/ 4-G1-10,16	1998959	50
PC 6-16/ 5-G1-10,16	1998962	50
PC 6-16/ 6-G1-10,16	1998975	50
PC 6-16/ 7-G1-10,16	1998988	50
PC 6-16/ 8-G1-10,16	1998991	50
PC 6-16/ 9-G1-10,16	1996391	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

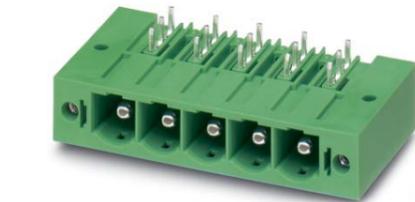
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



With threaded flange



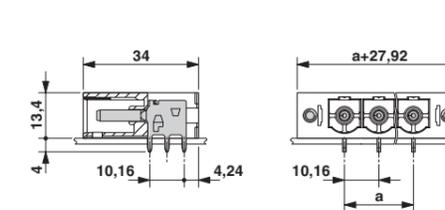
Rotated 180°, without threaded flange



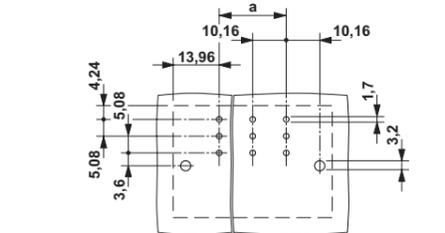
Rotated 180°, with threaded flange

UL US PC CCA CB

Dimensional drawing



Drilling diagram

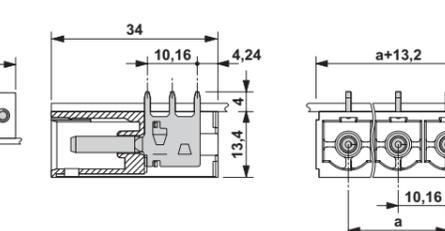


Ordering data

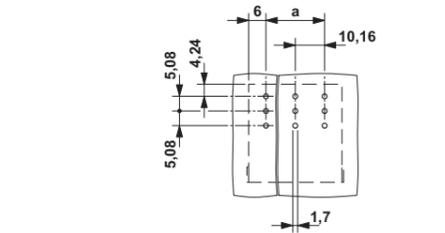
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6-16/ 2-G1F-10,16	1999000	50
PC 6-16/ 3-G1F-10,16	1999013	50
PC 6-16/ 4-G1F-10,16	1999026	50
PC 6-16/ 5-G1F-10,16	1999039	50
PC 6-16/ 6-G1F-10,16	1999042	50
PC 6-16/ 7-G1F-10,16	1999055	50
PC 6-16/ 8-G1F-10,16	1999068	50
PC 6-16/ 9-G1F-10,16	1996401	50

UL US PC CCA CB

Dimensional drawing



Drilling diagram

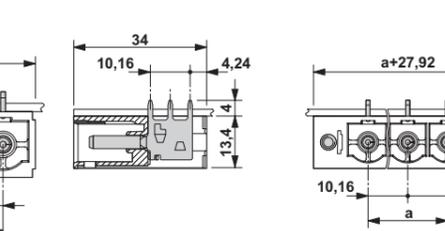


Ordering data

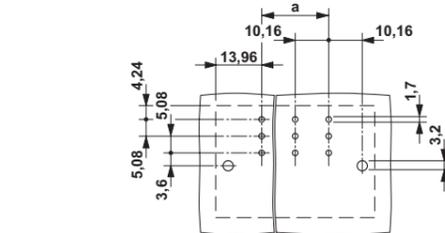
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6-16/ 2-G1U-10,16	1996236	50
PC 6-16/ 3-G1U-10,16	1996249	50
PC 6-16/ 4-G1U-10,16	1996252	50
PC 6-16/ 5-G1U-10,16	1996265	50
PC 6-16/ 6-G1U-10,16	1996278	50
PC 6-16/ 7-G1U-10,16	1996281	50
PC 6-16/ 8-G1U-10,16	1996294	50
PC 6-16/ 9-G1U-10,16	1996304	50

UL US PC CCA CB

Dimensional drawing



Drilling diagram



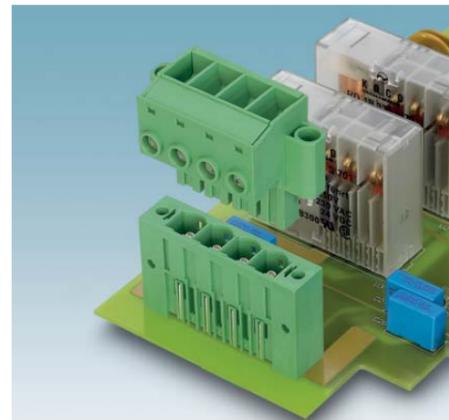
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6-16/ 2-G1FU-10,16	1996317	50
PC 6-16/ 3-G1FU-10,16	1996320	50
PC 6-16/ 4-G1FU-10,16	1996333	50
PC 6-16/ 5-G1FU-10,16	1996346	50
PC 6-16/ 6-G1FU-10,16	1996359	50
PC 6-16/ 7-G1FU-10,16	1996362	50
PC 6-16/ 8-G1FU-10,16	1996375	50
PC 6-16/ 9-G1FU-10,16	1996388	50

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 76 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.7 / 1 x 1.2 mm

Headers with pin contact



Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.
 Mounting screw for PCV 6-16/...-G1F-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange



With threaded flange

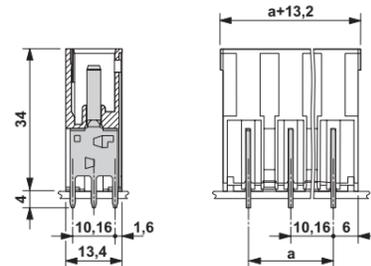
- Vertical PCV 6-16 headers for use in combination with all PC 6 and PC 16 plugs
- PCB-PCB connections by using IPC 16 headers
- Threaded flange G1F (also for screw connection on the PCB or in the device)
- CS-IPC 16/6 to serve as an anti-rotation element during assembly
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Accessories

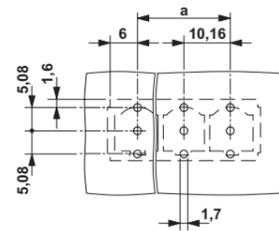
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801



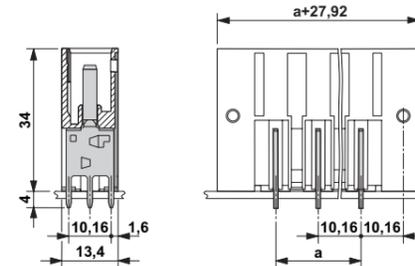
Dimensional drawing



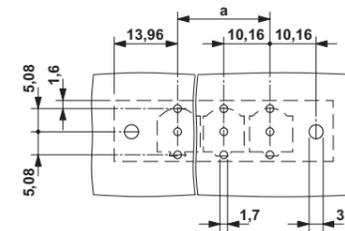
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 76 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 6 8 8
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	- - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.7 / 1 x 1.2 mm

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PCV 6-16/ 2-G1-10,16	1998784	50
PCV 6-16/ 3-G1-10,16	1998797	50
PCV 6-16/ 4-G1-10,16	1998807	50
PCV 6-16/ 5-G1-10,16	1998810	50
PCV 6-16/ 6-G1-10,16	1998823	50
PCV 6-16/ 7-G1-10,16	1998836	50
PCV 6-16/ 8-G1-10,16	1998849	50
PCV 6-16/ 9-G1-10,16	1998852	50

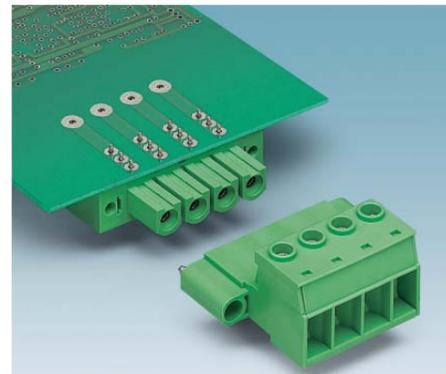
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PCV 6-16/ 2-G1F-10,16	1998865	50
PCV 6-16/ 3-G1F-10,16	1998878	50
PCV 6-16/ 4-G1F-10,16	1998881	50
PCV 6-16/ 5-G1F-10,16	1998894	50
PCV 6-16/ 6-G1F-10,16	1998904	50
PCV 6-16/ 7-G1F-10,16	1998917	50
PCV 6-16/ 8-G1F-10,16	1998920	50
PCV 6-16/ 9-G1F-10,16	1996414	50

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Headers with socket contact



Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

Mounting screw for IPC 16/...-GF-10,16 and IPC 16/...-GFU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

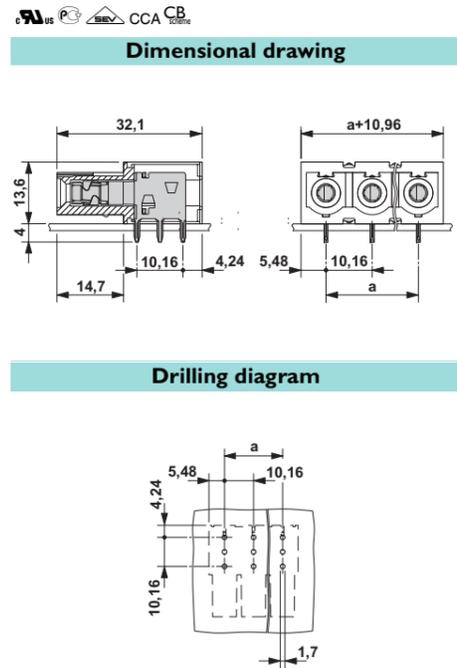
¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

- An inverted IPC 16 header to implement a touch-proof PCB output or a PCB-PCB-connection (in combination with PC 6-16 base strips)
- GU versions for a solder-in direction rotated by 180°
- Threaded flange GF (also for screw connection on the PCB or in the device)
- Shroud PCB-SHIELD (EMC connection)
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
Only for IPC 16/...-G(F)U-10,6		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 76 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 8
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.7 / 0,8 x 1.2

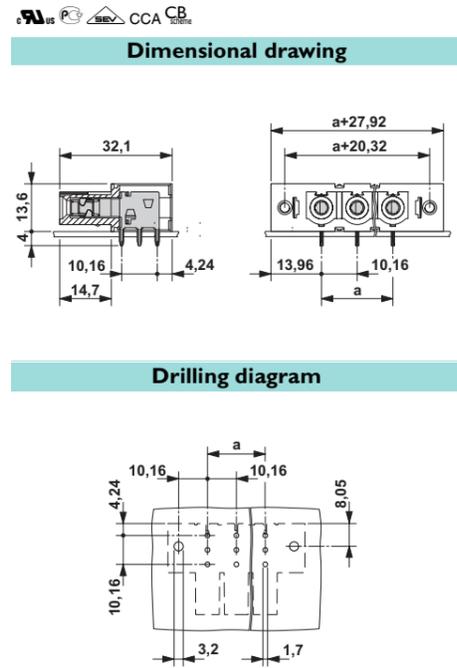
No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28



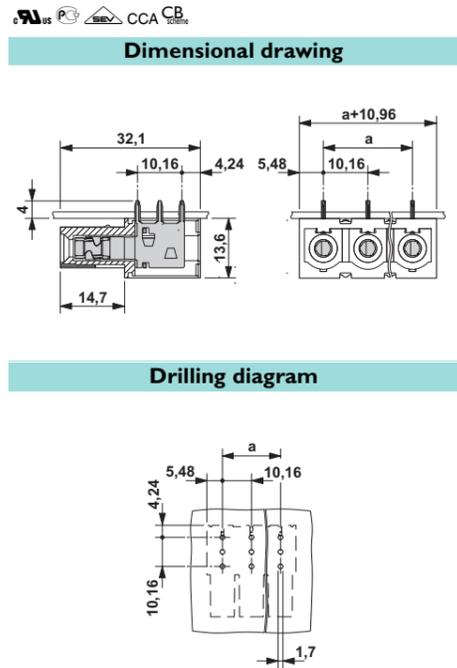
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
IPC 16/ 2-G-10,16	1969535	50	
IPC 16/ 3-G-10,16	1969548	50	
IPC 16/ 4-G-10,16	1969551	50	
IPC 16/ 5-G-10,16	1969564	50	
IPC 16/ 6-G-10,16	1969577	50	
IPC 16/ 7-G-10,16	1969580	50	
IPC 16/ 8-G-10,16	1969593	50	
IPC 16/ 9-G-10,16	1969603	50	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

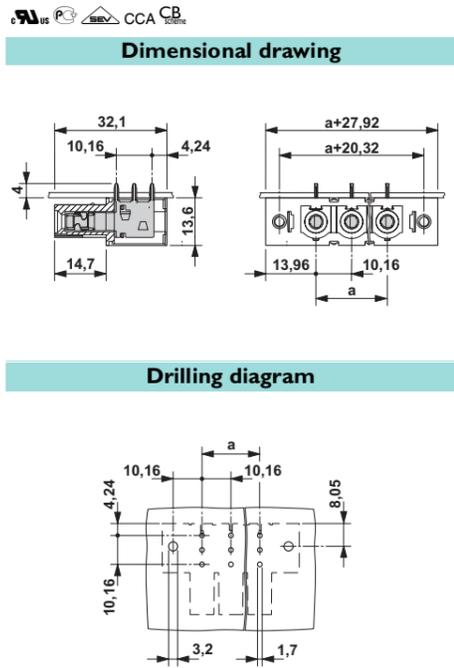
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
IPC 16/ 2-GF-10,16	1969616	50	
IPC 16/ 3-GF-10,16	1969629	50	
IPC 16/ 4-GF-10,16	1969632	50	
IPC 16/ 5-GF-10,16	1969645	50	
IPC 16/ 6-GF-10,16	1969658	50	
IPC 16/ 7-GF-10,16	1969661	50	
IPC 16/ 8-GF-10,16	1969674	50	
IPC 16/ 9-GF-10,16	1969687	50	



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
IPC 16/ 2-GU-10,16	1969852	50	
IPC 16/ 3-GU-10,16	1969865	50	
IPC 16/ 4-GU-10,16	1969878	50	
IPC 16/ 5-GU-10,16	1969881	50	
IPC 16/ 6-GU-10,16	1969894	50	
IPC 16/ 7-GU-10,16	1969904	50	
IPC 16/ 8-GU-10,16	1969917	50	
IPC 16/ 9-GU-10,16	1969920	50	



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: Green			
IPC 16/ 2-GFU-10,16	1969933	50	
IPC 16/ 3-GFU-10,16	1969946	50	
IPC 16/ 4-GFU-10,16	1969959	50	
IPC 16/ 5-GFU-10,16	1969962	50	
IPC 16/ 6-GFU-10,16	1969975	50	
IPC 16/ 7-GFU-10,16	1969988	50	
IPC 16/ 8-GFU-10,16	1969991	50	
IPC 16/ 9-GFU-10,16	1970003	50	

Headers with socket contact

Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.
 Mounting screw for IPCV 16/...-GF-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted to soldering.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange

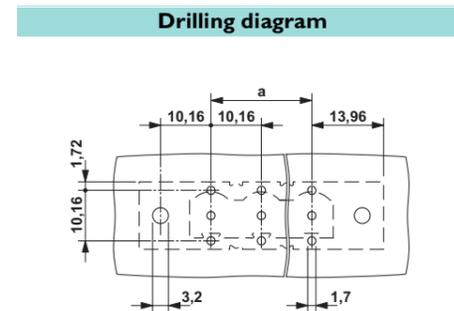
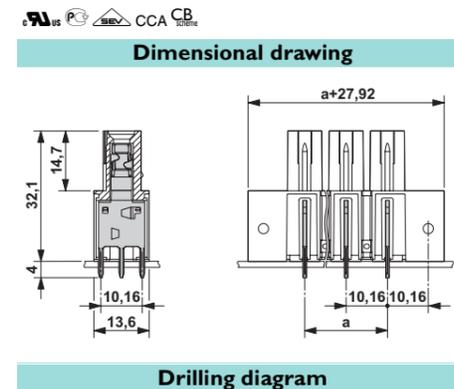
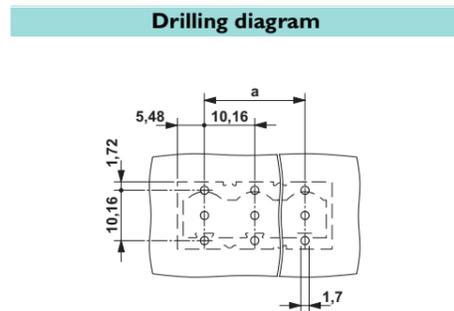
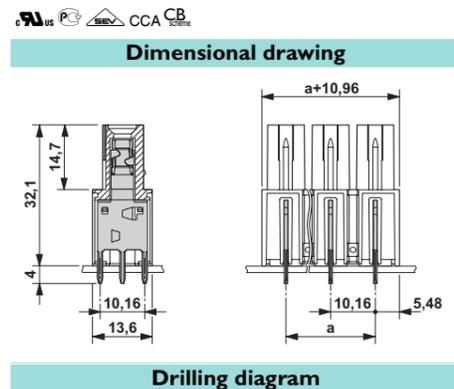


With threaded flange



- An inverted IPC 16 header in a vertical design to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 6-16 base strips)
- Integrated double steel spring
- Threaded flange GF (also for screw connection on the PCB or in the device)
- CS-IPC 16/6 to serve as an anti-rotation element during assembly
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPCV 16/ 2-G-10,16	1969690	50
IPCV 16/ 3-G-10,16	1969700	50
IPCV 16/ 4-G-10,16	1969713	50
IPCV 16/ 5-G-10,16	1969726	50
IPCV 16/ 6-G-10,16	1969739	50
IPCV 16/ 7-G-10,16	1969742	50
IPCV 16/ 8-G-10,16	1969755	50
IPCV 16/ 9-G-10,16	1969768	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPCV 16/ 2-GF-10,16	1969771	50
IPCV 16/ 3-GF-10,16	1969784	50
IPCV 16/ 4-GF-10,16	1969797	50
IPCV 16/ 5-GF-10,16	1969807	50
IPCV 16/ 6-GF-10,16	1969810	50
IPCV 16/ 7-GF-10,16	1969823	50
IPCV 16/ 8-GF-10,16	1969836	50
IPCV 16/ 9-GF-10,16	1969849	50

Technical data

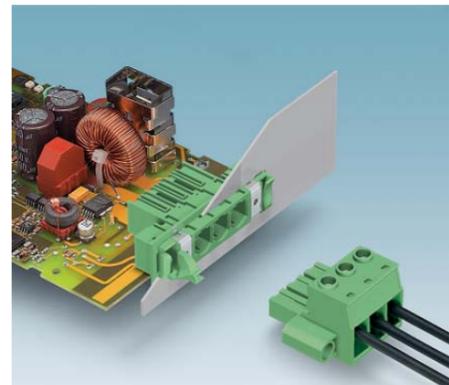
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	76 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 300 600
Nominal current [A]	66 66 5
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.7 / 0,8 x 1,2

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	76 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 300 600
Nominal current [A]	66 66 5
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.7 / 0,8 x 1,2

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with all PC 6 and PC 16 plugs
- To solder onto the PCB
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

Mounting screw for DFK-PC 6-16/...-G-10,16 and DFK-PC 6-16/...-GU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

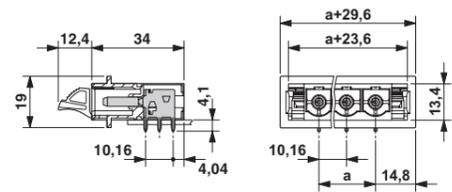
Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801



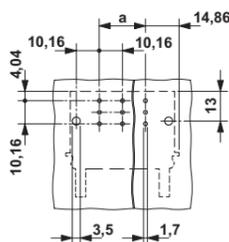
Without threaded flange



Dimensional drawing



Drilling diagram



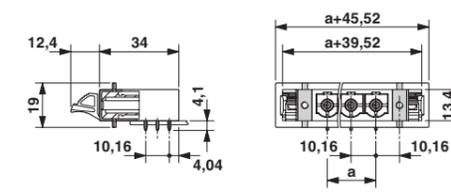
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-PC 6-16/ 2-G-10,16	1701456	10	
DFK-PC 6-16/ 3-G-10,16	1701469	10	
DFK-PC 6-16/ 4-G-10,16	1701472	10	
DFK-PC 6-16/ 5-G-10,16	1701485	10	
DFK-PC 6-16/ 6-G-10,16	1701498	10	
DFK-PC 6-16/ 7-G-10,16	1701508	10	
DFK-PC 6-16/ 8-G-10,16	1701511	10	
DFK-PC 6-16/ 9-G-10,16	1701524	10	



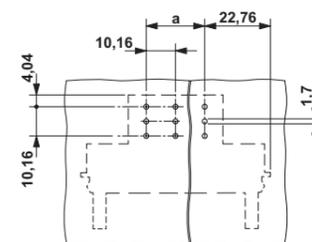
With threaded flange and shield connection on the front of the device



Dimensional drawing



Drilling diagram



Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-PC 6-16/ 2-GF-10,16	1701537	10	
DFK-PC 6-16/ 3-GF-10,16	1701540	10	
DFK-PC 6-16/ 4-GF-10,16	1701553	10	
DFK-PC 6-16/ 5-GF-10,16	1701566	10	
DFK-PC 6-16/ 6-GF-10,16	1701579	10	
DFK-PC 6-16/ 7-GF-10,16	1701582	10	
DFK-PC 6-16/ 8-GF-10,16	1701595	10	
DFK-PC 6-16/ 9-GF-10,16	1701605	10	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

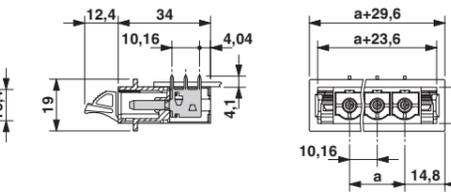
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



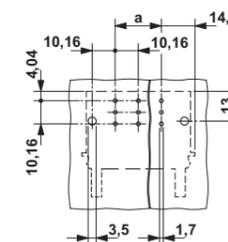
Rotated 180°, without threaded flange



Dimensional drawing



Drilling diagram



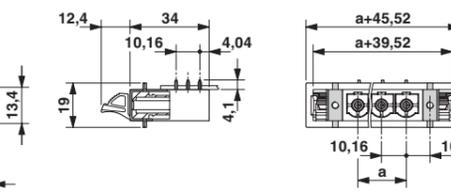
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-PC 6-16/ 2-GU-10,16	1701618	10	
DFK-PC 6-16/ 3-GU-10,16	1701621	10	
DFK-PC 6-16/ 4-GU-10,16	1701634	10	
DFK-PC 6-16/ 5-GU-10,16	1701647	10	
DFK-PC 6-16/ 6-GU-10,16	1701650	10	
DFK-PC 6-16/ 7-GU-10,16	1701663	10	
DFK-PC 6-16/ 8-GU-10,16	1701676	10	
DFK-PC 6-16/ 9-GU-10,16	1701689	10	



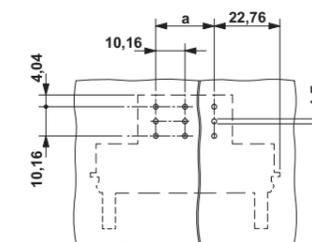
Rotated 180°, with threaded flange and shield connection on the front of the device



Dimensional drawing



Drilling diagram



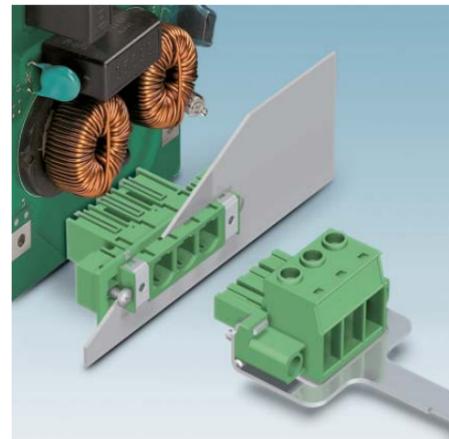
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-PC 6-16/ 2-GFU-10,16	1701692	10	
DFK-PC 6-16/ 3-GFU-10,16	1701702	10	
DFK-PC 6-16/ 4-GFU-10,16	1701715	10	
DFK-PC 6-16/ 5-GFU-10,16	1701728	10	
DFK-PC 6-16/ 6-GFU-10,16	1701731	10	
DFK-PC 6-16/ 7-GFU-10,16	1701744	10	
DFK-PC 6-16/ 8-GFU-10,16	1701757	10	
DFK-PC 6-16/ 9-GFU-10,16	1701760	10	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 76 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.7 / 1,0 x 1,2 mm

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with all PC 6 and PC 16 plugs
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

Mounting screw for DFK-PCV 6-16/...-G-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

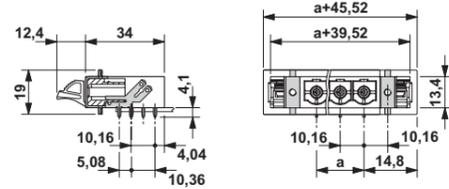
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801

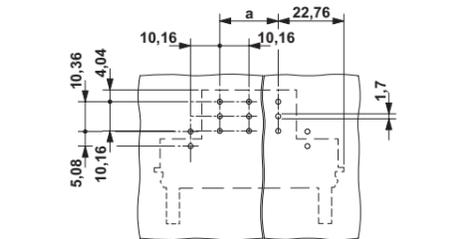


Horizontal, with threaded flange and shield feed-through on the inside of the device

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GF-SH-10,16	1701935	10
DFK-PC 6-16/ 3-GF-SH-10,16	1701948	10
DFK-PC 6-16/ 4-GF-SH-10,16	1701951	10
DFK-PC 6-16/ 5-GF-SH-10,16	1701964	10
DFK-PC 6-16/ 6-GF-SH-10,16	1701977	10
DFK-PC 6-16/ 7-GF-SH-10,16	1701980	10
DFK-PC 6-16/ 8-GF-SH-10,16	1701993	10
DFK-PC 6-16/ 9-GF-SH-10,16	1702002	10

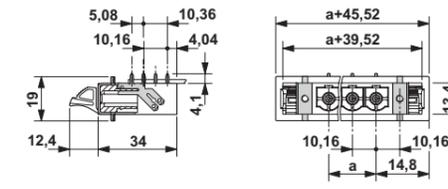
Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

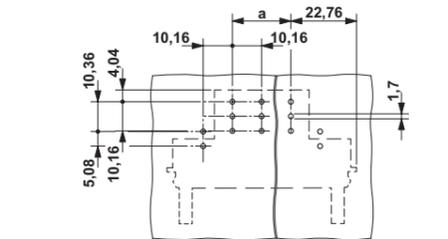


Horizontal, rotated 180°, with threaded flange and shield feed-through on the inside of the device

Dimensional drawing



Drilling diagram



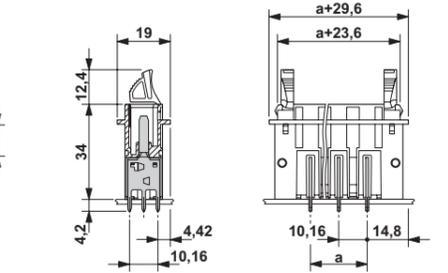
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GFU-SH-10,16	1702015	10
DFK-PC 6-16/ 3-GFU-SH-10,16	1702028	10
DFK-PC 6-16/ 4-GFU-SH-10,16	1702031	10
DFK-PC 6-16/ 5-GFU-SH-10,16	1702044	10
DFK-PC 6-16/ 6-GFU-SH-10,16	1702057	10
DFK-PC 6-16/ 7-GFU-SH-10,16	1702060	10
DFK-PC 6-16/ 8-GFU-SH-10,16	1702073	10
DFK-PC 6-16/ 9-GFU-SH-10,16	1702086	10

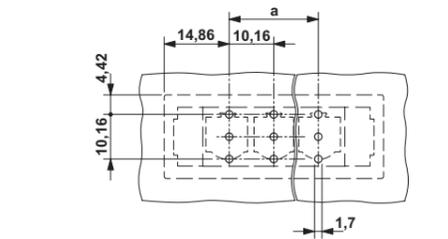


Vertical, without threaded flange

Dimensional drawing



Drilling diagram



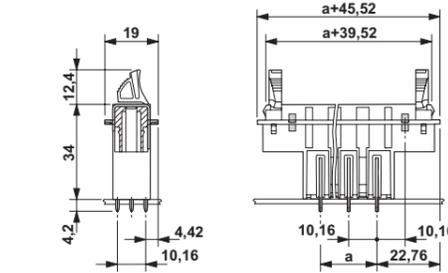
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PCV 6-16/ 2-G-10,16	1702099	10
DFK-PCV 6-16/ 3-G-10,16	1702109	10
DFK-PCV 6-16/ 4-G-10,16	1702112	10
DFK-PCV 6-16/ 5-G-10,16	1702125	10
DFK-PCV 6-16/ 6-G-10,16	1702138	10
DFK-PCV 6-16/ 7-G-10,16	1702141	10
DFK-PCV 6-16/ 8-G-10,16	1702154	10
DFK-PCV 6-16/ 9-G-10,16	1702167	10

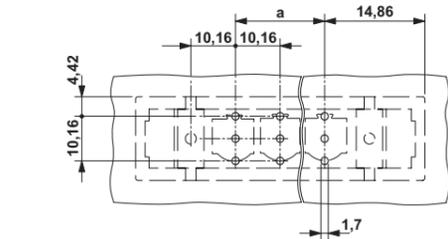


Vertical, with threaded flange and shield connection on the front of the device

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PCV 6-16/ 2-GF-10,16	1702251	10
DFK-PCV 6-16/ 3-GF-10,16	1702264	10
DFK-PCV 6-16/ 4-GF-10,16	1702277	10
DFK-PCV 6-16/ 5-GF-10,16	1702280	10
DFK-PCV 6-16/ 6-GF-10,16	1702293	10
DFK-PCV 6-16/ 7-GF-10,16	1702303	10
DFK-PCV 6-16/ 8-GF-10,16	1702316	10
DFK-PCV 6-16/ 9-GF-10,16	1702329	10

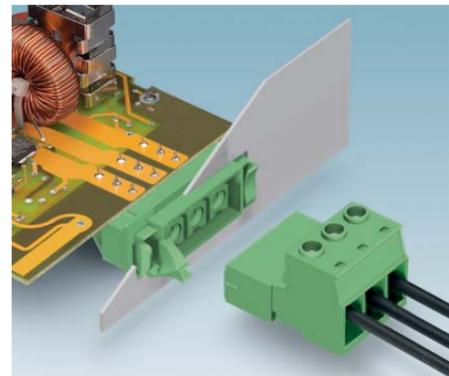
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 76 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.7 / 1,0 x 1,2 mm

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- An inverted feed-through header to implement a touch-proof PCB output (in combination with IPC 16 ST)
- To solder onto the PCB
- A snap-lock mechanism to be operated without tools or a classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

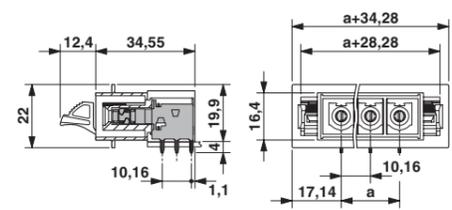
Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801



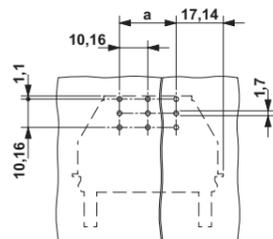
Without threaded flange



Dimensional drawing



Drilling diagram



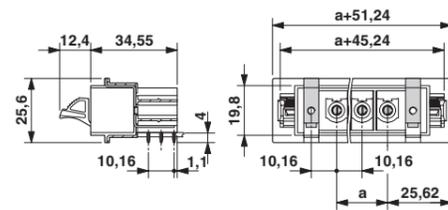
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-G-10,16	1702413	10	
DFK-IPC 16/ 3-G-10,16	1702426	10	
DFK-IPC 16/ 4-G-10,16	1702439	10	
DFK-IPC 16/ 5-G-10,16	1702442	10	
DFK-IPC 16/ 6-G-10,16	1702455	10	
DFK-IPC 16/ 7-G-10,16	1702468	10	
DFK-IPC 16/ 8-G-10,16	1702471	10	
DFK-IPC 16/ 9-G-10,16	1702484	10	



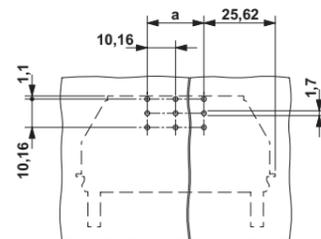
With threaded flange and shield connection on the front of the device



Dimensional drawing



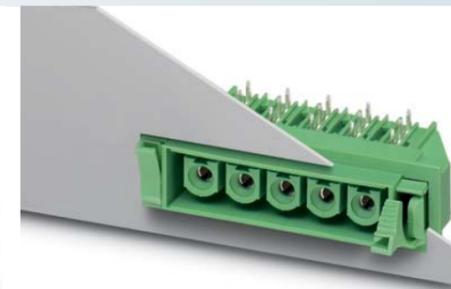
Drilling diagram



Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-GF-10,16	1702730	10	
DFK-IPC 16/ 3-GF-10,16	1702743	10	
DFK-IPC 16/ 4-GF-10,16	1702756	10	
DFK-IPC 16/ 5-GF-10,16	1702769	10	
DFK-IPC 16/ 6-GF-10,16	1702772	10	
DFK-IPC 16/ 7-GF-10,16	1702785	10	
DFK-IPC 16/ 8-GF-10,16	1702798	10	
DFK-IPC 16/ 9-GF-10,16	1702808	10	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

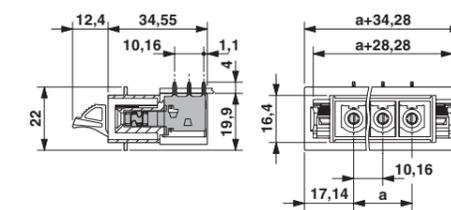
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



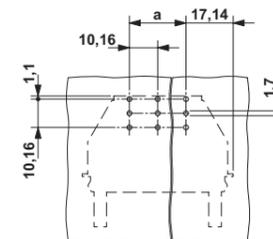
Rotated 180°, without threaded flange



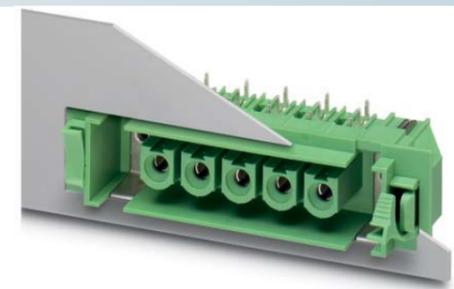
Dimensional drawing



Drilling diagram



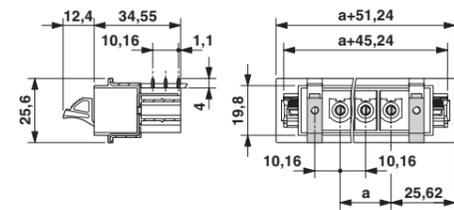
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-GU-10,16	1702497	10	
DFK-IPC 16/ 3-GU-10,16	1702507	10	
DFK-IPC 16/ 4-GU-10,16	1702510	10	
DFK-IPC 16/ 5-GU-10,16	1702523	10	
DFK-IPC 16/ 6-GU-10,16	1702536	10	
DFK-IPC 16/ 7-GU-10,16	1702549	10	
DFK-IPC 16/ 8-GU-10,16	1702552	10	
DFK-IPC 16/ 9-GU-10,16	1702565	10	



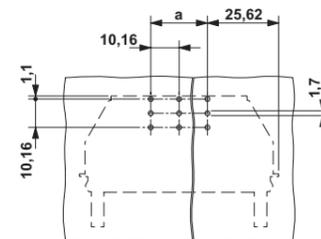
Rotated 180°, with threaded flange and shield connection on the front of the device



Dimensional drawing



Drilling diagram



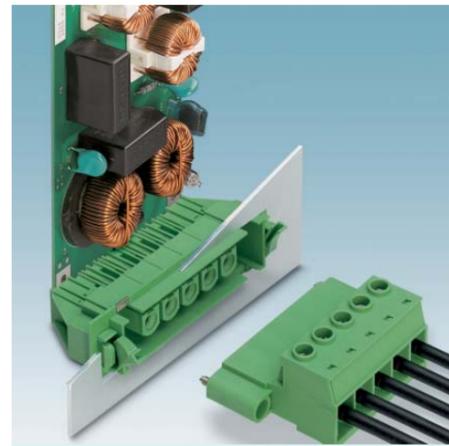
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-GFU-10,16	1702811	10	
DFK-IPC 16/ 3-GFU-10,16	1702824	10	
DFK-IPC 16/ 4-GFU-10,16	1702837	10	
DFK-IPC 16/ 5-GFU-10,16	1702840	10	
DFK-IPC 16/ 6-GFU-10,16	1702853	10	
DFK-IPC 16/ 7-GFU-10,16	1702866	10	
DFK-IPC 16/ 8-GFU-10,16	1702879	10	
DFK-IPC 16/ 9-GFU-10,16	1702882	10	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 76 ¹⁾
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	- - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.7 / 0.8 x 1.2

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- An inverted feed-through header to implement a touch-proof PCB output (in combination with IPC 16 ST)
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device as well.
- A snap-lock mechanism to be operated without tools or a classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

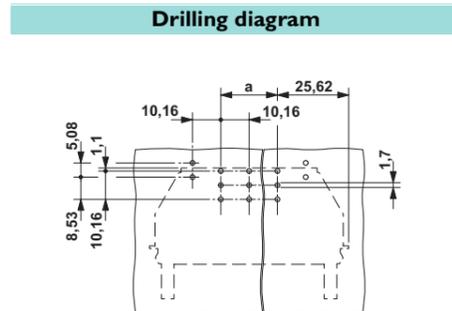
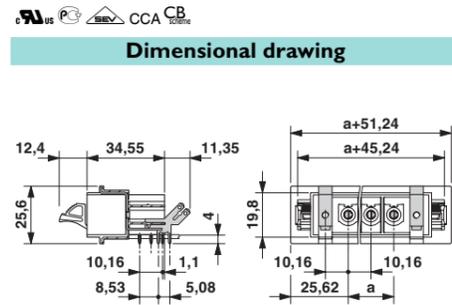
The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801



Horizontal, with threaded flange and shield feed-through on the inside of the device



Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-GF-SH-10,16	1702976	10	
DFK-IPC 16/ 3-GF-SH-10,16	1702989	10	
DFK-IPC 16/ 4-GF-SH-10,16	1702992	10	
DFK-IPC 16/ 5-GF-SH-10,16	1703001	10	
DFK-IPC 16/ 6-GF-SH-10,16	1703014	10	
DFK-IPC 16/ 7-GF-SH-10,16	1703027	10	
DFK-IPC 16/ 8-GF-SH-10,16	1703030	10	
DFK-IPC 16/ 9-GF-SH-10,16	1703043	10	

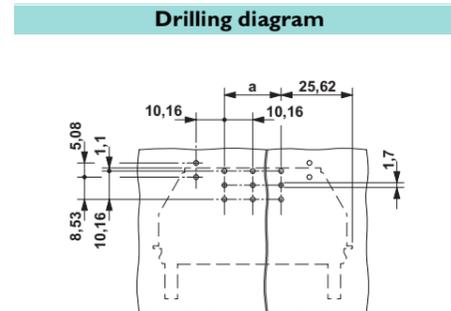
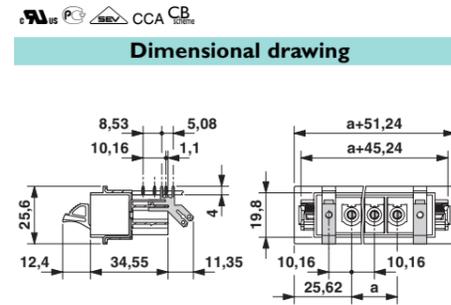
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current [A]	76 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	300 300 600
Nominal current [A]	66 66 5
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	1.7 / 0,8 x 1.2

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

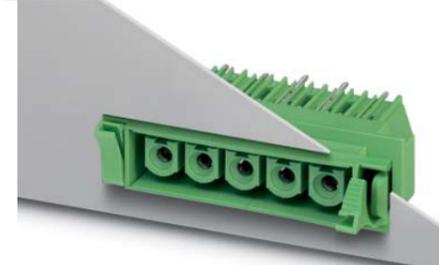
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



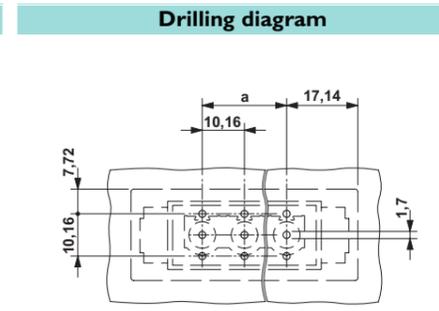
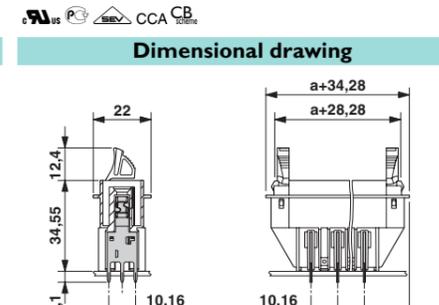
Horizontal, rotated 180°, with threaded flange, shield feed-through on the inside of the device



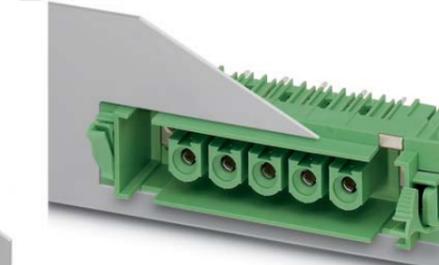
Ordering data		
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-GFU-SH-10,16	1702895	10
DFK-IPC 16/ 3-GFU-SH-10,16	1702905	10
DFK-IPC 16/ 4-GFU-SH-10,16	1702918	10
DFK-IPC 16/ 5-GFU-SH-10,16	1702921	10
DFK-IPC 16/ 6-GFU-SH-10,16	1702934	10
DFK-IPC 16/ 7-GFU-SH-10,16	1702947	10
DFK-IPC 16/ 8-GFU-SH-10,16	1702950	10
DFK-IPC 16/ 9-GFU-SH-10,16	1702963	10



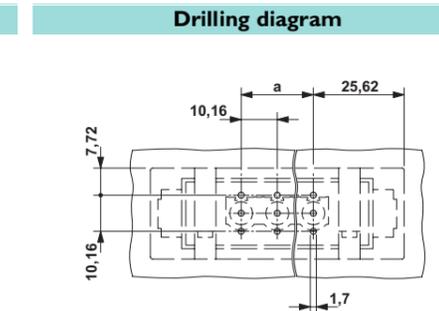
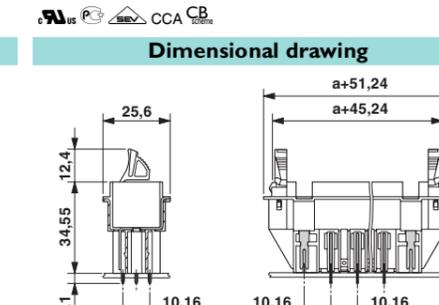
Vertical, without threaded flange



Ordering data		
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPCVC 16/ 2-G-10,16	1703056	10
DFK-IPCVC 16/ 3-G-10,16	1703069	10
DFK-IPCVC 16/ 4-G-10,16	1703072	10
DFK-IPCVC 16/ 5-G-10,16	1703085	10
DFK-IPCVC 16/ 6-G-10,16	1703098	10
DFK-IPCVC 16/ 7-G-10,16	1703108	10
DFK-IPCVC 16/ 8-G-10,16	1703111	10
DFK-IPCVC 16/ 9-G-10,16	1703124	10



Vertical, with threaded flange and shield connection on the front of the device

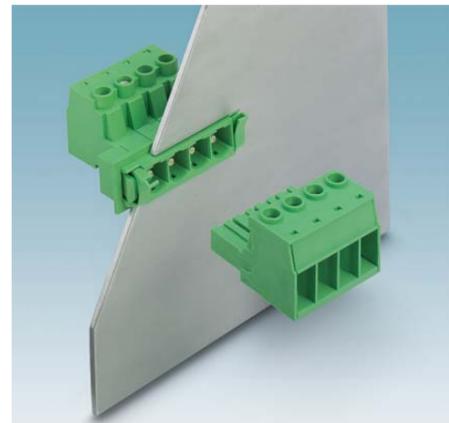


Ordering data		
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPCVC 16/ 2-GF-10,16	1703218	10
DFK-IPCVC 16/ 3-GF-10,16	1703221	10
DFK-IPCVC 16/ 4-GF-10,16	1703234	10
DFK-IPCVC 16/ 5-GF-10,16	1703247	10
DFK-IPCVC 16/ 6-GF-10,16	1703250	10
DFK-IPCVC 16/ 7-GF-10,16	1703263	10
DFK-IPCVC 16/ 8-GF-10,16	1703276	10
DFK-IPCVC 16/ 9-GF-10,16	1703289	10

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with PC 16 plugs
- A screw connection on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

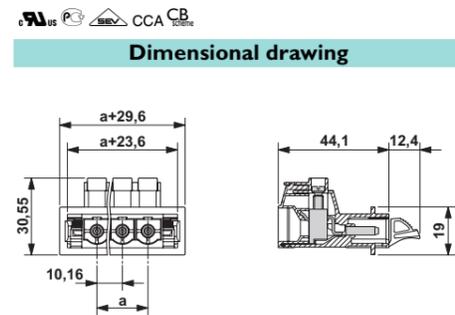
The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	



Without threaded flange, 600 V UL approval



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-PC 16/ 2-ST-10,16	1703373	10	
DFK-PC 16/ 3-ST-10,16	1703386	10	
DFK-PC 16/ 4-ST-10,16	1703399	10	
DFK-PC 16/ 5-ST-10,16	1703409	10	
DFK-PC 16/ 6-ST-10,16	1703412	10	
DFK-PC 16/ 7-ST-10,16	1703425	10	
DFK-PC 16/ 8-ST-10,16	1703438	10	
DFK-PC 16/ 9-ST-10,16	1703441	10	

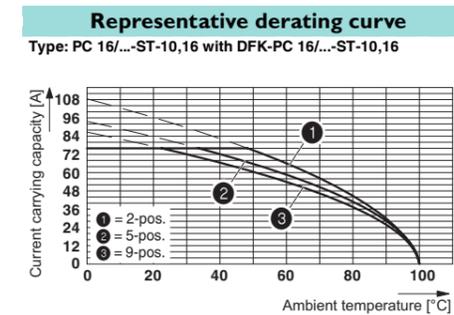
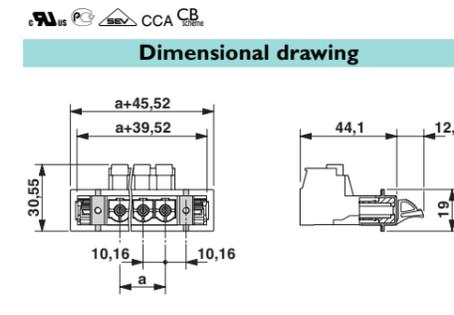
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid & multi-strand / stranded [mm ²] / [mm ²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 16
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded [mm ²]	0.75 - 6 / 0.75 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 4
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 6
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	55 55 -
Connection capacity AWG	20 - 6 20 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	12
Screw thread	M4
Tightening torque [Nm]	1.7 - 1.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



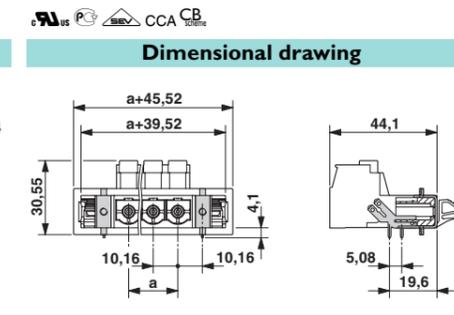
With threaded flange and shield connection on the front of the device, 600 V UL approval



Ordering data		
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 16/ 2-STF-10,16	1703454	10
DFK-PC 16/ 3-STF-10,16	1703467	10
DFK-PC 16/ 4-STF-10,16	1703470	10
DFK-PC 16/ 5-STF-10,16	1703483	10
DFK-PC 16/ 6-STF-10,16	1703496	10
DFK-PC 16/ 7-STF-10,16	1703506	10
DFK-PC 16/ 8-STF-10,16	1703519	10
DFK-PC 16/ 9-STF-10,16	1703522	10



With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

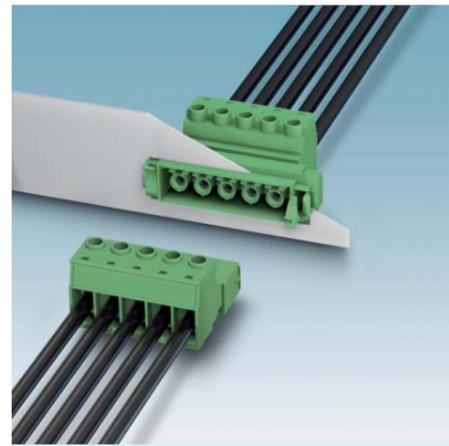


Ordering data		
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 16/ 2-STF-SH-10,16	1703616	10
DFK-PC 16/ 3-STF-SH-10,16	1703629	10
DFK-PC 16/ 4-STF-SH-10,16	1703632	10
DFK-PC 16/ 5-STF-SH-10,16	1703645	10
DFK-PC 16/ 6-STF-SH-10,16	1703658	10
DFK-PC 16/ 7-STF-SH-10,16	1703661	10
DFK-PC 16/ 8-STF-SH-10,16	1703674	10
DFK-PC 16/ 9-STF-SH-10,16	1703687	10

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- An inverted feed-through header for a touch-proof device output (in combination with IPC 16 ST)
- A screw connection on the inside of the device
- A snap-lock mechanism to be operated without tools or a classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

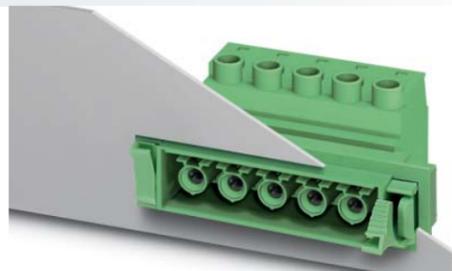
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

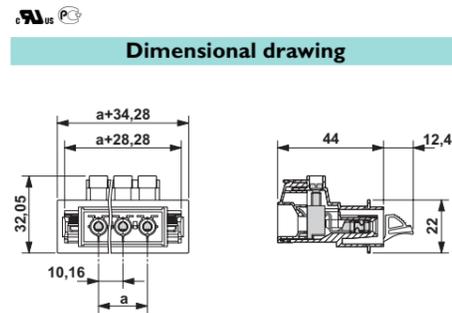
The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker strips SK 5,0 WH-REEL Order No. 0805221	801
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	



Without threaded flange, 600 V UL approval



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

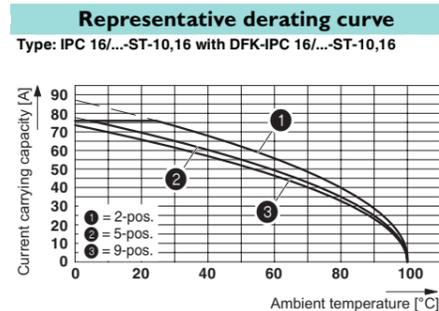
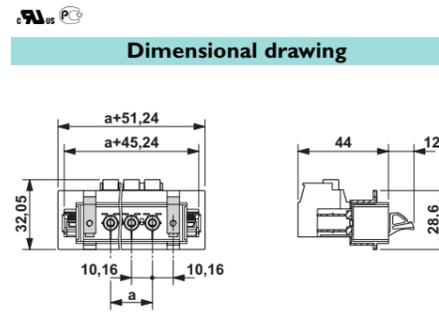
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-ST-10,16	1703690	10	
DFK-IPC 16/ 3-ST-10,16	1703700	10	
DFK-IPC 16/ 4-ST-10,16	1703713	10	
DFK-IPC 16/ 5-ST-10,16	1703726	10	
DFK-IPC 16/ 6-ST-10,16	1703739	10	
DFK-IPC 16/ 7-ST-10,16	1703742	10	
DFK-IPC 16/ 8-ST-10,16	1703755	10	
DFK-IPC 16/ 9-ST-10,16	1703768	10	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

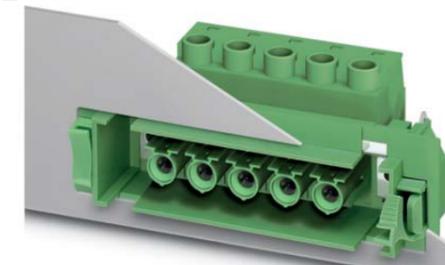
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



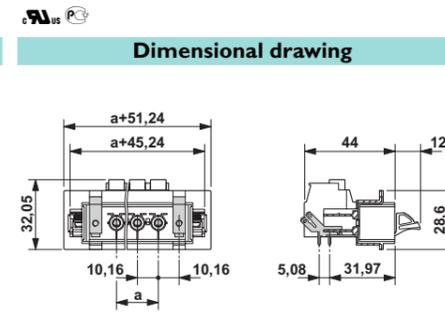
With threaded flange with shield connection on the front of the device, 600 V UL approval



Ordering data		
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-STF-10,16	1703771	10
DFK-IPC 16/ 3-STF-10,16	1703784	10
DFK-IPC 16/ 4-STF-10,16	1703797	10
DFK-IPC 16/ 5-STF-10,16	1703807	10
DFK-IPC 16/ 6-STF-10,16	1703810	10
DFK-IPC 16/ 7-STF-10,16	1703823	10
DFK-IPC 16/ 8-STF-10,16	1703836	10
DFK-IPC 16/ 9-STF-10,16	1703849	10



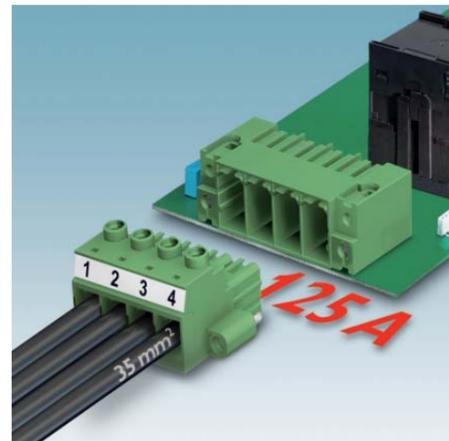
With threaded flange and shield feed-through on the inside of the device, 600 V UL approval



Ordering data		
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-STF-SH-10,16	1703933	10
DFK-IPC 16/ 3-STF-SH-10,16	1703946	10
DFK-IPC 16/ 4-STF-SH-10,16	1703959	10
DFK-IPC 16/ 5-STF-SH-10,16	1703962	10
DFK-IPC 16/ 6-STF-SH-10,16	1703975	10
DFK-IPC 16/ 7-STF-SH-10,16	1703988	10
DFK-IPC 16/ 8-STF-SH-10,16	1703991	10
DFK-IPC 16/ 9-STF-SH-10,16	1704000	10

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid & multi-strand / stranded [mm ²] / [mm ²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 16
Stranded with ferrules with plastic sleeve [mm ²]	0.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded [mm ²]	0.75 - 6 / 0.75 - 6
Stranded with ferrules without plastic sleeve [mm ²]	0.5 - 4
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 6
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	55 55 -
Connection capacity AWG	20 - 6 20 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	12
Screw thread	M4
Tightening torque [Nm]	1.7 - 1.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Connector with a screw connection



- High-capacity plugs with a current carrying capacity of up to 125 A and a connection capacity of 35 mm², solid
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- Standard with screw flange for secure connection even in applications with high levels of vibration
- Low insertion and withdrawal forces for convenient device connection
- Compatible with PC 35 HC/...-GF-15,0 base strip and IPC 35 HC/....-STGF-15,0 plug component

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

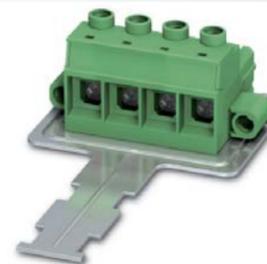
COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) Up to 16 mm² = 2.5 Nm
25 mm² = 3.5 Nm
35 mm² = 4.5 Nm



With screw flange, 600 V UL approval



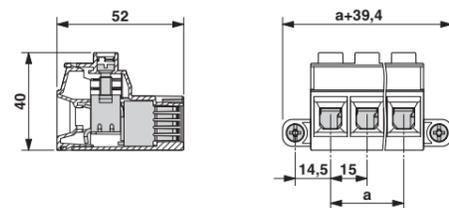
With screw flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Marker strips SK 10,0 WH:REEL Order No. 0812188	801
	Screwdriver SZS 1,0 x 6,5 Order No. 1205079	
	Keying profile CP-HC Order No. 1686478	38



Dimensional drawing

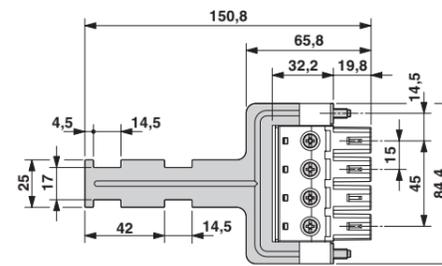


Note derating curves

Derating curves, determined in accordance with DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 35 mm²
Reduction factor = 0.8
Number of positions = see diagram

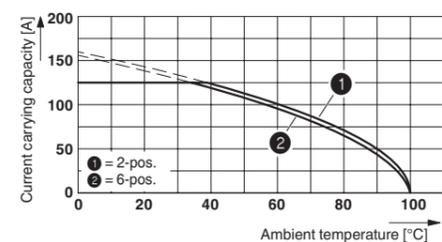


Dimensional drawing



Representative derating curve

Type: PC 35 HC/...-STF-15,00 with PC 35 HC/...-GF-15,00



Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 2-STF-15,00	1762592	25
PC 35 HC/ 3-STF-15,00	1762602	25
PC 35 HC/ 4-STF-15,00	1762615	25
PC 35 HC/ 5-STF-15,00	1762628	10
PC 35 HC/ 6-STF-15,00	1762631	10
PC 35 HC/ 4-STF-SH-15,00	1762848	10

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 125(1) / 35
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 15
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG 0.5 - 35 / 0.5 - 35 / 20 - 2
Stranded with ferrules without plastic sleeve	[mm ²] 1 - 35
Stranded with ferrules with plastic sleeve	[mm ²] 1.5 - 35
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid & multi-strand / stranded	[mm ²] 0.5 - 6 / 0.5 - 6
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 6
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 115 115 -
Connection capacity AWG	AWG 16 - 2 16 - 2 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 20
Screw thread	M5
Tightening torque	[Nm] 2.5 - 4.5 ²⁾
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

No. of pos.	Dim. a [mm]
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00

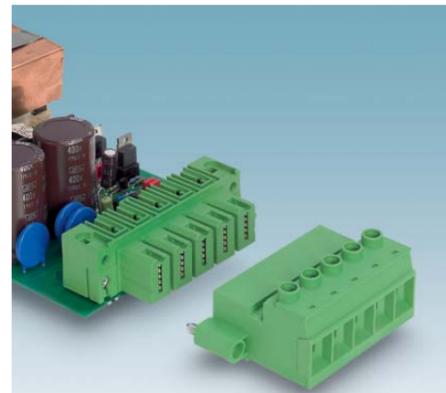
Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 2-STF-15,00	1762592	25
PC 35 HC/ 3-STF-15,00	1762602	25
PC 35 HC/ 4-STF-15,00	1762615	25
PC 35 HC/ 5-STF-15,00	1762628	10
PC 35 HC/ 6-STF-15,00	1762631	10

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

Connector with a screw connection



- Inverted high-performance connector components with male contact for touch-proof device outputs or free hanging cable-cable connections
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- Standard with screw flange for secure connection even in applications with high levels of vibration
- Low insertion and withdrawal forces for convenient device connection
- Compatible with IPC 35 header HC/...-GF-15,0 and with connector component PC 35 HC/...-STF-15,0

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.

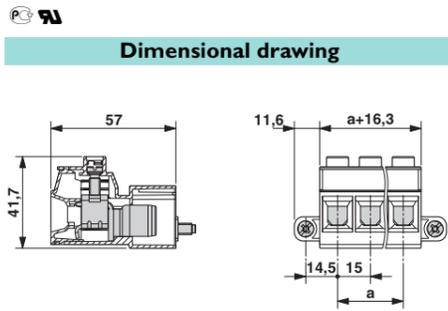
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) Up to 16 mm² = 2.5 Nm
25 mm² = 3.5 Nm
35 mm² = 4.5 Nm

Accessories		
For all types	Type	Page
	Marker strips SK 10,0 WH:REEL Order No. 0812188	801
	Screwdriver SZS 1,0 x 6,5 Order No. 1205079	
	Keying profile CP-HC Order No. 1686478	38
	Screws for mounting on the housing panel DFK-PC 35-SS Order No. 1700368	



With screw flange, 600 V UL approval



Note derating curves

Derating curves, determined in accordance with DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 35 mm²
Reduction factor = 0.8
Number of positions = see diagram

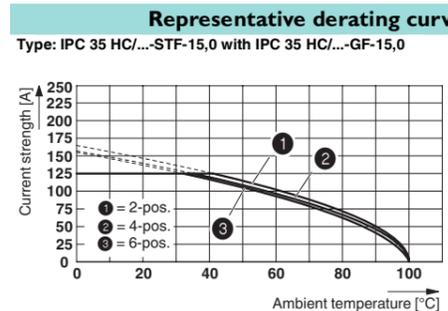
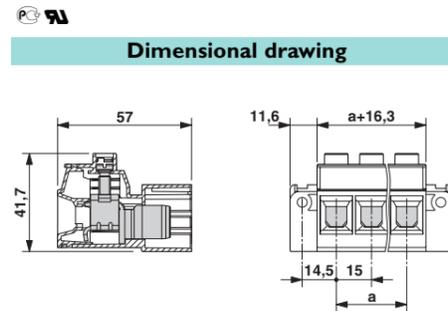
Ordering data			
Type	Order No.	Pcs. / Pkt.	
IPC 35 HC/ 2-STF-15,00	1784790	25	
IPC 35 HC/ 3-STF-15,00	1784800	25	
IPC 35 HC/ 4-STF-15,00	1784813	25	
IPC 35 HC/ 5-STF-15,00	1784826	10	
IPC 35 HC/ 6-STF-15,00	1784839	10	

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm



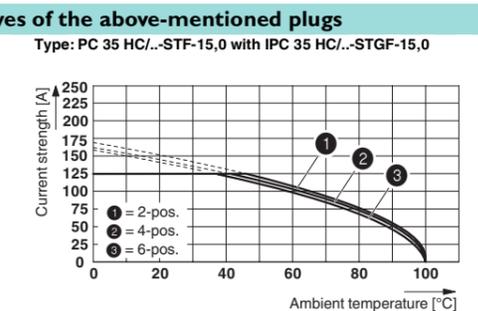
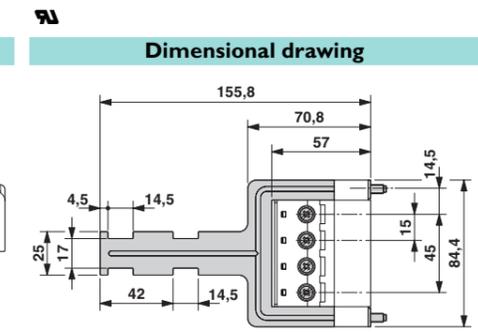
With threaded flange, 600 V UL approval



Ordering data		
Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 2-STGF-15,00	1784855	25
IPC 35 HC/ 3-STGF-15,00	1784868	25
IPC 35 HC/ 4-STGF-15,00	1784871	25
IPC 35 HC/ 5-STGF-15,00	1784884	10
IPC 35 HC/ 6-STGF-15,00	1784897	10



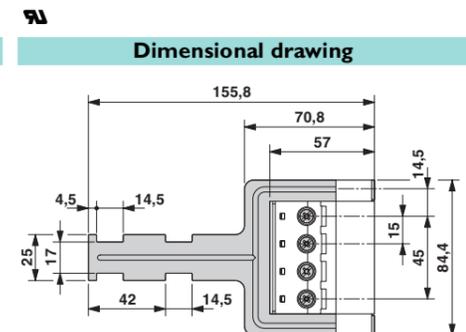
With screw flange and shield, 600 V UL approval



Ordering data		
Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 4-STF-SH-15,00	1784842	10



With threaded flange and shield, 600 V UL approval



Ordering data		
Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 4-STGF-SH-15,00	1784907	10

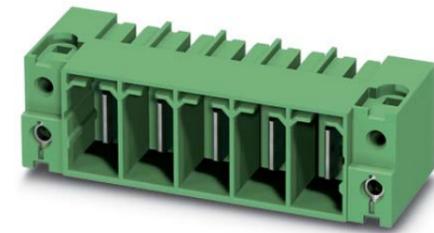
PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

Headers with pin contact



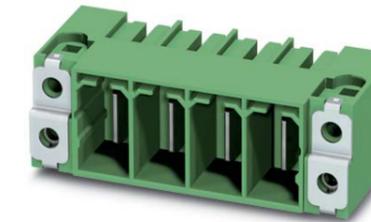
Notes:
 In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
 COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.
 The cutout dimensions for the feed-through versions can be found on page 595.
 Header can be screwed to the PCB using DFK-PC 35-SS, Order No. 1700368. Screw connection only permitted prior to soldering.
 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Horizontal, 600 V UL approval



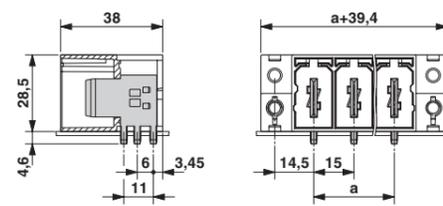
Vertical, 600 V UL approval



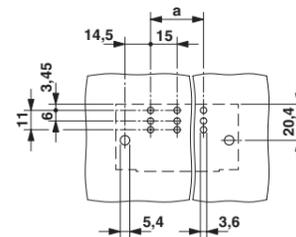
Horizontal, with shield connection, 600 V UL approval



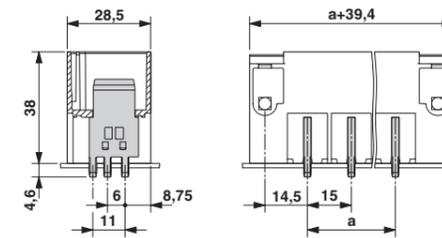
Dimensional drawing



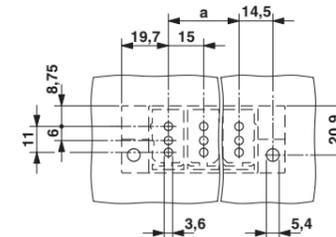
Drilling diagram



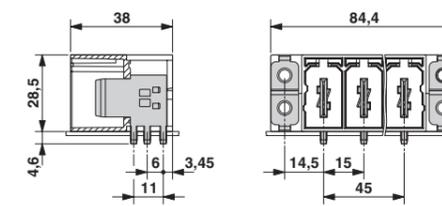
Dimensional drawing



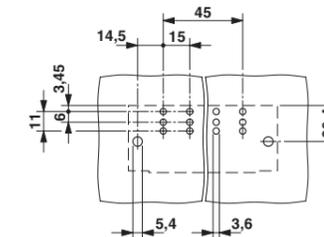
Drilling diagram



Dimensional drawing



Drilling diagram



Accessories

For all types	Type	Page
	Marker strips SK 10,0 WH:REEL Order No. 0812188	801
	Keying profile CP-HC Order No. 1686478	38
	Screws for mounting on the housing panel DFK-PC 35-SS Order No. 1700368	

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 2-GF-15,00	1762741	25
PC 35 HC/ 3-GF-15,00	1762754	25
PC 35 HC/ 4-GF-15,00	1762767	25
PC 35 HC/ 5-GF-15,00	1762770	10
PC 35 HC/ 6-GF-15,00	1762783	10

Ordering data

Type	Order No.	Pcs. / Pkt.
PCV 35 HC/ 2-GF-15,00	1762796	25
PCV 35 HC/ 3-GF-15,00	1762806	25
PCV 35 HC/ 4-GF-15,00	1762819	25
PCV 35 HC/ 5-GF-15,00	1762822	10
PCV 35 HC/ 6-GF-15,00	1762835	10

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 4-GF-SH-15,00	1762851	25

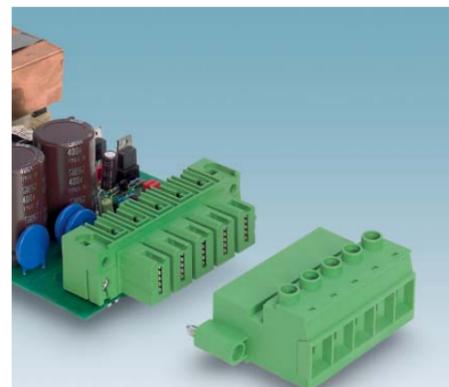
Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current [A]	125 ¹⁾
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	15
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	115 115 -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Type of insulation material / insulation material group	PBT / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions [mm]	3,6 / 2,4 x 2,5 mm

Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

Headers with socket contact



- Inverted IPC 35 HC headers for implementing a touch-proof PCB output (in combination with IPC 35 HC plugs) or a PCB/PCB connection (in combination with PC 35 headers)
- Horizontal (0° to the PCB) and vertical (90° to the PCB) versions are available
- DFK versions for fixing in the housing panel
- Integrated threaded flange for screwing to the PCB

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.

The cutout dimensions for the feed-through versions can be found on page 595.

The header can be screwed to the PCB with DFK-IPC 35-SS Order No. 1703166. Screw connection only permitted prior to soldering.

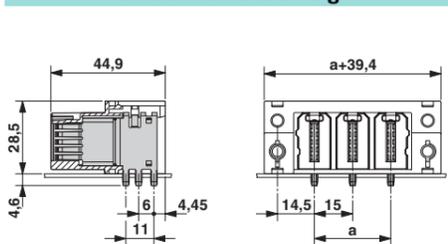
Accessories

For all types	Type	Page
	Marker strips SK 10,0 WH:REEL Order No. 0812188	801
	Keying profile CP-HC Order No. 1686478	38
	Screws for mounting on the housing panel DFK-IPC 35-SS Order No. 1703166	

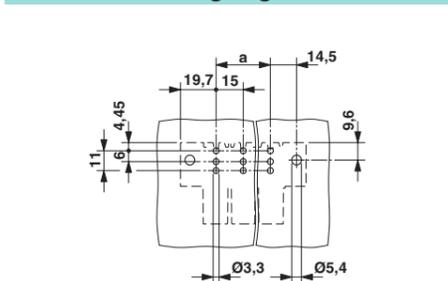


Horizontal, 600 V UL approval

Dimensional drawing



Drilling diagram



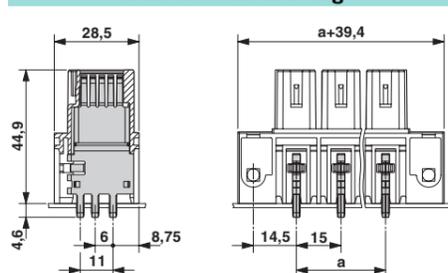
Ordering data

Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 2-GF-15,00	1784910	25
IPC 35 HC/ 3-GF-15,00	1784923	25
IPC 35 HC/ 4-GF-15,00	1784936	25
IPC 35 HC/ 5-GF-15,00	1784949	10
IPC 35 HC/ 6-GF-15,00	1784952	10

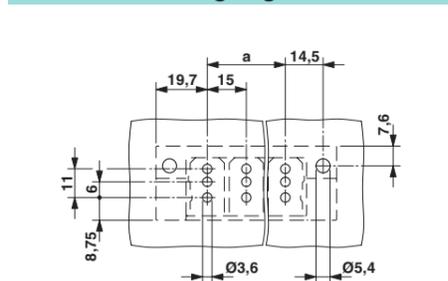


Vertical, 600 V UL approval

Dimensional drawing

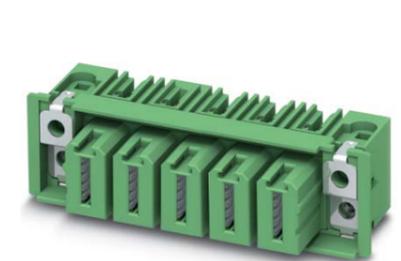


Drilling diagram



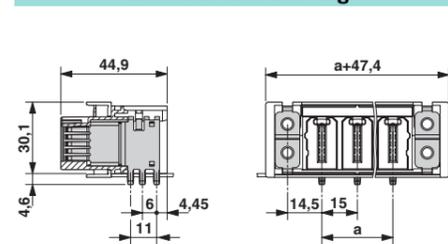
Ordering data

Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 2-GF-15,00	1793558	25
IPC 35 HC/ 3-GF-15,00	1793561	25
IPC 35 HC/ 4-GF-15,00	1793574	25
IPC 35 HC/ 5-GF-15,00	1793587	10
IPC 35 HC/ 6-GF-15,00	1793590	10

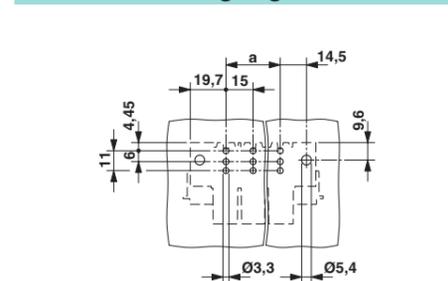


Horizontal, for fixing in the housing panel with shield connection, 600 V UL approval

Dimensional drawing

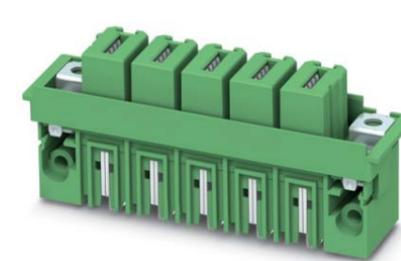


Drilling diagram



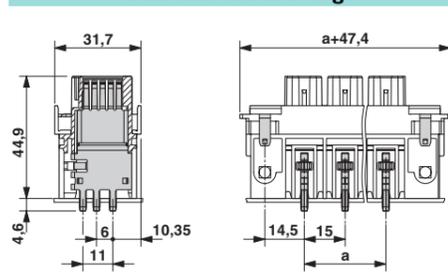
Ordering data

Type	Order No.	Pcs. / Pkt.
DFK-IPC 35 HC/ 2-GF-15,00	1784965	25
DFK-IPC 35 HC/ 3-GF-15,00	1784978	25
DFK-IPC 35 HC/ 4-GF-15,00	1784981	25
DFK-IPC 35 HC/ 5-GF-15,00	1784994	10
DFK-IPC 35 HC/ 6-GF-15,00	1785003	10

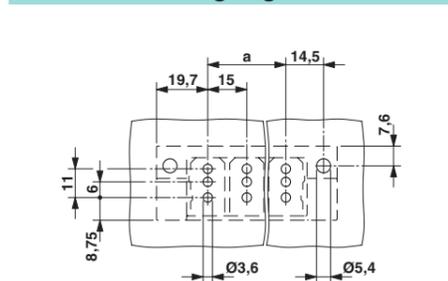


Vertical, for fixing in the housing panel with shield connection, 600 V UL approval

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
DFK-IPC 35 HC/ 2-GF-15,00	1793600	25
DFK-IPC 35 HC/ 3-GF-15,00	1793613	25
DFK-IPC 35 HC/ 4-GF-15,00	1793626	25
DFK-IPC 35 HC/ 5-GF-15,00	1793639	10
DFK-IPC 35 HC/ 6-GF-15,00	1793642	10

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A] 125
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 15
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 8
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 115 115 -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / insulation material group	PBT / IIIa
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 3.6 / 2.4 x 2.5 mm

Feed-through plug-in connectors

Feed-through plug-in connectors

Routing cables through panels

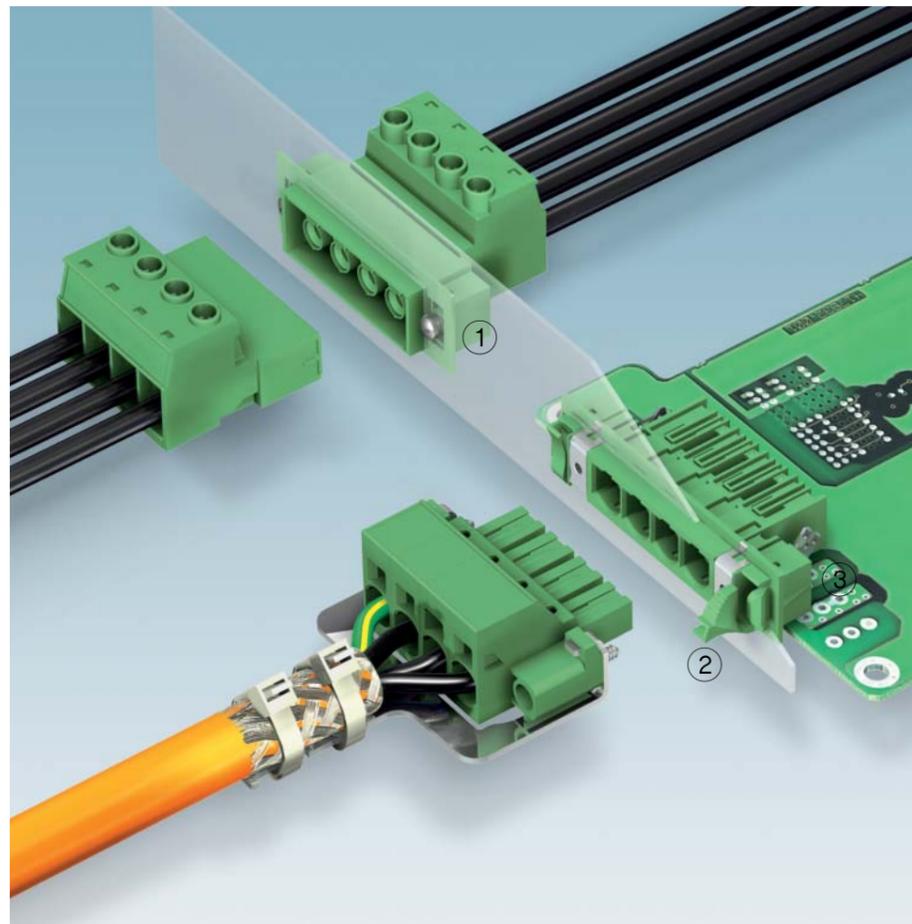
COMBICON power feed-through plug-in connectors enable you to route a conductor through device housing efficiently and without any gaps. PC 5 and PC 16 series feed-through plug-in connectors and headers are inserted in the housing opening and secured with the quick snap-lock mechanism ② without using any additional tools.

As an alternative to the snap-lock mechanism, each plug-in connector also has screw fixings ① for the housing panel. The corresponding screws can be ordered using Order No. 1705449.

In addition to solder-in versions, the version with a screw connection inside the device is a particularly easy-maintenance and fast alternative. Cable/cable connections can therefore be used in devices with a conductor cross section of up to 16 mm² and currents of up to 76 A.

The inverted design, which supports practical connection options, completes the range of feed-through plug-in connectors. In this way, a live device output, for example, can be designed very easily with shock protection.

DFK plug-in connectors in STF/STF-SH versions ③ also offer the option of routing shielding functions to or through the housing panel.



① Screw fixing



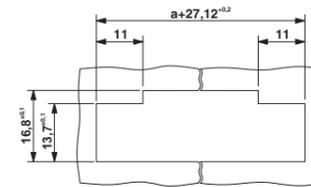
② Snap-lock mechanism



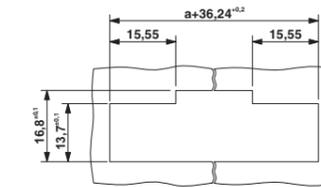
③ Shield routed through with the STF-SH version

Sheet metal cutouts for DFK-PC(V) 5/...G

For G and GU versions



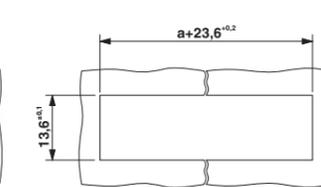
For GF (-SH) and GFU (-SH) versions



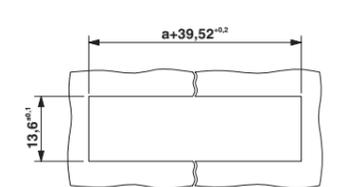
For snap-lock mechanism

Sheet metal cutouts for DFK-PC(V) 16

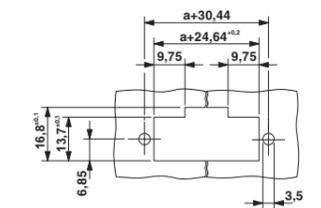
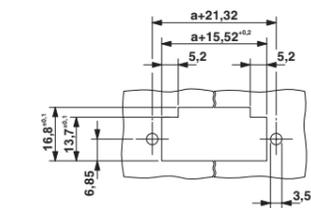
For ST, G, and GU versions



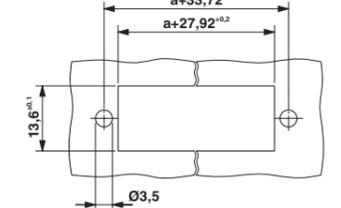
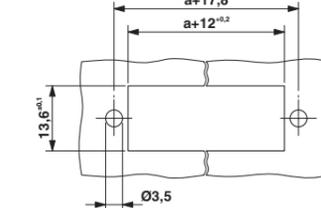
For STF (-SH), GF (-SH), and GFU (-SH) versions



For snap-lock mechanism



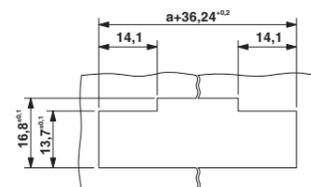
For screw fixing



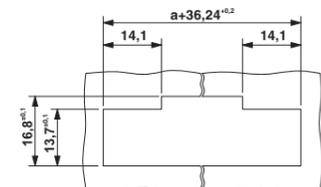
For screw fixing

Sheet metal cutouts for DFK-PC 5/...ST

For ST versions



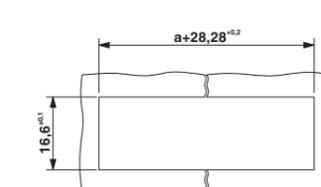
For STF (-SH) versions



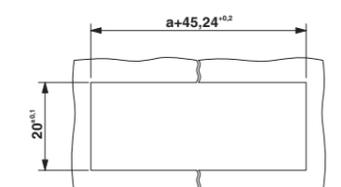
For snap-lock mechanism

Sheet metal cutouts for DFK-IPC(V) 16

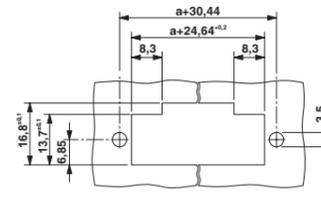
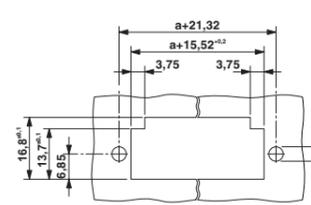
For ST, G, and GU versions



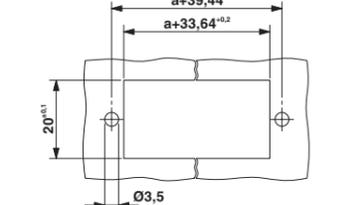
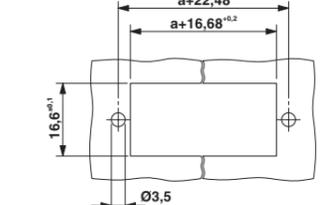
For STF (-SH), GF (-SH), and GFU (-SH) versions



For snap-lock mechanism



For screw fixing

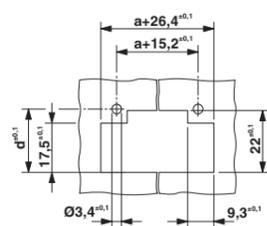
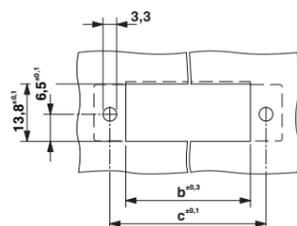


For screw fixing

Sheet metal cutouts for DFK-PC 4

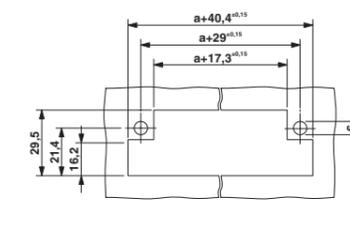
DFK-PC 4/...G-7,62-FS4,8

DFK-PC 4/...GF-7,62



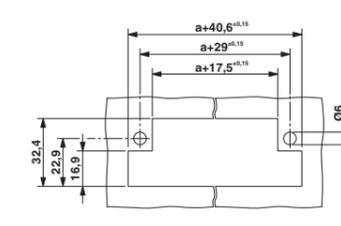
Sheet metal cutouts for PC 35

PC 35 HC/...-GF-15



Sheet metal cutouts for IPC 35

DFK-IPC 35 HC/...-GF-15



Dimensions table

Number of positions	DFK-PC 5	DFK-(I)PC 16	PC 35 HC/...-GF-15	DFK-IPC 35	DFK-PC 4/...FS4,8	DFK-PC 4/...GF		DFK-PC 4/...GF
	Dimension "a"	Dimension "a"	Dimension "a"	Dimension "a"	Dimension "b"	Dimension "c"	Dimension "b"	Dimension "c"
2	7.62	10.16	15.00	15.00	15.19	22.86	22.9	34.1
3	15.24	20.32	30.00	30.00	22.81	30.48	30.5	41.7
4	22.86	30.48	45.00	45.00	30.43	38.10	38.1	49.3
5	30.48	40.64	60.00	60.00	38.05	45.72	45.7	56.9
6	38.10	50.80	75.00	75.00	45.67	53.34	53.3	64.6
7	45.72	60.69			53.29	60.96	61.0	72.2
8	53.34	71.12			60.91	68.58	68.6	79.8
9	60.96	81.28			68.53	76.20	76.2	87.4
10	68.58				76.15	83.82	83.8	95.0
11	76.20				83.77	91.44	91.4	102.7
12	83.82				91.39	99.06	99.1	110.3

Possible panel thickness of 1.0 - 3.0 mm for DFK-PC 5, DFK-(I)PC 16
Possible panel thickness of 1.0 - 5.0 mm for DFK-PC 4
Possible panel thickness of 1.0 - 3.0 mm for PC 35, DFK-IPC 35

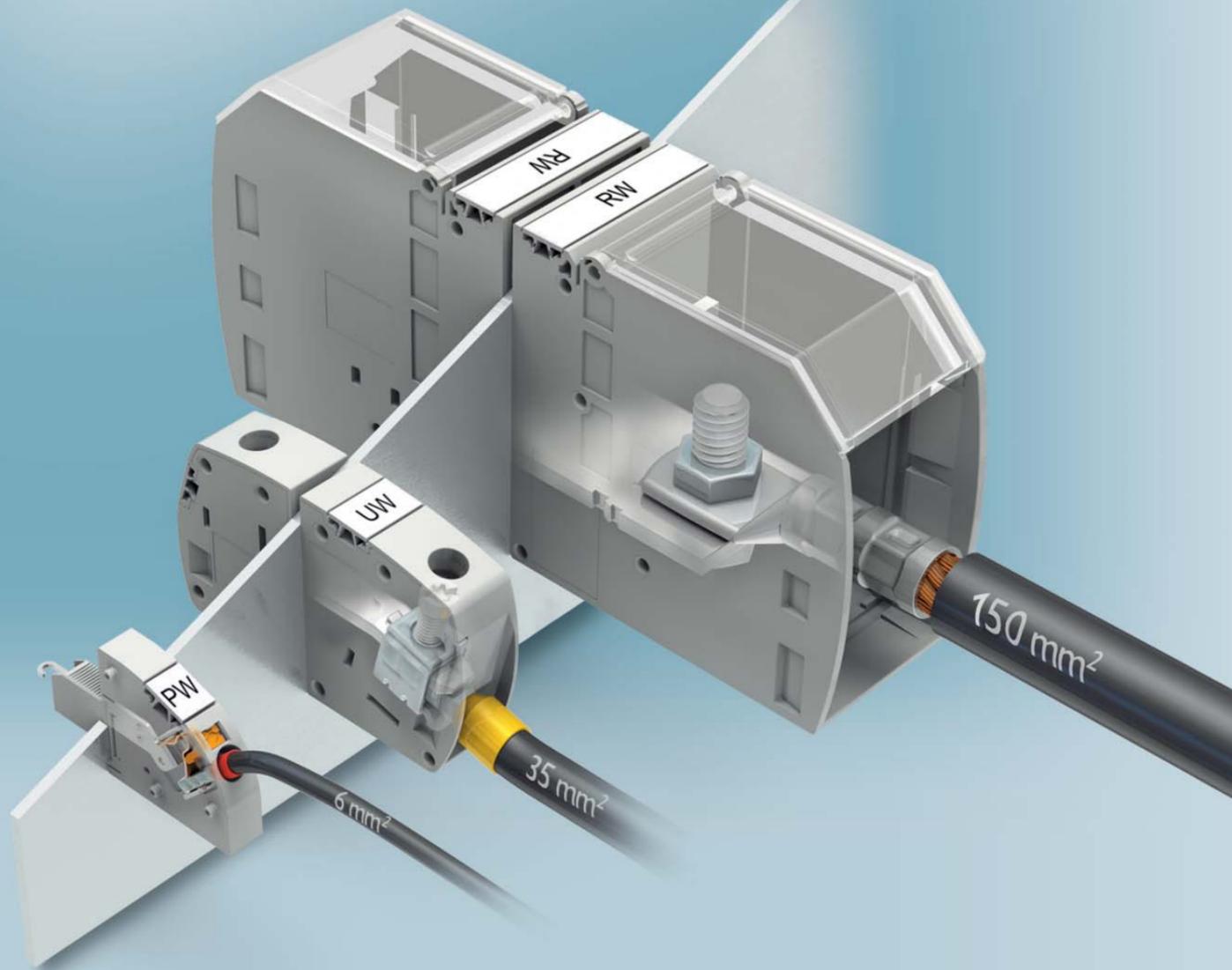
Feed-through terminal blocks for high-current applications

With the feed-through terminal blocks, you can freely select the connection technology. Choose between traditional screw connection, robust bolt connection, and convenient push-in connection - whichever best suits your application. The portfolio includes terminal blocks in the connection range from 0.2 to 150 mm² with a current carrying capacity of up to 309 A. Furthermore, the terminal blocks have unlimited UL approval up to 600 V UL, and up to 1000 V according to IEC.

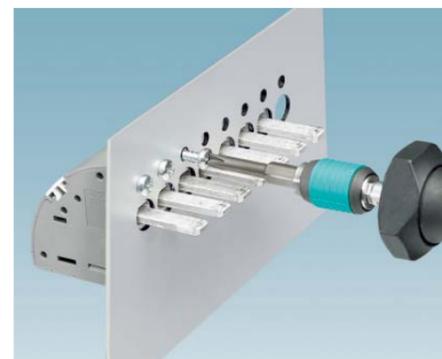
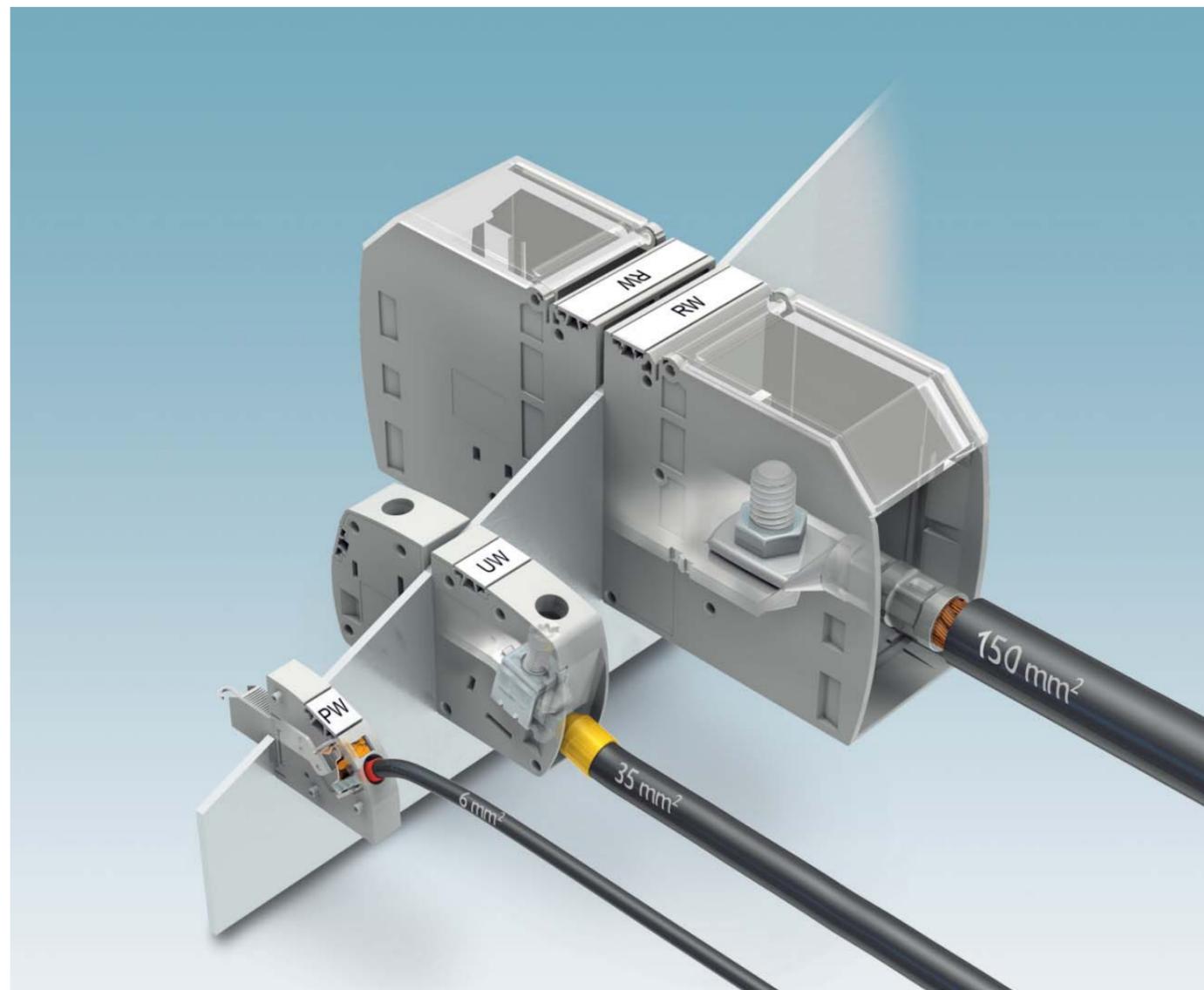
The feed-through terminal blocks are available in standard or molded design, each with horizontal or vertical connection direction. The different connection directions mean that the product range is able to offer a space-saving connection for all installation locations.

The feed-through terminal blocks are available in single-position design with or without engagement pin on the outer panel. The engagement pin enables the terminal blocks to be snapped together side-by-side in the required number of positions. For neat termination or as single terminal blocks, the terminal blocks are used without the engagement pin.

The feed-through terminal blocks offer users the complete range of wiring "through the panel". The terminal blocks consist of an internal and external element. These pass through the housing panel and snap together easily without the need for tools. The precise engagement mechanism ensures a tight fit, however thick the panel. For high mechanical strain, maximum mechanical stability can be achieved with the option of using screws, rivets, and flange.



Product range overview	598
(Molded) feed-through terminal blocks with angled push-in spring connection, PW series	601
Inside with solder or spade connection up to 41 A/6 mm ²	601
Inside with cable lug connection up to 76 A/16 mm ²	603
Feed-through terminal blocks with horizontal push-lock spring connection, PLW series	605
Inside with angled push-in connection up to 41 A/6 mm ² , outside 16 mm ²	605
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series	607
Inside with screw, solder or spade connection up to 41 A/6 mm ²	607
Inside with screw, solder connection up to 76 A/16 mm ²	610
Inside with screw, cable lug connection up to 101 A/25 mm ²	612
Inside with screw, cable lug connection up to 125 A/35 mm ²	614
Inside with screw, cable lug connection up to 150 A/50 mm ²	619
Inside with screw, cable lug connection up to 232 A/95 mm ²	620
Vertical double connection outside up to 152 A/35 mm ²	623
(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series	624
With captive cover nut up to 76 A/16 mm ²	624
With captive cover nut up to 125 A/35 mm ²	626
In open housing up to 76 A/16 mm ²	628
In open housing up to 125 A/35 mm ²	630
With transparent cover up to 76 A/16 mm ²	632
With transparent cover up to 125 A/35 mm ²	634
In open housing up to 309 A/150 mm ²	636
Special designs, feed-through terminal blocks with screw connection	639
DFK 4 with screw connection	639
DFK 5-9,5 with screw connection	641
VDFK with screw connection for molding	643



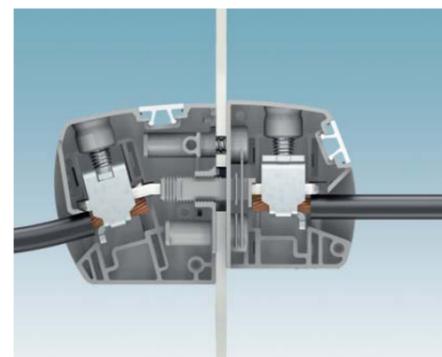
Alternative fixing options for higher levels of mechanical strain are provided by ... screws,



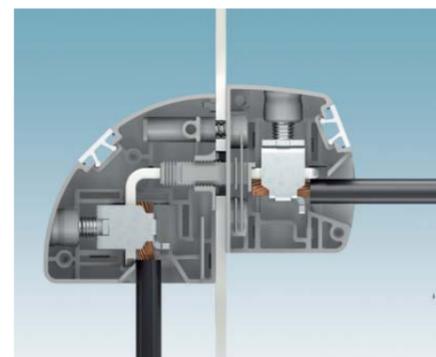
... rivet,



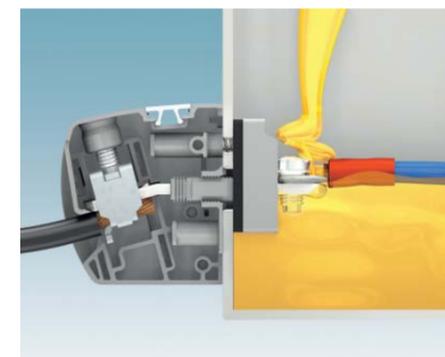
... flange.



For effective and space-saving conductor routing, whatever the mounting position, high-current feed-through terminal blocks with horizontal and ...



... vertical conductor routing are available.



The molded versions have been designed specifically to meet the requirements associated with molded devices. They ensure maximum tightness of seal, even with low-viscosity sealing compounds.



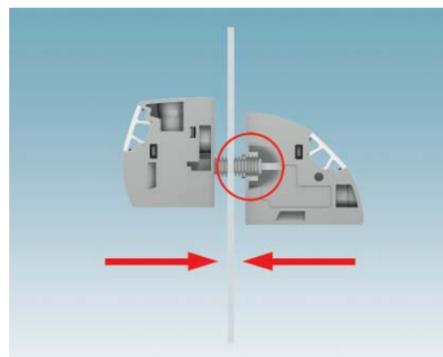
Panels pose no obstacle

Featuring a compact design, the high-current feed-through terminal blocks give you freedom of choice where connection technology is concerned.



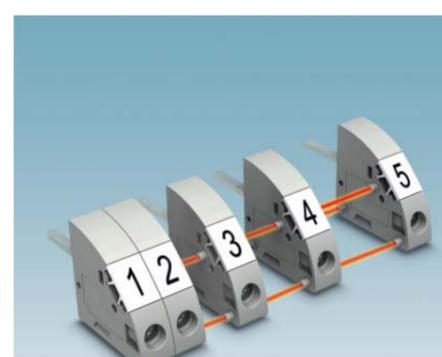
Can be used in any application up to UL 600 V

The product range was specifically developed for devices and applications at the upper end of the power range. Their performance features allow them to be used anywhere in the world.



Easy mounting

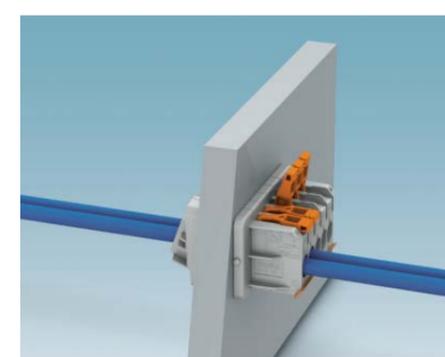
The terminal blocks consist of an internal and external element. These pass through the housing panel and snap together easily without the need for tools. The precise engagement mechanism ensures a tight fit, however thick the panel.



The various engagement pin versions can be used to create pre-assembled blocks and speed up mounting.



The universal marking groove, an integral part of the housing design, enables clear marking of the device connection.

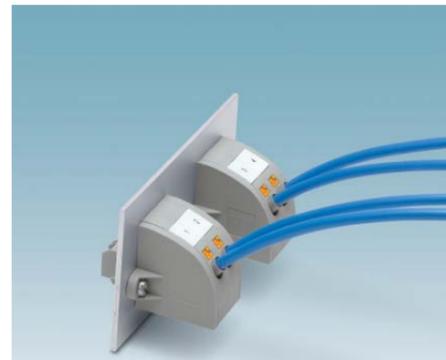


The new PLW series panel feed-through terminal blocks for tool-free operation speed up conductor feed-through with lever technology outside the device and push-in connection technology inside the device; see page 605.

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

Inside with solder or spade connection up to 41 A/6 mm²



- User-friendly Push-in connection
- Tool-free wiring of conductors with ferrules or solid conductors
- The integrated latch allows you to re-release connected conductors with any type of tool
- Molded versions ensure maximum tightness of seal
- Easy grouping with engagement pin versions
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Flange plates for alternative mounting from the outside of the device

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.

Accessories

For all types	Type
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517
	Flange plate PW 4-F Order No. 3000403

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

	PW 4-POT-SCM	PW 4-POT-SL
Current/conductor cross section	18 / 4 // 18 / 4	32 / 4 // 32 / 4
Rated voltage	800	800
Connection capacity		
Solid / stranded	0.2 - 4 / 0.2 - 6 / 24 - 12	0.2 - 4 / 0.2 - 6 / 24 - 12
Stranded with ferrules without plastic sleeve	0.25 - 6	0.25 - 6
Stranded with ferrules with plastic sleeve	0.25 - 4	0.25 - 4
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage	800 1000 1000	800 1000 1000
Rated surge voltage	8 8 8	8 8 8
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	300 300 600	300 300 600
Nominal current	30 30 5	30 30 5
Connection capacity AWG	24 - 10 24 - 10 24 - 10	24 - 10 24 - 10 24 - 10
Approval data (CSA)	B C D	B C D
Nominal voltage	- - -	- - -
Nominal current	- - -	- - -
Connection capacity AWG	- - -	- - -
General data		
Stripping length	10	10
Insulation material	PA	PA
Inflammability class according to UL 94	V0	V0
Panel thickness	1 - 4	1 - 4

Description

Feed-through terminal blocks for high-current applications

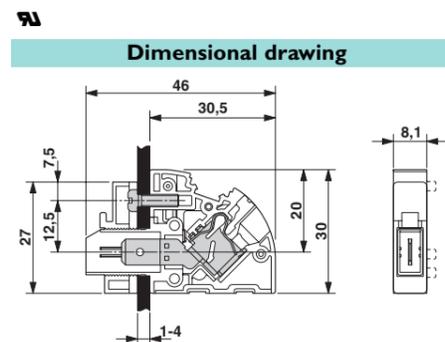
(Molded) feed-through terminal blocks with angled push-in spring connection, PW series



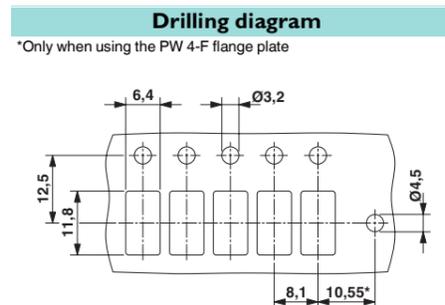
Internal part with spade connection



Internal part with solder connection

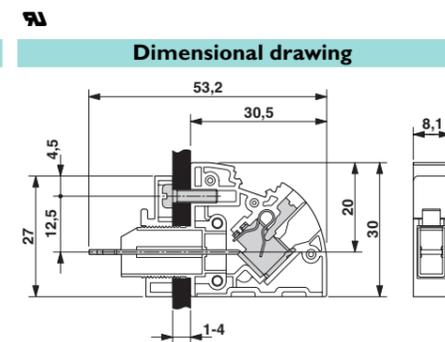


Dimensional drawing

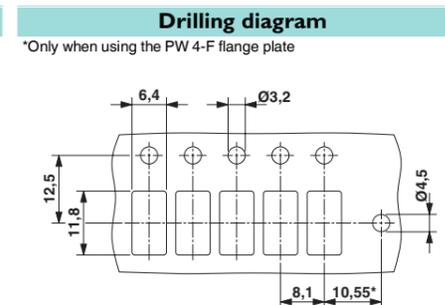


Drilling diagram

*Only when using the PW 4-F flange plate



Dimensional drawing



Drilling diagram

*Only when using the PW 4-F flange plate

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PW 4-POT-SCM	3056938	50
Feed-through terminal block, with engagement pin		
PW 4-POT-SCM/S	3056941	50
ZB 8.../ZBF 8... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PW 4-POT-SL	3059731	50
Feed-through terminal block, with engagement pin		
PW 4-POT-SL/S	3059744	50
ZB 8.../ZBF 8... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Ordering data

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

Inside with solder or spade connection up to 41 A/6 mm²



- User-friendly Push-in connection
- Tool-free wiring of conductors with ferrules or solid conductors
- Molded versions ensure maximum tightness of seal
- Easy grouping with engagement pin versions
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Flange plates for alternative mounting from the outside of the device

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.

Accessories

For all types	Type
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517
	Flange plate PW 4-F Order No. 3000403

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

	PWO 4-POT-SCM			PWO 4-POT-SL			
Current/conductor cross section	18 / 4 // 18 / 4			32 / 4 // 32 / 4			
Rated voltage	800			800			
Connection capacity	0.2 - 4 / 0.2 - 6 / 24 - 12			0.2 - 4 / 0.2 - 6 / 24 - 12			
Solid / stranded	0.25 - 6			0.25 - 6			
Stranded with ferrules without plastic sleeve	0.25 - 4			0.25 - 4			
Stranded with ferrules with plastic sleeve	0.25 - 4			0.25 - 4			
Insulation coordination							
Surge voltage category / pollution degree	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	
Rated insulation voltage	800	1000	1000	800	1000	1000	
Rated surge voltage	8	8	8	8	8	8	
Approval data (UL/CUL)	B	C	D	B	C	D	
Nominal voltage	300	300	600	300	300	600	
Nominal current	30	30	5	30	30	5	
Connection capacity AWG	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	
Approval data (CSA)	B	C	D	B	C	D	
Nominal voltage	-	-	-	-	-	-	
Nominal current	-	-	-	-	-	-	
Connection capacity AWG	-	-	-	-	-	-	
General data							
Stripping length	10			10			
Insulation material	PA			PA			
Inflammability class according to UL 94	V0			V0			
Panel thickness	1 - 4			1 - 4			

Description

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

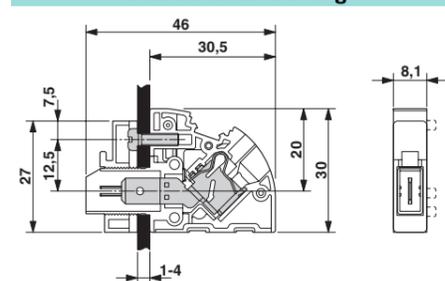


Internal part with spade connection

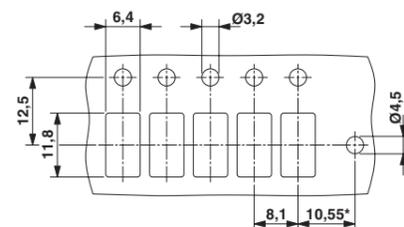


Internal part with solder connection

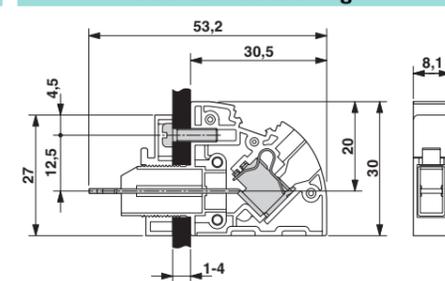
Dimensional drawing



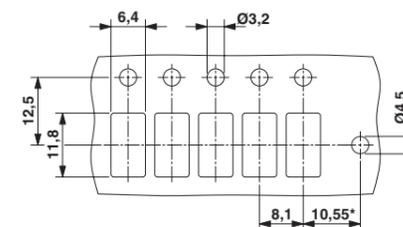
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PWO 4-POT-SCM	3056912	50
Feed-through terminal block, with engagement pin		
PWO 4-POT-SCM/S	3056925	50

ZB 8.../ZBF 8... marking material (see Catalog 5)
 TMT (EX9,5)R marking material (see online catalog)

Ordering data

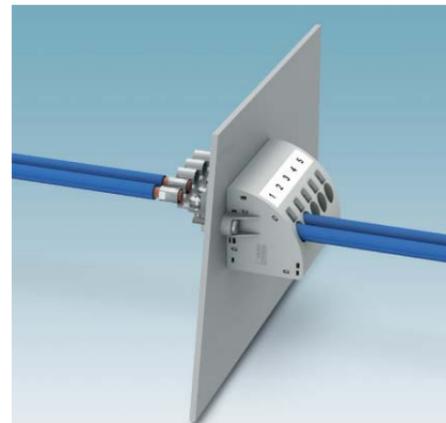
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PWO 4-POT-SL	3059715	50
Feed-through terminal block, with engagement pin		
PWO 4-POT-SL/S	3059728	50

ZB 8.../ZBF 8... marking material (see Catalog 5)
 TMT (EX9,5)R marking material (see online catalog)

Feed-through terminal blocks for high-current applications

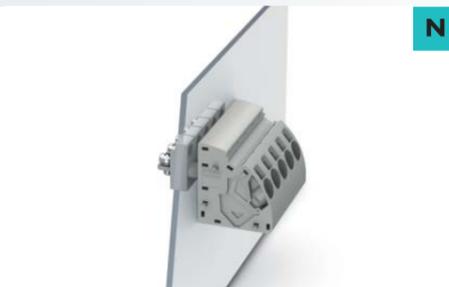
(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

Inside with cable lug connection up to **76 A/16 mm²**



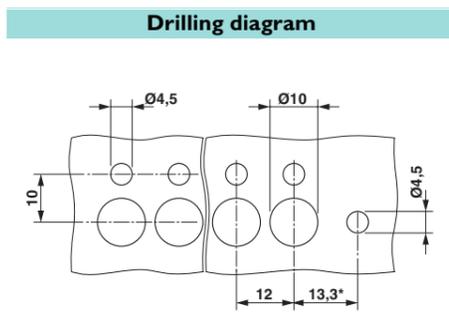
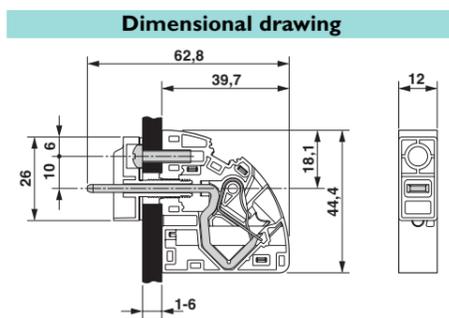
- Convenient push-in connection
- The two halves of the terminal can be easily assembled by simply snapping them together
- Tool-free wiring of conductors with ferrules or solid conductors
- Molded version for maximum tightness
- Easy grouping with engagement pin version
- Spacer plates increase air and creepage distances
- Flange plates as an alternative mounting option

Notes:
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
Inside = left side of portrait photos Outside = right side of portrait photos
1) When using DP-PWO 16-9 spacer plate (1705658)



16 mm² molded feed-through terminal block, external part with push-in connection, internal part with cable lug connection

Accessories	
For all types	Type
	Spacer plate, 3 mm thick DP-PWO 16-3 Order No. 1705655
	Spacer plate, 6 mm thick DP-PWO 16-6 Order No. 1705657
	Spacer plate, 9 mm thick DP-PWO 16-9 Order No. 1705658
	Flange plate PWO 16-F Order No. 1705659



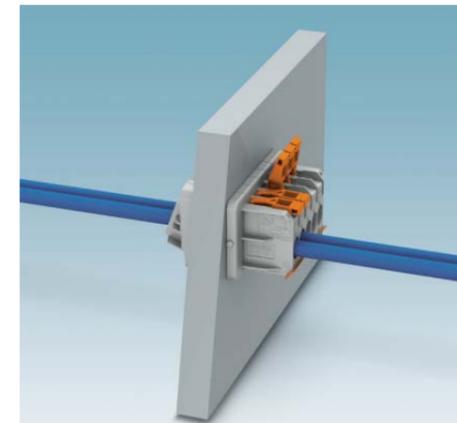
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
PWO 16-POT	1705653	50	
Feed-through terminal block, with engagement pin			
PWO 16-POT/S	1705654	50	
ZB 12.../ZBF 12... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	76 / 16 // 76 / 16
Rated voltage [V]	1000 ¹⁾
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	1.5 - 16 / 1.5 - 16 / 14 - 4
Stranded with ferrules without plastic sleeve [mm ²]	1.5 - 16
Stranded with ferrules with plastic sleeve [mm ²]	1.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	1.5 - 4
Cross section with insertion bridge (solid/stranded) [mm ²]	- / -
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 ¹⁾ 1000 ¹⁾ 1000 ¹⁾
Rated surge voltage [kV]	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	18
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

Feed-through terminal blocks for high-current applications

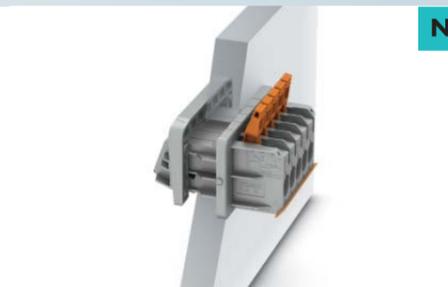
Feed-through terminal blocks with horizontal push-lock spring connection, PLW series

Inside with angled push-in connection up to **41 A/6 mm²**, outside 16 mm²



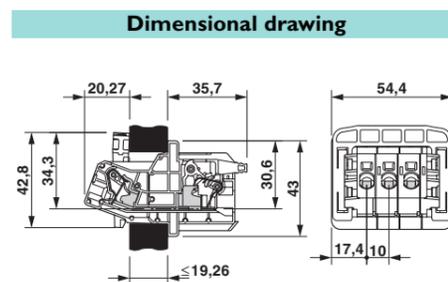
- Panel feed-through terminal blocks for tool-free operation with fast connection technology
- Outside the device with installation-friendly push-lock connection up to 16 mm² solid
- Inside the device with quick-fit push-in technology up to 6 mm²
- With sealing option for unauthorized operation
- Spacer for 3 mm panel thickness

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos



16/6 mm² feed-through terminal block, external part with push-lock connection, internal part with push-in connection

Accessories	
For all types	Type
	Spacer for 3 mm device panels, 3-pos. DP-PLW 16-6/3 3MM Order No. 1705937
	Spacer for 3 mm device panels, 4-pos. DP-PLW 16-6/4 3MM Order No. 1705938
	Spacer for 3 mm device panels, 5-pos. DP-PLW 16-6/5 3MM Order No. 1705939



Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	41 / 16 // 41 / 16
Rated voltage [V]	1000
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	2.5 - 16 / 2.5 - 25 / 14 - 4
Stranded with ferrules without plastic sleeve [mm ²]	2.5 - 16
Stranded with ferrules with plastic sleeve [mm ²]	2.5 - 16
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	- / -
Stranded with ferrules without plastic sleeve [mm ²]	-
Stranded with TWIN ferrule with plastic sleeve [mm ²]	-
Cross section with insertion bridge (solid/stranded) [mm ²]	- / -
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	18
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	19.26

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Feed-through terminal block, 3-pos.			
PLW 16-6/ 3-10	1821067	15	
Feed-through terminal block, 4-pos.			
PLW 16-6/ 4-10	1821070	15	
Feed-through terminal block, 5-pos.			
PLW 16-6/ 5-10	1821083	15	

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Inside with screw, solder or spade connection up to 41 A/6 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
1) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

Accessories		
For all types	Type	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge, can be separated EBS 10-8 Order No. 3118135	
For UW 4 .../S		
	Spacer plate, 3 mm thick DP-UW 4 Order No. 3074499	
	Flange plate UW 4-F Order No. 3074512	
For UWV 4 .../S		
	Spacer plate, 3 mm thick DP-UWV 4 Order No. 3074509	
	Flange plate UWV 4-F Order No. 3074596	

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/stranded)	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

UW 4

UW 4			UWV 4		
Current/conductor cross section	41 / 6 // 32 / 4		41 / 6 // 32 / 4		
Rated voltage	500 ¹⁾		500 ¹⁾		
Connection capacity	0.2 - 6 / 0.2 - 4 / 24 - 10		0.2 - 6 / 0.2 - 4 / 24 - 10		
Solid / stranded	0.25 - 4		0.25 - 4		
Stranded with ferrules without plastic sleeve	0.25 - 4		0.25 - 4		
Stranded with ferrules with plastic sleeve	0.25 - 4		0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)	0.2 - 1.5 / 0.2 - 1.5		0.2 - 1.5 / 0.2 - 1.5		
Solid / stranded	0.25 - 1.5		0.25 - 1.5		
Stranded with ferrules without plastic sleeve	0.5 - 2.5		0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	1.5 - 4 / 1.5 - 2.5		1.5 - 4 / 1.5 - 2.5		
Cross section with insertion bridge (solid/stranded)	1.5 - 4 / 1.5 - 2.5		1.5 - 4 / 1.5 - 2.5		
Insulation coordination					
Surge voltage category / pollution degree					
Rated insulation voltage	500 ¹⁾ 630 ¹⁾ 1000 ¹⁾		500 ¹⁾ 630 ¹⁾ 1000 ¹⁾		
Rated surge voltage	6 ¹⁾ 6 ¹⁾ 6 ¹⁾		6 ¹⁾ 6 ¹⁾ 6 ¹⁾		
Approval data (UL/CUL)	B C D		B C D		
Nominal voltage	300 ¹⁾ 300 ¹⁾ 600 ¹⁾		300 ¹⁾ 300 ¹⁾ 600 ¹⁾		
Nominal current	30 30 5		30 30 5		
Connection capacity AWG	24 - 10 24 - 10 24 - 10		24 - 10 24 - 10 24 - 10		
Approval data (CSA)	B C D		B C D		
Nominal voltage	-		-		
Nominal current	-		-		
Connection capacity AWG	-		-		
General data					
Stripping length	9		9		
Terminal sleeve: Thread / Torque	M3 / 0.6 - 0.8		M3 / 0.6 - 0.8		
Insulation material	PA		PA		
Inflammability class according to UL 94	V0		V0		
Panel thickness	1 - 4		1 - 4		

UW 4

Description

Feed-through terminal blocks for high-current applications

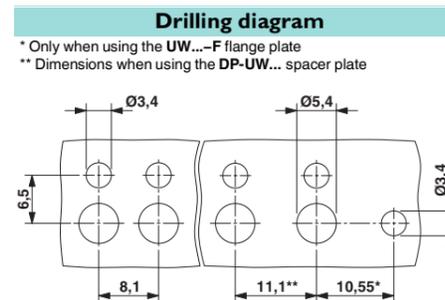
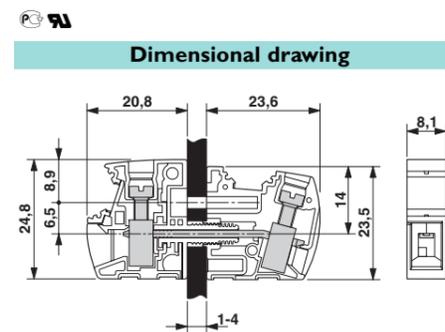
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Horizontal conductor connection

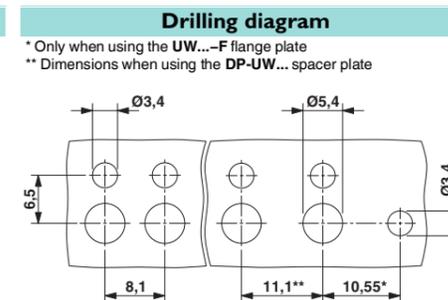
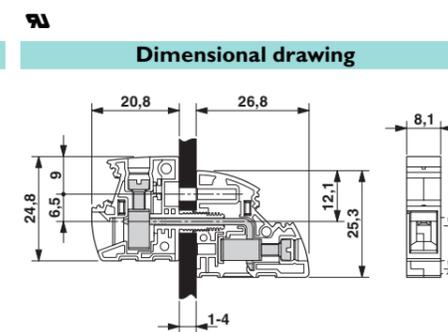


Vertical conductor connection



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 4	3073306	50
Feed-through terminal block, with engagement pin		
UW 4/S	3073319	50
ZB 8.../ZBF 8... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		



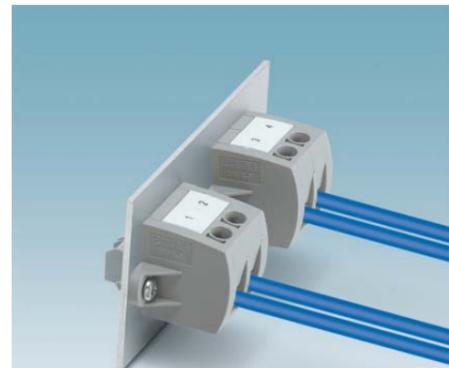
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 4	3073380	50
Feed-through terminal block, with engagement pin		
UWV 4/S	3073393	50
ZB 8.../ZBF 8... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Inside with screw, solder or spade connection up to 41 A/6 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation, thanks to the integrated snap principle in the insulating housing
- Easy grouping with engagement pin versions
- Molded type ensures maximum seal and is available with a slip-on or solder connection.
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
1) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

Accessories

For all types	Type	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge, can be separated EBS 10-8 Order No. 3118135	
For UW 4 .../S		
	Spacer plate, 3 mm thick DP-UW 4 Order No. 3074499	
	Flange plate UW 4-F Order No. 3074512	

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	[mm ²] / [mm ²] / AWG
Solid / stranded	
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/stranded)	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

	UW 4-POT-SCM			UW 4-POT-SL		
Current/conductor cross section	41 / 6 // 32 / 4			41 / 6 // 32 / 4		
Rated voltage	800 ¹⁾			800 ¹⁾		
Connection capacity	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Solid / stranded	0.25 - 4			0.25 - 4		
Stranded with ferrules without plastic sleeve	0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Solid / stranded	0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules without plastic sleeve	0.5 - 2.5			0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	1.5 - 4 / 1.5 - 2.5			1.5 - 4 / 1.5 - 2.5		
Cross section with insertion bridge (solid/stranded)	1.5 - 4 / 1.5 - 2.5			1.5 - 4 / 1.5 - 2.5		
Insulation coordination						
Surge voltage category / pollution degree	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	500	630	1000 ¹⁾	500	630	1000 ¹⁾
Rated surge voltage	6	6	6	6	6	6
Approval data (UL/CUL)	B	C	D	B	C	D
Nominal voltage	300 ¹⁾	300 ¹⁾	600 ¹⁾	300 ¹⁾	300 ¹⁾	600 ¹⁾
Nominal current	30	30	5	30	30	5
Connection capacity AWG	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
Approval data (CSA)	B	C	D	B	C	D
Nominal voltage	-	-	-	-	-	-
Nominal current	-	-	-	-	-	-
Connection capacity AWG	-	-	-	-	-	-
General data						
Stripping length	10			10		
Terminal sleeve: Thread / Torque	M3 / 0.6 - 0.8			M3 / 0.6 - 0.8		
Insulation material	PA			PA		
Inflammability class according to UL 94	V0			V0		
Panel thickness	1 - 4			1 - 4		

Description

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

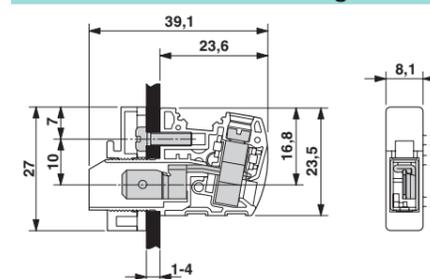


Internal part with spade connection



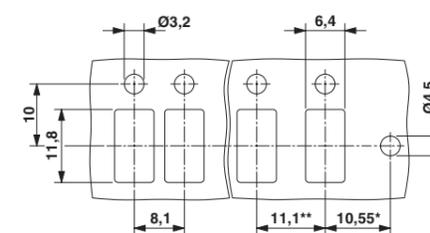
Internal part with solder connection

Dimensional drawing

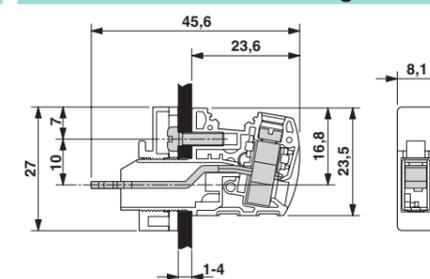


Drilling diagram

*Only when using the UW...-F flange plate
**Dimensions when using the DP-UW... spacer plate

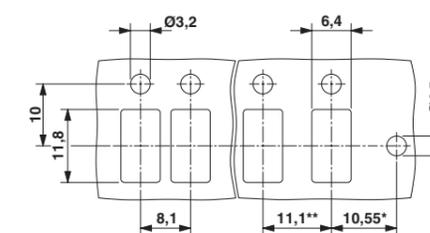


Dimensional drawing



Drilling diagram

*Only when using the UW...-F flange plate
**Dimensions when using the DP-UW... spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 4-POT-SCM	3056996	50
Feed-through terminal block, with engagement pin		
UW 4-POT-SCM/S	3056909	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 4-POT-SL	3059757	50
Feed-through terminal block, with engagement pin		
UW 4-POT-SL/S	3059760	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

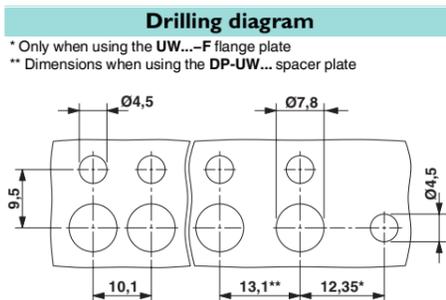
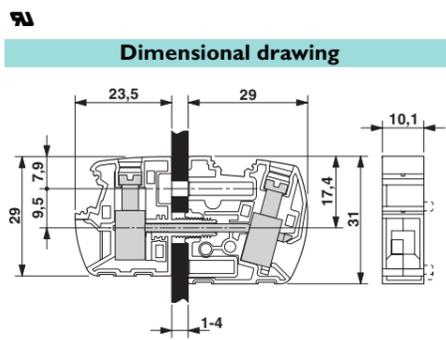
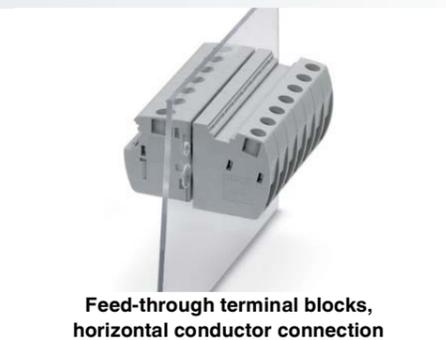
Inside with screw, solder connection up to 76 A/16 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
 1) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

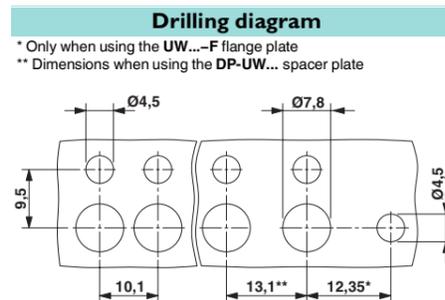
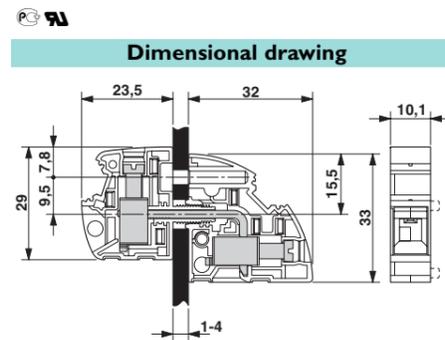
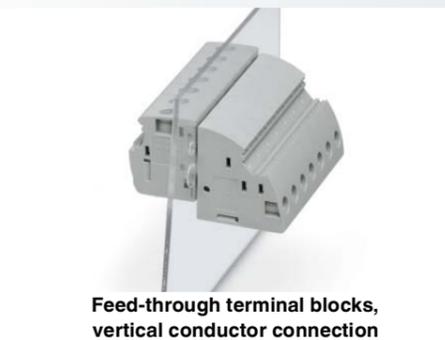
Accessories	
For all types	Type Screwdriver SZS 1,0 x 4,0 Order No. 1205066
	Insertion bridge, can be separated EBS 10-10 Order No. 0203137
For UW 10 .../S	Spacer plate, 3 mm thick DP-UW 10 Order No. 3074389
	Flange plate UW 10-F Order No. 3074525
For UWV 10 .../S	Spacer plate, 3 mm thick DP-UWV 10 Order No. 3074415
	Flange plate UWV 10-F Order No. 3074606



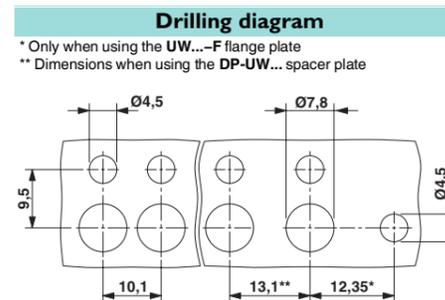
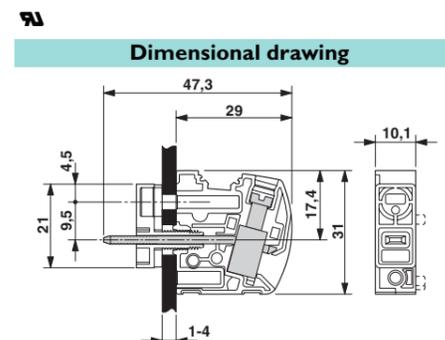
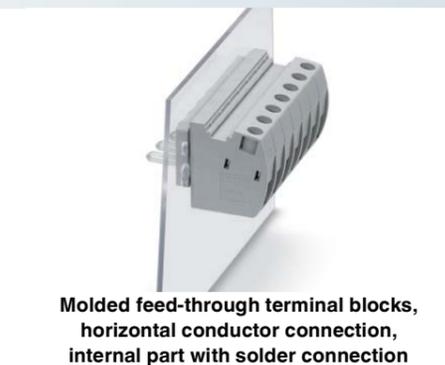
Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UW 10	3073322	50	
Feed-through terminal block, with engagement pin			
UW 10/S	3073335	50	
ZB 10.../ZBF 10... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			

Feed-through terminal blocks for high-current applications

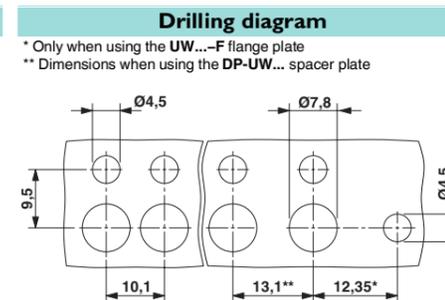
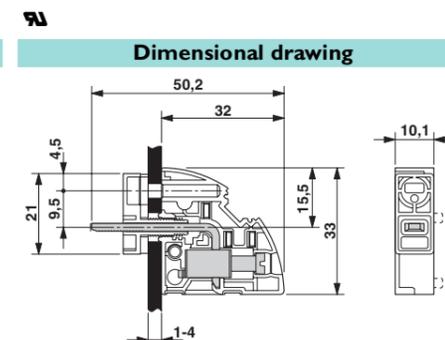
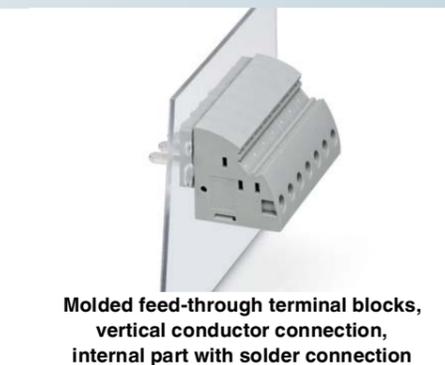
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UWV 10	3073403	50	
Feed-through terminal block, with engagement pin			
UWV 10/S	3073416	50	
ZB 10.../ZBF 10... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UW 10-POT	3073461	50	
Feed-through terminal block, with engagement pin			
UW 10-POT/S	3073474	50	
ZB 10.../ZBF 10... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UWV 10-POT	3073526	50	
Feed-through terminal block, with engagement pin			
UWV 10-POT/S	3073539	50	
ZB 10.../ZBF 10... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²] 76 / 16 // 57 / 10
Rated voltage	[V] 500 ¹⁾
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.5 - 16 / 0.5 - 10 / 20 - 6
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 10
Stranded with ferrules with plastic sleeve	[mm ²] 0.5 - 10
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.5 - 4 / 0.5 - 4
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 6
Cross section with insertion bridge (solid/stranded)	[mm ²] 2.5 - 10 / 2.5 - 10
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 500 ¹⁾ 630 ¹⁾ 1000 ¹⁾
Rated surge voltage	[kV] 6 ¹⁾ 6 ¹⁾ 6 ¹⁾
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 ¹⁾ 300 ¹⁾ 600 ¹⁾
Nominal current	[A] 65 65 5
Connection capacity AWG	AWG 20 - 6 20 - 6 20 - 6
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 11
Terminal sleeve: Thread / Torque	- / [Nm] M4 / 1.5 - 1.8
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness	[mm] 1 - 4

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

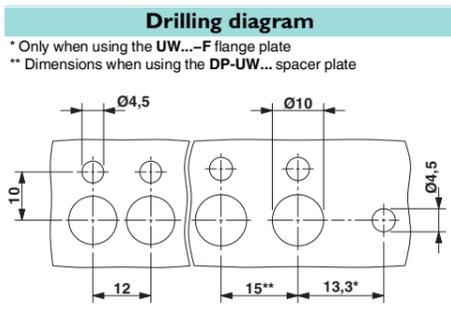
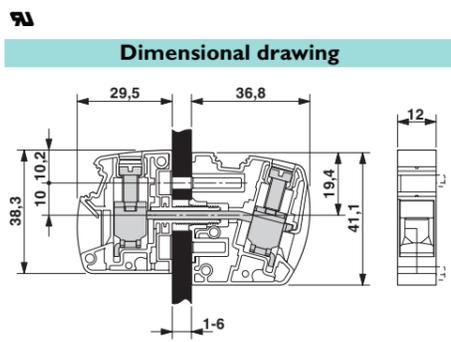
Inside with screw, cable lug connection up to 101 A/25 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
 Notes on connecting aluminum conductors can be found at: www.phoenixcontact.net/products.
 1) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

Accessories	
For all types	Type Screwdriver SZS 1,0 x 4,0 Order No. 1205066
For UW 16 .../S	Spacer plate, 3 mm thick DP-UW 16 Order No. 3074392
	Flange plate UW 16-F Order No. 3074538
For UWV 16 .../S	Spacer plate, 3 mm thick DP-UWV 16 Order No. 3074428
	Flange plate UWV 16-F Order No. 3074619



Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 16	3073348	50
Feed-through terminal block, with engagement pin		
UW 16/S	3073351	50
ZB 12.../ZBF 12... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	101 / 25 // 76 / 16
Rated voltage [V]	800 ¹⁾
Connection capacity [mm ²] / [mm ²] / AWG	6 - 25 / 6 - 16 / 10 - 4
Stranded with ferrules without plastic sleeve [mm ²]	6 - 16
Stranded with ferrules with plastic sleeve [mm ²]	6 - 16
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²]	
Solid / stranded [mm ²]	2.5 - 10 / 2.5 - 6
Stranded with ferrules without plastic sleeve [mm ²]	4 - 6
Stranded with TWIN ferrule with plastic sleeve [mm ²]	4 - 6
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	800 ¹⁾ 1000 ¹⁾ 1000 ¹⁾
Rated surge voltage [kV]	8 ¹⁾ 8 ¹⁾ 8 ¹⁾
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 ¹⁾ 600 ¹⁾ -
Nominal current [A]	85 85 -
Connection capacity AWG	10 - 4 10 - 4 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	16
Terminal sleeve: Thread / Torque - / [Nm]	M5 / 2.5 - 3
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



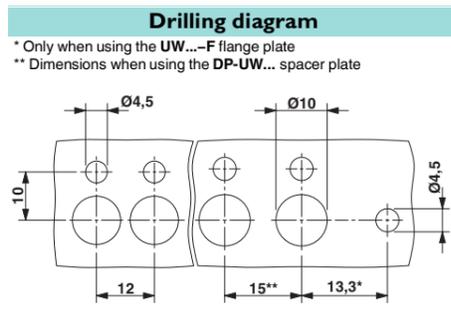
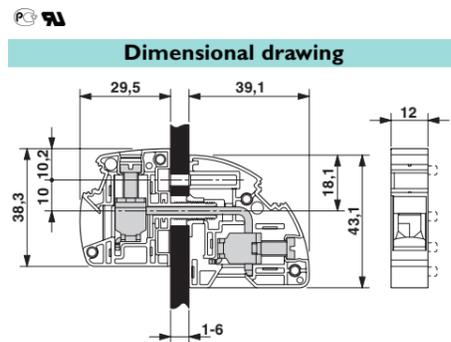
Feed-through terminal blocks, vertical conductor connection



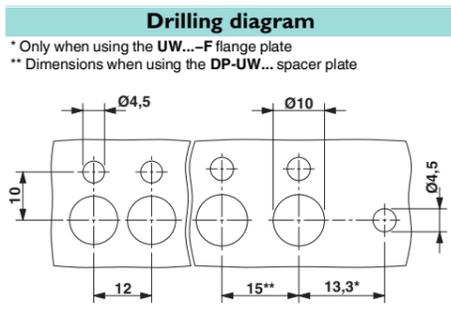
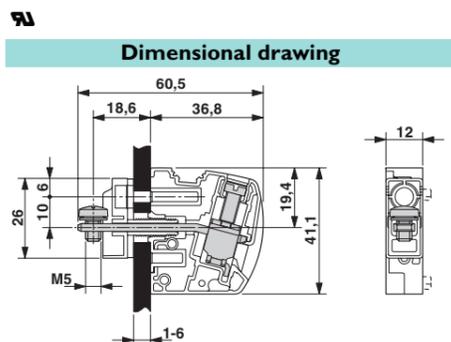
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 screw connection



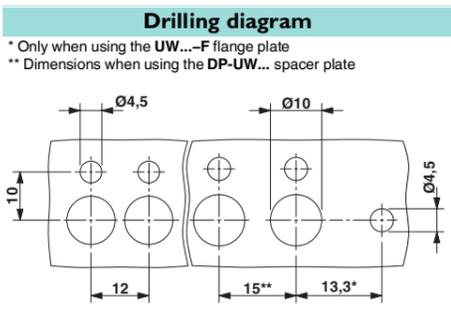
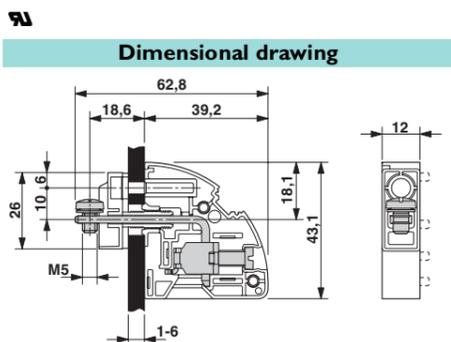
Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 screw connection



Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 16	3073419	50
Feed-through terminal block, with engagement pin		
UWV 16/S	3073432	50
ZB 12.../ZBF 12... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		



Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 16-POT	3073487	50
Feed-through terminal block, with engagement pin		
UW 16-POT/S	3073490	50
ZB 12.../ZBF 12... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		



Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 16-POT	3073542	50
Feed-through terminal block, with engagement pin		
UWV 16-POT/S	3073555	50
ZB 12.../ZBF 12... marking material (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Inside with screw, cable lug connection up to 125 A/35 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
 Notes on connecting aluminum conductors can be found at: www.phoenixcontact.net/products.
 1) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.



Feed-through terminal blocks, horizontal conductor connection



Feed-through terminal blocks, vertical conductor connection

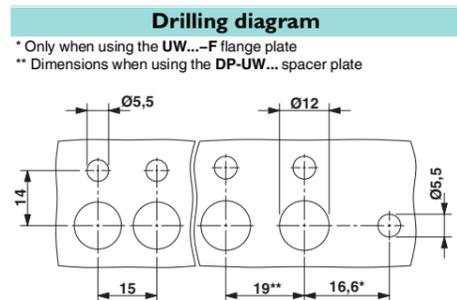
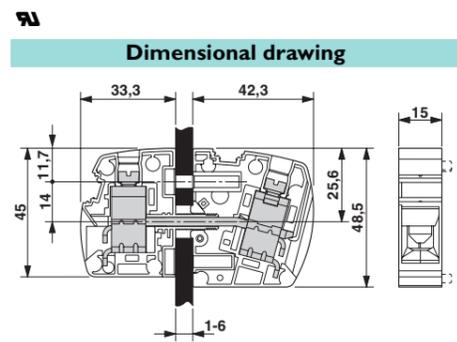


Molded feed-through terminal blocks, horizontal conductor connection, internal part with M6 screw connection

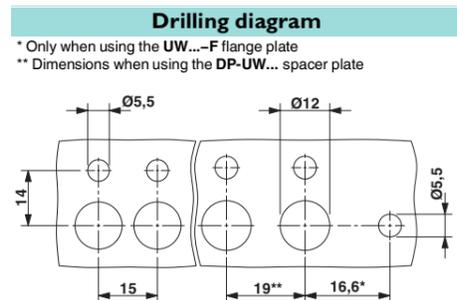
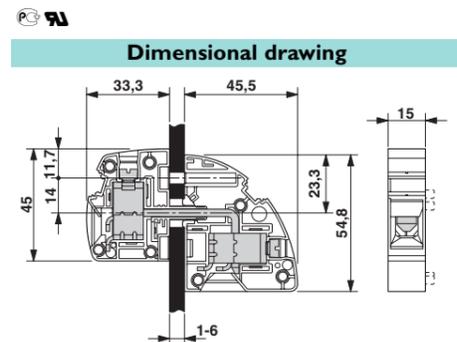


Molded feed-through terminal blocks, vertical conductor connection, internal part with M6 screw connection

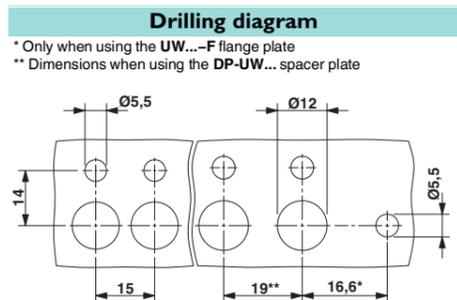
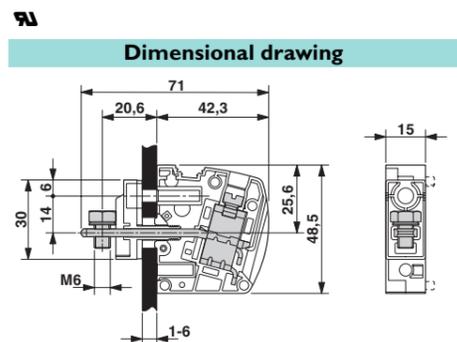
Accessories	
For all types	Type Screwdriver SZS 1,0 x 6,5 Order No. 1205079
For UW 25 .../S	Spacer plate, 4 mm thick DP-UW 25 Order No. 3074402
	Flange plate UW 25-F Order No. 3074541
For UWV 25 .../S	Spacer plate, 4 mm thick DP-UWV 25 Order No. 3074431
	Flange plate UWV 25-F Order No. 3074622



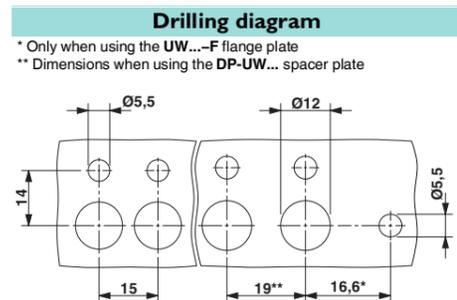
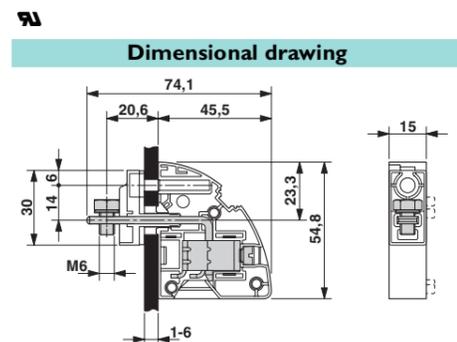
Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UW 25	3073364	25	
Feed-through terminal block, with engagement pin			
UW 25/S	3073377	25	
ZB 15.../ZBF 15... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UWV 25	3073445	25	
Feed-through terminal block, with engagement pin			
UWV 25/S	3073458	25	
ZB 15.../ZBF 15... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UW 25-POT	3073500	25	
Feed-through terminal block, with engagement pin			
UW 25-POT/S	3073513	25	
ZB 15.../ZBF 15... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



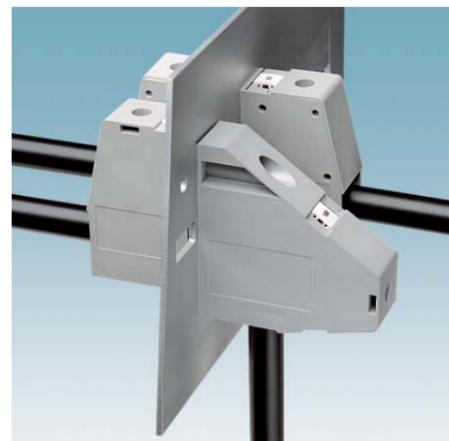
Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
UWV 25-POT	3073568	25	
Feed-through terminal block, with engagement pin			
UWV 25-POT/S	3073571	25	
ZB 15.../ZBF 15... marking material (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	125 / 35 // 101 / 25
Rated voltage [V]	800 ¹⁾
Connection capacity [mm ²] / [mm ²] / AWG	6 - 35 / 10 - 25 / 10 - 2
Stranded with ferrules without plastic sleeve [mm ²]	4 - 25
Stranded with ferrules with plastic sleeve [mm ²]	4 - 25
Multi-conductor connection capacity (two conductors with the same cross section) [mm ²] / [mm ²]	2.5 - 10 / 4 - 10
Solid / stranded [mm ²]	2.5 - 10
Stranded with ferrules without plastic sleeve [mm ²]	2.5 - 10
Stranded with TWIN ferrule with plastic sleeve [mm ²]	2.5 - 10
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	800 ¹⁾ 1000 ¹⁾ 1000 ¹⁾
Rated surge voltage [kV]	8 ¹⁾ 8 ¹⁾ 8 ¹⁾
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 ¹⁾ 600 ¹⁾ -
Nominal current [A]	112.5 112.5 -
Connection capacity AWG	10 - 2 10 - 2 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	19
Terminal sleeve: Thread / Torque - / [Nm]	M5 / 4 - 4.5
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Inside with screw, cable lug connection up to 150 A/50 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing
- Spacer plates increase air and creepage distances

Notes:
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 Notes on connecting aluminum conductors can be found at:
www.phoenixcontact.net/products.

Accessories	
For all types	Type
	Insertion profile UKH 50 EP Order No. 3009228
	Screwdriver SZS 1.2X8.0 Order No. 1205082
Only for HDFK 50	
	Spacer plate DP-HDFK 50/7.2 Order No. 0709990

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	150 / 50 // 150 / 50
Rated voltage [V]	690
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	16 - 50 / 16 - 50 / 6 - 1/0
Stranded with ferrules without plastic sleeve [mm ²]	10 - 50
Stranded with ferrules with plastic sleeve [mm ²]	10 - 50
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	6 - 16 / 10 - 16
Stranded with ferrules without plastic sleeve [mm ²]	6 - 16
Stranded with TWIN ferrule with plastic sleeve [mm ²]	6 - 10
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	690 1000 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	150 150 -
Connection capacity AWG	6 - 1/0 6 - 1/0 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	125 125 -
Connection capacity AWG	6 - 1/0 6 - 1/0 -
General data	
Stripping length [mm]	24
Terminal sleeve: Thread / Torque - / [Nm]	M6 / 6 - 8
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

	HDFK 50	HDFKV 50
Current/conductor cross section [A] / [mm ²]	150 / 50 // 150 / 50	150 / 50 // 150 / 50
Rated voltage [V]	690	690
Connection capacity		
Solid / stranded [mm ²] / [mm ²] / AWG	16 - 50 / 16 - 50 / 6 - 1/0	16 - 50 / 16 - 50 / 6 - 1/0
Stranded with ferrules without plastic sleeve [mm ²]	10 - 50	10 - 50
Stranded with ferrules with plastic sleeve [mm ²]	10 - 50	10 - 50
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid / stranded [mm ²]	6 - 16 / 10 - 16	6 - 16 / 10 - 16
Stranded with ferrules without plastic sleeve [mm ²]	6 - 16	6 - 16
Stranded with TWIN ferrule with plastic sleeve [mm ²]	6 - 10	6 - 10
Insulation coordination		
Surge voltage category / pollution degree	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated insulation voltage [V]	690 1000 1000	690 1000 1000
Rated surge voltage [kV]	6 6 6	6 6 6
Approval data (UL/CUL) Use Group	B C D	B C D
Nominal voltage [V]	600 600 -	600 600 -
Nominal current [A]	150 150 -	150 150 -
Connection capacity AWG	6 - 1/0 6 - 1/0 -	6 - 1/0 6 - 1/0 -
Approval data (CSA) Use Group	B C D	B C D
Nominal voltage [V]	600 600 -	600 600 -
Nominal current [A]	125 125 -	125 125 -
Connection capacity AWG	6 - 1/0 6 - 1/0 -	6 - 1/0 6 - 1/0 -
General data		
Stripping length [mm]	24	24
Terminal sleeve: Thread / Torque - / [Nm]	M6 / 6 - 8	M6 / 6 - 8
Insulation material	PA	PA
Inflammability class according to UL 94	V0	V0
Panel thickness [mm]	1 - 6	1 - 6

Description

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



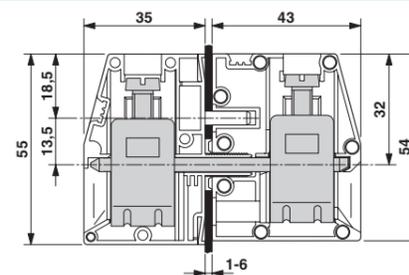
Horizontal conductor connection



Vertical conductor connection

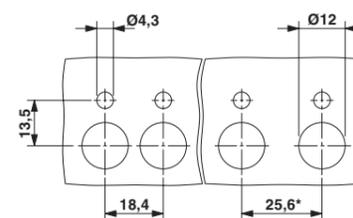


Dimensional drawing



Drilling diagram

* Dimensions when using the DP-HDFK 50/7.2 spacer plate



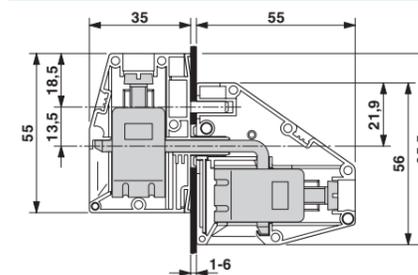
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 50	0708739	10
Feed-through terminal block, with engagement pin		
HDFK 50/Z	0705017	10

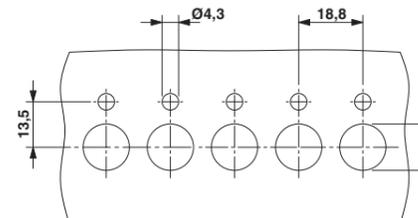
UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
 ZB 15 marking material for marking the center and lateral groove (see Catalog 5)



Dimensional drawing



Drilling diagram



Ordering data

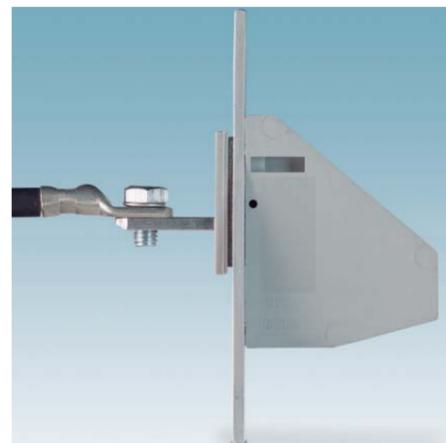
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 50	0708522	10
Feed-through terminal block, with engagement pin		
HDFKV 50/Z	0714095	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
 ZB 15 marking material for marking the center and lateral groove (see Catalog 5)

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Inside with screw, cable lug connection up to 232 A/95 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Notes on connecting aluminum conductors can be found at: www.phoenixcontact.net/products.
 1) 630 V for metal panels from 2.5 mm to 5 mm.
 500 V for metal panels from 5 mm to 6 mm.

Accessories	
For all types	Type
Only for HDFK 50-VP and HDFKV 50-VP	
	Insertion profile UKH 50 EP Order No. 3009228
	Screwdriver SZS 1.2X8.0 Order No. 1205082
Only for HDFKV 95-F-VP	
	Insertion profile UKH 95 EP Order No. 3009231
	Allen wrench VDE-ISS 6 Order No. 1201934

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	150 / 50 // 150 / 50
Rated voltage [V]	690
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	16 - 50 / 16 - 50 / 6 - 1/0
Stranded with ferrules without plastic sleeve [mm ²]	10 - 50
Stranded with ferrules with plastic sleeve [mm ²]	10 - 50
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	6 - 16 / 10 - 16
Stranded with ferrules without plastic sleeve [mm ²]	6 - 16
Stranded with TWIN ferrule with plastic sleeve [mm ²]	6 - 10
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	690 1000 1000
Rated surge voltage [kV]	6 6 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	150 150 -
Connection capacity AWG	6 - 1/0 6 - 1/0 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	125 125 -
Connection capacity AWG	6 - 1/0 6 - 1/0 -
General data	
Stripping length [mm]	24
Terminal sleeve: Thread / Torque - / [Nm]	M6 / 6 - 8
Cable lug connection: Thread / tightening torque	
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

HDFK 50-VP	HDFKV 50-VP	HDFK 95-F-VP
150 / 50 // 150 / 50	150 / 50 // 150 / 50	232 / 95 // 232 / 95
690	690	630 ¹⁾
16 - 50 / 16 - 50 / 6 - 1/0	16 - 50 / 16 - 50 / 6 - 1/0	35 - 95 / 35 - 95 / 4 - 3/0
10 - 50	10 - 50	30 - 95
10 - 50	10 - 50	30 - 95
6 - 16 / 10 - 16	6 - 16 / 10 - 16	25 - 35 / 25 - 35
6 - 16	6 - 16	16 - 35
6 - 10	6 - 10	-
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
690 1000 1000	690 1000 1000	630 1000 1000
6 6 6	6 6 6	6 6 6
B C D	B C D	B C D
600 600 -	600 600 -	600 600 -
150 150 -	150 150 -	230 230 -
6 - 1/0 6 - 1/0 -	6 - 1/0 6 - 1/0 -	4 - 4/0 4 - 4/0 -
B C D	B C D	B C D
600 600 -	600 600 -	600 600 -
125 125 -	125 125 -	200 200 -
6 - 1/0 6 - 1/0 -	6 - 1/0 6 - 1/0 -	2 - 4/0 2 - 4/0 -
24	24	27
M6 / 6 - 8	M6 / 6 - 8	M8 / 15 - 20
PA	PA	PA
V0	V0	V0
1 - 6	1 - 6	1 - 6

Description

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



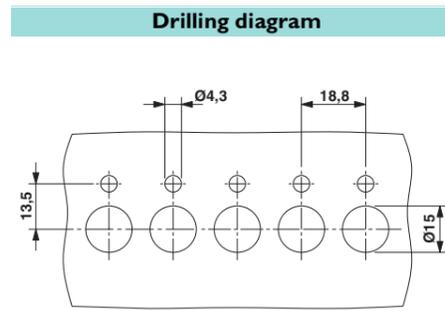
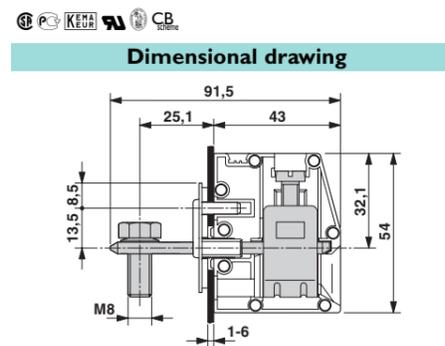
50 mm² feed-through terminal blocks, horizontal conductor connection



50 mm² feed-through terminal blocks, vertical conductor connection

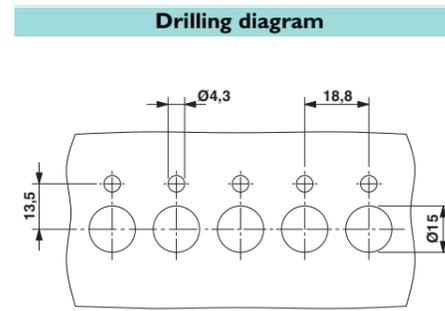
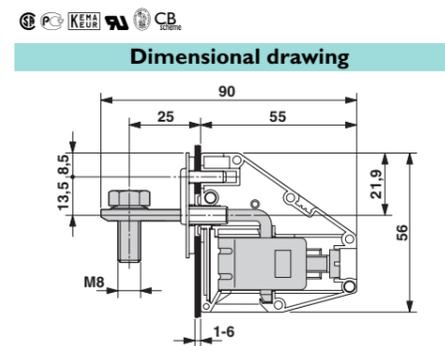


95 mm² feed-through terminal blocks, horizontal conductor connection, external terminal half with screw flange



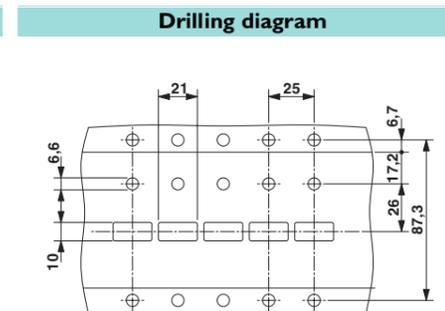
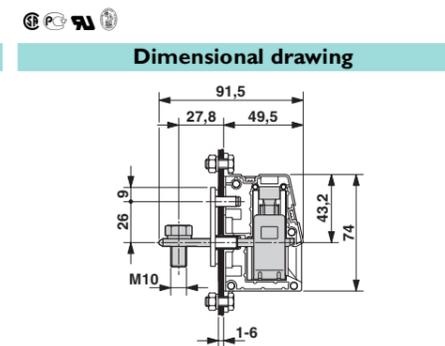
Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 50-VP	0709123	10
Feed-through terminal block, with engagement pin		
HDFK 50-VP/Z	0711218	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
 ZB 15 marking material for marking the center and lateral groove (see Catalog 5)



Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 50-VP	0708580	10
Feed-through terminal block, with engagement pin		
HDFKV 50-VP/Z	0717212	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
 ZB 15 marking material for marking the center and lateral groove (see Catalog 5)



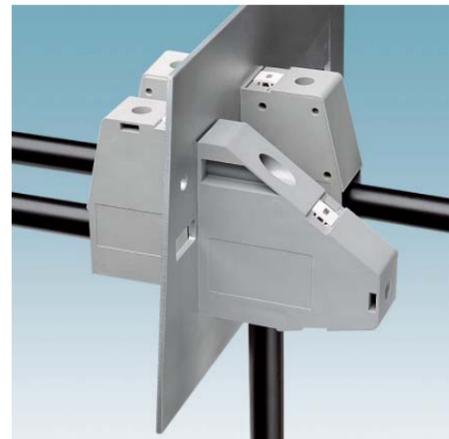
Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 95-F-VP	0709916	10
Feed-through terminal block, with engagement pin		
HDFK 95-F-VP/Z	0717076	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
 ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Inside with screw, cable lug connection up to 232 A/95 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Spacer plates increase air and creepage distances
- Touch-proof insulating housing

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Notes on connecting aluminum conductors can be found at: www.phoenixcontact.net/products.
 1) 1000 V for metal panels from 1 mm to 2.5 mm
 800 V for metal panels larger than 2.5 mm up to 5 mm
 690 V for metal panels larger than 5 mm up to 6 mm



Horizontal conductor connection



Horizontal conductor connection, external terminal half with screw flange



Vertical conductor connection



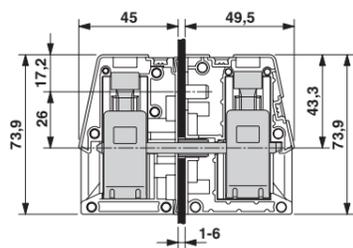
Vertical conductor connection, external terminal half with screw flange

Accessories

For all types	Type
	Insertion profile UKH 95 EP Order No. 3009231
	Allen wrench VDE-ISS 6 Order No. 1201934
Only for HDFK 95	Spacer plate DP-HDFK 95/15 Order No. 0717102

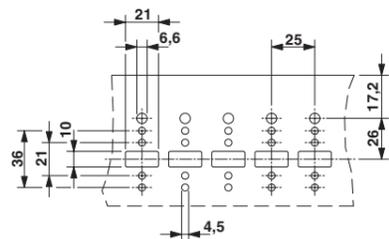


Dimensional drawing

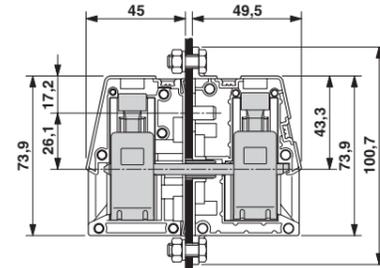


Drilling diagram

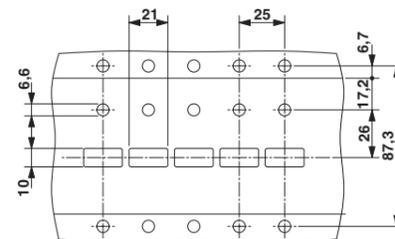
* Dimensions when using the DP-HDFK 95/15 spacer plate



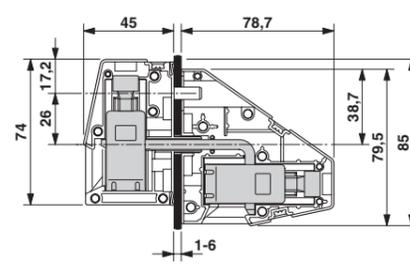
Dimensional drawing



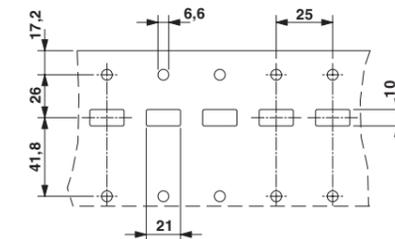
Drilling diagram



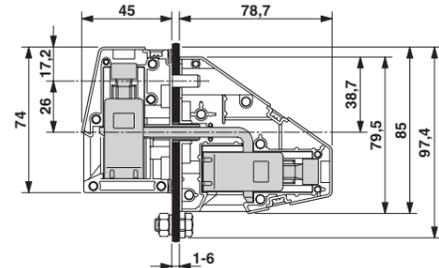
Dimensional drawing



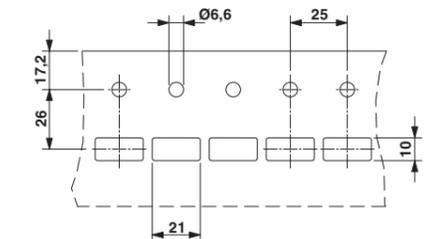
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

Current/conductor cross section	232 / 95 // 232 / 95
Rated voltage	1000 ¹⁾
Connection capacity	
Solid / stranded	35 - 95 / 35 - 95 / 4 - 2/0
Stranded with ferrules without plastic sleeve	25 - 95
Stranded with ferrules with plastic sleeve	25 - 95
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	25 - 35 / 25 - 35
Stranded with ferrules without plastic sleeve	16 - 35
Stranded with TWIN ferrule with plastic sleeve	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	1000 1000 1000
Rated surge voltage	8 6 6
Approval data (UL/CUL)	B C D
Nominal voltage	600 600 -
Nominal current	230 230 -
Connection capacity AWG	4 - 4/0 4 - 4/0 -
Approval data (CSA)	B C D
Nominal voltage	600 600 -
Nominal current	200 200 -
Connection capacity AWG	2 - 4/0 2 - 4/0 -
General data	
Stripping length	27
Terminal sleeve: Thread / Torque	M8 / 15 - 20
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness	1 - 6

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 95	0709534	10
Feed-through terminal block, with engagement pin		
HDFK 95/Z	0717364	10
UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)		
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 95-F	0709644	10
Feed-through terminal block, with engagement pin		
HDFK 95-F/Z	0714037	10
UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)		
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 95	0709547	10
Feed-through terminal block, with engagement pin		
HDFKV 95/Z	0714105	10
UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)		
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 95-F	0709673	10
Feed-through terminal block, with engagement pin		
HDFKV 95-F/Z	0714118	10
UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)		
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Vertical double connection outside up to 152 A/35 mm²



- Universal screw connection with screw locking
- Ideal for looping through power supply cables
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Note: With the HDFKV-TWIN, the terminal space must be completely open when joining both terminal block halves.
1) The max. load current must not be exceeded by the total current of all connected conductors.
2) 400 V for metal panels from 1 mm to 2.5 mm 250 V for metal panels larger than 2.5 mm up to 4 mm 500 V for plastic panels from 1 mm to 4 mm

Accessories	
For all types	Type
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066
Only for HDFK 10-TWIN	
	Insertion bridge EB 2-10 Order No. 0203153
	Insertion bridge EB 3-10 Order No. 0203328
	Insertion bridge EB 10-10 Order No. 0203137

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/stranded)	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

	HDFKV 10-TWIN			HDFKV 25-TWIN			
Current/conductor cross section	76 ¹⁾ / 16 // 57 ¹⁾ // 10			125 ¹⁾ / 35 // 101 ¹⁾ // 25			
Rated voltage	400 ²⁾			500			
Connection capacity							
Solid / stranded	0.5 - 16 / 0.5 - 10 / 20 - 6			6 - 35 / 10 - 25 / 10 - 2			
Stranded with ferrules without plastic sleeve	0.5 - 10			4 - 25			
Stranded with ferrules with plastic sleeve	0.5 - 10			4 - 25			
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	0.5 - 4 / 0.5 - 4			2.5 - 10 / 4 - 10			
Stranded with ferrules without plastic sleeve	0.5 - 2.5			2.5 - 10			
Stranded with TWIN ferrule with plastic sleeve	0.5 - 6			2.5 - 10			
Cross section with insertion bridge (solid/stranded)	2.5 - 10 / 2.5 - 10			- / -			
Insulation coordination							
Surge voltage category / pollution degree							
Rated insulation voltage	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	
Rated surge voltage	400	1000	1000	500	1000	1000	
Rated surge voltage	6	6	6	6	6	6	
Approval data (UL/CUL)	B	C	D	B	C	D	
Nominal voltage	-	600	300	600	600	-	
Nominal current	-	65	10	115	115	-	
Connection capacity AWG	-	24 - 6	24 - 6	8 - 2	8 - 2	-	
Approval data (CSA)	B	C	D	B	C	D	
Nominal voltage	-	-	-	600	600	-	
Nominal current	-	-	-	100	100	-	
Connection capacity AWG	-	-	-	8 - 4	8 - 4	-	
General data							
Stripping length	11			19			
Terminal sleeve: Thread / Torque	M4 / 1.5 - 1.8			M5 / 4 - 4.5			
Insulation material	PA			PA			
Inflammability class according to UL 94	V0			V0			
Panel thickness	1 - 4			1 - 6			

Description

Feed-through terminal blocks for high-current applications

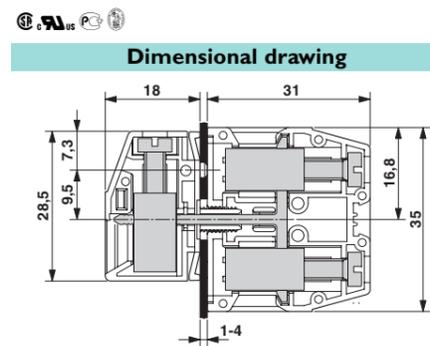
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



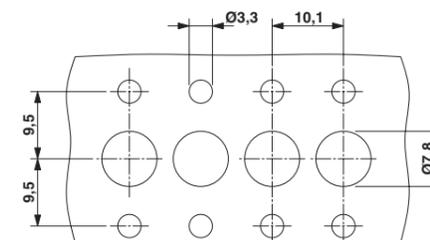
10/16 mm² TWIN feed-through terminal blocks



25/35 mm² TWIN feed-through terminal blocks



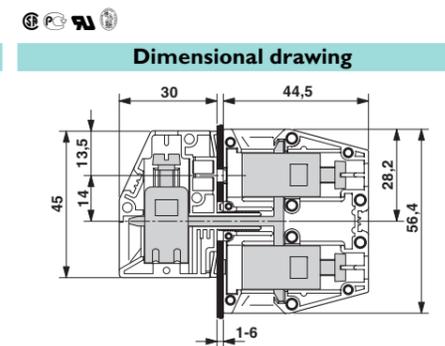
Drilling diagram



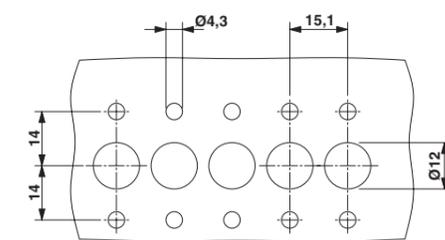
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 10-TWIN	0709550	50

UC-TM 8 marking material for marking the center and lateral groove (see Catalog 5)
ZB 8 marking material for marking the center and lateral groove (see Catalog 5)



Drilling diagram



Ordering data

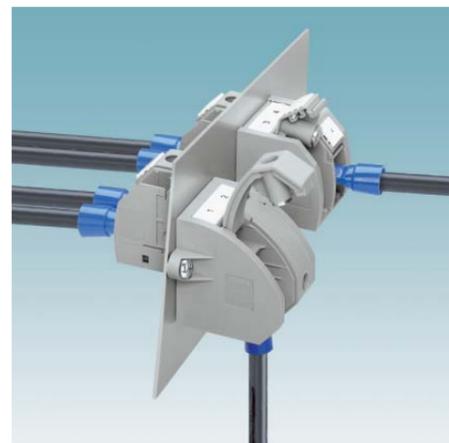
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 25-TWIN	0709563	25

UC-TM 10 marking material for marking the center and lateral groove (see Catalog 5)
ZB 10 marking material for marking the center and lateral groove (see Catalog 5)

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With captive cover nut up to 76 A/16 mm²



- Quick and easy conductor connection thanks to hinged cover flaps with captive clamping nut
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spring-loaded spacers protect the bolt connection against loosening

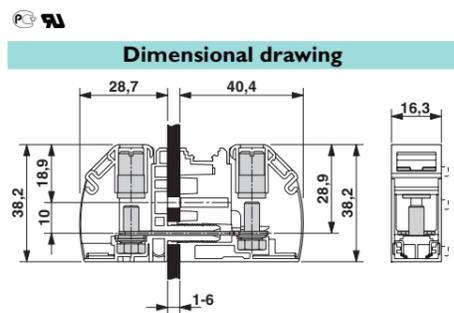
Notes:	
Inside = left side of portrait photos	Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.	
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.	

Accessories

For all types	Type
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053
For RW 5 .../S	Flange plate RW 5-F Order No. 3075155
For RWV 5 .../S	Flange plate RWV 5-F Order No. 3075317

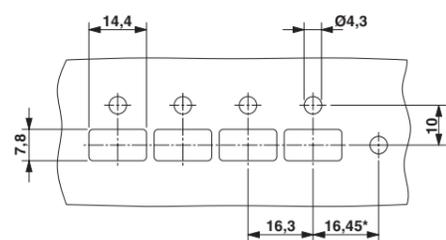


Feed-through terminal blocks, horizontal conductor connection

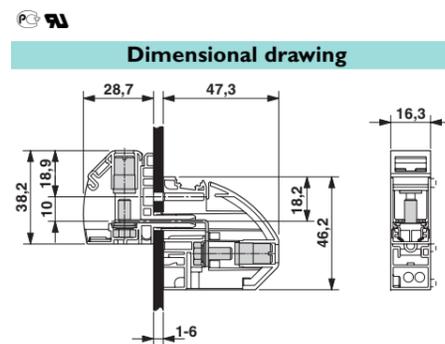


Drilling diagram

* Only when using the RW...-F flange plate

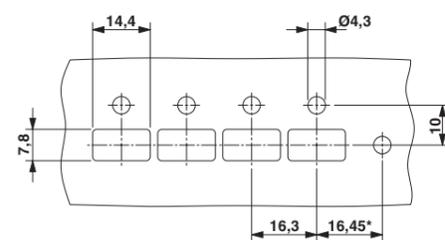


Feed-through terminal blocks, vertical conductor connection

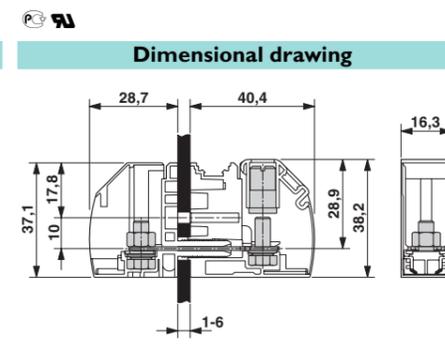


Drilling diagram

* Only when using the RW...-F flange plate

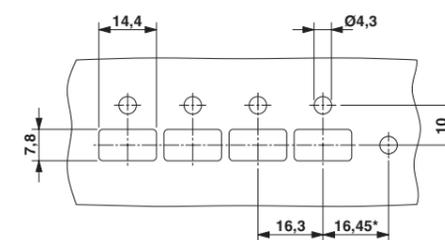


Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection

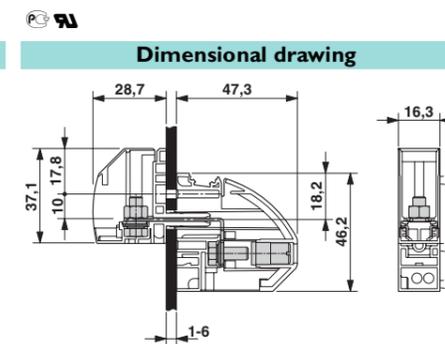


Drilling diagram

* Only when using the RW...-F flange plate

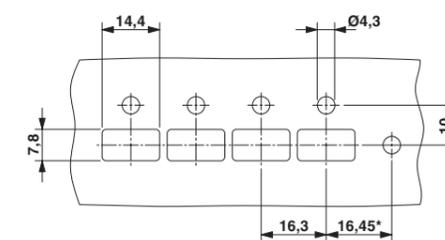


Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection



Drilling diagram

* Only when using the RW...-F flange plate



Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	76 / 16 // 76 / 16
Rated voltage [V]	1000
Connection capacity, DIN 46234	
Cable lugs, DIN 46234 [mm ²]	0.5 - 16
Connection bolt / hole diameter / width [mm]	5 / 5.3 / 11
Connection capacity DIN 46235	
Cable lugs DIN 46235 [mm ²]	6 - 10
Connection bolt / hole diameter / width [mm]	5 / 5.3 / 9
Connection capacity, DIN 46237	
Cable lugs DIN 46237 [mm ²]	1 - 6
Connection bolt / hole diameter / width [mm]	5 / 5.3 / 10
Color code	red blue yellow
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	65 65 -
Connection capacity AWG	26 - 6 26 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Bolt thread/tightening torque - / [Nm]	M5 / 2.5 - 3
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RW 5	3073584	10
Feed-through terminal block, with engagement pin		
RW 5/S	3073597	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWV 5	3073746	10
Feed-through terminal block, with engagement pin		
RWV 5/S	3073759	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RW 5-POT	3073665	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RW 5-POT/S	3073678	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

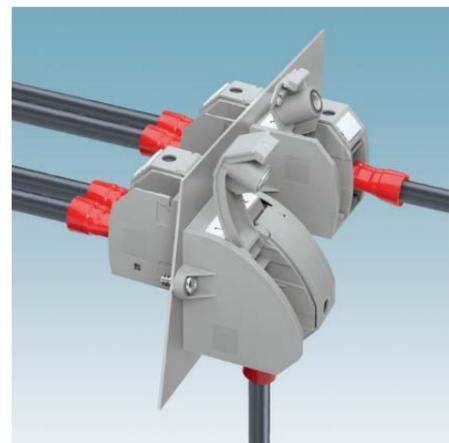
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWV 5-POT	3073788	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWV 5-POT/S	3073791	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With captive cover nut up to 125 A/35 mm²



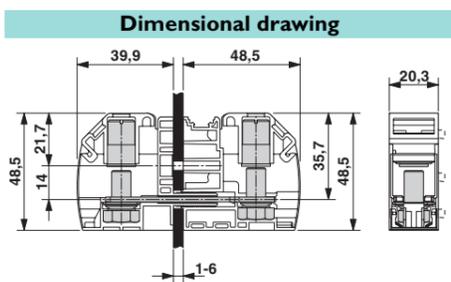
- Quick and easy conductor connection thanks to hinged cover flaps with captive clamping nut
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.

Accessories

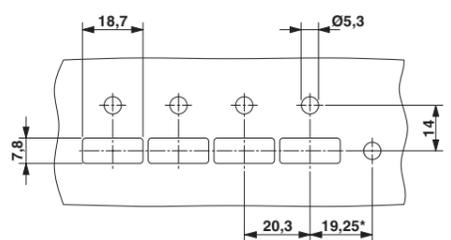
For all types	Type
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066
	Flange plate RW 8-F Order No. 3075171
	Flange plate RWV 8-F Order No. 3075333

Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RW 8	3073607	10
Feed-through terminal block, with engagement pin		
RW 8/S	3073610	10
ZB 20,3 marking material for labeling the center groove (see online catalog)		
ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection

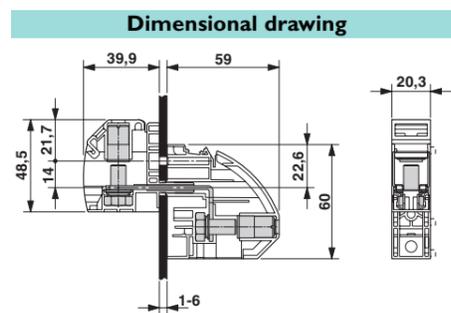


Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection



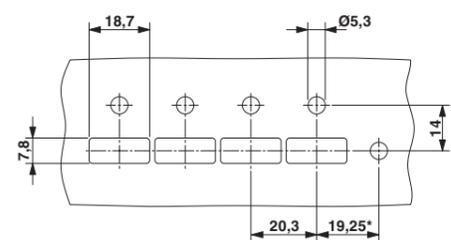
Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

Dimensional drawing



Drilling diagram

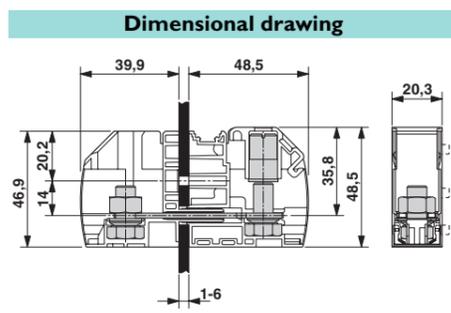
* Only when using the RW...-F flange plate



Ordering data

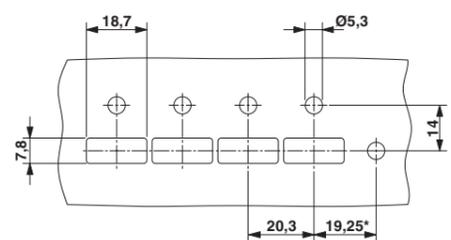
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWV 8	3073762	10
Feed-through terminal block, with engagement pin		
RWV 8/S	3073775	10
ZB 20,3 marking material for labeling the center groove (see online catalog)		
ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Dimensional drawing



Drilling diagram

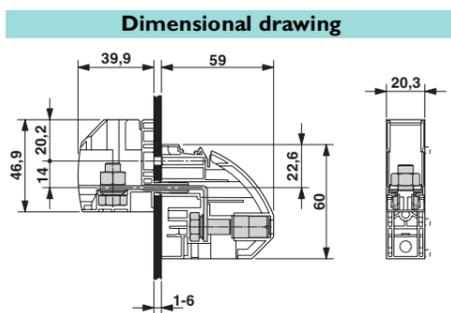
* Only when using the RW...-F flange plate



Ordering data

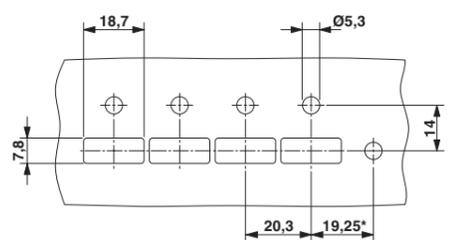
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RW 8-POT	3073681	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RW 8-POT/S	3073694	10
ZB 20,3 marking material for labeling the center groove (see online catalog)		
ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWV 8-POT	3073801	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWV 8-POT/S	3073814	10
ZB 20,3 marking material for labeling the center groove (see online catalog)		
TMT (EX9,5)R marking material (see online catalog)		

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity, DIN 46234	
Cable lugs, DIN 46234	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity DIN 46235	
Cable lugs DIN 46235	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity, DIN 46237	
Cable lugs DIN 46237	[mm ²]
Connection bolt / hole diameter / width	[mm]
Color code	
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Bolt thread/tightening torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

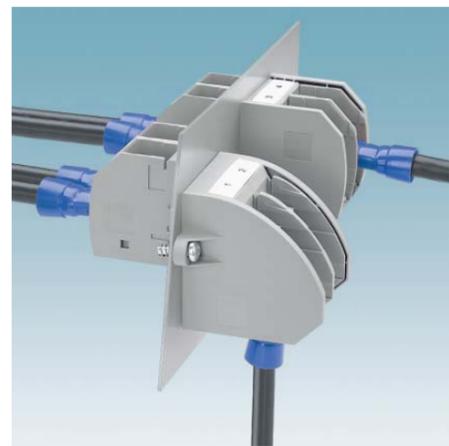
125 / 35 // 125 / 35
1000
2.5 - 35
8 / 8.4 / 16
16 - 25
8 / 8.4 / 14
2.5 - 6
8 / 8.4 / 14
-
2.50 mm ²
6.00 mm ²
III / 3 III / 2 II / 2
1000 1000 1000
8 8 8
B C D
600 600 -
115 115 -
14 - 2 14 - 2 -
B C D
- - -
- - -
- - -
M8 / 4.5 - 5
PA
V0
1 - 6

Description

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

In open housing up to 76 A/16 mm²



- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.



Feed-through terminal blocks, horizontal conductor connection



Feed-through terminal blocks, vertical conductor connection



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection

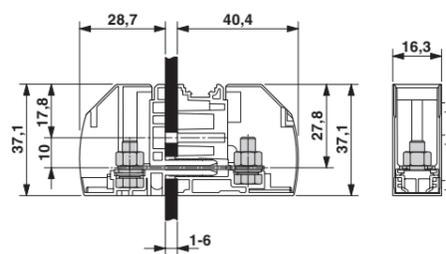


Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection

Accessories

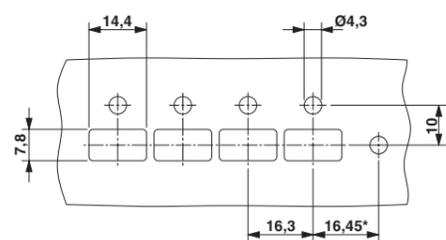
For all types	Type
	Socket wrench SHN 8 Order No. 1209868
	Flange plate RW 5-F Order No. 3075155
	Flange plate RWV 5-F Order No. 3075317

Dimensional drawing

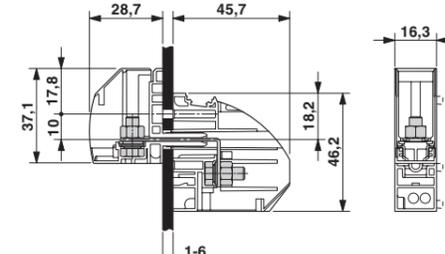


Drilling diagram

* Only when using the RW...-F flange plate

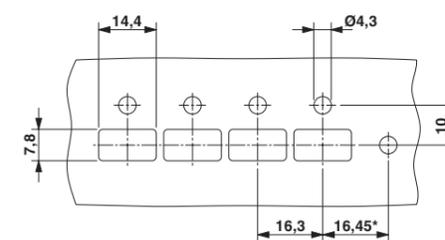


Dimensional drawing

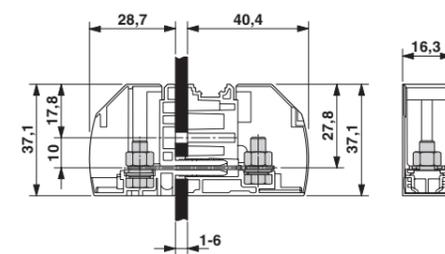


Drilling diagram

* Only when using the RW...-F flange plate

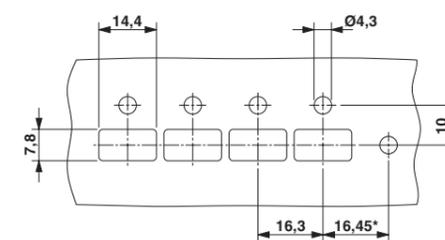


Dimensional drawing

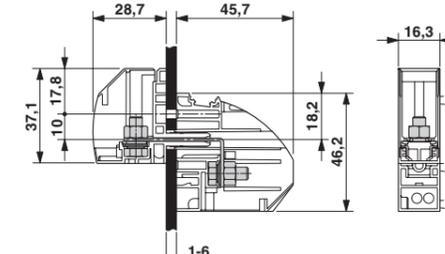


Drilling diagram

* Only when using the RW...-F flange plate

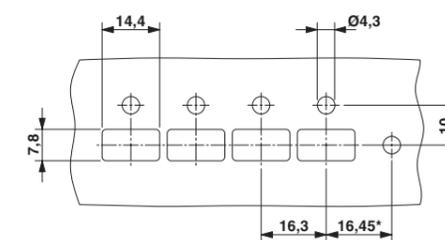


Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm ²]	76 / 16 // 76 / 16		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234		1000		
Cable lugs, DIN 46234	[mm ²]	0.5 - 16		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 11		
Connection capacity DIN 46235		1000		
Cable lugs DIN 46235	[mm ²]	6 - 10		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 9		
Connection capacity, DIN 46237		1000		
Cable lugs DIN 46237	[mm ²]	1 - 6		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 10		
Color code		red 1.00 mm ² blue 2.50 mm ² yellow 6.00 mm ²		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	65	65	-
Connection capacity AWG	AWG	26 - 6	26 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M5 / 2.5 - 3		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 5	3056116	10
Feed-through terminal block, with engagement pin		
RWO 5/S	3056129	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWOV 5	3056271	10
Feed-through terminal block, with engagement pin		
RWOV 5/S	3056284	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWO 5-POT	3056190	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWO 5-POT/S	3056200	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

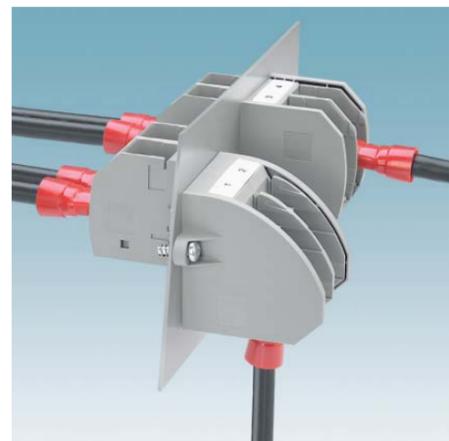
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWOV 5-POT	3056310	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWOV 5-POT/S	3056323	10
ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)		
TMT (EX9,5)R marking material (see online catalog)		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

In open housing up to 125 A/35 mm²



- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.



Feed-through terminal blocks, horizontal conductor connection



Feed-through terminal blocks, vertical conductor connection



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection

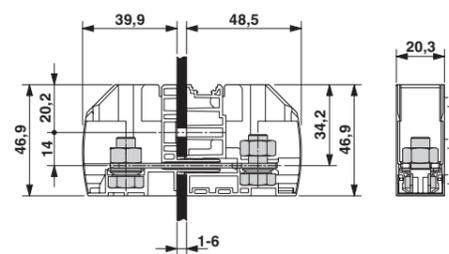


Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

Accessories

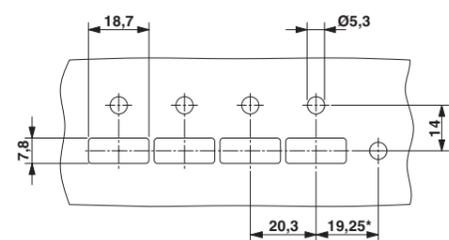
For all types	Type
	Socket wrench SHN 13 Order No. 1209923
	Flange plate RW 8-F Order No. 3075171
	Flange plate RWV 8-F Order No. 3075333

Dimensional drawing

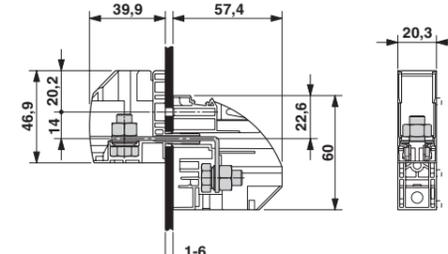


Drilling diagram

* Only when using the RW...-F flange plate

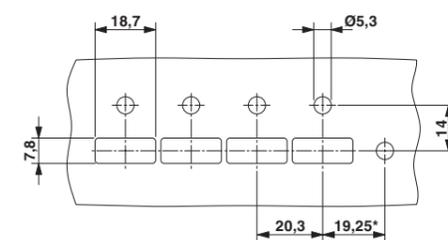


Dimensional drawing

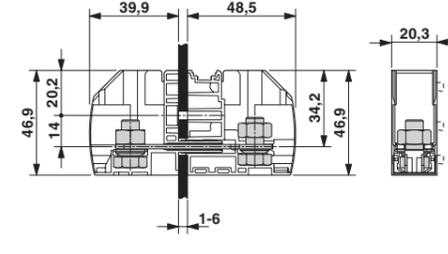


Drilling diagram

* Only when using the RW...-F flange plate

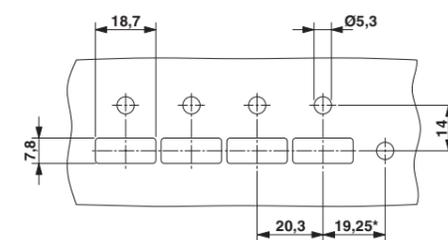


Dimensional drawing

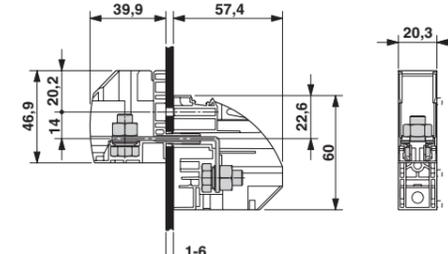


Drilling diagram

* Only when using the RW...-F flange plate

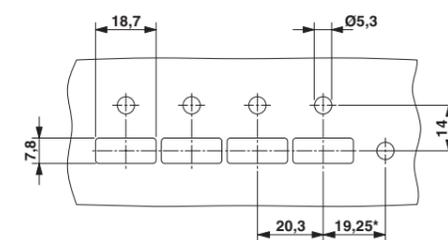


Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	125 / 35 // 125 / 35
Rated voltage [V]	1000
Connection capacity, DIN 46234 [mm ²]	2.5 - 35
Connection bolt / hole diameter / width [mm]	8 / 8.4 / 16
Connection capacity DIN 46235 [mm ²]	16 - 25
Connection bolt / hole diameter / width [mm]	8 / 8.4 / 14
Connection capacity, DIN 46237 [mm ²]	2.5 - 6
Connection bolt / hole diameter / width [mm]	8 / 8.4 / 14
Color code	red blue yellow
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	115 115 -
Connection capacity AWG	14 - 2 14 - 2 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Bolt thread/tightening torque - / [Nm]	M8 / 4,5 - 5
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 8	3056132	10
Feed-through terminal block, with engagement pin		
RWO 8/S	3056145	10

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 8	3056132	10
Feed-through terminal block, with engagement pin		
RWO 8/S	3056145	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
 TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWOV 8	3056297	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWOV 8/S	3056307	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
 TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWO 8-POT	3056213	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWO 8-POT/S	3056226	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
 TMT (EX9,5)R marking material (see online catalog)

Ordering data

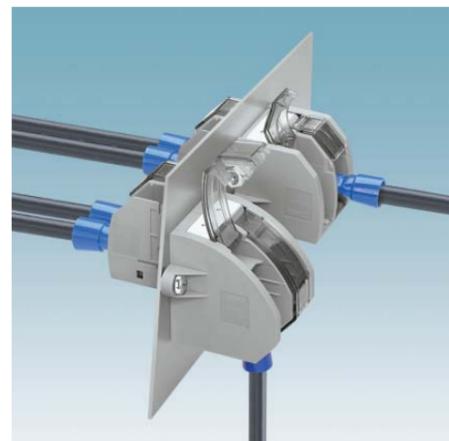
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWOV 8-POT	3056336	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWOV 8-POT/S	3056349	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
 TMT (EX9,5)R marking material (see online catalog)

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With transparent cover up to 76 A/16 mm²



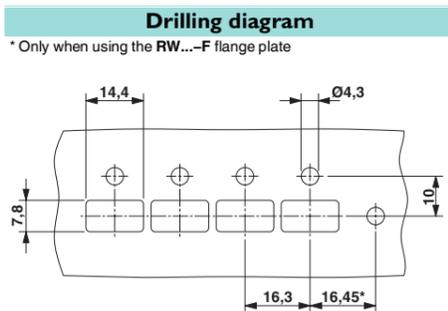
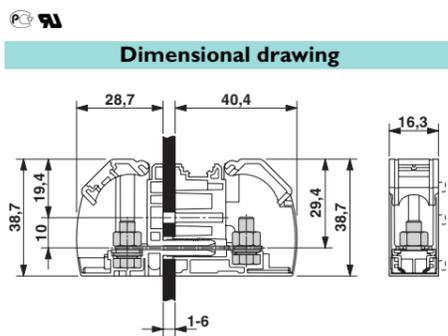
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.

Accessories	
For all types	Type Socket wrench SHN 8 Order No. 1209868
For RWO 5 .../S	Flange plate RW 5-F Order No. 3075155
For RWOV 5 .../S	Flange plate RWV 5-F Order No. 3075317



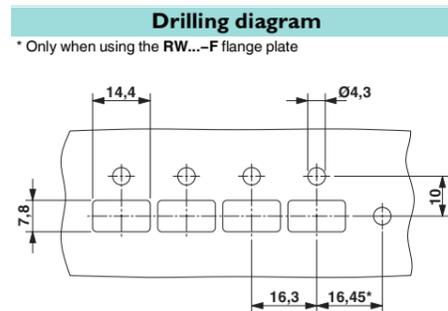
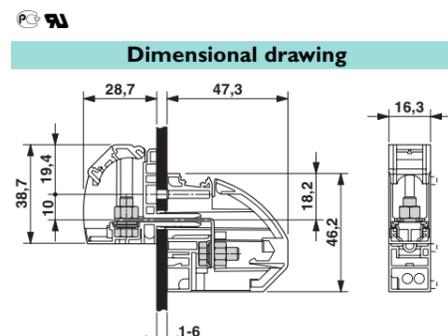
Feed-through terminal blocks, horizontal conductor connection



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
RWO 5-TC	3074910	10	
Feed-through terminal block, with engagement pin			
RWO 5-TC/S	3074923	10	
ZB 16 marking material for marking the center groove (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



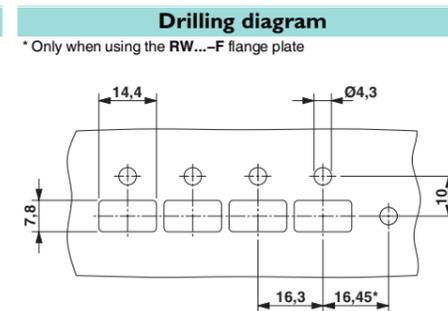
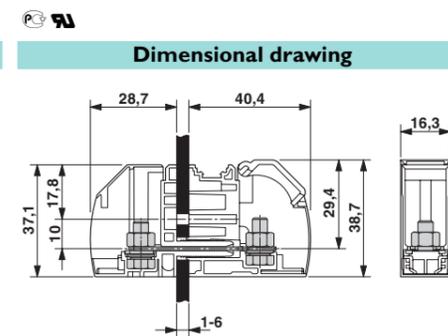
Feed-through terminal blocks, vertical conductor connection



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
RWOV 5-TC	3075074	10	
Feed-through terminal block, with engagement pin			
RWOV 5-TC/S	3075087	10	
ZB 16 marking material for marking the center groove (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



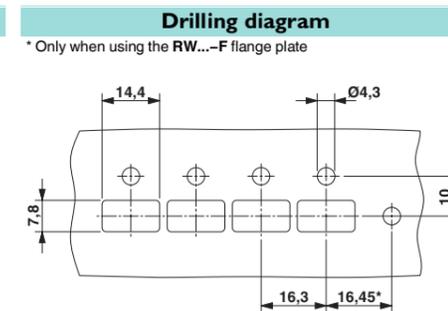
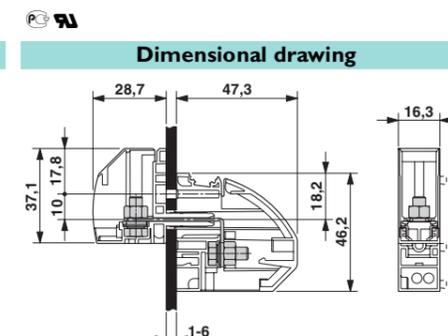
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection



Ordering data			
Type	Order No.	Pcs. / Pkt.	
Feed-through terminal block, with sponge rubber seal			
RWO 5-POT-TC	3074994	10	
Feed-through terminal block, with engagement pin and sponge rubber seal			
RWO 5-POT-TC/S	3075003	10	
ZB 16 marking material for marking the center groove (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			



Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection



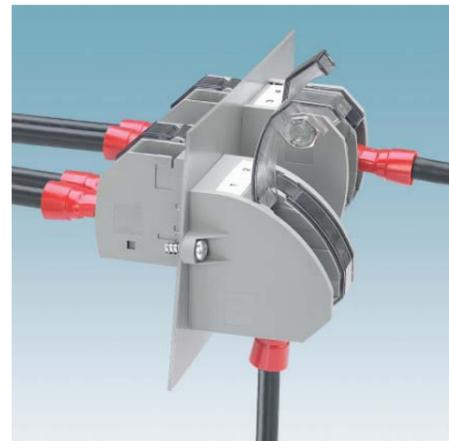
Ordering data			
Type	Order No.	Pcs. / Pkt.	
Feed-through terminal block, with sponge rubber seal			
RWOV 5-POT-TC	3075113	10	
Feed-through terminal block, with engagement pin and sponge rubber seal			
RWOV 5-POT-TC/S	3075126	10	
ZB 16 marking material for marking the center groove (see Catalog 5)			
TMT (EX9,5)R marking material (see online catalog)			

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	76 / 16 // 76 / 16
Rated voltage [V]	1000
Connection capacity, DIN 46234 [mm ²]	0.5 - 16
Connection bolt / hole diameter / width [mm]	5 / 5.3 / 11
Connection capacity DIN 46235 [mm ²]	6 - 10
Connection bolt / hole diameter / width [mm]	5 / 5.3 / 9
Connection capacity, DIN 46237 [mm ²]	1 - 6
Connection bolt / hole diameter / width [mm]	5 / 5.3 / 10
Color code	red blue yellow
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	65 65 -
Connection capacity AWG	26 - 6 26 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Bolt thread/tightening torque - / [Nm]	M5 / 2.5 - 3
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With transparent cover up to 125 A/35 mm²



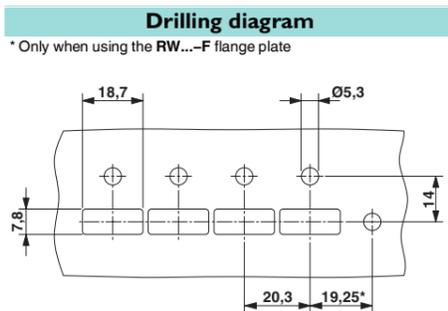
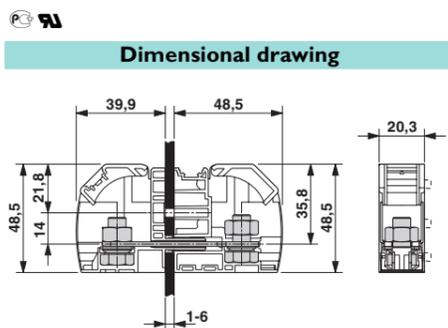
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
Inside = left side of portrait photos	Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.	
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.	

Accessories	
For all types	Type Socket wrench SHN 13 Order No. 1209923
For RWO 8 .../S	Flange plate RW 8-F Order No. 3075171
For RWOV 8 .../S	Flange plate RWV 8-F Order No. 3075333



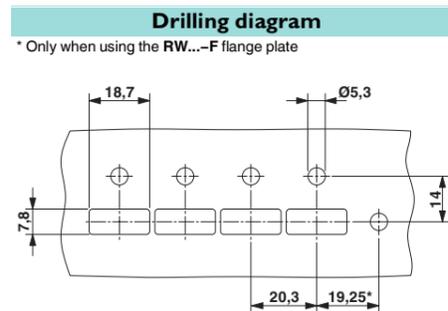
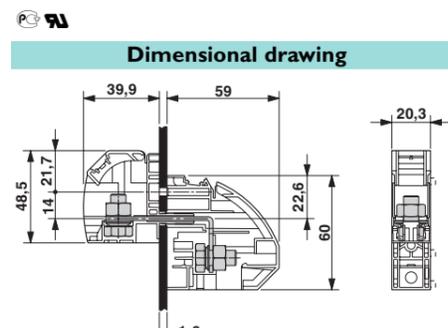
Feed-through terminal blocks, horizontal conductor connection



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
RWO 8-TC	3074936	10	Feed-through terminal block, with engagement pin
RWO 8-TC/S	3074949	10	Feed-through terminal block, with engagement pin and sponge rubber seal
ZB 20,3 marking material for labeling the center groove (see online catalog)			
TMT (EX9,5)R marking material (see online catalog)			



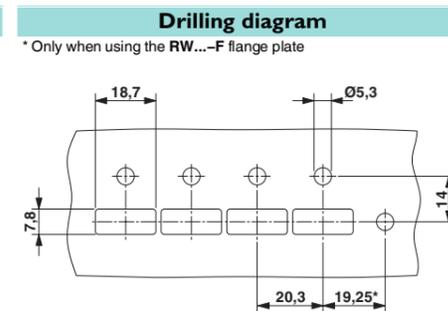
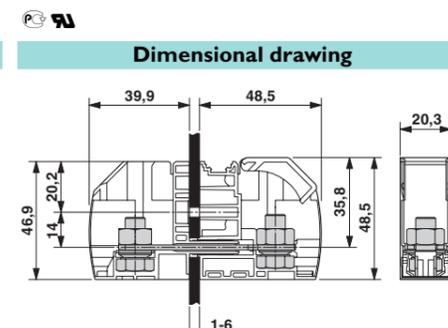
Feed-through terminal blocks, vertical conductor connection



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block			
RWOV 8-TC	3075090	10	Feed-through terminal block, with engagement pin and sponge rubber seal
RWOV 8-TC/S	3075100	10	Feed-through terminal block, with engagement pin and sponge rubber seal
ZB 20,3 marking material for labeling the center groove (see online catalog)			
TMT (EX9,5)R marking material (see online catalog)			



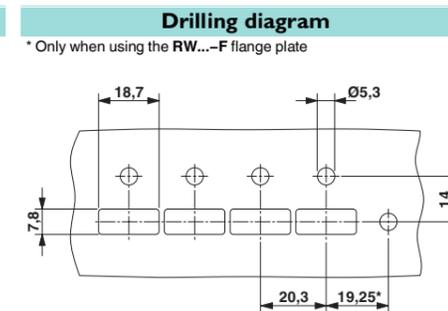
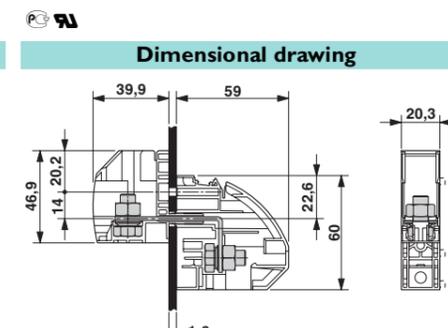
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection



Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block, with sponge rubber seal			
RWO 8-POT-TC	3075016	10	Feed-through terminal block, with engagement pin and sponge rubber seal
RWO 8-POT-TC/S	3075029	10	Feed-through terminal block, with engagement pin and sponge rubber seal
ZB 20,3 marking material for labeling the center groove (see online catalog)			
TMT (EX9,5)R marking material (see online catalog)			



Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

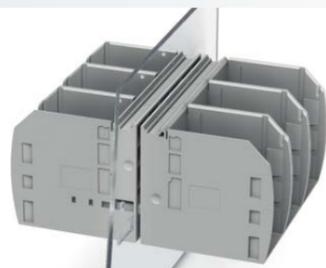


Ordering data			
Type	Order No.	Pcs. / Pkt.	Description
Feed-through terminal block, with sponge rubber seal			
RWOV 8-POT-TC	3075139	10	Feed-through terminal block, with engagement pin and sponge rubber seal
RWOV 8-POT-TC/S	3075142	10	Feed-through terminal block, with engagement pin and sponge rubber seal
ZB 20,3 marking material for labeling the center groove (see online catalog)			
TMT (EX9,5)R marking material (see online catalog)			

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	125 / 35 // 125 / 35
Rated voltage [V]	1000
Connection capacity, DIN 46234 [mm ²]	2.5 - 35
Connection bolt / hole diameter / width [mm]	8 / 8.4 / 16
Connection capacity DIN 46235 [mm ²]	16 - 25
Connection bolt / hole diameter / width [mm]	8 / 8.4 / 14
Connection capacity, DIN 46237 [mm ²]	2.5 - 6
Connection bolt / hole diameter / width [mm]	8 / 8.4 / 14
Color code	red
	blue
	yellow
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	600 600 -
Nominal current [A]	115 115 -
Connection capacity AWG	14 - 2 14 - 2 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Bolt thread/tightening torque - / [Nm]	M8 / 4,5 - 5
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	1 - 6

In open housing up to 309 A/150 mm²

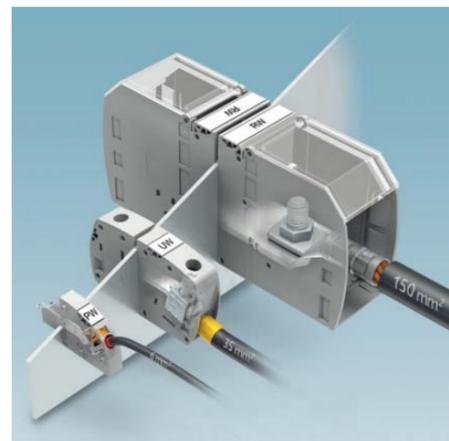
Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
 For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.



With open housing



With transparent cover

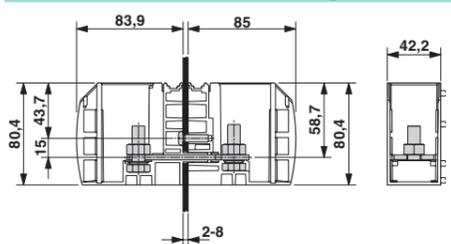


- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Accessories

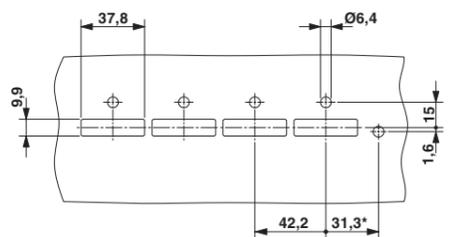
For all types	Type
	Flange plate RW 10-F Order No. 3075197

Dimensional drawing

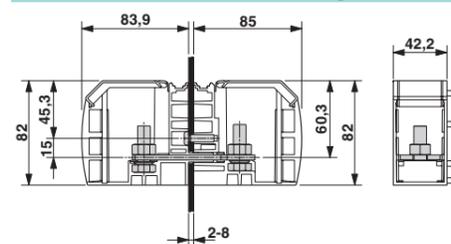


Drilling diagram

* Only when using the RW...-F flange plate

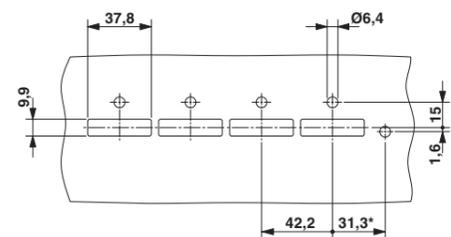


Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	309 / 150 // 309 / 150
Rated voltage [V]	1000
Connection capacity, DIN 46234 [mm ²]	6 - 150
Connection bolt / hole diameter / width [mm]	10 / 10.5 / 30
Connection capacity DIN 46235 [mm ²]	10 - 95
Connection bolt / hole diameter / width [mm]	10 / 10.5 / 28
Connection capacity, DIN 46237 [mm ²]	- 6
Connection bolt / hole diameter / width [mm]	10 / 10.5 / 18
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage [V]	1000 1000 1000
Rated surge voltage [kV]	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Bolt thread/tightening torque - / [Nm]	M10 / 10 - 20
Insulation material	PA
Inflammability class according to UL 94	V0
Panel thickness [mm]	2 - 8

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Feed-through terminal block	RWO 10	3056158	5
Feed-through terminal block, with engagement pin	RWO 10/S	3056161	5

ZB 21,1 marking material for labeling the center groove (see online catalog)
 TMT (EX9,5)R marking material (see online catalog)

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Feed-through terminal block	RWO 10-TC	3074952	5
Feed-through terminal block, with engagement pin	RWO 10-TC/S	3074965	5

ZB 21,1 marking material for labeling the center groove (see online catalog)
 TMT (EX9,5)R marking material (see online catalog)

Feed-through terminal blocks for high-current applications

Special designs, feed-through terminal blocks with screw connection

DFK 4 with screw connection



- Universal screw connection with screw locking
- The feed-through terminal blocks snap into the panel cutout automatically
- Touch-proof insulating housing
- PE terminal block with ground function based on IEC 60947-7-2
- The fuse terminal blocks are available for 5 x 20 mm and 6.3 x 32 mm cartridge fuse inserts

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos
 Current and voltage data for slip-on connections in acc. with EN 61210 are also dependent on nominal size, material, insulation of the slip-on sleeve and conductor cross section.

Accessories	
For all types	Type
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053
	Blind cover, width 6 mm B/DFK Order No. 0706045
	Separating plate TS-DFK Order No. 0706210
Only for DFK 4	
	Insertion bridge EB 2-6 Order No. 0201155
	Insertion bridge EB 3-6 Order No. 0201142
	Insertion bridge EB 10-6 Order No. 0201139

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section [A] / [mm ²]	17.5 / 6 // 17.5 / 1.5
Rated voltage [V]	400
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 4
Stranded with ferrules with plastic sleeve [mm ²]	0.25 - 2.5
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded [mm ²]	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve [mm ²]	0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve [mm ²]	0.5 - 2.5
Cross section with insertion bridge (solid/stranded) [mm ²]	- 4 / - 4
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage [V]	III / 3 III / 2 II / 2
Rated surge voltage [kV]	400 1000 1000
Approval data (UL/CUL) Use Group	B C D
Nominal voltage [V]	250 - 300
Nominal current [A]	15 - 15
Connection capacity AWG	30 - 10 - 30 - 10
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	8
Terminal sleeve: Thread / Torque - / [Nm]	M3 / 0.6 - 0.8
Insulation material	PA
Inflammability class according to UL 94	V2

DFK 4	DFK 4-PE	DFK 4-SI(5X20) BK
17.5 / 6 // 17.5 / 1.5	17.5 / 6 // 17.5 / 4	6.3 / 6 // 6.3 / 1.5
400	400	400
0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10	0.2 - 6 / 0.2 - 4 / 24 - 10
0.25 - 4	0.25 - 4	0.25 - 4
0.25 - 2.5	0.25 - 2.5	0.25 - 2.5
0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5	0.2 - 1.5 / 0.2 - 1.5
0.25 - 1.5	0.25 - 1.5	0.25 - 1.5
0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
- 4 / - 4	- / -	- / -
III / 3 III / 2 II / 2	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
400 1000 1000		
B C D	B C D	B C D
250 - 300	- - -	250 - 300
15 - 15	- - -	8 - 8
30 - 10 - 30 - 10	- - -	30 - 10 - 30 - 10
B C D	B C D	B C D
- - -	- - -	250 - 300
- - -	- - -	8 - 8
- - -	- - -	28 - 10 - 28 - 10
8	8	8
M3 / 0.6 - 0.8	M3 / 0.6 - 0.8	M3 / 0.6 - 0.8
PA	PA	PA
V2	V2	V2

Description

Feed-through terminal blocks for high-current applications

Special designs, feed-through terminal blocks with screw connection



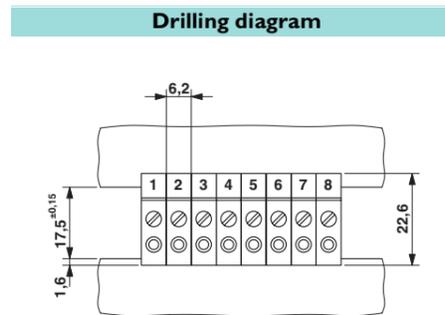
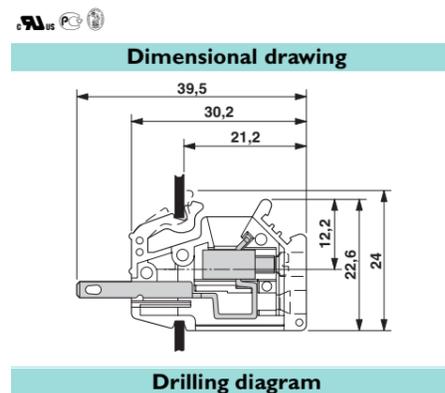
Feed-through terminal blocks, solder/2.8 mm spade connection inside



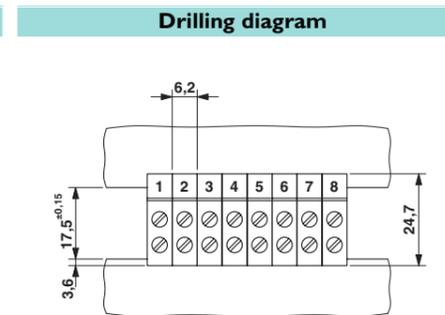
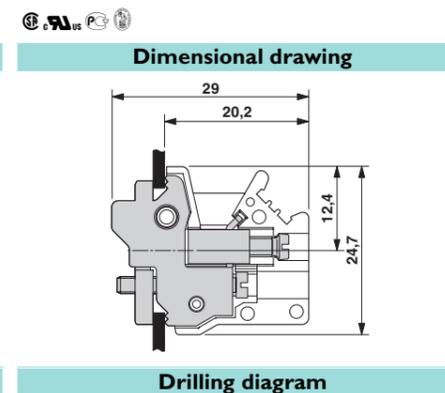
Ground feed-through terminal blocks



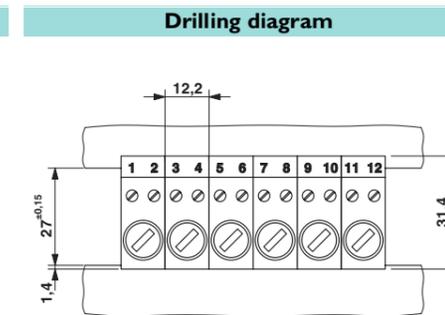
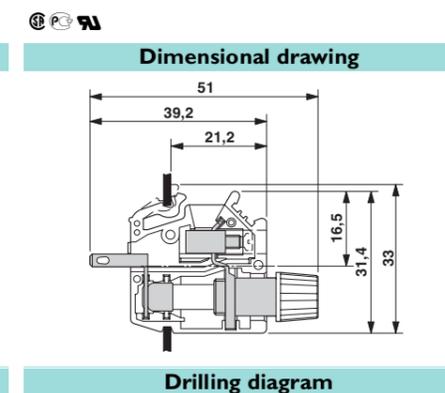
Fuse feed-through terminal blocks for cartridge fuse insert, solder/2.8 mm spade connection inside



Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, for 1.5 mm thick sheet metal		
DFK 4	0708357	50
Feed-through terminal block, for 2.5 mm thick sheet metal		
DFK/DP-4	0708616	50
ZB 6... marking material for marking the lateral groove (see Catalog 5)		
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)		



Ordering data		
Type	Order No.	Pcs. / Pkt.
PE ground terminal block, for 1.5 mm thick sheet metal		
DFK 4-PE	0708315	50
ZB 6... marking material for marking the lateral groove (see Catalog 5)		
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)		



Ordering data		
Type	Order No.	Pcs. / Pkt.
Feed-through fuse terminal block, for 5 x 20 cartridge fuse inserts		
DFK 4-SI(5X20) BK	0709301	50
Feed-through fuse terminal block, for 6.3 x 32 cartridge fuse inserts		
DFK 4-SI(6,3X32) BK	0708344	50
ZB 6... marking material for marking the lateral groove (see Catalog 5)		
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)		

Feed-through terminal blocks for high-current applications

Special designs, feed-through terminal blocks with screw connection

DFK 5-9,5 with screw connection

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos



- Universal screw connection with screw locking
- Easy fixing using plastic knurled nut
- Touch-proof insulating housing

Accessories

For all types	Type
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²] 17.5 / 6 // 17.5 / 1.5
Rated voltage	[V] 690
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 4
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²] 0.2 - 1.5 / 0.2 - 2.5
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve	[mm ²] 0.5 - 2.5
Cross section with insertion bridge (solid/stranded)	[mm ²] - / -
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 690 1000 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 30 30 5
Connection capacity AWG	AWG 30 - 10 30 - 10 30 - 10
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 30 30 5
Connection capacity AWG	AWG 22 - 10 22 - 10 22 - 10
General data	
Stripping length	[mm] 14
Terminal sleeve: Thread / Torque	- / [Nm] M3 / 0.6 - 0.8
Insulation material	PA
Inflammability class according to UL 94	V2
Panel thickness	[mm] 0.5 - 3.5

Feed-through terminal blocks for high-current applications

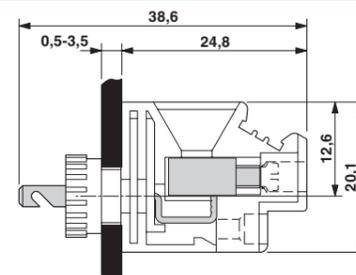
Special designs, feed-through terminal blocks with screw connection



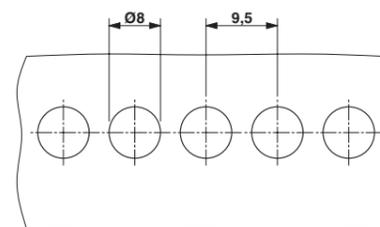
Feed-through terminal blocks, solder/2.8 mm spade connection inside



Dimensional drawing



Drilling diagram



Ordering data

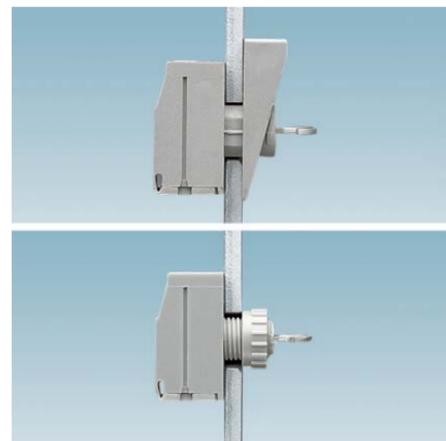
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, for sheet metal 0.5 - 3.5 mm thick		
DFK 5-9,5	0706605	50

ZB 6... marking material for marking the lateral groove (see Catalog 5)
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)

Feed-through terminal blocks for high-current applications

Special designs, feed-through terminal blocks with screw connection

VDFK with screw connection for molding



- Universal screw connection with screw locking
- Terminal blocks can be grouped
- Easy fixing using plastic knurled nut or quick mounting wedge
- Touch-proof insulating housing
- Spacer plates increase air and creepage distances

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Accessories

For all types	Type
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053
	Spacer plate, 4 mm thick DP-VDFK 4/4 Order No. 0717144

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/stranded)	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	

VDFK 4

Current/conductor cross section	32 / 6 // 32 / 4
Rated voltage	500
Connection capacity	
Solid / stranded	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1.5
Cross section with insertion bridge (solid/stranded)	- / -
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	III / 3 III / 2 II / 2
Rated surge voltage	500 1000 1000
Approval data (UL/CUL)	B C D
Nominal voltage	300 150 300
Nominal current	30 30 10
Connection capacity AWG	30 - 10 30 - 10 30 - 10
Approval data (CSA)	B C D
Nominal voltage	300 - 300
Nominal current	30 - 10
Connection capacity AWG	28 - 10 - 28 - 10
General data	
Stripping length	8
Terminal sleeve: Thread / Torque	M3 / 0.6 - 0.8
Insulation material	PA
Inflammability class according to UL 94	V0

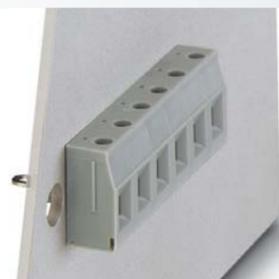
VDFK 4/K

Current/conductor cross section	32 / 6 // 32 / 4
Rated voltage	500
Connection capacity	
Solid / stranded	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	0.25 - 1.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 1.5
Cross section with insertion bridge (solid/stranded)	- / -
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	III / 3 III / 2 II / 2
Rated surge voltage	500 1000 1000
Approval data (UL/CUL)	B C D
Nominal voltage	300 150 300
Nominal current	30 30 10
Connection capacity AWG	30 - 10 30 - 10 30 - 10
Approval data (CSA)	B C D
Nominal voltage	300 - 300
Nominal current	30 - 10
Connection capacity AWG	28 - 10 - 28 - 10
General data	
Stripping length	8
Terminal sleeve: Thread / Torque	M3 / 0.6 - 0.8
Insulation material	PA
Inflammability class according to UL 94	V0

Description

Feed-through terminal blocks for high-current applications

Special designs, feed-through terminal blocks with screw connection



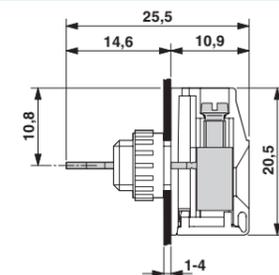
Molded feed-through terminal blocks, with solder connection and knurled nut inside



Molded feed-through terminal blocks, with solder connection and securing wedge inside

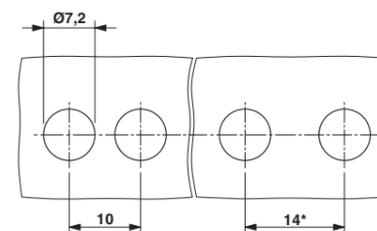


Dimensional drawing

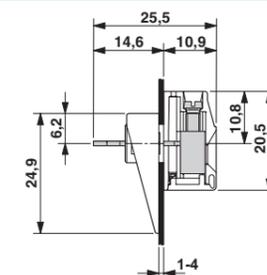


Drilling diagram

* Dimensions when using the DP-VDFK 4/4 spacer plate

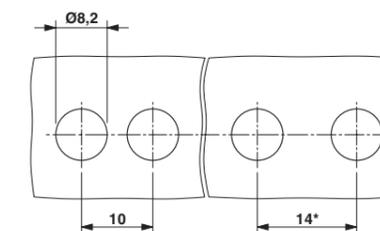


Dimensional drawing



Drilling diagram

* Dimensions when using the DP-VDFK 4/4 spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 4	0708250	50
Molded feed-through terminal block, for 4...8 mm		
VDFK 4-DP	0708360	50

BN-ZB 10 marking material (see online catalog)

Ordering data

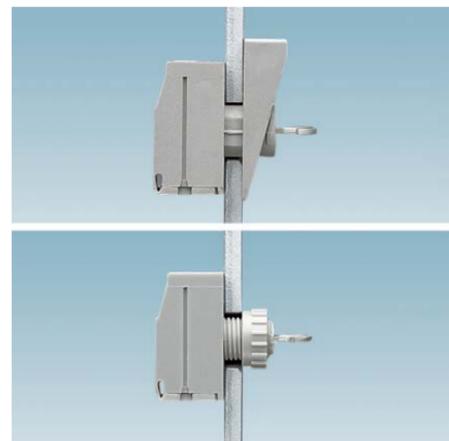
Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 4/K	0709233	50
Molded feed-through terminal block, for housing panels 4...7 mm thick		
VDFK 4/K-DP	0709220	50

BN-ZB 10 marking material (see online catalog)

Feed-through terminal blocks for high-current applications

Special designs, feed-through terminal blocks with screw connection

VDFK with screw connection for molding



- Universal screw connection with screw locking
- Terminal blocks can be grouped
- Easy fixing using plastic knurled nut or quick mounting wedge
- Touch-proof insulating housing
- Strain relief can be snapped on as an option
- Spacer plates increase air and creepage distances

Notes:
 Inside = left side of portrait photos
 Outside = right side of portrait photos

Accessories	
For all types	Type
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066
	Spacer plate, 4 mm thick DP-VDFK 6/4 Order No. 0717157
	Strain relief VDFK 6 ZEL Order No. 0711072

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/stranded)	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	

	VDFK 6	VDFK 6/K
Current/conductor cross section	57 / 10 // 41 / 6	57 / 10 // 41 / 6
Rated voltage	500	500
Connection capacity		
Solid / stranded	0.2 - 10 / 0.2 - 6 / 24 - 8	0.2 - 10 / 0.2 - 6 / 24 - 8
Stranded with ferrules without plastic sleeve	0.25 - 6	0.25 - 6
Stranded with ferrules with plastic sleeve	0.25 - 6	0.25 - 6
Multi-conductor connection capacity (two conductors with the same cross section)		
Solid / stranded	0.2 - 4 / 0.2 - 4	0.2 - 4 / 0.2 - 4
Stranded with ferrules without plastic sleeve	0.25 - 2.5	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve	0.5 - 4	0.5 - 4
Cross section with insertion bridge (solid/stranded)	- / -	- / -
Insulation coordination		
Surge voltage category / pollution degree		
Rated insulation voltage	III / 3 III / 2 II / 2	III / 3 III / 2 II / 2
Rated surge voltage	500 1000 1000	500 1000 1000
Rated surge voltage	6 6 6	6 6 6
Approval data (UL/CUL)	B C D	B C D
Nominal voltage	300 150 300	300 150 300
Nominal current	50 50 10	50 50 10
Connection capacity AWG	26 - 8 26 - 8 26 - 8	26 - 8 26 - 8 26 - 8
Approval data (CSA)	B C D	B C D
Nominal voltage	300 150 300	300 150 300
Nominal current	50 50 10	50 50 10
Connection capacity AWG	26 - 8 26 - 8 26 - 8	26 - 8 26 - 8 26 - 8
General data		
Stripping length	9	9
Terminal sleeve: Thread / Torque	M4 / 1.5 - 1.8	M4 / 1.5 - 1.8
Insulation material	PA	PA
Inflammability class according to UL 94	V0	V0

Description

Feed-through terminal blocks for high-current applications

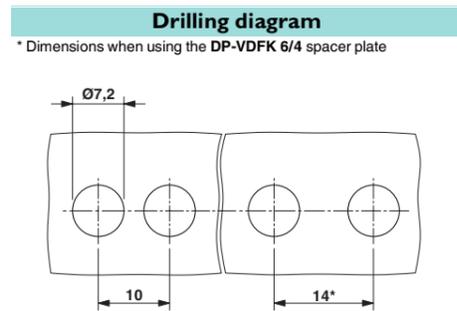
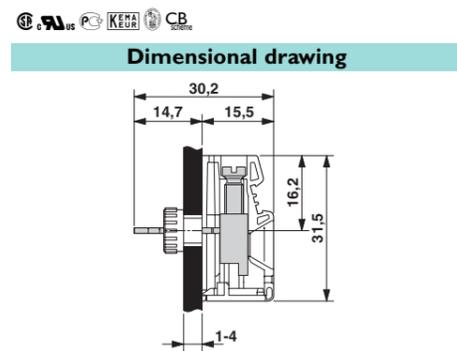
Special designs, feed-through terminal blocks with screw connection



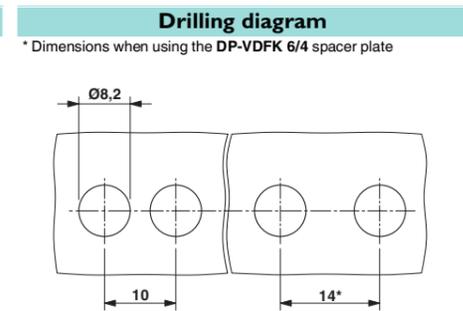
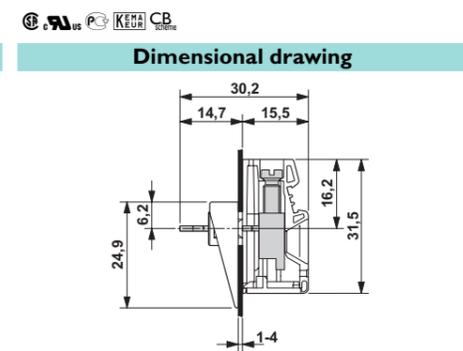
Molded feed-through terminal blocks, with solder connection and knurled nut inside



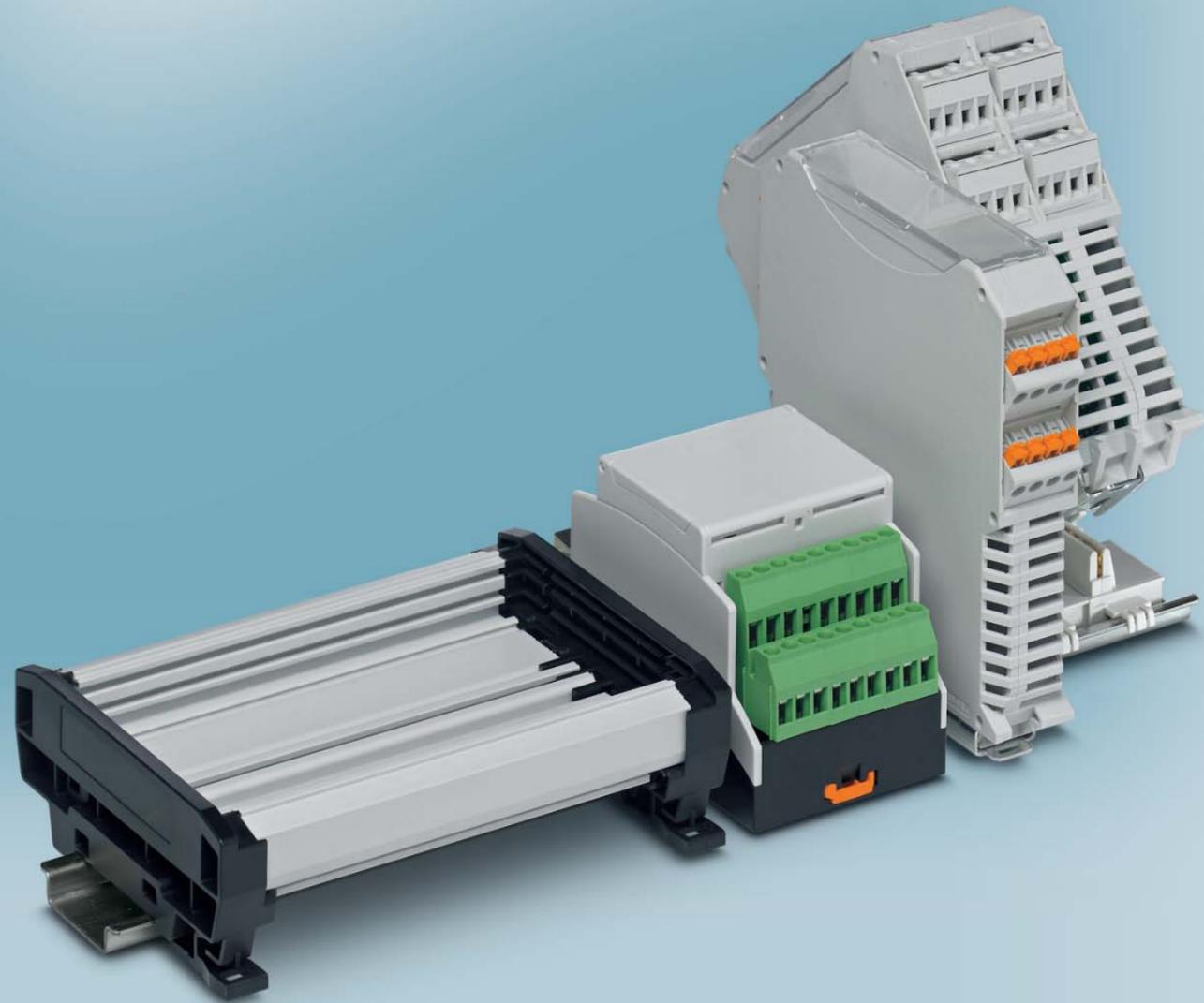
Molded feed-through terminal blocks, with solder connection and securing wedge inside



Ordering data		
Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 6	0711027	50
Molded feed-through terminal block, for 4...8 mm		
VDFK 6-DP	0711014	50
UC-TM 10 marking material for marking the lateral groove (see Catalog 5)		
ZB 10 marking material for marking the lateral groove (see Catalog 5)		
BN-ZB 10 marking material (see online catalog)		



Ordering data		
Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 6/K	0711056	50
Molded feed-through terminal block, for housing panels 4...7 mm thick		
VDFK 6/K-DP	0711043	50
UC-TM 10 marking material for marking the lateral groove (see Catalog 5)		
ZB 10 marking material for marking the lateral groove (see Catalog 5)		
BN-ZB 10 marking material (see online catalog)		



Electronics housing

Phoenix Contact component housings transform the assembled PCB into a shock-proof and dust-proof electronics module. The housings are mounted quickly and safely on standard 35 mm DIN rails. Apart from a few exceptions, the connection terminal blocks can be fitted and machine-soldered during PCB assembly.

The panel mounting bases consist of modular components, which form a DIN-rail mountable chassis for accommodating the PCB. The surface of the PCB is freely accessible, making it particularly suitable for bulky operating elements or large plug-in connectors. If a device cannot be mounted directly on a standard DIN rail, Phoenix Contact mounting plates are available for adaptation.

Whether screw, spring-cage or fast connection, individual housing with customized connection technology is no problem for Phoenix Contact. We will develop and produce your special housing solution in accordance with your particular design specifications. From modifying a standard product through to developing a new solution, we provide expert support throughout.

Customer-specific solutions	648
Modular component housings for industrial electronics	650
ME modular component housing	652
ME BUS modular component housings	662
ME TBUS modular component housing	666
TBUS DIN rail connectors	676
ME MAX modular component housing	678
Building installation housings according to DIN EN 43880	694
BC installation component housing	698
Basic housings for universal use	704
EMG system component housing	708
EG receptacle-type component housing	718
UEG universal component housing	722
UEGM universal component housings	724
UEGH universal component housing	726
UEGM-MSTB universal component housings	728
Multifunctional housings for complex electronics	730
ME-PLC function component housing	732
CM compact component housings	736
EFG single component housing	738
UEG-EU universal component housing	739
Profile racks and adapters	740
UM-ALU 4 aluminum profile housing	742
UM-PRO and UM-BASIC press-drawn section panel mounting bases	748
UM press-drawn section panel mounting bases	754
UMK plug-in module panel mounting bases	760
UM plug-in module panel mounting bases	758
UTA, EM-MP/SISM DIN rail adapters	764
HC-ALU handheld housings for use in the field	766

Electronics housings in other colors



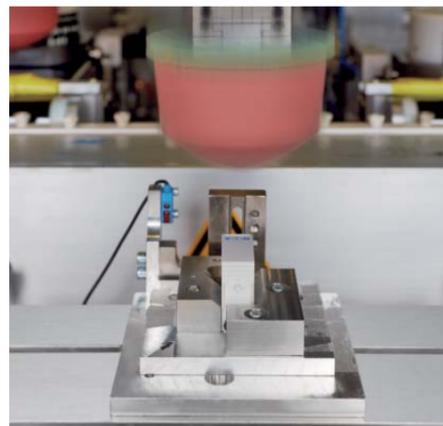
Electronics housings can also be produced in colors other than the standard color, either completely or as a combination of different colored housing parts. Our ability to reproduce your own company color maximizes brand recognition value.

Mechanically processed electronics housings



We can mill the necessary openings for connection systems, displays, screens or operating elements. Customer-specific cut-outs can be made on each side of the housing with our state-of-the-art milling machines. This means that you do not have to carry out additional manufacturing work or deal with the associated logistical issues. Your stock inventory is thereby reduced to components that are ready for assembly.

Marking and printing on electronics housings



Phoenix Contact offers the option of printing housings or housing parts according to your specifications. The following procedures are available:

- Pad printing: ideal for one- or two-color printing
- Screen printing: for printing in multiple colors on larger surfaces
- Laser printing: particularly suitable for content that changes on a regular basis, e.g., serial numbers or barcodes

Customer-specific adaptations in series tools



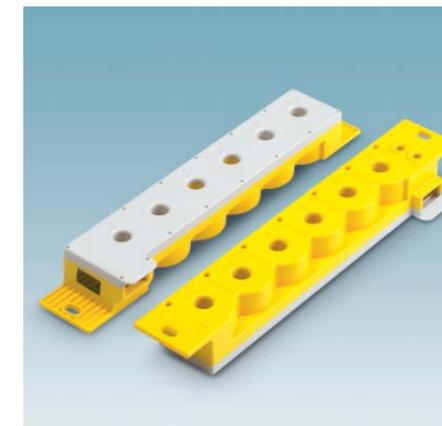
For large volumes, injection molding is often a more cost-effective approach than mechanical finishing. Phoenix Contact is able to offer you the option of producing customized housing components directly from an original mold.

Development of a customer-specific housing component



To deliver a solution adapted to meet your specific requirements, it is sometimes necessary to replace individual standard housing parts with customer-specific design features. We design housing parts according to your specifications and combine them with proven standard components.

Development of new customer-specific housings



Do you need a new, special housing designed according to your requirements? With the expertise of our experienced housing specialists, we will support and assist you through all the necessary steps.

What you can expect from us:

- Draft of concept
- Design
- Prototype construction
- Tool engineering
- Pre-series production
- Series production

The example shown here is the housing for a custom-made insulation fault evaluator by Bender GmbH & Co. KG Grünberg.

Housing modular

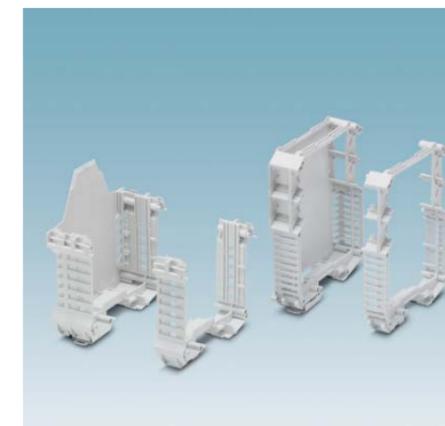


ME and ME MAX modular electronics housings offer a functional and design-oriented “packaging” solution for modern electronic components. Variable connection technology, bus connectors, and modularity ensure the right device design for every application.



Flat designs

Flat and super-flat designs are the ideal solution for use in distributed terminal boxes.



Modular construction

Housing widths with 17.5 mm or 22.5 mm pitch can be increased as required by aligning intermediate elements.



Connection Systems

Hard soldered or plug-in connection technology with variable pitch dimensions and numbers of positions maximizes flexibility where PCB connections are concerned.



ME housing range

Your advantages at a glance:

- Pre-assembled receptacle housing
- Various cover versions
- Same PCB geometry for different PCB connection technologies
- Optional: DIN rail connector or integrated cross connector

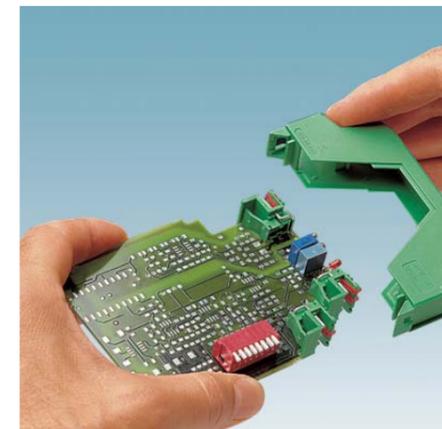
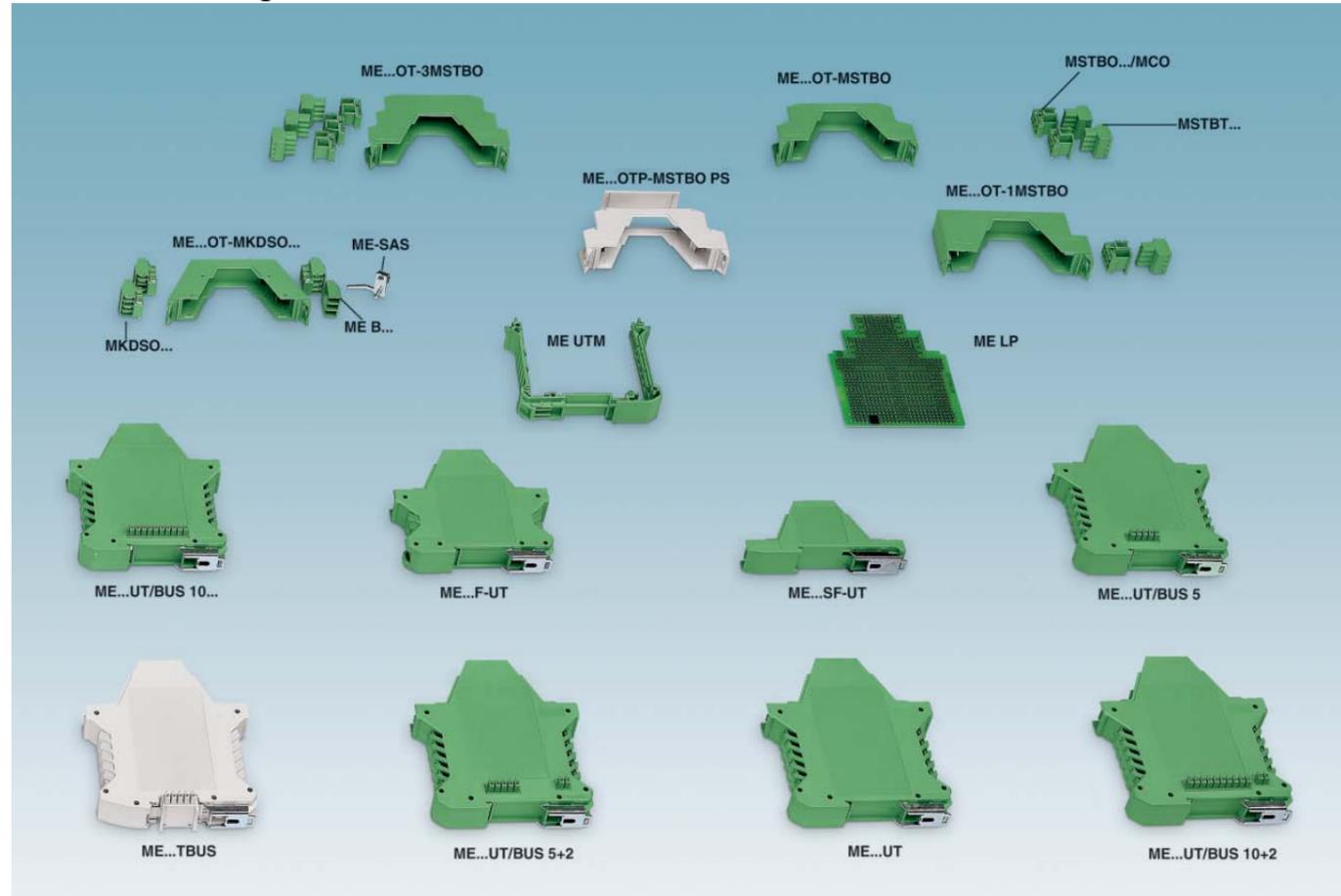


ME MAX housing range

Your advantages at a glance:

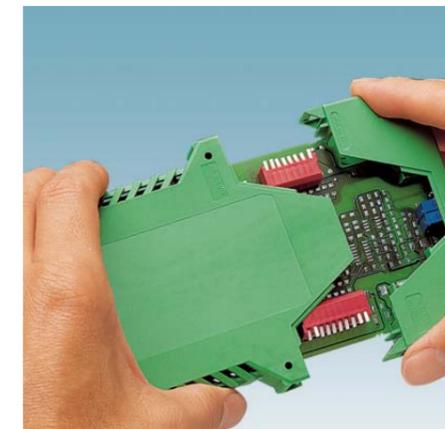
- Large PCB assembly area
- Large front panel with transparent cover and fitted cover
- Half-shell design
- Optional with DIN rail connector

ME electronics housings

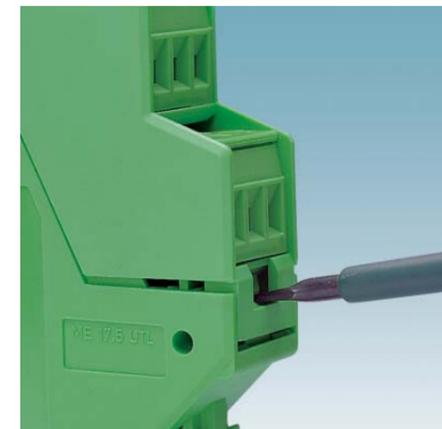


Mounting principle

Electronic components and PCB connection technology can be assembled and soldered in a single step. The upper part of the housing is mounted simply by latching with the soldered connection technology.



Having been pre-assembled in this way, the upper part is then pushed into the base of the housing, where it locks automatically.

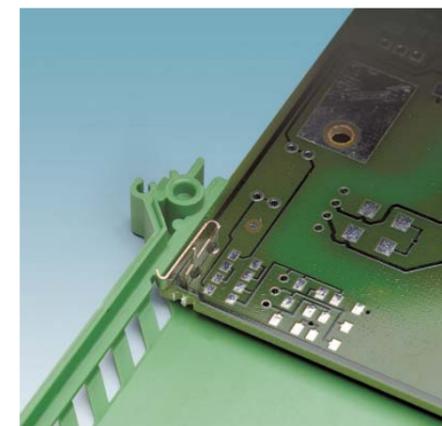


Release

The housing can be easily opened by simply pressing on the lock hook, e.g., using a screwdriver.



- ① MSTBO/MKDSO, etc., PCB connection technology see page 656
- ② ME...OT upper housing parts starting on page 670
- ③ ME LP sample PCB see page 658
- ④ ME...UT housing bases starting on page 658



Partial removal

After approximately 4 cm, the ME LPZS PCB stop prevents the PCB from being removed completely and simultaneously locks it in place.



Integrated bus connectors

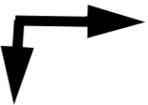
The bus connector integrated in the bottom of the ME housing is in one piece. The conductive path contact points on the PCB make direct contact with the gold-plated contact forks of the cross connector when the electronics module is inserted. A functional earth ground contact also integrated into the bottom of the housing connects the inserted PCB directly to the grounded DIN rail.



DIN rail connectors

The ME...TBUS connector snaps onto all standard NS 35/7,5 or NS 35/15 DIN rails. When an individual device is removed from the topology, the contact chain is not interrupted.

Matrix for selecting the housing base

ME housing base	Type	Page	Width [mm]	Without bus connector	With bus connector			With bus connector			Intermediate element for increasing the housing width	
				ME... UT (G) Page 658	Integrated		Integrated		For DIN rails 5-pos. ME...-TBUS Page 666	17.5 mm pitch		22.5 mm pitch
					5-pos. ME... UT BUS/5 Page 662	5+2-pos. ME... UT BUS/5+2 Page 662	10-pos. ME... UT BUS/10 Page 662	10+2-pos. ME... UT BUS/10+2 Page 662		ME 35 UTM / ME35 UTMG Page 675	ME 45 UTM / ME 45 UTMG Page 675	
<p>Start by selecting the housing base</p> 												
Tall design (standard)												
	ME 12,5 UT...	658	12.5	•								
	ME 17,5 UT...	658	17.5	•	•			•				
	ME 22,5 UT...	659	22.5	•	•	•		•				•
	ME 35 UT...	660	35	•	•	•		•				•
	ME 45 UT....	660	45	•	•	•		•				•
	ME 67,5 UT....	661	67.5	•	•	•		•				•
	ME 90 UT....	661	90	•	•	•		•				•
Flat design												
	ME 22,5 F-UT....	659	22.5	•	•	•		•				
Ultra-flat design												
	ME 22,5 SF	659	22.5	•								

Then select the housing upper part

Matrix for selecting the housing upper part

ME housing base	Type	Page	ME upper housing parts			ME upper housing parts	
			For PCB terminal block connection			Double-level ME... OT-MSTBO Page 670	For COMBICON connection Three-level ME... OT-3MSTBO Page 670
			For PCB terminal block connection Screw ME... OTU-MKD50 Page 670	Spring-cage ME... OT-FKDSO Page 670	For COMBICON connection Single-level ME... OT-1MSTBO Page 670		
<p>Select the housing upper part according to the housing width</p> 							
Tall design (standard)							
	ME 12,5 UT...	658	•	•		•	
	ME 17,5 UT...	658	•	•		•	
	ME 22,5 UT...	659	•	•	•	•	•
	ME 35 UT...	660	○	○		•	
	ME 45 UT....	660	•	•	•	•	○
	ME 67,5 UT....	661	○	○	•	○	○
	ME 90 UT....	661	○	○	•	○	○
Flat design							
	ME 22,5 F-UT....	659	•	•	•	•	•
Ultra-flat design							
	ME 22,5 SF	659	•	•	•	•	•

Then select the connection technology

• = Housing upper part available in corresponding design width.
○ = Combination of several upper parts with smaller design width in the same housing pitch.

Matrix for selecting the connection technology

ME housing upper part	Type	Page	Width [mm]	PCB terminal block				COMBICON connection					Number of terminal points	
				3.5 mm pitch MKDSO 1,5/...3,5 Page 89	Screw 5 mm pitch MKDSO 2,5/... Page 113	7.5 mm pitch MKDSO 2,5 HV...7,5 Page 125	5 mm pitch FKDSO 2,5/... Page 153	3.5 mm pitch MCO 1,5/...3,5 Page 232	5 mm pitch MSTBO 2,5/... Page 322	Header Pitch: 5, touch proof MSTBO 2,5/...P Page 325	Pitch: 5, THR MSTBO 2,5/...THR UTMG Page 309	7.25 mm pitch GMSTBO 2,5 HV/...THR UTMG Page 510		
	ME 12,5 OTU-MKDSO	670	12.5	• 3-pos.	• 2-pos.									2 per housing side
	ME 17,5 OTU-MKDSO	670	17.5	• 4-pos.	• 3-pos.									2 per housing side
	ME 22,5 OTU-MKDSO	671	22.5	• 5-pos.	• 4-pos.									2 per housing side
	ME 45 OTU-MKDSO	671	45	• 5-pos.	• 4-pos.									4 per housing side
	ME 12,5 OT-FKDSO	670	12.5				• 2-pos.							2 per housing side
	ME 17,5 OT-FKDSO	670	17.5				• 3-pos.							2 per housing side
	ME 22,5 OT-FKDSO	671	22.5				• 4-pos.							2 per housing side
	ME 45 OT-FKDSO	671	45				• 4-pos.							4 per housing side
	ME 22,5 OT-1MSTBO	670	22.5					• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.		1 → Housing upper part can only be fitted with terminal block on one side
	ME 45 OT-1MSTBO	670	45					• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.		2 → Housing upper part can only be fitted with terminal block on one side
	ME 67,5 OT-1MSTBO	671	67.5					• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.		3 → Housing upper part can only be fitted with terminal block on one side
	ME 90 OT-1MSTBO	671	90					• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.		4 → Housing upper part can only be fitted with terminal block on one side
	ME 12,5 OT-MSTBO	670	12.5					• 3-pos.	• 2-pos.	• 2-pos.	• 2-pos.			2 per housing side
	ME 17,5 OT-MSTBO	670	17.5					• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.		2 per housing side
	ME 22,5 OT-MSTBO	671	22.5					• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.		2 per housing side
	ME 35 OT-MSTBO	671	35					• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.		4 per housing side
	ME 45 OT-MSTBO	671	45					• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.		4 per housing side
	ME 22,5 OT-3MSTBO	671	22.5			Only for ME MAX housing range		• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.		3 per housing side

Matrix for selecting the filler plug

ME housing upper part	Type	Page	Width [mm]	Filler plug			
				For PCB terminal block upper part		For COMBICON upper part	
				ME B-...MKDSO Page 674	ME B-...FKDSO Page 674	ME B-...MSTBO Page 674	ME B-...3MSTBO Page 674
	ME 12,5 OTU-MKDSO	670	12.5	•			
	ME 17,5 OTU-MKDSO	670	17.5	•			
	ME 22,5 OTU-MKDSO	671	22.5	•			
	ME 45 OTU-MKDSO	671	45	•			
	ME 12,5 OT-FKDSO	670	12.5		•		
	ME 17,5 OT-FKDSO	670	17.5		•		
	ME 22,5 OT-FKDSO	671	22.5		•		
	ME 45 OT-FKDSO	671	45		•		
	ME 22,5 OT-1MSTBO	671	22.5			•	
	ME 45 OT-1MSTBO	671	45			•	
	ME 67,5 OT-1MSTBO	671	67.5			•	
	ME 90 OT-1MSTBO	671	90			•	
	ME 12,5 OT-MSTBO	670	12.5			•	
	ME 17,5 OT-MSTBO	670	17.5			•	
	ME 22,5 OT-MSTBO	671	22.5			•	
	ME 35 OT-MSTBO	671	35			•	
	ME 45 OT-MSTBO	671	45			•	
	ME 22,5 OT-3MSTBO	671	22.5				• 2 required per terminal point.

Specified number of positions = number of positions per terminal point

Modular component housing for industrial electronics

Modular component housing for industrial electronics

Bases for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
1) For information on power dissipation, see page 770.



Tall design, width: 12.5 mm



Tall design, width: 17.5 mm



Ultra-flat design, width: 22.5 mm



Flat design, width 22.5 mm



Tall design, width: 22.5 mm

Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	ME 12,5 UT GN	ME 12,5 UTG GN	-	-
Mounted in rows without spacing	4.4 W	4.3 W	-	-
Mounted in rows with min. 20 mm spacing	8.4 W	7.1 W	-	-
Type of housing	Electronic housings			

Technical data				
ME 12,5 UT GN	ME 12,5 UTG GN	-	-	-
4.4 W	4.3 W	-	-	-
8.4 W	7.1 W	-	-	-
Polyamide / V0				

Technical data				
ME 17,5 UT GN	ME 17,5 UTG GN	-	-	-
5.2 W	4.9 W	-	-	-
10.8 W	8.9 W	-	-	-
Polyamide / V0				

Technical data				
ME 22,5 SF-UT GN	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Polyamide / V0				

Technical data				
ME 22,5 F-UT GN	ME 22,5 F-UTG GN	-	-	-
5.9 W	5.5 W	-	-	-
11.5 W	9.6 W	-	-	-
Polyamide / V0				

Technical data				
ME 22,5 UT GN	ME 22,5 UTG GN	-	-	-
6.1 W	5.7 W	-	-	-
12.1 W	10.1 W	-	-	-
Polyamide / V0				

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	ME 12,5 UT GN	2906759	10
without vents	ME 12,5 UTG GN	2906762	10
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact			
with vents	ME 12,5 UT/FE GN	2906791	10
without vents	ME 12,5 UTG/FE GN	2906801	10
Lower part of housing, fully assembled, with metal foot catch			
Superflat design			
Lower part of housing, fully assembled, with metal foot catch			
with vents, low-profile design			
without vents, low-profile design			
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact, flat design			
with vents			
without vents			

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	ME 17,5 UT GN	2906775	10
without vents	ME 17,5 UTG GN	2906788	10
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact			
with vents	ME 17,5 UT/FE GN	2906924	10
without vents	ME 17,5 UTG/FE GN	2906937	10

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	ME 22,5 UT GN	2907130	10
without vents	ME 22,5 UTG GN	2907127	10
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact, flat design			
with vents	ME 22,5 UT/FE GN	2907114	10
without vents	ME 22,5 UTG/FE GN	2907101	10

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	ME 22,5 SF-UT GN	2708009	10
without vents			

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	ME 22,5 F-UT GN	2854131	10
without vents	ME 22,5 F-UTG GN	2854144	10
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact, flat design			
with vents	ME 22,5 F-UT/FE GN	2854160	10
without vents	ME 22,5 F-UTG/FE GN	2854157	10

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	ME 22,5 UT GN	2907130	10
without vents	ME 22,5 UTG GN	2907127	10
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact, flat design			
with vents	ME 22,5 UT/FE GN	2907114	10
without vents	ME 22,5 UTG/FE GN	2907101	10

Accessories			
PCB, for custom mounting components, for ME housing without bus connector	ME LP	2906908	5

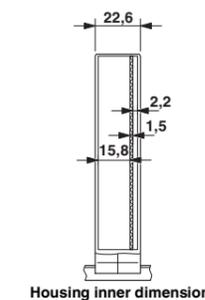
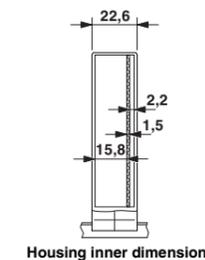
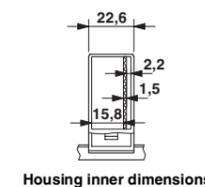
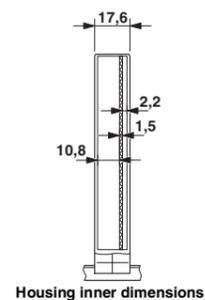
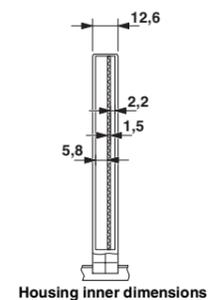
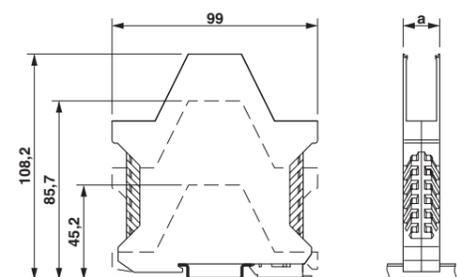
Accessories			
PCB, for custom mounting components, for ME housing without bus connector	ME LP	2906908	5

Accessories			
PCB, for custom mounting components, for ME housing without bus connector	ME LP	2906908	5

Accessories			
PCB, for custom mounting components, for ME housing without bus connector	ME LP	2906908	5

Accessories			
PCB, for custom mounting components, for ME housing without bus connector	ME LP	2906908	5

Accessories			
PCB, for custom mounting components, for ME housing without bus connector	ME LP	2906908	5



Modular component housing for industrial electronics

Modular component housing for industrial electronics

Bases for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:

- Marking systems and mounting material See Catalog 5
- At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
- For PCB connection technology, see page 656.
- For accessories, see page 674.
- 1) For information on power dissipation, see page 770.



Tall design, width: 35 mm



Tall design, width: 45 mm



Tall design, width: 67.5 mm



Tall design, width: 90 mm

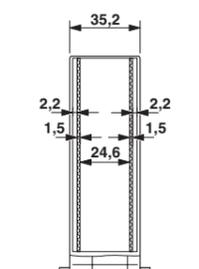
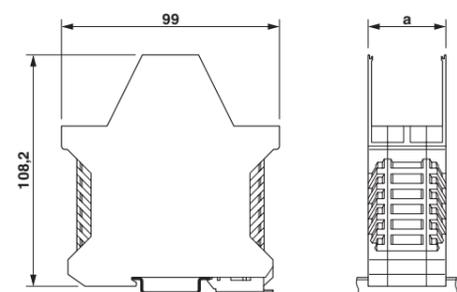
Technical data	
Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	Mounted in rows without spacing Mounted in rows with min. 20 mm spacing
Type of housing	Electronic housings
Description	
Lower part of housing, fully assembled, with metal foot catch	
with vents	without vents
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact	
with vents	without vents
PCB, for custom mounting components, for ME housing without bus connector	

Technical data			
ME 35 UT GN	ME 35 UTG GN		
7.9 W	7.5 W	-	-
16.3 W	13.8 W	-	-
Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME 35 UT GN	2907198	10	
ME 35 UTG GN	2907208	10	
ME 35 UT/FE GN	2907211	10	
ME 35 UTG/FE GN	2907224	10	
Accessories			
ME LP	2906908	5	

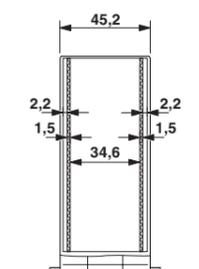
Technical data			
ME 45 UT GN	ME 45 UTG GN		
8.2 W	7.6 W	-	-
16.5 W	14.1 W	-	-
Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME 45 UT GN	2909361	10	
ME 45 UTG GN	2909374	10	
ME 45 UT/FE GN	2909358	10	
ME 45 UTG/FE GN	2909387	10	
Accessories			
ME LP	2906908	5	

Technical data		
ME 67,5 UT/FE KMGY		
9.1 W	-	-
17.5 W	-	-
Ordering data		
Type	Order No.	Pcs. / Pkt.
ME 67,5 UT/FE KMGY	2200535	10
Accessories		
ME LP	2906908	5

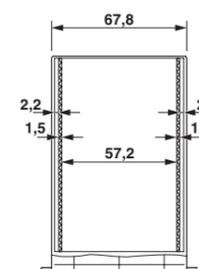
Technical data		
ME 90 UT/FE KMGY		
10.4 W	-	-
18.9 W	-	-
Ordering data		
Type	Order No.	Pcs. / Pkt.
ME 90 UT/FE KMGY	2200536	10
Accessories		
ME LP	2906908	5



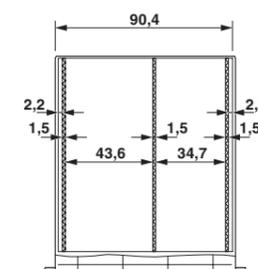
Housing inner dimensions



Housing inner dimensions

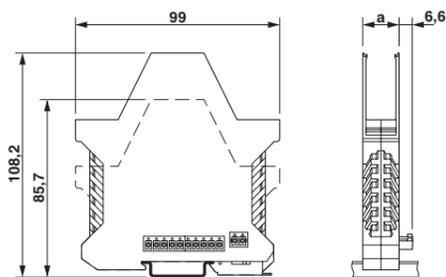
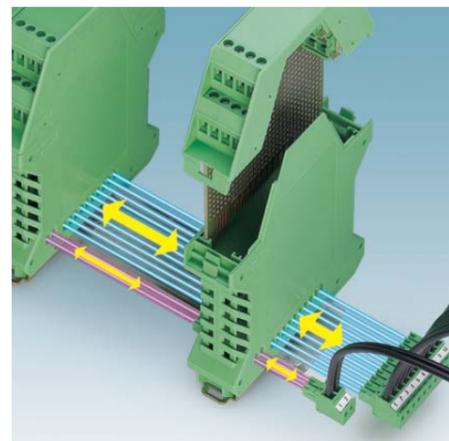


Housing inner dimensions



Housing inner dimensions

ME BUS modular component housing



Tall design, width: 17.5 mm



Flat design, width 22.5 mm



Tall design, width: 22.5 mm



Tall design, width: 35 mm

The ME bus housings are the system version of the ME modular electronic housing with integrated, cascading cross connection.

Main features:

- Six housing widths from 17.5 mm to 90 mm
- 5 or 10 integrated parallel contacts
- 2 optional serial contacts (daisy chain)
- Gold contacts for data transmission and power supply (125 V, 8 A)
- Supply via standard MINI COMBICON connector
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:

Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
1) For information on power dissipation, see page 770.

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	ME 17,5 UT/FE BUS/ 5 GN 5.2 W 10.8 W	-	-	-
Mounted in rows without spacing				
Mounted in rows with min. 20 mm spacing				
Type of housing	Electronic housings			
Electronic housings	Polyamide / V0			

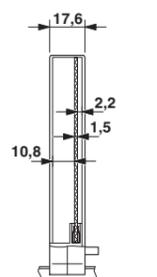
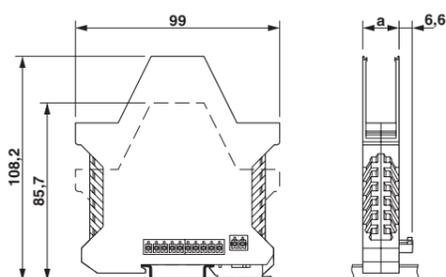
Description	Type	Order No.	Pcs. / Pkt.
Lower part of a housing , with vents, fully pre-assembled, with integrated bus connector (parallel)			
Without functional earth ground contact, with bus connector, 5-pos.			
Without functional earth ground contact and with bus connector, 10-pos.			
With functional earth ground contact and bus connector, 5-pos.	ME 17,5 UT/FE BUS/ 5 GN	2908728	10
With functional earth ground contact and bus connector, 10-pos.	ME 17,5 UT/FE BUS/10 GN	2908731	10
Housing base , with vents and functional earth ground contacts			
With additional serial contacting (2-pos.), with bus connector, 5-pos. and 2-pos.	ME 17,5 UT/FE BUS/ 5+2 GN	2854186	10
With additional serial contacting (2-pos.), with bus connector, 10-pos. and 2-pos.	ME 17,5 UT/FE BUS/10+2 GN	2854199	10
Housing base , flat design, fully pre-assembled			
With vents and bus connector, 5-pos.			
Without vents, with bus connector, 5-pos.			
With vents and bus connector, 10-pos.			
Without vents, with bus connector, 10-pos.			
Lower part of housing , flat design, fully pre-assembled with integrated 5 or 10 pos. bus connector (parallel) and additional serial contacting (2-pos.)			
With vents and bus connector, 5-pos., 2-pos.			
Without vents and with bus connector, 5-pos., 2-pos.			
With vents and bus connector, 10-pos., 2-pos.			
Without vents and with bus connector, 10-pos., 2-pos.			

Technical data

ME 17,5 UT/FE BUS/ 5 GN	5.2 W	-	-	-
	10.8 W	-	-	-
Polyamide / V0				

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 17,5 UT/FE BUS/ 5 GN	2908728	10
ME 17,5 UT/FE BUS/10 GN	2908731	10
ME 17,5 UT/FE BUS/ 5+2 GN	2854186	10
ME 17,5 UT/FE BUS/10+2 GN	2854199	10



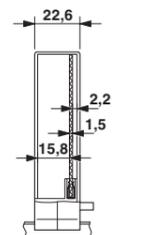
Housing inner dimensions

Technical data

ME 22,5 F-UT BUS/ 5 GN	5.9 W	-	-	-
	11.5 W	-	-	-
Polyamide / V0				

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 F-UT BUS/ 5 GN	2735975	10
ME 22,5 F-UTG BUS/ 5 GN	2735988	10
ME 22,5 F-UT BUS/10 GN	2735991	10
ME 22,5 F-UTG BUS/10 GN	2736000	10
ME 22,5 F-UT BUS/ 5+2 GN	2706014	10
ME 22,5 F-UTG BUS/ 5+2 GN	2706027	10
ME 22,5 F-UT BUS/10+2 GN	2706030	10
ME 22,5 F-UTG BUS/10+2 GN	2706043	10



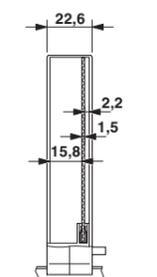
Housing inner dimensions

Technical data

ME 22,5 UT/FE BUS/ 5 GN	6.1 W	-	-	-
	12.1 W	-	-	-
Polyamide / V0				

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 UT/FE BUS/ 5 GN	2908744	10
ME 22,5 UT/FE BUS/10 GN	2908755	10
ME 22,5 UT/FE BUS/ 5+2 GN	2854209	10
ME 22,5 UT/FE BUS/10+2 GN	2854212	10



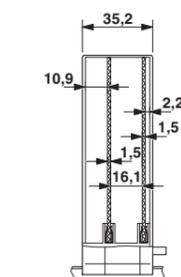
Housing inner dimensions

Technical data

ME 35 UT BUS/ 5 GN	7.9 W	-	-	-
	16.3 W	-	-	-
Polyamide / V0				

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 35 UT BUS/ 5 GN	2853637	10
ME 35 UT BUS/10 GN	2853640	10
ME 35 UT/FE BUS/5 GN	2706771	10
ME 35 UT/FE BUS/ 5+2 GN	2735551	10
ME 35 UT/FE BUS/10+2 GN	2735564	10



Housing inner dimensions

ME BUS modular component housing

Notes:

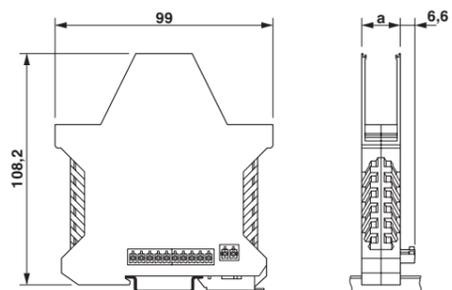
Marking systems and mounting material
See Catalog 5

At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.

For PCB connection technology, see page 656.

For accessories, refer to page: 674.

1) For information on power dissipation, see page 770.



Tall design, width: 45 mm



Tall design, width: 67.5 mm



Tall design, width: 90 mm



Power dissipation P_v at 20°C in horizontal mounting position¹⁾

Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings

Technical data			
ME 45 UT BUS/5 GN			
8.2 W	-	-	-
16.5 W	-	-	-
Polyamide / V0			

Description
Housing base, with vents, fully pre-assembled
Without functional earth ground contact, with bus connector, 5-pos.
Without functional earth ground contact, with bus connector, 10-pos.
With functional earth ground contact and bus connector, 5-pos.
With functional earth ground contact and bus connector, 10-pos.
Housing base, fully pre-assembled, with metal foot catch, with integrated functional earth ground contacts and vents
With additional serial contacting (2-pos.), with bus connector, 5-pos. and 2-pos.
With additional serial contacting (2-pos.), with bus connector, 10-pos. and 2-pos.

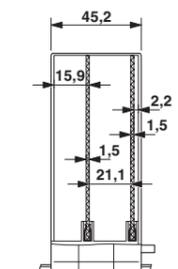
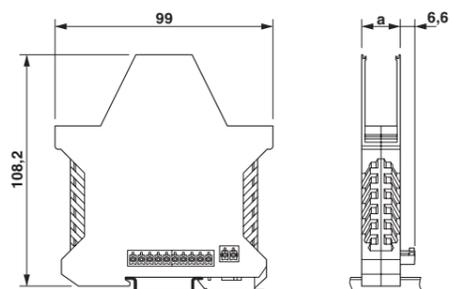
Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME 45 UT BUS/5 GN	2853679	10	
ME 45 UT BUS/10 GN	2853682	10	
ME 45 UT/FE BUS/ 5 GN	2709765	10	
ME 45 UT/FE BUS/ 5+2 GN	2735577	10	
ME 45 UT/FE BUS/10+2 GN	2735580	10	

Technical data			
ME 67,5 UT/FE BUS/10 KMGY			
9.1 W	-	-	-
17.5 W	-	-	-
Polyamide / V0			

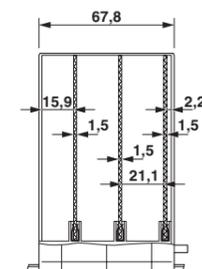
Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME 67,5 UT/FE BUS/10 KMGY	2200539	10	
ME 67,5 UT/FE BUS/5+2 KMGY	2200537	10	
ME 67,5 UT/FE BUS/10+2 KMGY	2200541	10	

Technical data			
ME 90 UT/FE BUS/10 KMGY			
10.4 W	-	-	-
18.9 W	-	-	-
Polyamide / V0			

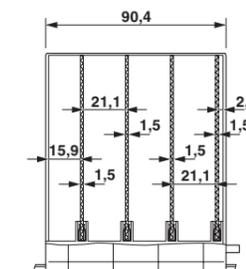
Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME 90 UT/FE BUS/10 KMGY	2200540	10	
ME 90 UT/FE BUS/5+2 KMGY	2200538	10	
ME 90 UT/FE BUS/10+2 KMGY	2200543	10	



Housing inner dimensions

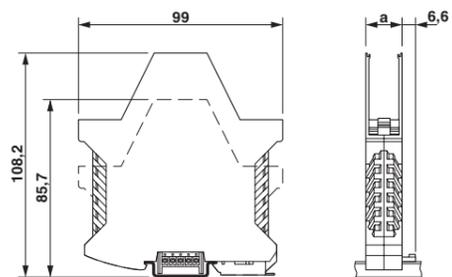


Housing inner dimensions



Housing inner dimensions

ME TBUS modular component housing



Tall design, width: 17.5 mm



Flat design, width 22.5 mm



Tall design, width: 22.5 mm



Tall design, width: 35 mm

The ME TBUS housings can be interconnected using the DIN-rail mountable ME...TBUS connectors

Main features:

- Six housing widths from 17.5 mm to 90 mm
- ME...TBUS connector with 5 parallel contacts can be snapped onto DIN rails to save space
- Gold contacts for data transmission and power supply (125 V, 8 A)
- When a device is unplugged from the system as a whole, the signal chain is not interrupted
- Supply via standard MINI COMBICON connector
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:

Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
1) For information on power dissipation, see page 770.
2) DIN rail connectors see page 676.

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾					
Mounted in rows without spacing	5.2 W	4.9 W	-	-	-
Mounted in rows with min. 20 mm spacing	10.8 W	8.9 W	-	-	-
Type of housing	Polyamide / V0				
Electronic housings					
Connection data	solid	stranded	AWG	I [A]	U [V]
ME 17,5.../TBUS...	-	-	-	8	125

Description	Type	Order No.	Pcs. / Pkt.
Housing lower part , light gray, fully assembled, without TBUS connector with vents	ME 17,5 UT TBUS KMGY	2914783	10
without vents	ME 17,5 UTG TBUS KMGY	2914796	10
Housing lower part , light gray, fully mounted, without TBUS connector, flat housing type			
with vents			
without vents			

DIN rail bus connector, 5-pos. ²⁾	ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50
Power clip for TBUS connector, for strain relief in connection with MC(VR) 1,5/5-... or IMC 1,5/5-ST-3,81 AU plugs	E/ME TBUS NS35 GY	2713780	50

Technical data

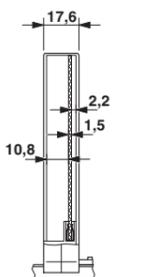
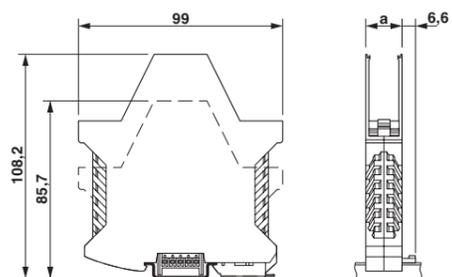
ME 17,5 UT TBUS KMGY	ME 17,5 UTG TBUS KMGY				
5.2 W	4.9 W	-	-	-	-
10.8 W	8.9 W	-	-	-	-
Polyamide / V0					
solid	stranded	AWG	I [A]	U [V]	
-	-	-	8	125	

Ordering data

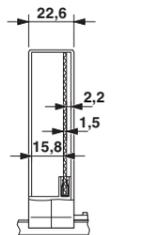
Type	Order No.	Pcs. / Pkt.
ME 17,5 UT TBUS KMGY	2914783	10
ME 17,5 UTG TBUS KMGY	2914796	10

Accessories

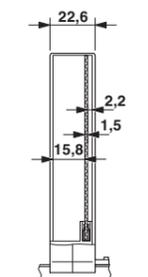
ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50
E/ME TBUS NS35 GY	2713780	50



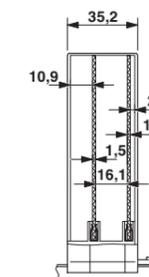
Housing inner dimensions



Housing inner dimensions



Housing inner dimensions



Housing inner dimensions

Technical data

ME 22,5 F-UT TBUS KMGY	ME 22,5 F-UTG TBUS KMGY				
5.9 W	5.5 W	-	-	-	-
11.5 W	9.6 W	-	-	-	-
Polyamide / V0					
solid	stranded	AWG	I [A]	U [V]	
-	-	-	8	125	

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 F-UT TBUS KMGY	2914835	10
ME 22,5 F-UTG TBUS KMGY	2914851	10

Accessories

ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50
E/ME TBUS NS35 GY	2713780	50

Technical data

ME 22,5 UT TBUS KMGY	ME 22,5 UTG TBUS KMGY				
6.1 W	5.7 W	-	-	-	-
12.1 W	10.1 W	-	-	-	-
Polyamide / V0					
solid	stranded	AWG	I [A]	U [V]	
-	-	-	8	125	

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 UT TBUS KMGY	2869524	10
ME 22,5 UTG TBUS KMGY	2914806	10

Accessories

ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50
E/ME TBUS NS35 GY	2713780	50

Technical data

ME 35 UT TBUS KMGY	ME 35 UTG TBUS KMGY				
7.9 W	7.5 W	-	-	-	-
16.3 W	13.8 W	-	-	-	-
Polyamide / V0					
solid	stranded	AWG	I [A]	U [V]	
-	-	-	8	125	

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 35 UT TBUS KMGY	2914819	10
ME 35 UTG TBUS KMGY	2914822	10

Accessories

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50
E/ME TBUS NS35 GY	2713780	50

Modular component housing for industrial electronics

Modular component housing for industrial electronics

Upper parts for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.



Width: 12.5 mm



Width: 17.5 mm



Width: 22.5 mm



Width: 35 mm



Width: 45 mm

Type of housing
Electronic housings

Technical data				Technical data			
Polyamide / V0				Polyamide / V0			
Ordering data				Ordering data			
Type	Order No.	Pcs. / Pkt.		Type	Order No.	Pcs. / Pkt.	
Housing upper part , for PCB terminal block connection with 3.5 or 5 mm pitch, color: green				ME 12,5 OTU-MKDSO GN	2278856	10	
Housing upper part , for COMBICON connection with 3.5 mm or 5 mm pitch, color: green				ME 17,5 OTU-MKDSO GN	2278872	10	
Single-level							
Double-level				ME 12,5 OT-MSTBO GN	2906814	10	
Three-level				ME 17,5 OT-MSTBO GN	2906827	10	
Housing upper part , for spring-cage PCB terminal block connection with 5 mm pitch, color: light gray							
Housing upper part , for PCB terminal block connection with 3.5 or 5 mm pitch, color: light gray				ME 17,5 OT-FKDSO KMGY	2200322	10	
Housing upper part , for COMBICON connection with 3.5 mm or 5 mm pitch, color: light gray				ME 17,5 OTU-MKDSO KMGY	2278940	10	
Single-level							
Double-level				ME 17,5 OT-MSTBO KMGY	2853747	10	
Three-level							
Housing upper part , for COMBICON connection with 3.5 or 5 mm pitch, suitable for fitted covers and Plug Snap, color: light gray				ME 17,5 OTP-MSTBO PS KMGY	2279253	10	
Fitted cover for ME upper parts ME ...OTP-MSTBO KMGY, color: light gray				ME 17,5 PLATE-MSTBO KMGY	2279266	10	
Housing upper part set , complete with COMBICON headers and plugs for full mounting with 5 mm pitch, color: green				ME 12,5 OT-MSTBO SET	2907428	1	
Single-level				ME 17,5 OT-MSTBO SET	2907431	1	
Double-level							
Three-level				ME 12,5 OT-MKDSO SET	2907457	1	
Housing upper part set , complete with PCB terminal blocks for full assembly, 5 mm pitch, color: green				ME 17,5 OT-MKDSO SET	2907460	1	

Type of housing
Electronic housings

Technical data				Technical data				Technical data			
Polyamide / V0				Polyamide / V0				Polyamide / V0			
Ordering data				Ordering data				Ordering data			
Type	Order No.	Pcs. / Pkt.		Type	Order No.	Pcs. / Pkt.		Type	Order No.	Pcs. / Pkt.	
ME 22,5 OTU-MKDSO GN	2278966	10		ME 17,5 OTU-MKDSO GN	2278872	10		ME 45 OTU-MKDSO GN	2279826	10	
ME 22,5 OT-1MSTBO GN	2709558	10						ME 45 OT-1MSTBO GN	2709192	10	
ME 22,5 OT-MSTBO GN	2907169	10		ME 35 OT-MSTBO GN	2709639	10		ME 45 OT-MSTBO GN	2909743	10	
ME 22,5 OT-3MSTBO GN	2735962	10									
ME 22,5 OT-FKDSO KMGY	2200323	10		ME 17,5 OT-FKDSO KMGY	2200322	10		ME 45 OT-FKDSO KMGY	2200327	10	
ME 22,5 OTU-MKDSO KMGY	2278953	10		ME 17,5 OTU-MKDSO KMGY	2278940	10		ME 45 OTU-MKDSO KMGY	2279923	10	
ME 22,5 OT-1MSTBO KMGY	2914877	10						ME 45 OT-1MSTBO KMGY	2709299	10	
ME 22,5 OT-MSTBO KMGY	2907761	50		ME 35 OT-MSTBO KMGY	2914864	10		ME 45 OT-MSTBO KMGY	2854429	10	
ME 22,5 OT-3MSTBO KMGY	2914880	10									
ME 22,5 OTP-MSTBO PS KMGY	2279282	10		ME 17,5 OTP-MSTBO PS KMGY	2279253	10		ME 22,5 OTP-MSTBO PS KMGY	2279282	10	
ME 22,5 PLATE-MSTBO KMGY	2279279	10		ME 17,5 PLATE-MSTBO KMGY	2279266	10		ME 22,5 PLATE-MSTBO KMGY	2279279	10	
ME 22,5 OT-1MSTBO SET	2707741	1						ME 45 OT-1MSTBO SET	2707754	1	
ME 22,5 OT-MSTBO SET	2907444	1		ME 35 OT-MSTBO SET	2707738	1		ME 45 OT-MSTBO SET	2909905	1	
ME 22,5 OT-3MSTBO SET	2707767	1									
ME 22,5 OT-MKDSO SET	2907473	1		ME 17,5 OT-MKDSO SET	2907460	1		ME 45 OT-MKDSO SET	2909345	1	

Upper parts for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products



Width: 67.5 mm



Width = 90 mm

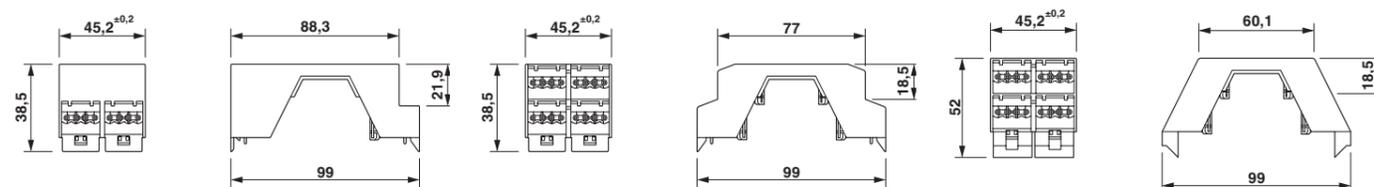
Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.

Type of housing	Electronic housings
Description	Housing upper part, for COMBICON connection with 3.5 mm or 5 mm pitch, single-level, color: light gray

Technical data		
Polyamide / V0		
Ordering data		
Type	Order No.	Pcs. / Pkt.
ME 67,5 OT-1MSTBO KMGY	2200522	10

Technical data		
Polyamide / V0		
Ordering data		
Type	Order No.	Pcs. / Pkt.
ME 90 OT-1MSTBO KMGY	2200523	10

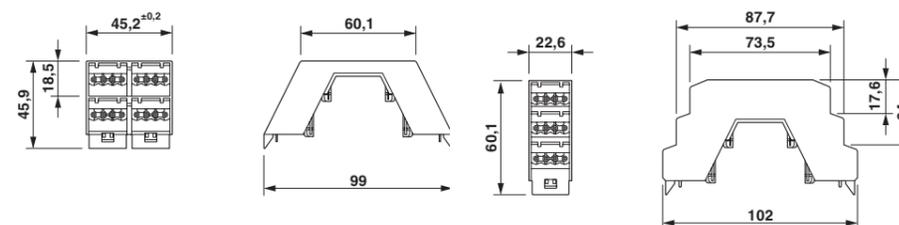
Upper parts ME...



Side view ME...OT-1MSTBO

Side view ME...OT-MSTBO

Side view ME...OT-MKDSO



Side view ME...OT-FKDSO

Side view ME...OT-3MSTBO

Accessories for the ME housing



Notes:
 Marking systems and mounting material
 See Catalog 5
 At least one COMBICON base strip or one PCB terminal block
 must be mounted on each side of the PCB.
 For PCB connection technology, see page 656.

An extensive range of accessories is available for the ME housing range so that functions can be extended in precise accordance with requirements

- These include:
- ME B... filler plugs for closing unused terminal points. One filler plug is required for each terminal point
 - ME...UTM intermediate elements and ME MF metal foot to increase the housing width
 - ME PS... plug snap connector ejector with labeling option in conjunction with ME...OTP-MSTBO PS upper housing parts
 - ESL labeling strips for ME PS ejector
 - EML... labels to match housing contour for device-specific labels
 - ME SAS shield connection clamp for potential connection of shielded cables

Description	Type	Order No.	Pcs. / Pkt.
Filler plugs , for unoccupied terminal points, color: green			
For upper part of COMBICON, single and double-level	ME B-12,5 MSTBO GN	2906856	10
For upper part of a PCB terminal block, double-level	ME B-12,5 MKDSO GN	2906872	10
For upper part of COMBICON, three-level, two pieces required per terminal point			
Filler plug , for unused terminal points, color: light gray			
For upper part of COMBICON, single and double-level	ME B-12,5 MSTBO KMGY	2854801	10
For upper part of a PCB terminal block, double-level			
For upper part of spring-cage PCB terminal block, double-level	ME B-12,5 FKDSO KMGY	2200565	50
For upper part of COMBICON, three-level, 2 required for each 22.5 mm terminal point			
Intermediate element , for modular extension of the housing volume, 17.5 / 22.5 mm pitch, color: green			
with vents			
without vents			
Plug snap ejector for COMBICON connectors for use with ME...OTP-MSTBO PS upper housing parts			
for MC connector			
for FMC connector			
for FKCT connector			
For MSTBT connector			
For TVFKCL connector			
For TVFKC connector			
Insert strips for Plug Snap, 1 sheet = 580 or 440 insert strips			
Thermal transfer label , material provided on rolls (1 roll = 200 labels), suitable for the side element of:			
ME ... UT ...	EML (44X76)R-ME	0828130	1
ME ... F-UT ...	EML (44X53)R-ME	0828156	1
ME ... SF-UT ...	EML (29X29)R-ME	0828172	1
ME ... UT ... BUS ...	EML (44X64)R-ME	0828266	1
ME ... F-UT ... BUS ...	EML (44X42)R-ME	0828279	1
ME ... UT ... TBUS ...	EML (44X72)R-ME	0828143	1
ME ... F-UT ... TBUS ...	EML (44X49)R-ME	0828169	1
Metal foot catch for intermediate element			
Shield connection clamp for PCB terminal block	ME-SAS	2853899	10
Keying section for MSTBO headers, is inserted into the recess on the header	CR MSTBO-G1	2199618	100
Coding profile , for COMBICON headers, is inserted into the slot on the plug, red insulating material	CP-MSTB	1734634	100



Accessories for ME 12,5

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME B-12,5 MSTBO GN	2906856	10	
ME B-12,5 MKDSO GN	2906872	10	
ME B-12,5 MSTBO KMGY	2854801	10	
ME B-12,5 FKDSO KMGY	2200565	50	
EML (44X76)R-ME	0828130	1	
EML (44X53)R-ME	0828156	1	
EML (29X29)R-ME	0828172	1	
EML (44X64)R-ME	0828266	1	
EML (44X42)R-ME	0828279	1	
EML (44X72)R-ME	0828143	1	
EML (44X49)R-ME	0828169	1	
ME-SAS	2853899	10	
CR MSTBO-G1	2199618	100	
CP-MSTB	1734634	100	



Accessories for ME 17,5



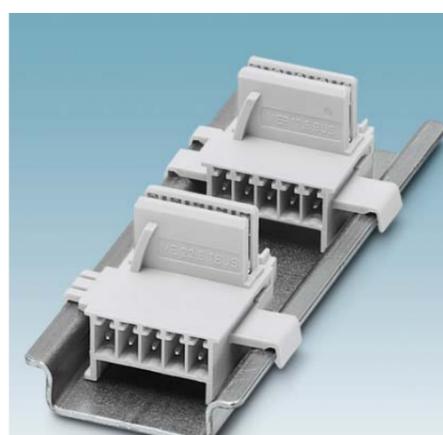
Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME B-17,5 MSTBO GN	2906869	10	
ME B-17,5 MKDSO GN	2906885	10	
ME B-17,5 MSTBO KMGY	2853776	10	
ME B-17,5 MKDSO KMGY	2854115	10	
ME B-17,5 FKDSO KMGY	2200566	50	
ME 35 UTM	2908265	10	
ME 35 UTMG	2908275	10	
ME PS-17,5 MC TRANS	2279842	50	
ME PS-17,5 FMC TRANS	2279949	50	
ESL 15X5	0822592	10	
EML (44X76)R-ME	0828130	1	
EML (44X53)R-ME	0828156	1	
EML (29X29)R-ME	0828172	1	
EML (44X64)R-ME	0828266	1	
EML (44X42)R-ME	0828279	1	
EML (44X72)R-ME	0828143	1	
EML (44X49)R-ME	0828169	1	
ME MF 17,5	2908281	50	
ME-SAS	2853899	10	
CR MSTBO-G1	2199618	100	
CP-MSTB	1734634	100	



Accessories for ME 22,5

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME B-22,5 MSTBO GN	2907156	10	
ME B-22,5 MKDSO GN	2907143	10	
ME B-12,5 3MSTBO GN	2709176	50	
ME B-22,5 MSTBO KMGY	2907965	50	
ME B-22,5 MKDSO KMGY	2908498	10	
ME B-22,5 FKDSO KMGY	2200567	50	
ME B-12,5 3MSTBO KMGY	2279787	50	
ME 45 UTM GN	2853404	10	
ME 45 UTMG GN	2853417	10	
ME PS-22,5 MC TRANS	2279745	50	
ME PS-22,5 FMC TRANS	2279648	50	
ME PS-22,5 FKCT TRANS	2279046	50	
ME PS-22,5 MSTBT TRANS	2279062	50	
ME PS-22,5 TVFKCL TRANS	2279088	50	
ME PS-22,5 TVFKC TRANS	2279075	50	
ESL 20X5	0822589	10	
EML (44X76)R-ME	0828130	1	
EML (44X53)R-ME	0828156	1	
EML (29X29)R-ME	0828172	1	
EML (44X64)R-ME	0828266	1	
EML (44X42)R-ME	0828279	1	
EML (44X72)R-ME	0828143	1	
EML (44X49)R-ME	0828169	1	
ME MF 17,5	2908281	50	
ME-SAS	2853899	10	
CR MSTBO-G1	2199618	100	
CP-MSTB	1734634	100	

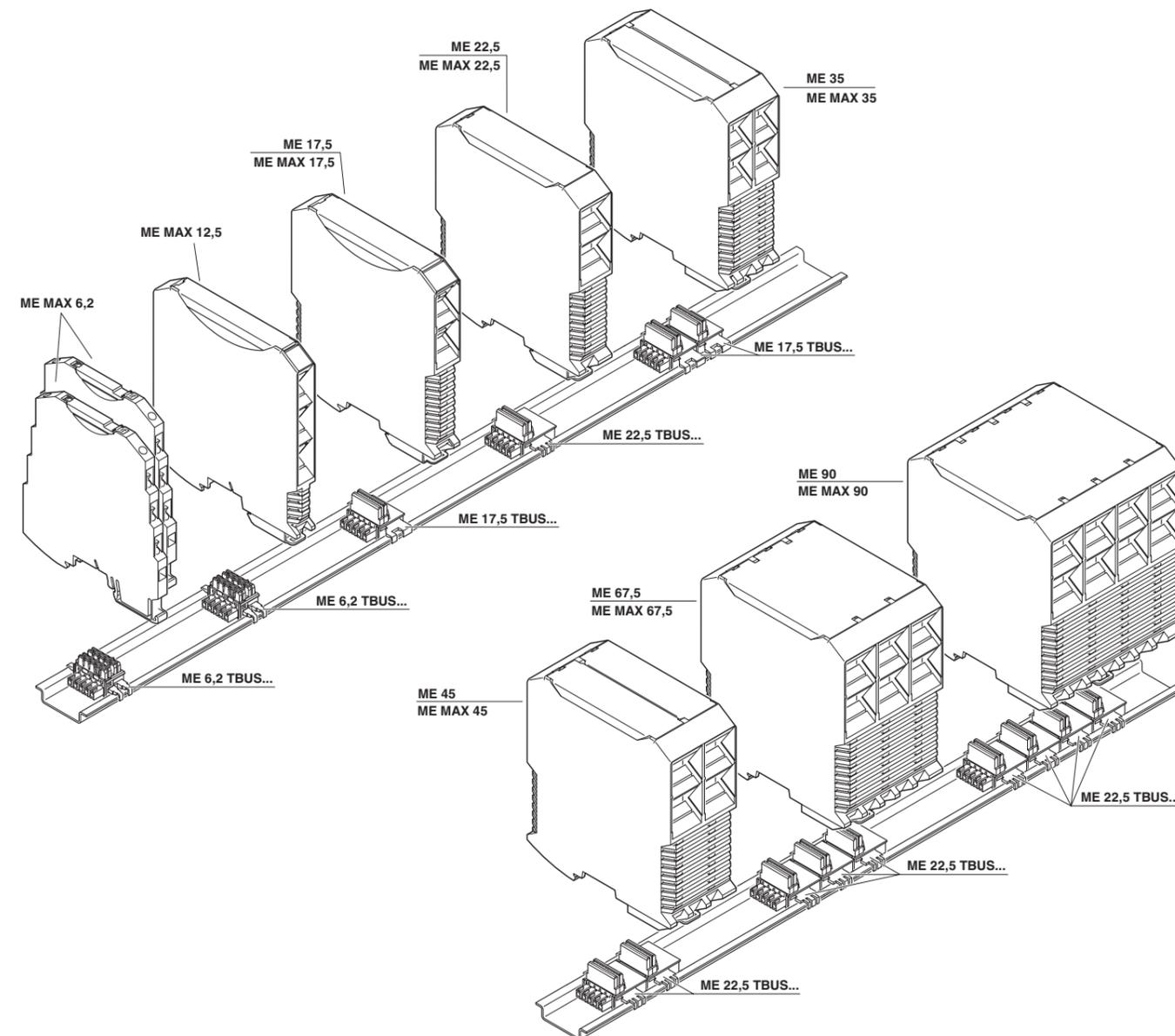
TBUS DIN rail connector



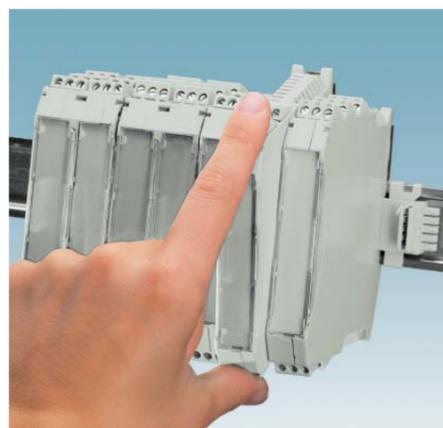
For ME and ME MAX housing ranges
 – Equally suitable for both housing ranges
 – For housing widths of 6.2 mm, 17.5 mm, and 22.5 mm and multiples thereof
 – Snap-on mounting on standard DIN rail NS 35/7,5 or NS 35/15

Automatic contacting
 – For parallel data transmission and power supply (125 V, 8 A)
 – 5-pos.
 – Gold-plated contacts
 – “Self-constructing” contact chain in the housing pitch

Direct plug-in technology
 – When the devices are snapped on, the contact points on the PCB slide directly into the gold-plated contact forks of the bus connector



Signal supply
 – MINI COMBICON plug-in connectors are used for the signal supply
 – Supply clip for strain relief



Individual modules can be unplugged
 – When a device is unplugged from the topology, the signal string is not interrupted

	ME MAX 6,2 Page 682	ME MAX 12,5 Page 684	ME 17,5 Page 666 ME MAX 17,5 Page 685	ME 22,5 Page 667 ME MAX 22,5 Page 686	ME 35 Page 667 ME MAX 35 Page 687	ME 45 Page 668 ME MAX 45 Page 688	ME 67,5 Page 669 ME MAX 67,5 Page 689	ME 90 Page 669 ME MAX 90 Page 690
ME 6,2 TBUS-2,5/5-ST-3,81 KMGY (2969401)	2 housings can be mounted on one TBUS	1 TBUS required per housing						
ME 17,5 TBUS-1,5/5-ST-3,81 KMGY (2713645)			1 TBUS required per housing		2 TBUS required per housing			
ME 22,5 TBUS-1,5/5-ST-3,81 KMGY (2713722)				1 TBUS required per housing		2 TBUS required per housing	3 TBUS required per housing	4 TBUS required per housing

ME MAX electronics housing



ME MAX U-U1 version electronics housings provide a connection level on one side of the housing combined with a universal cover. The other side of the housing is completely closed with a universal cover. This version is available in design widths from 17.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 2-2 version electronics housings provide 2 connection levels on each side of the housing. This version is available in design widths from 17.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 2-2 version electronics housings are also available in a super-flat design. This version is available in design widths of 17.5 mm, 22.5 mm, and 45 mm. The height of the housing is 70.4 mm.



ME MAX 3-3 version electronics housings provide 3 connection levels on each side of the housing. This version is available in design widths from 12.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 3-3 version electronics housings are also available in a flat design. This version is available in design widths of 22.5 mm and 45 mm. The height of the housing is 92 mm.



ME MAX 6,2 version electronics housings provide 4 connection levels on each side of the housing. The connection technology, which is available in screw or spring-cage format, is firmly integrated in the housing. The height of the housing is 102.5 mm.

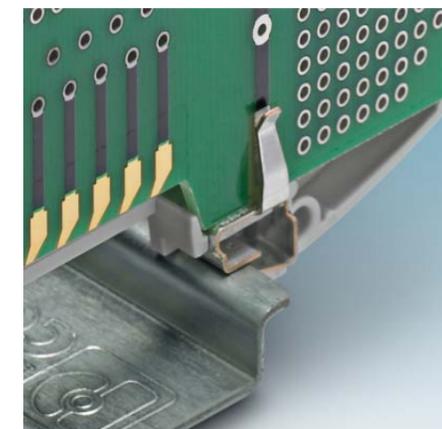


Mounting principle

Electronic components and PCB connection technology can be assembled and soldered in a single step. Once the assembled PCB has been inserted into the narrow housing half-shell, the second housing half-shell is simply snapped on.



Next, the fitted cover is inserted and the transparent cover is mounted. Finally, the metal foot catch is added.



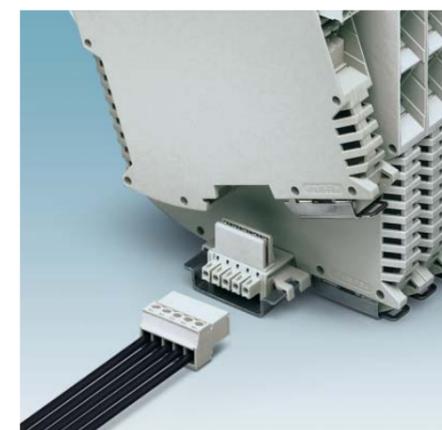
Functional earth ground contact

A functional earth ground contact is available to improve electromagnetic compatibility. It connects the inserted PCB directly to the grounded DIN rail.



Function-oriented design

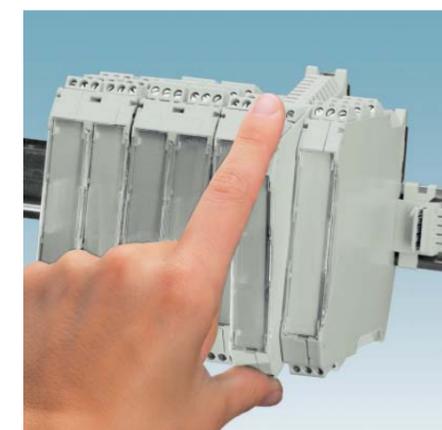
The housing has a large front surface for high-position connectors or operating and setting elements. The fitted cover can be easily modified, labeled, and even removed using a tool if necessary. The hinged transparent cover adds the final touch. The printing is thereby shielded against harmful environmental influences; the setting elements are protected effectively.



DIN rail connectors

The ME... TBUS connector snaps onto all standard NS 35/7.5 or NS 35/15 DIN rails taking up the minimum of space and providing a convenient means of wiring signal and supply voltages.

The bus connection is "self-constructing", adopting the same pitch as the devices. Snap on the connector, swivel the modules, and you're done! Complex pre-configuration or reworking of the bus connection on site are a thing of the past.



Removing individual modules from the topology

The design allows individual devices to be swung out of the module group. The contact chain is not interrupted. Gold-plated contacts ensure the required level of transmission reliability. The familiar MINI COMBICON plug-in connectors from Phoenix Contact are suitable for the signal supply.

Modular component housing for industrial electronics

Modular component housing for industrial electronics

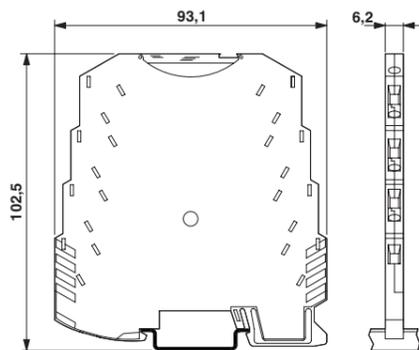
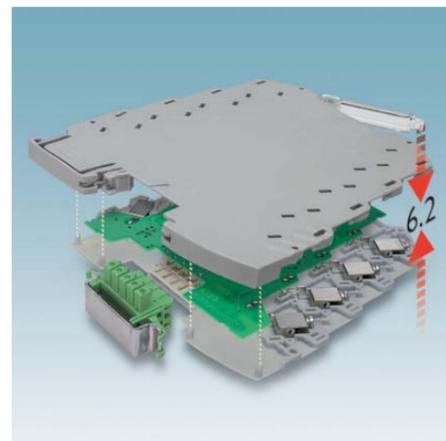
ME MAX housing	Type	Page	Width [mm]	PCB terminal block			
				3.5 mm pitch MKDSO 1,5/...3,5 Page 89	Screw 5 mm pitch MKDSO 2,5/... Page 113	7.5 mm pitch MKDSO 2,5 HV...7,5 Page 125	Push-in 5 mm pitch FKDSO 2,5/... Page 153
	ME MAX 12,5...	684	12.5	• 3-pos.	• 2-pos.		• 2-pos.
	ME MAX 17,5...	685	17.5	• 4-pos.	• 3-pos.	• 2-pos.	• 3-pos.
	ME MAX 22,5...	686	22.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.
	ME MAX 35...	687	35	• 4-pos.	• 3-pos.	• 2-pos.	• 3-pos.
	ME MAX 45...	688	45	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.
	ME MAX 67,5...	689	67.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.
	ME MAX 90...	690	90	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.
	ME MAX 22,5 F...	686	22.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.
	ME MAX 45 F...	688	45	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.
	ME MAX 17,5 SF...	685	17.5	• 4-pos.	• 3-pos.	• 2-pos.	• 3-pos.
	ME MAX 22,5 SF...	686	22.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.
	ME MAX 45 SF...	688	45	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.

COMBICON connection					Number of terminal points
3.5 mm pitch MCO 1,5/...3,5 Page 232	5 mm pitch MSTBO 2,5/... Page 322	Header Pitch: 5, touch proof MSTBO 2,5/...P Page 325	Pitch: 5, THR MSTBO 2,5/...THR UTMG Page 309	7.25 mm pitch GMSTBO 2,5 HV/...THR UTMG Page 510	
					
• 3-pos.	• 2-pos.	• 2-pos.	• 2-pos.		3 per housing side
• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	Min. 0 to max. 3 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 3 per housing side
• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	Min. 0 to max. 6 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 6 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 9 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 12 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	3 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	6 per housing side
• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	2 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	2 per housing side
• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	4 per housing side

Specified number of positions = number of positions per terminal point

ME MAX housing	Type	Page	Width [mm]	Filler plug		
				ME MAX B-12,5 Page 684	ME MAX B-17,5 Page 685	ME MAX B-22,5 Page 686
	ME MAX 12,5...	684	12.5	•		
	ME MAX 17,5...	685	17.5		•	
	ME MAX 22,5...	686	22.5			•
	ME MAX 35...	687	35		•	
	ME MAX 45...	688	45			•
	ME MAX 67,5...	689	67.5			•
	ME MAX 90...	690	90			•
	ME MAX 22,5 F...	686	22.5			•
	ME MAX 45 F...	688	45			•
	ME MAX 17,5 SF...	685	17.5		•	
	ME MAX 22,5 SF...	686	22.5			•
	ME MAX 45 SF...	688	45			•

ME MAX modular component housing



8-pos. with screw connection, width: 6.2 mm



8-pos. with spring-cage connection, width: 6.2 mm



8-pos. with screw connection, for DIN rail bus connectors, width: 6.2 mm



8-pos. with spring-cage connection, for DIN rail bus connectors, width: 6.2 mm

The electronic housings ME MAX 6,2 make it possible to realize individual and space-saving electronics components with a width of 6.2 mm.

The connection method is firmly integrated in the housing, making it ready to take the components. Eight connections with a cross section of up to 2.5 mm² are available over four levels. These are available either as SCrew connection (SC) or in Spring-cage technology (SP).

Simple through-contacting

The DIN rail bus connectors are simply pushed into the DIN rail and snapped together. All signals contact automatically when the housing is snapped on. When the device is removed from the whole, the contact chain is not interrupted.

Further advantages:

- The same PCB geometry for spring-cage and screw versions
- Housing can be laser printed with conventional laser systems
- Simple device tests thanks to integrated test openings
- Transparent front cover can be swiveled, reversed, and labeled
- IP20 shock protection

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
The rated connection data refers to untreated conductors without ferrules.
Torque [Nm] 0,5-0,6.
¹⁾ DIN rail connectors see page 676.

Type of housing	Electronic housings				
Electronic housings	Stripping length				
Connection data	Connection data				

Description	Electronic housings				
For DIN rail bus connector	For DIN rail bus connector				

DIN rail bus connector, 2 x 5-pos. ¹⁾	Zack flat marker strip, 10-section, unprinted: for individual labeling with TML (101X4,2)R TR, X-PEN or CMS-P1- PLOTTER, sufficient for labeling 100 terminal blocks per pack				
	Marker pen, refillable, for manual labeling, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, delivered without ink				
Screwdriver	SZF 1-0,6X3,5				

Technical data					
PBT / V0	12 mm				
	solid	stranded	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	26 - 12	8	250

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME MAX 6,2 SC 4-4 KMGY	2713094	10	

Accessories			
ZBF 6:UNBEDRUCKT	0808710	10	
X-PEN 0,35	0811228	1	
SZF 1-0,6X3,5	1204517	10	

Technical data					
PBT / V0	8 mm				
	solid	stranded	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	24 - 12	8	250

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME MAX 6,2 SP 4-4 KMGY	2713104	10	

Accessories			
ZBF 6:UNBEDRUCKT	0808710	10	
X-PEN 0,35	0811228	1	
SZF 1-0,6X3,5	1204517	10	

Technical data					
PBT / V0	12 mm				
	solid	stranded	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	26 - 12	8	250

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME MAX 6,2 SC-TBUS 4-4 KMGY	2869634	10	

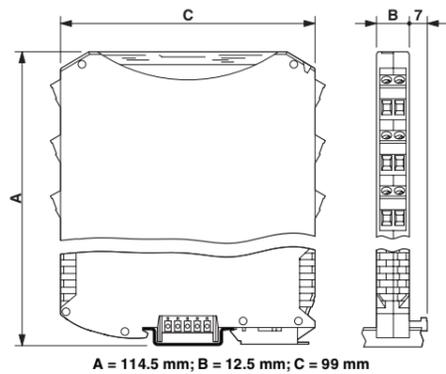
Accessories			
ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	2969401	10	
ZBF 6:UNBEDRUCKT	0808710	10	
X-PEN 0,35	0811228	1	
SZF 1-0,6X3,5	1204517	10	

Technical data					
PBT / V0	8 mm				
	solid	stranded	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	24 - 12	8	250

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ME MAX 6,2 SP-TBUS 4-4 KMGY	2869647	10	

Accessories			
ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	2969401	10	
ZBF 6:UNBEDRUCKT	0808710	10	
X-PEN 0,35	0811228	1	
SZF 1-0,6X3,5	1204517	10	

ME MAX modular component housing



Width: 12.5 mm



Technical data

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	ME MAX 12,5 3-3 TBUS KMGY				
	4.4 W	-	-	-	-
	8.4 W	-	-	-	-
Type of housing	Polyamide / V0				
Electronic housings	solid				
Connection data	stranded		AWG	I [A]	U [V]
	[mm ²]				
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ³⁾	250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁴⁾	250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24 ⁵⁾	250
ME 6,2 TBUS-2...	-	-	-	8	125

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring			
6x2 positions, without vents, with TBUS option	ME MAX 12,5 G 3-3 TBUS KMGY	2279017	10
6x2 positions, with vents, with TBUS option	ME MAX 12,5 3-3 TBUS KMGY	2279020	10

Accessories

Pin strip for soldering into the PCB, for contacting in DIN rail bus connectors			
Box packaging	ME TBUS PST 1,5/ 5-3,81	2279033	50
Tape-on-reel packing	ME TBUS PST 1,5/ 5-3,81 THRR32	2914369	440
DIN rail bus connector , 2 x 5-pos. ⁶⁾	ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	2969401	10
Filler plugs , for unoccupied terminal points	ME MAX B-12,5 KMGY	2914660	10

The features at a glance:

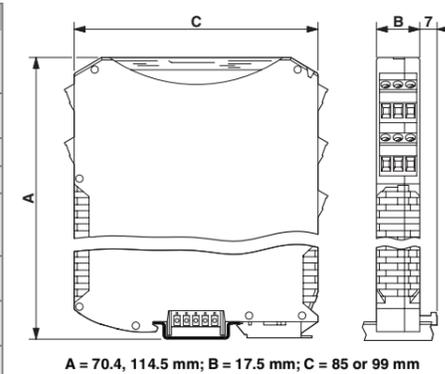
- Large PCB surface despite compact housing dimensions
- DIN rail bus connector as an option
- Simple exchange of modules without having to break the contact chain
- Permanent or pluggable connection methods can be mixed on up to three connection levels, with different pitches
- Pluggable connection with screw spring-cage or fast connection methods
- Large front surface for connectors or operating and setting elements with a high number of positions
- The fitted cover is easy to adapt and print
- The transparent front cover can be swung out
- Functional earth ground contact optional
- labels for additional marking optional.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
For PCB connection technology, see page 680.
¹⁾ For information on power dissipation, see page 770.
²⁾ Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
³⁾ Please observe the derating curves. Derating curves of further combination options on request.
⁴⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
⁵⁾ DIN rail connectors see page 676.

ME MAX modular component housing

Notes:
Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.
The connection cross section refers to untreated conductors without ferrules.
For PCB connection technology, see page 680.
¹⁾ For information on power dissipation, see page 770.
²⁾ As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
³⁾ Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
⁴⁾ Please observe the derating curves. Derating curves of further combination options on request.
⁵⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
⁶⁾ DIN rail connectors see page 676.



Width: 17.5 mm



Technical data

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	ME MAX 17,5 U-U1 KMGY	ME MAX 17,5 G U-U1 KMGY		
	5.2 W	4.9 W	-	-
	10.8 W	8.9 W	-	-
Type of housing	Polyamide / V0			
Electronic housings	solid			
Connection data	stranded		AWG	I [A]
	[mm ²]			U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ⁴⁾
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵⁾
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24 ⁶⁾
ME...TBUS 1,5/...	-	-	-	8

Ordering data

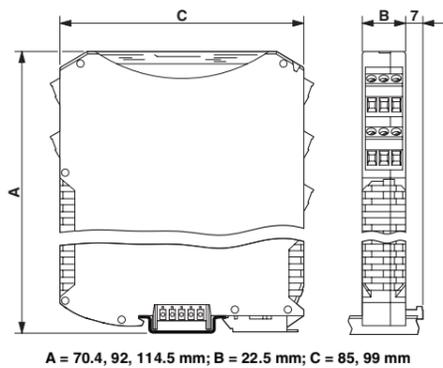
Description	Type	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring			
(1 x 3 positions), with vents	ME MAX 17,5 U-U1 KMGY	2713641	10
(1 x 3 positions), without vents	ME MAX 17,5 G U-U1 KMGY	2713515	10
(4 x 3 positions), with vents	ME MAX 17,5 2-2 KMGY	2713599	10
(4 x 3 positions), without vents	ME MAX 17,5 G 2-2 KMGY	2713609	10
(6 x 3 positions), with vents	ME MAX 17,5 3-3 KMGY	2713612	10
(6 x 3 positions), without vents	ME MAX 17,5 G 3-3 KMGY	2713531	10
Electronic housing , superflat design, height x depth (70.4 x 85 mm)			
(4 x 3 positions), without vents	ME MAX 17,5 SF G 2-2 KMGY	2901369	10

Accessories

PCB connection technology set for 6 x 3 positions (18-pos.) with a 5 mm pitch ²⁾			
PCB terminal blocks	MKDSO 2,5/ 3-6 SET KMGY	2713735	1
COMBICON headers and screw plugs	MSTBO 2,5/ 3-6 ST SET KMGY	2713748	1
PCB , for custom fitting with COMBICON connection method, for high design (114.5 mm)	ME MAX LP SAMPLE MSTBO 2-2	2713777	5
DIN rail bus connector , 5-pos. ⁶⁾	ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50
Filler plugs , for unoccupied terminal points	ME MAX B-17,5 KMGY	2706959	50
Filler plugs for TBUS recess	ME MAX TBUS BS KMGY	2199650	50
Functional earth ground contact , for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings	ME BUS FE CONTACT	2278076	50
Label sheet for laser printer , for electronic housing ME MAX			
1 sheet = 242 labels	BMKLT 14X12 WH	0813789	2

ME MAX modular component housing

- Notes:**
- Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.
 - The connection cross section refers to untreated conductors without ferrules.
 - For PCB connection technology, see page 680.
 - 1) For information on power dissipation, see page 770.
 - 2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
 - 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 - 4) Please observe the derating curves. Derating curves of further combination options on request.
 - 5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 - 6) DIN rail connectors see page 676.



Width: 22.5 mm



Technical data

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	ME MAX 22.5 U-U1 KMGY	ME MAX 22.5 G U-U1 KMGY	ME MAX 22.5 F G 3-3 KMGY	
Mounted in rows without spacing	6.1 W	5.7 W	5.5 W	-
Mounted in rows with min. 20 mm spacing	12.1 W	10.1 W	9.6 W	-
Type of housing	Polyamide / V0			
Electronic housings	Polyamide / V0			
Connection data	solid	stranded	AWG	I [A] U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ⁴⁾ 250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵⁾ 250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24 ³⁾ 250
ME...TBUS 1,5/...	-	-	-	8 125

Ordering data

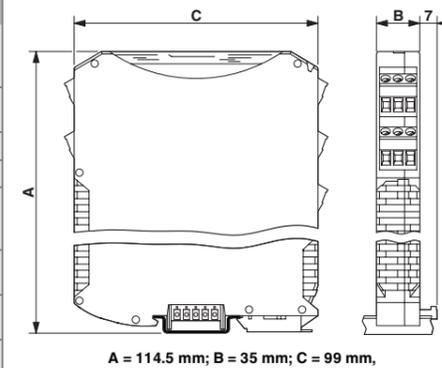
Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring				
(1 x 4 positions), with vents		ME MAX 22.5 U-U1 KMGY	2713476	10
(1 x 4 positions), without vents		ME MAX 22.5 G U-U1 KMGY	2713489	10
(4 x 4 positions), with vents		ME MAX 22.5 2-2 KMGY	2713625	10
(4 x 4 positions), without vents		ME MAX 22.5 G 2-2 KMGY	2713638	10
(6 x 4 positions), with vents		ME MAX 22.5 3-3 KMGY	2713939	10
(6 x 4 positions), without vents		ME MAX 22.5 G 3-3 KMGY	2713942	10
Electronic housing , comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring				
Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents		ME MAX 22,5 F G 3-3 KMGY	2869388	10
Extremely low-profile design, Height x depth (70.4 x 85 mm), (4 x 4 positions), without vents		ME MAX 22.5 SF G 2-2 KMGY	2869362	10

Accessories

PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch ²⁾				
PCB terminal blocks		MKDSO 2,5/4-6 SET KMGY	2713751	1
COMBICON headers and screw plugs		MSTBO 2,5/4-6 ST SET KMGY	2713764	1
PCB , for custom fitting with COMBICON connection method, for high design (114.5 mm)		ME MAX LP SAMPLE MSTBO 2-2	2713777	5
DIN rail bus connector , 5-pos. ⁶⁾		ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50
Filler plugs , for unoccupied terminal points		ME MAX B-22,5 KMGY	2707929	10
Filler plugs for TBUS recess		ME MAX TBUS BS KMGY	2199650	50
Functional earth ground contact , for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings		ME BUS FE CONTACT	2278076	50
Label sheet for laser printer , for electronic housing ME MAX				
1 sheet = 176 labels	12	BMKLT 19X12 WH	0813792	4

ME MAX modular component housing

- Notes:**
- Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.
 - The connection cross section refers to untreated conductors without ferrules.
 - For PCB connection technology, see page 680.
 - 1) For information on power dissipation, see page 770.
 - 2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
 - 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 - 4) Please observe the derating curves. Derating curves of further combination options on request.
 - 5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 - 6) DIN rail connectors see page 676.



Width: 35 mm



Technical data

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	ME MAX 35 U-U1 KMGY	ME MAX 35 G U-U1 KMGY		
Mounted in rows without spacing	7.9 W	7.5 W	-	-
Mounted in rows with min. 20 mm spacing	16.3 W	13.8 W	-	-
Type of housing	Polyamide / V0			
Electronic housings	Polyamide / V0			
Connection data	solid	stranded	AWG	I [A] U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ⁴⁾ 250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵⁾ 250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24 ³⁾ 250
ME...TBUS 1,5/...	-	-	-	8 125

Ordering data

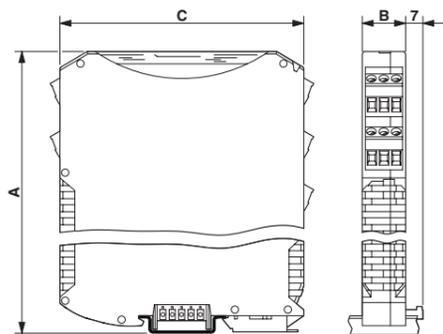
Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing shells, 2 front plates, 2 transparent covers, intermediate element, metal foot catch and spring				
(2 x 3 positions), with vents		ME MAX 35 U-U1 KMGY	2713667	10
(2 x 3 positions), without vents		ME MAX 35 G U-U1 KMGY	2713528	10
(8 x 3 positions), with vents		ME MAX 35 2-2 KMGY	2713670	10
(8 x 3 positions), without vents		ME MAX 35 G 2-2 KMGY	2713683	10
(12 x 3 positions), with vents		ME MAX 35 3-3 KMGY	2713696	10
(12 x 3 positions), without vents		ME MAX 35 G 3-3 KMGY	2713544	10
Electronic housing , as above, but with a wide transparent cover and a wide front plate				
(8 x 3 positions), with vents		ME MAX 35 LC 2-2 KMGY	2200597	10
(12 x 3 positions), with vents		ME MAX 35 LC 3-3 KMGY	2200596	10

Accessories

PCB connection technology set for 6 x 3 positions (18-pos.) with a 5 mm pitch ²⁾				
PCB terminal blocks		MKDSO 2,5/ 3-6 SET KMGY	2713735	1
COMBICON headers and screw plugs		MSTBO 2,5/ 3-6 ST SET KMGY	2713748	1
PCB , for custom fitting with COMBICON connection method, for high design (114.5 mm)		ME MAX LP SAMPLE MSTBO 2-2	2713777	5
DIN rail bus connector , 5-pos. ⁶⁾		ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50
Filler plugs , for unoccupied terminal points		ME MAX B-17,5 KMGY	2706959	50
Filler plugs for TBUS recess		ME MAX TBUS BS KMGY	2199650	50
Functional earth ground contact , for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings		ME BUS FE CONTACT	2278076	50
Label sheet for laser printer , for electronic housing ME MAX				
1 sheet = 110 labels	12	BMKLT 31,5X12 WH	0813802	4

ME MAX modular component housing

- Notes:**
- Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.
 - The connection cross section refers to untreated conductors without ferrules.
 - For PCB connection technology, see page 680.
 - 1) For information on power dissipation, see page 770.
 - 2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
 - 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 - 4) Please observe the derating curves. Derating curves of further combination options on request.
 - 5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 - 6) DIN rail connectors see page 676.



A = 70.4, 92, 114.5 mm; B = 45 mm; C = 85, 99 mm



Width: 45 mm



Technical data

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	ME MAX 45 U-U1 KMGY	ME MAX 45 G U-U1 KMGY		
Mounted in rows without spacing	8.2 W	7.6 W	-	-
Mounted in rows with min. 20 mm spacing	16.5 W	14.1 W	-	-
Type of housing	Polyamide / V0			
Electronic housings	Polyamide / V0			
Connection data	solid	stranded	AWG	I [A] U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ⁴⁾ 250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵⁾ 250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24 ³⁾ 250
ME...TBUS 1,5/...	-	-	-	8 125

Ordering data

Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing shells, 2 front plates, 2 transparent covers, intermediate element, metal foot catch and spring				
(2 x 4 positions), with vents		ME MAX 45 U-U1 KMGY	2713492	10
(2 x 4 positions), without vents		ME MAX 45 G U-U1 KMGY	2713502	10
(8 x 4 positions), with vents		ME MAX 45 2-2 KMGY	2713706	10
(8 x 4 positions), without vents		ME MAX 45 G 2-2 KMGY	2713719	10
(12 x 4 positions), with vents		ME MAX 45 3-3 KMGY	2713913	10
(12 x 4 positions), without vents		ME MAX 45 G 3-3 KMGY	2713926	10
Electronic housing , comprising left and right housing shells, 2 front plates, 2 transparent covers, intermediate element, metal foot catch and spring				
Low profile design, height x depth (92 x 85 mm), (12 x 4 positions), without vents		ME MAX 45 F G 3-3 KMGY	2869391	10
Superflat design, height x depth (70.4 x 85 mm), (8 x 4 positions), without vents		ME MAX 45 SF G 2-2 KMGY	2869375	10
Electronic housing , as above, but with a wide transparent cover and a wide front plate				
(8 x 4 positions), with vents		ME MAX 45 LC 2-2 KMGY	2200071	10
(12 x 4 positions), with vents		ME MAX 45 LC 3-3 KMGY	2890179	10

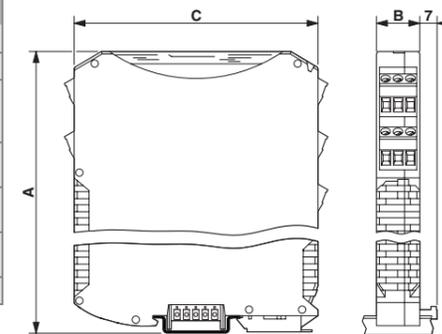
Accessories

Description	Order No.	Pcs. / Pkt.
PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch ²⁾		
PCB terminal blocks	MKDSO 2,5/4-6 SET KMGY	2713751 1
COMBICON headers and screw plugs	MSTBO 2,5/4-6 ST SET KMGY	2713764 1
PCB , for custom fitting with COMBICON connection method, for high design (114.5 mm)	ME MAX LP SAMPLE MSTBO 2-2	2713777 5
DIN rail bus connector , 5-pos. ⁶⁾	ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722 50
Filler plugs , for unoccupied terminal points	ME MAX B-22,5 KMGY	2707929 10
Filler plugs for TBUS recess	ME MAX TBUS BS KMGY	2199650 50
Functional earth ground contact , for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings	ME BUS FE CONTACT	2278076 50
Label sheet for laser printer , for electronic housing ME MAX	BMKLT 41,5X12 WH	0813815 5

1 sheet = 88 labels 12

ME MAX modular component housing

- Notes:**
- For PCB connection technology, see page 680.
 - 1) For information on power dissipation, see page 770.
 - 2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
 - 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 - 4) Please observe the derating curves. Derating curves of further combination options on request.
 - 5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 - 6) DIN rail connectors see page 676.



A = 114.5 mm; B = 67.5 mm; C = 99 mm



Width: 67.5 mm

Technical data

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	ME MAX 67,5 U-U1 KMGY	ME MAX 67,5 G U-U1 KMGY		
Mounted in rows without spacing	9.1 W	8.5 W	-	-
Mounted in rows with min. 20 mm spacing	17.5 W	15 W	-	-
Type of housing	Polyamide / V0			
Electronic housings	Polyamide / V0			
Connection data	solid	stranded	AWG	I [A] U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ⁴⁾ 250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵⁾ 250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24 ³⁾ 250
ME...TBUS 1,5/...	-	-	-	8 125

Ordering data

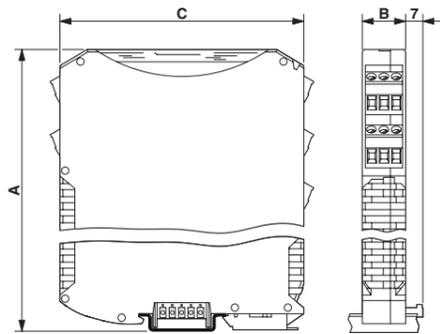
Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing shells, one-piece insertable front plate, one-piece transparent cover, intermediate elements, metal foot catch with spring				
(3 x 4) positions with a 5 mm pitch, with vents		ME MAX 67,5 U-U1 KMGY	2200547	10
(3 x 4) positions with a 5 mm pitch, without vents		ME MAX 67,5 G U-U1 KMGY	2200528	10
(12 x 4) positions with a 5 mm pitch, with vents		ME MAX 67,5 2-2 KMGY	2200524	10
(12 x 4) positions with a 5 mm pitch, without vents		ME MAX 67,5 G 2-2 KMGY	2200525	10
(18 x 4) positions with a 5 mm pitch, with vents		ME MAX 67,5 3-3 KMGY	2200526	10
(18 x 4) positions with a 5 mm pitch, without vents		ME MAX 67,5 G 3-3 KMGY	2200527	10

Accessories

Description	Order No.	Pcs. / Pkt.
PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch ²⁾		
PCB terminal blocks	MKDSO 2,5/4-6 SET KMGY	2713751 1
COMBICON headers and screw plugs	MSTBO 2,5/4-6 ST SET KMGY	2713764 1
PCB , for custom fitting with COMBICON connection method, for high design (114.5 mm)	ME MAX LP SAMPLE MSTBO 2-2	2713777 5
DIN rail bus connector , 5-pos. ⁶⁾	ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722 50
Filler plugs , for unoccupied terminal points	ME MAX B-22,5 KMGY	2707929 10
Filler plugs for TBUS recess	ME MAX TBUS BS KMGY	2199650 50
Functional earth ground contact , for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings	ME BUS FE CONTACT	2278076 50
Label sheet for laser printer , for electronic housing ME MAX	BMKLT 41,5X12 WH	0813815 5

ME MAX modular component housing

- Notes:**
 For PCB connection technology, see page 680.
 1) For information on power dissipation, see page 770.
 2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
 4) Please observe the derating curves. Derating curves of further combination options on request.
 5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
 6) DIN rail connectors see page 676.



A = 114.5 mm; B = 90 mm; C = 99 mm



Width = 90 mm

Power dissipation P_v at 20°C in horizontal mounting position¹⁾

Mounted in rows without spacing
 Mounted in rows with min. 20 mm spacing

Type of housing

Electronic housings

Connection data

MSTBT 2,5/...
 MSTBT 2,5 HC/...
 MKDSO 2,5/...
 ME...TBUS 1,5/...

Technical data				
	ME MAX 90 U-U1 KMGY	ME MAX 90 G U-U1 KMGY		
Mounted in rows without spacing	10.4 W	9.7 W	-	-
Mounted in rows with min. 20 mm spacing	18.9 W	16.4 W	-	-
Polyamide / V0				
	solid	stranded	AWG	I [A] U [V]
		[mm ²]		
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ⁴⁾ 250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵⁾ 250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24 ⁶⁾ 250
ME...TBUS 1,5/...	-	-	-	8 125

Ordering data

Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing shells, one-piece insertable front plate, one-piece transparent cover, intermediate elements, metal foot catch with spring				
(4 x 4) positions with 5 mm pitch, with vents		ME MAX 90 U-U1 KMGY	2200546	10
(4 x 4) positions with 5 mm pitch, without vents		ME MAX 90 G U-U1 KMGY	2200533	10
(16 x 4) positions with 5 mm pitch, with vents		ME MAX 90 2-2 KMGY	2200529	10
(16 x 4) positions with 5 mm pitch, without vents		ME MAX 90 G 2-2 KMGY	2200530	10
(24 x 4) positions with 5 mm pitch, with vents		ME MAX 90 3-3 KMGY	2200531	10
(24 x 4) positions with 5 mm pitch, without vents		ME MAX 90 G 3-3 KMGY	2200532	10

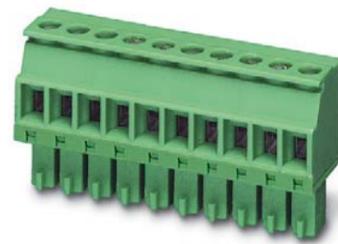
Accessories

PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch ²⁾				
PCB terminal blocks		MKDSO 2,5/4-6 SET KMGY	2713751	1
COMBICON headers and screw plugs		MSTBO 2,5/4-6 ST SET KMGY	2713764	1
PCB , for custom fitting with COMBICON connection method, for high design (114.5 mm)		ME MAX LP SAMPLE MSTBO 2-2	2713777	5
DIN rail bus connector , 5-pos. ³⁾		ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50
Filler plugs , for unoccupied terminal points		ME MAX B-22,5 KMGY	2707929	10
Filler plugs for TBUS recess		ME MAX TBUS BS KMGY	2199650	50
Functional earth ground contact , for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings		ME BUS FE CONTACT	2278076	50
Label sheet for laser printer , for electronic housing ME MAX				
1 sheet = 88 labels	12	BMKLT 41,5X12 WH	0813815	5

ME MAX ordering data for delivery quantities < 10 pcs.

Order No.	Type	Pcs. / Pkt.	Description
2201314	ME MAX 17,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 3-pos. (1 x 3-pos.), width: 17.5 mm, color: light gray
2201315	ME MAX 17,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 12-pos. (4 x 3-pos.), width: 17.5 mm, color: light gray
2201316	ME MAX 17,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 18-pos. (6 x 3-pos.), width: 17.5 mm, color: light gray
2201317	ME MAX 17,5 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, without vents, 18-pos. (6 x 3-pos.), design: ultra-flat, height x depth (70.4 x 85 mm), width: 17.5 mm, color: light gray
2201318	ME MAX 22,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 4-pos. (1 x 4-pos.), width: 22.5 mm, color: light gray
2201319	ME MAX 22,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 16-pos. (4 x 4-pos.), width: 22.5 mm, color: light gray
2201320	ME MAX 22,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 24-pos. (6 x 4-pos.), width: 22.5 mm, color: light gray
2201321	ME MAX 22,5 F G 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, closed housing, 24-pos. (6 x 4-pos.), design: flat, width: 22.5 mm, color: light gray
2201322	ME MAX 22,5 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, closed housing, 16-pos. (4 x 4-pos.), design: ultra-flat, width: 22.5 mm, color: light gray
2201323	ME MAX 35 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, open housing, 6-pos. (2 x 3-pos.), width: 35 mm, color: light gray
2201324	ME MAX 35 LC 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 24-pos. (8 x 3-pos.), width: 35 mm, color: light gray
2201325	ME MAX 35 LC 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 36-pos. (12 x 3-pos.), width: 35 mm, color: light gray
2201326	ME MAX 45 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, open housing, 8-pos. (2 x 4-pos.), width: 45 mm, color: light gray
2201328	ME MAX 45 LC 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 36-pos. (12 x 3-pos.), width: 45 mm, color: light gray
2201329	ME MAX 45 LC 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 48-pos. (12 x 4-pos.), width: 45 mm, color: light gray
2201330	ME MAX 45 F G 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, closed housing, 48-pos. (12 x 4-pos.), design: flat, width: 45 mm, color: light gray
2201331	ME MAX 45 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, closed housing, 32-pos. (8 x 4-pos.), design: ultra-flat, width: 45 mm, color: light gray
2201333	ME MAX 67,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 12-pos. (3 x 4-pos.), width: 67.5 mm, color: light gray
2201335	ME MAX 67,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 48-pos. (12 x 4-pos.), width: 67.5 mm, color: light gray
2201336	ME MAX 67,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 72-pos. (18 x 4-pos.), width: 67.5 mm, color: light gray
2201337	ME MAX 90 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 16-pos. (4 x 4-pos.), width: 90 mm, color: light gray
2201338	ME MAX 90 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 64-pos. (16 x 4-pos.), width: 90 mm, color: light gray
2201339	ME MAX 90 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 96-pos. (24 x 4-pos.), width: 90 mm, color: light gray

Overview of connector plugs for integrated bus connectors and DIN rail connectors



Standard color green



Standard color light gray

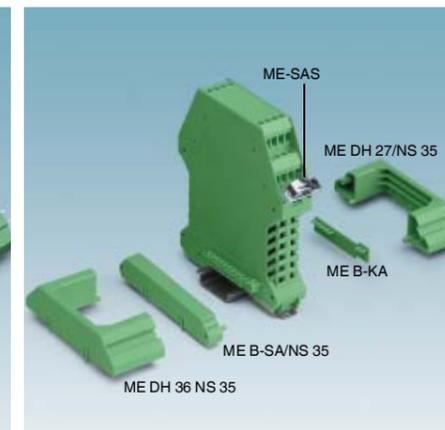
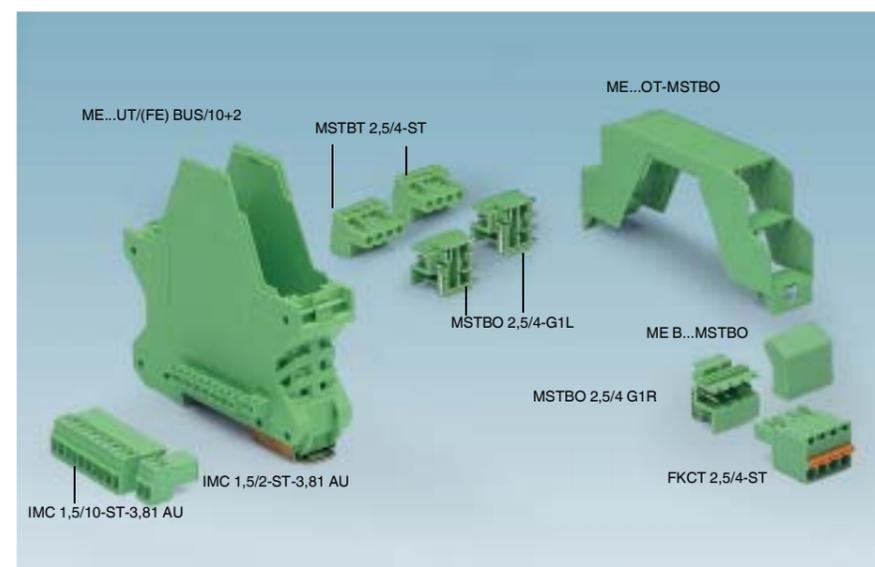


Connection data	Technical data				
	solid	stranded	AWG	I [A]	U [V]
MCVR 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
MC 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
IMC 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160

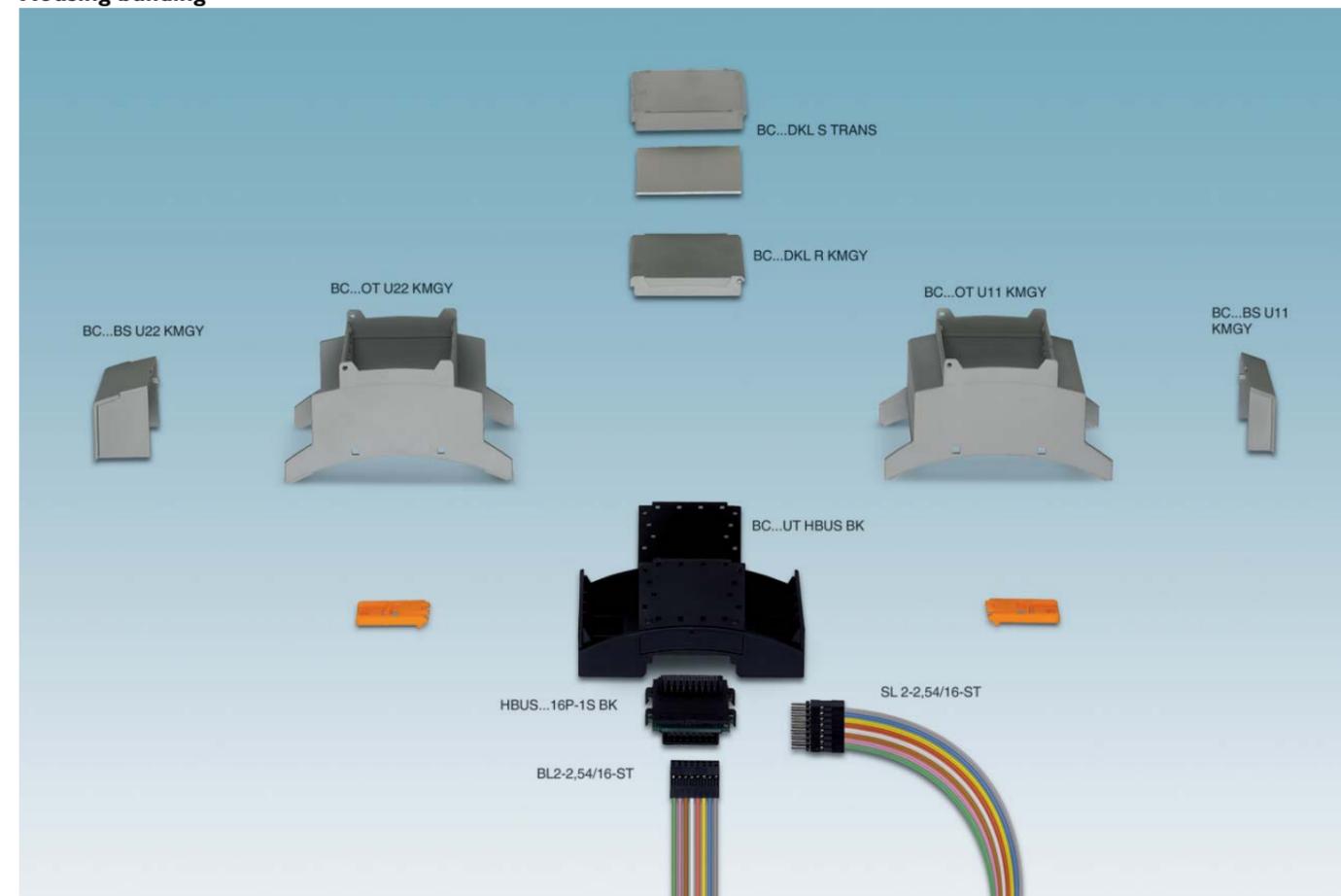
Connection data	Technical data				
	solid	stranded	AWG	I [A]	U [V]
MCVR 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
MC 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
IMC 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Plugs for bus connectors, plug-in direction parallel to the conductor axis, gold-plated contacts	3.81	2		MCVR 1,5/ 2-ST-3,81 AU	1940680	50
	3.81	5		MCVR 1,5/ 5-ST-3,81 AU	1893203	50
	3.81	10		MCVR 1,5/10-ST-3,81 AU	1893216	50
Plugs for bus connectors, plug-in direction parallel to the PCB axis, gold-plated contacts	3.81	2		MC 1,5/ 2-ST-3,81 AU	1851999	50
	3.81	5		MC 1,5/ 5-ST-3,81 AU	1860883	50
	3.81	10		MC 1,5/10-ST-3,81 AU	1879599	50
Inverted plugs for bus connectors, plug-in direction parallel to the conductor axis, gold-plated contacts	3.81	2		IMC 1,5/ 2-ST-3,81 AU	1943263	50
	3.81	5		IMC 1,5/ 5-ST-3,81 AU	1943276	50
	3.81	10		IMC 1,5/10-ST-3,81 AU	1943289	50
Terminal cover, 1 strip covers up to 12 terminal points				ME B-KA	2854173	50
				ME B-SA/NS 35	2935959	10
Spacers, for protection of the input or output contacts for DIN rail NS 35				ME DH27 NS 35	2908760	50
				ME DH36 NS 35	2909895	50
Power clip for TBUS connector, for strain relief in connection with MC(VR) 1,5/5-... or IMC 1,5/5-ST-3,81 AU plugs				ME DH 27 NS 35 KMGY	2706289	10
				ME DH 36 NS 35 KMGY	2706292	10
				E/ME TBUS NS35 GY	2713780	50

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Plugs for bus connectors, plug-in direction parallel to the conductor axis, gold-plated contacts	3.81	2		MCVR 1,5/ 5-ST-3,81 GY7035 AU	1719684	50
	3.81	10		MCVR 1,5/10-ST-3,81 KMGY AU	1936186	50
Plugs for bus connectors, plug-in direction parallel to the PCB axis, gold-plated contacts	3.81	2		MC 1,5/ 5-ST-3,81 GY7035 AU	1719697	50
	3.81	5		IMC 1,5/ 5-ST-3,81 GY7035 AU	1719707	50
Terminal cover, 1 strip covers up to 12 terminal points				ME B-KA KMGY	2706302	50
				ME B-SA/NS 35 KMGY	2706700	10
Spacers, for protection of the input or output contacts for DIN rail NS 35				ME DH 27 NS 35 KMGY	2706289	10
				ME DH 36 NS 35 KMGY	2706292	10
Power clip for TBUS connector, for strain relief in connection with MC(VR) 1,5/5-... or IMC 1,5/5-ST-3,81 AU plugs				E/ME TBUS NS35 GY	2713780	50



Housing building



The BC electronic housings have been designed for future-oriented applications in building automation. In addition to the modern design, this housing range offers numerous other features.



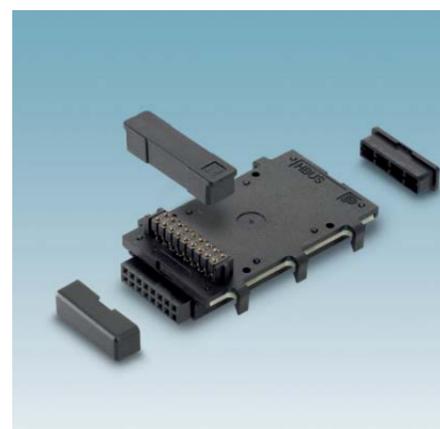
The housing complies with DIN 43880, thus guaranteeing problem-free operation in all common distributor boards.



Automatic contacting between devices

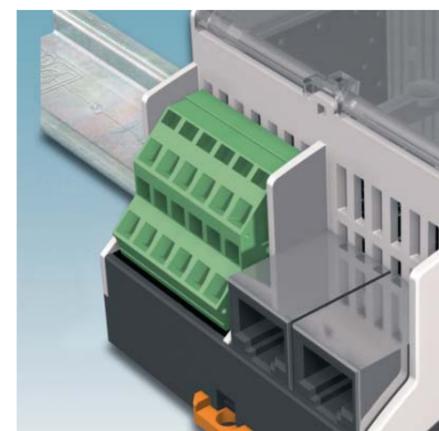
The 16-pos. DIN rail connector supports both parallel and serial data transmission plus power supply.

Gold-plated contacts ensure a high level of transmission reliability. They are mounted by simply snapping them onto the DIN rail.



Protection for DIN rail connectors

Cover caps are available to protect unused HBUS DIN rail connectors. They are mounted by simply snapping them on and can be removed by hand or using a screwdriver.



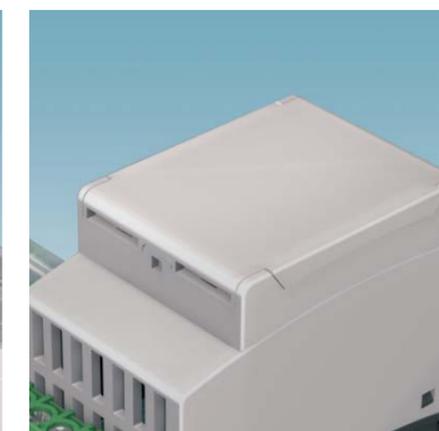
Free selection of corresponding PCB connection technology

BC...U11 housing types with a small clamping space are ideal for the connection technology used in COMBICON compact building automation. If using conventional connection technology or data plug-in connectors, BC...U22 housing versions with a large clamping space are available.

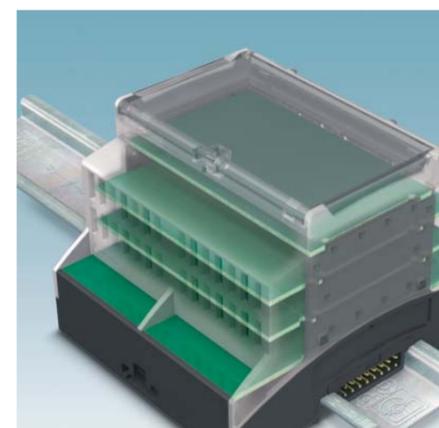


Various cover versions for optimum device design

A transparent cover including fitted cover and a light gray cover, which is the color of the housing, is available for all housing widths. The transparent cover can be swiveled open and is therefore suitable for devices in which indication or operating elements are used.

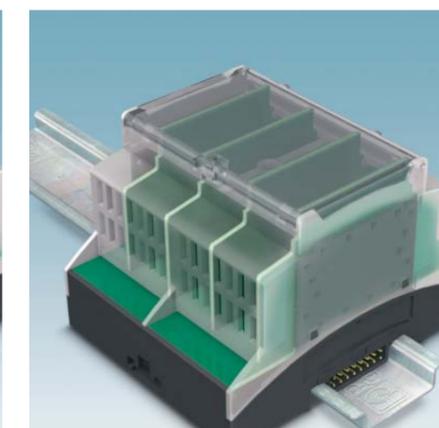
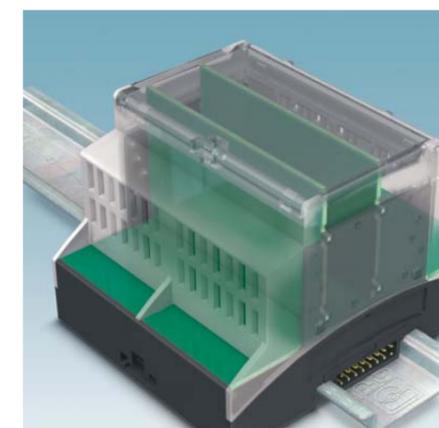


The fitted cover, which is inserted below the cover, can be labeled easily. The cover can be sealed, thus ensuring the device safety required. The opaque cover is the same color as the housing. It is latched onto the upper part of the housing and cannot be removed.



Flexible device concepts

Internal PCB guides in all three space directions enable the electronic components to be installed in a functional and convenient manner. The PCBs can be snapped on parallel to the DIN rail on different levels as well as orthogonally in different positions.

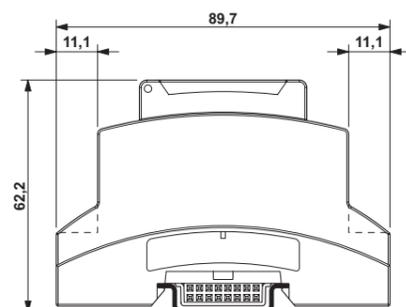


Matrix for selecting the connection technology

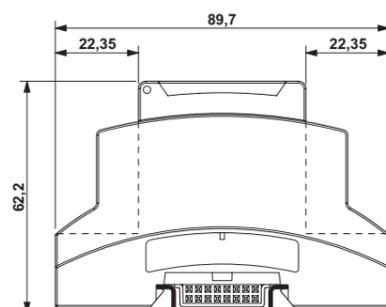
Module	BC 17,8 OTU	BC 35,6 OT U11	BC 35,6 OT U22	BC 53,6 OT U11	BC 53,6 OT U22	BC 71,6 OT U11		BC 71,6 OT U22	BC 107,6 OT U11	BC 107,6 OT U22	BC 161,6 OT U11	BC 161,6 OT U22
Terminal installation depth		11.1 mm	22.35 mm	11.1 mm	22.35 mm	11.1 mm		22.35 mm	11.1 mm	22.35 mm	11.1 mm	22.35 mm
MKDSO 1,5/4-L-3,5	•	-	-	-	-	-		-	-	-	-	-
MKDSO 1,5/4-R-3,5	•	-	-	-	-	-		-	-	-	-	-
MKDSO 2,5/3-L	•	-	-	-	-	-		-	-	-	-	-
MKDSO 2,5/3-R	•	-	-	-	-	-		-	-	-	-	-
MKDS 1,5/... HT	-	•	•	•	•	•		•	•	•	•	•
MKDS 3/... HT	-	•	•	•	•	•		•	•	•	•	•
MKDS 1,5/...	-	•	•	•	•	•		•	•	•	•	•
MKDSP 1,5/...	-	•	•	•	•	•		•	•	•	•	•
MKDSN 2,5/...	-	•	•	•	•	•		•	•	•	•	•
MKDS 3/...	-	•	•	•	•	•		•	•	•	•	•
MKDSP 3/...	-	•	•	•	•	•		•	•	•	•	•
MKKDSH 3/...	-	•	•	•	•	•		•	•	•	•	•
GMKDS 1,5/...	-	•	•	•	•	•		•	•	•	•	•
GMKDS 3/...	-	•	•	•	•	•		•	•	•	•	•
GMKDSP 3/...	-	•	•	•	•	•		•	•	•	•	•
SPTA 1/...-3,5	-	•	•	•	•	•		•	•	•	•	•
SPTA 1/...-5,0	-	•	•	•	•	•		•	•	•	•	•
MKKDS 1,5/...	-	-	•	-	•	-		•	-	•	-	•
MKKDS 3/...	-	-	•	-	•	-		•	-	•	-	•
MKKDSG 3/...	-	-	•	-	•	-		•	-	•	-	•
ZFKKDS 1,5C-5,0	-	-	•	-	•	-		•	-	•	-	•
FK-MPT 0,5/...-3,5-H	-	•	•	•	•	•		•	•	•	•	•
FK-MPT 0,5/...-ST-3,5	-	•	•	•	•	•		•	•	•	•	•
PTSA 0,5/...-2,5-Z	-	•	•	•	•	•		•	•	•	•	•
PTSA 0,5/...-2,5-F	-	•	•	•	•	•		•	•	•	•	•
PTSA 1,5/...-3,5-Z	-	•	•	•	•	•		•	•	•	•	•
PTSA 1,5/...-3,5-F	-	•	•	•	•	•		•	•	•	•	•
PTS 1,5/...-5,0-H	-	•	•	•	•	•		•	•	•	•	•
PT 1,5/...-5,0-H	-	•	•	•	•	•		•	•	•	•	•
PT 1,5/...-PH-5,0	-	•	•	•	•	•		•	•	•	•	•
PT 2,5/...-5,0-H	-	•	•	•	•	•		•	•	•	•	•
PT 2,5/4-7,5-H	-	•	•	•	•	•		•	•	•	•	•
PTDA 1,5/...-PH-3,5	-	-	•	-	•	-		•	-	•	-	•
PTDA 1,5/...-PH-5,0	-	-	•	-	•	-		•	-	•	-	•
PT 2,5/...-PVH-5,0	-	-	•	-	•	-		•	-	•	-	•
PST 1,3/...-LH-5,0	-	-	•	-	•	-		•	-	•	-	•
PST 1,3/...-LV-5,0	-	-	•	-	•	-		•	-	•	-	•
PST 1,0/...-3,5	-	•	•	•	•	•		•	•	•	•	•
PST 1,3/...-5,0	-	•	•	•	•	•		•	•	•	•	•
VS-08-BU-RJ45...	-	-	•	-	•	-		•	-	•	-	•

For the 22 mm terminal installation depth, terminal blocks for U11 installation depth can also be used and are therefore listed as well.

Terminal installation depth
U11 = 11.1 mm



Terminal installation depth
U22 = 22.35 mm



BC installation component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

- Notes:
- 1) For information on power dissipation, see page 770.
 - 2) DIN rail connectors see page 702.



17.8 mm wide = 1 terminal pitch



35.6 mm wide = 2 terminal pitches



53.6 mm wide = 3 pitches



71.6 mm wide = 4 terminal pitches



107.6 mm wide = 6 terminal pitches

Technical data	
Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	BC 17,8 UT HBUS BK 2.95 W
Mounted in rows without spacing	-
Type of housing	Electronic housings
Connection data	polycarbonate / V0
HBUS	solid stranded AWG I [A] U [V]

Technical data	
Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	BC 17,8 UT HBUS BK 2.95 W
Mounted in rows without spacing	-
Type of housing	Electronic housings
Connection data	polycarbonate / V0
HBUS	solid stranded AWG I [A] U [V]

Technical data	
Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	BC 35,6 UT HBUS BK 4.78 W
Mounted in rows without spacing	-
Type of housing	Electronic housings
Connection data	polycarbonate / V0
HBUS	solid stranded AWG I [A] U [V]

Technical data	
Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	BC 53,6 UT HBUS BK 7.21 W
Mounted in rows without spacing	-
Type of housing	Electronic housings
Connection data	polycarbonate / V0
HBUS	solid stranded AWG I [A] U [V]

Technical data	
Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	BC 71,6 UT HBUS BK 11.95 W
Mounted in rows without spacing	-
Type of housing	Electronic housings
Connection data	polycarbonate / V0
HBUS	solid stranded AWG I [A] U [V]

Technical data	
Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	BC 107,6 UT HBUS BK 13.08 W
Mounted in rows without spacing	-
Type of housing	Electronic housings
Connection data	polycarbonate / V0
HBUS	solid stranded AWG I [A] U [V]

Ordering data	
Description	Type Order No. Pcs. / Pkt.
Housing base	BC 17,8 UT HBUS BK 2896241 10
Housing upper part, with vents, terminal installation depth 11 mm	
With vents, terminal installation depth 11 mm	
Housing upper part, with vents, terminal installation depth 22 mm	
Upper part of a housing, for orthogonal PCB terminal block base with a 3.5 or 5 mm pitch	BC 17,8 OTU MKDSO KMGY 2279732 10
Housing cover, firmly locked with the housing upper part, in housing color light gray	BC 17,8 DKL R KMGY 2896144 10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover	BC 17,8 DKL S TRANS 2896102 10

Ordering data	
Description	Type Order No. Pcs. / Pkt.
Housing base	BC 35,6 UT HBUS BK 2896254 10
Housing upper part, with vents, terminal installation depth 11 mm	BC 35,6 OT U11 KMGY 2896034 10
Housing upper part, with vents, terminal installation depth 22 mm	BC 35,6 OT U22 KMGY 2896047 10
Upper part of a housing, for orthogonal PCB terminal block base with a 3.5 or 5 mm pitch	
Housing cover, firmly locked with the housing upper part, in housing color light gray	BC 35,6 DKL R KMGY 2896157 10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover	BC 35,6 DKL S TRANS 2896115 10

Ordering data	
Description	Type Order No. Pcs. / Pkt.
Housing base	BC 53,6 UT HBUS BK 2896403 10
Housing upper part, with vents, terminal installation depth 11 mm	BC 53,6 OT U11 KMGY 2896416 10
Housing upper part, with vents, terminal installation depth 22 mm	BC 53,6 OT U22 KMGY 2896429 10
Upper part of a housing, for orthogonal PCB terminal block base with a 3.5 or 5 mm pitch	
Housing cover, firmly locked with the housing upper part, in housing color light gray	BC 53,6 DKL R KMGY 2896432 10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover	BC 53,6 DKL S TRANS 2896445 10

Ordering data	
Description	Type Order No. Pcs. / Pkt.
Housing base	BC 71,6 UT HBUS BK 2896267 10
Housing upper part, with vents, terminal installation depth 11 mm	BC 71,6 OT U11 KMGY 2896050 10
Housing upper part, with vents, terminal installation depth 22 mm	BC 71,6 OT U22 KMGY 2896063 10
Upper part of a housing, for orthogonal PCB terminal block base with a 3.5 or 5 mm pitch	
Housing cover, firmly locked with the housing upper part, in housing color light gray	BC 71,6 DKL R KMGY 2896160 10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover	BC 71,6 DKL S TRANS 2896128 10

Ordering data	
Description	Type Order No. Pcs. / Pkt.
Housing base	BC 107,6 UT HBUS BK 2896270 10
Housing upper part, with vents, terminal installation depth 11 mm	BC 107,6 OT U11 KMGY 2896076 10
Housing upper part, with vents, terminal installation depth 22 mm	BC 107,6 OT U22 KMGY 2896089 10
Upper part of a housing, for orthogonal PCB terminal block base with a 3.5 or 5 mm pitch	
Housing cover, firmly locked with the housing upper part, in housing color light gray	BC 107,6 DKL R KMGY 2896173 10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover	BC 107,6 DKL S TRANS 2896131 10

Accessories	
PCB terminal block, left, 3.5 mm pitch, color: light gray	MKDSO 1,5/ 4-L-3,5 KMGY 2278432 50
Left	MKDSO 1,5/ 4-R-3,5 KMGY 2278429 50
Right	
PCB terminal block, for soldering into the PCB, pitch 5	MKDSO 2,5/ 3-L KMGY 2854102 250
Left	MKDSO 2,5/ 3-R KMGY 2854092 250
Right	HBUS-B SET BK 2278173 10
Cap set, 3-section	
DIN rail connector, 16-pos. ²⁾	HBUS 35,6-16P-1S BK 2896283 10
One 18-pos. slot to the PCB	
Two 18-pos. slots to the PCB	HBUS 53,6-16P-2S BK 2896319 10
Three 18-pos. slots to the PCB	HBUS 53,6-16P-3S BK 2896322 10

Accessories	
PCB terminal block, left, 3.5 mm pitch, color: light gray	MKDSO 1,5/ 4-L-3,5 KMGY 2278432 50
Left	MKDSO 1,5/ 4-R-3,5 KMGY 2278429 50
Right	
PCB terminal block, for soldering into the PCB, pitch 5	MKDSO 2,5/ 3-L KMGY 2854102 250
Left	MKDSO 2,5/ 3-R KMGY 2854092 250
Right	HBUS-B SET BK 2278173 10
Cap set, 3-section	
DIN rail connector, 16-pos. ²⁾	HBUS 35,6-16P-1S BK 2896283 10
One 18-pos. slot to the PCB	
Two 18-pos. slots to the PCB	HBUS 53,6-16P-2S BK 2896319 10
Three 18-pos. slots to the PCB	HBUS 53,6-16P-3S BK 2896322 10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Filler plugs, for unoccupied terminal points	ME B-17,5 MKDSO KMGY 2854115 10
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY 2896209 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	

Accessories	
PCB terminal block, left, 3.5 mm pitch, color: light gray	MKDSO 1,5/ 4-L-3,5 KMGY 2278432 50
Left	MKDSO 1,5/ 4-R-3,5 KMGY 2278429 50
Right	
PCB terminal block, for soldering into the PCB, pitch 5	MKDSO 2,5/ 3-L KMGY 2854102 250
Left	MKDSO 2,5/ 3-R KMGY 2854092 250
Right	HBUS-B SET BK 2278173 10
Cap set, 3-section	
DIN rail connector, 16-pos. ²⁾	HBUS 35,6-16P-1S BK 2896283 10
One 18-pos. slot to the PCB	
Two 18-pos. slots to the PCB	HBUS 53,6-16P-2S BK 2896319 10
Three 18-pos. slots to the PCB	HBUS 53,6-16P-3S BK 2896322 10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Filler plugs, for unoccupied terminal points	ME B-17,5 MKDSO KMGY 2854115 10
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY 2896209 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	

Accessories	
PCB terminal block, left, 3.5 mm pitch, color: light gray	MKDSO 1,5/ 4-L-3,5 KMGY 2278432 50
Left	MKDSO 1,5/ 4-R-3,5 KMGY 2278429 50
Right	
PCB terminal block, for soldering into the PCB, pitch 5	MKDSO 2,5/ 3-L KMGY 2854102 250
Left	MKDSO 2,5/ 3-R KMGY 2854092 250
Right	HBUS-B SET BK 2278173 10
Cap set, 3-section	
DIN rail connector, 16-pos. ²⁾	HBUS 53,6-16P-1S BK 2896458 10
One 18-pos. slot to the PCB	
Two 18-pos. slots to the PCB	HBUS 71,6-16P-1S BK 2896296 10
Three 18-pos. slots to the PCB	
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Filler plugs, for unoccupied terminal points	BC 17,6 BS U11 KMGY 2896186 50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY 2896209 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	BC 53,6 BS U11 KMGY 2896225 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY 2896238 50

Accessories	
PCB terminal block, left, 3.5 mm pitch, color: light gray	MKDSO 1,5/ 4-L-3,5 KMGY 2278432 50
Left	MKDSO 1,5/ 4-R-3,5 KMGY 2278429 50
Right	
PCB terminal block, for soldering into the PCB, pitch 5	MKDSO 2,5/ 3-L KMGY 2854102 250
Left	MKDSO 2,5/ 3-R KMGY 2854092 250
Right	HBUS-B SET BK 2278173 10
Cap set, 3-section	
DIN rail connector, 16-pos. ²⁾	HBUS 71,6-16P-1S BK 2896296 10
One 18-pos. slot to the PCB	
Two 18-pos. slots to the PCB	
Three 18-pos. slots to the PCB	
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Filler plugs, for unoccupied terminal points	BC 17,6 BS U11 KMGY 2896186 50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY 2896209 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	BC 53,6 BS U11 KMGY 2896225 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY 2896238 50

Accessories	
PCB terminal block, left, 3.5 mm pitch, color: light gray	MKDSO 1,5/ 4-L-3,5 KMGY 2278432 50
Left	MKDSO 1,5/ 4-R-3,5 KMGY 2278429 50
Right	
PCB terminal block, for soldering into the PCB, pitch 5	MKDSO 2,5/ 3-L KMGY 2854102 250
Left	MKDSO 2,5/ 3-R KMGY 2854092 250
Right	HBUS-B SET BK 2278173 10
Cap set, 3-section	
DIN rail connector, 16-pos. ²⁾	HBUS 107,6-16P-1S BK 2896306 10
One 18-pos. slot to the PCB	
Two 18-pos. slots to the PCB	
Three 18-pos. slots to the PCB	
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Filler plugs, for unoccupied terminal points	BC 17,6 BS U11 KMGY 2896186 50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY 2896209 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	BC 53,6 BS U11 KMGY 2896225 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY 2896238 50

Accessories	
PCB terminal block, left, 3.5 mm pitch, color: light gray	MKDSO 1,5/ 4-L-3,5 KMGY 2278432 50
Left	MKDSO 1,5/ 4-R-3,5 KMGY 2278429 50
Right	
PCB terminal block, for soldering into the PCB, pitch 5	MKDSO 2,5/ 3-L KMGY 2854102 250
Left	MKDSO 2,5/ 3-R KMGY 2854092 250
Right	HBUS-B SET BK 2278173 10
Cap set, 3-section	
DIN rail connector, 16-pos. ²⁾	HBUS 107,6-16P-1S BK 2896306 10
One 18-pos. slot to the PCB	
Two 18-pos. slots to the PCB	
Three 18-pos. slots to the PCB	
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Filler plugs, for unoccupied terminal points	BC 17,6 BS U11 KMGY 2896186 50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY 2896209 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	BC 53,6 BS U11 KMGY 2896225 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY 2896238 50

BC installation component housing

BC modular

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:

1) For information on power dissipation, see page 770.

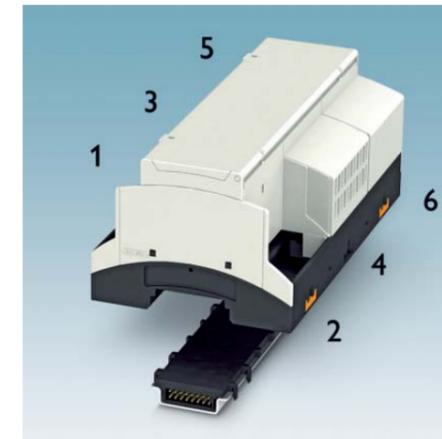
2) DIN rail connectors see page 702.



161.6 mm wide = 9 terminal pitches



Technical data	
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	BC 161,6 UT HBUS BK 16.95 W
Mounted in rows without spacing	
Type of housing	Electronic housings
Connection data	polycarbonate / V0
	solid stranded I U [mm ²] AWG [A] [V]
HBUS	- - - 3 60
Ordering data	
Description	Type Order No. Pcs. / Pkt.
Housing base	BC 161,6 UT HBUS BK 2278500 10
Upper part of housing With vents, terminal installation depth 11 mm	BC 161,6 OT U11 KMGY 2278513 10
Housing upper part, with vents, terminal installation depth 22 mm	BC 161,6 OT U22 KMGY 2278526 10
Housing cover , firmly locked with the housing upper part, in housing color light gray	BC 161,6 DKL R KMGY 2278539 10
Housing cover , can be swiveled and sealed, transparent, incl. fitted cover	BC 161,6 DKL S TRANS 2278542 10
Accessories	
Cap set, 3-section DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB ²⁾	HBUS-B SET BK 2278173 10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	HBUS 161,6-16P-1S BK 2278555 10
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 11 mm	BC 17,6 BS U11 KMGY 2896186 50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY 2896209 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	BC 53,6 BS U11 KMGY 2896225 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY 2896238 50



The BC 161,6 modular extends the BC housing range with a modular upper part which is a perfect match for the proven BC 161,6 housing bases.

An innovative tool concept makes it possible to design both the PCB assembly area as well as the installation space for the PCB connection technology in line with the application. Customers can choose from 3 different side panel arrangements per segment:

- Side panel in the outermost position, i.e., flush with the outer edge of the housing base: maximum PCB assembly area inside the housing for a variety of different components
- Side panel in the innermost position: maximum installation space for connection technology = 22 mm, e.g., for double-level terminal blocks or RJ45
- Middle side panel position: installation space for connection technology = 11 mm, i.e., space both for the connection technology and inside the housing

Please tell us how you would like the product to be configured.

Notes:

1) For information on power dissipation, see page 770.

2) DIN rail connectors see page 702.



Modular upper part for customer-specific configuration
161.6 mm wide = 9 pitches

Technical data	
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	BC 161,6 OT 000020 KMGY 16.95 W
Mounted in rows without spacing	
Type of housing	Electronic housings
Connection data	polycarbonate / V0
	solid stranded I U [mm ²] AWG [A] [V]
HBUS	- - - 3 60
Ordering data	
Description	Type Order No. Pcs. / Pkt.
Housing base	BC 161,6 UT HBUS BK 2278500 10
Housing upper part with vents, 1 x terminal installation depth of 22 mm at pos. 5, pos. 1-4, and pos. 6 clamping space closed	BC 161,6 OT 000020 KMGY 2201450 10
Housing upper part with vents, 1 x terminal installation depth 22 mm at pos. 3, pos. 1+2, and pos. 4-6 clamping space closed	BC 161,6 OT 002000 KMGY 2201451 10
Housing upper part with vents, 2 x terminal installation depth 22 mm at pos. 5+6, pos. 1-4 clamping space closed	BC 161,6 OT 000022 KMGY 2201454 10
Housing cover , firmly locked with the housing upper part, in housing color light gray	BC 161,6 DKL R KMGY 2278539 10
Housing cover , can be swiveled and sealed, transparent, incl. fitted cover	BC 161,6 DKL S TRANS 2278542 10
Accessories	
Cap set, 3-section DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB ²⁾	HBUS-B SET BK 2278173 10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long	HBUS 161,6-16P-1S BK 2278555 10
Socket strip	BL2-2,54/16-ST 2896335 50
Pin strip	SL2-2,54/16-ST 2896348 50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY 2896199 50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY 2896212 50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY 2896238 50

**DIN rail connectors
HBUS**

Notes:
1) DIN rail connectors see page 702.



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
DIN rail connector for housing width 17.8 mm (1TE)			
Two 18-pos. slots to the PCB	HBUS 35,6-16P-2S BK	2896319	10
Three 18-pos. slots to the PCB	HBUS 53,6-16P-3S BK	2896322	10
DIN rail connector, 16-pos.¹⁾			
One 18-pos. slot to the PCB	HBUS 35,6-16P-1S BK	2896283	10
DIN rail connector, 16-pos., for housing width 53.6 mm (3TE)			
	HBUS 53,6-16P-1S BK	2896458	10
DIN rail connector for housing width 71.6 mm (4TE), 16-pos., one 18-pos. slot for PCB			
	HBUS 71,6-16P-1S BK	2896296	10
DIN rail connector for housing width 107.6 mm (6TE), 16-pos., one 18-pos. slot for PCB			
	HBUS 107,6-16P-1S BK	2896306	10
DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB¹⁾			
	HBUS 161,6-16P-1S BK	2278555	10

Accessories

Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long			
Socket strip	BL2-2,54/16-ST	2896335	50
Pin strip	SL2-2,54/16-ST	2896348	50
Cap set, 3-section	HBUS-B SET BK	2278173	10



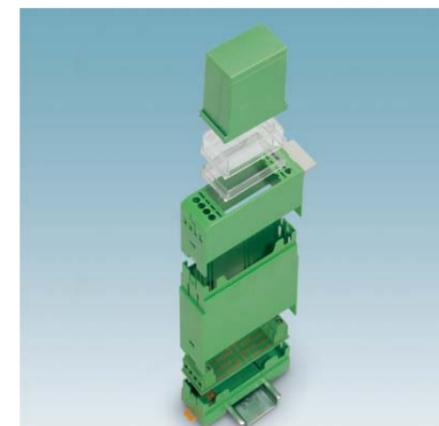
Automatic contacting between devices

- For parallel and serial data transmission and power supply
- 16-pos. in DIN rail, 18-pos. in device
- Gold-plated contacts
- Housing width 17.8 mm suitable for connectors with 2 or 3 slots
- One connector per housing is required for housing widths in excess of 35.6 mm
- Cover caps for protection
- Pin or socket strip (SL or BL) for supply incl. 50 cm cable ends

Housing base

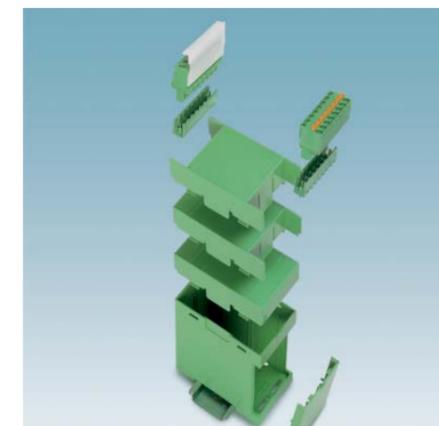


The EMG, EG, and UEG housing ranges are the ideal solution for cost-effective housing production. Cost-effectiveness and functionality are combined with simple PCB geometries, carefully thought-out overall width scaling, and some versions with integrated connection technology.



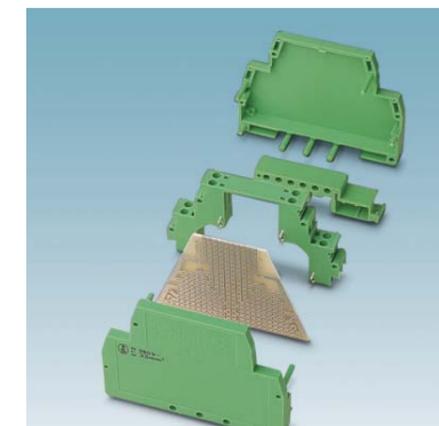
EMG housing range

- Your advantages at a glance:
- Fine type scaling for broad diversity of overall widths
 - Various cover versions
 - Flat design
 - For solid 2.5 mm² - MKDS 3 screw connections with 5 mm pitch



EG housing range

- Your advantages at a glance:
- Robust housing type
 - Receptacle housing
 - A variety of cover designs
 - Two material versions, ABS and PC
 - Optional with test opening



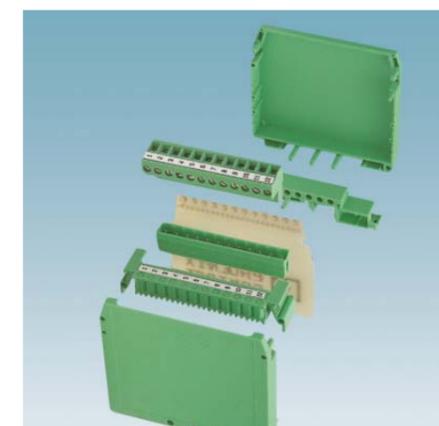
UEG housing range

- Your advantages at a glance:
- Flat half-shell design
 - Base element with integrated connection technology, double-level design
 - Optional PCBs for small series



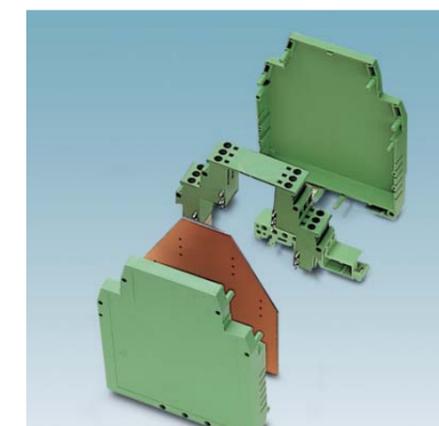
UEGM housing range

- Your advantages at a glance:
- Half-shell design
 - Base element with integrated connection technology, single-level design
 - Large PCB surface
 - Optional PCBs for small series



UEGM-MSTB housings

- Your advantages at a glance:
- Half-shell design
 - Base element with integrated 12-pos. pin strip
 - Can be additionally equipped with 3 mm LED light indicator
 - Large PCB surface

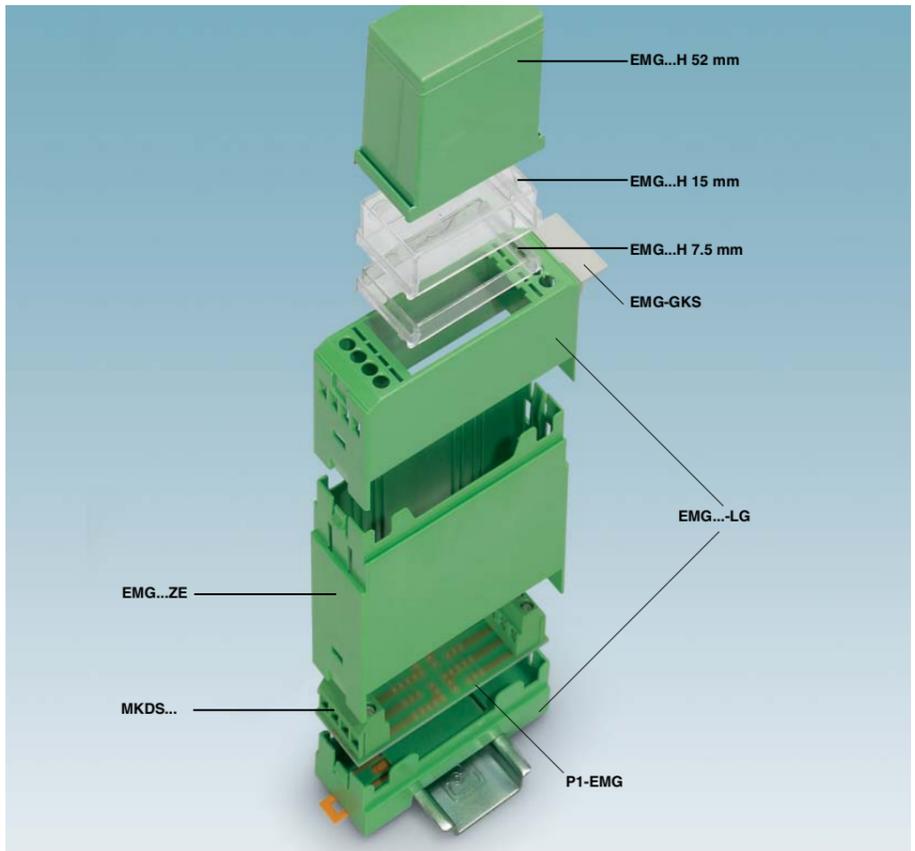


UEGH housing range

- Your advantages at a glance:
- Tall half-shell design
 - Base element with integrated connection technology, double-level design
 - Optional PCBs for small series
 - Versions offering space for PCBs fitted with SMDs on both sides

EMG system component housing

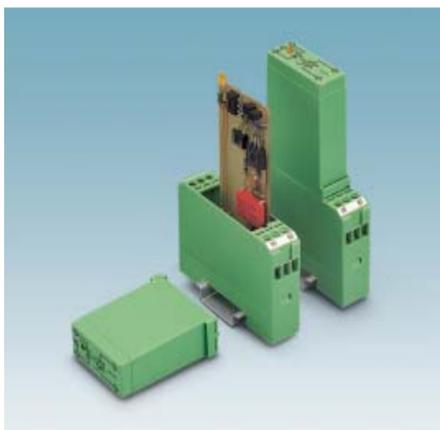
EMG is a complete range of component housing for the cost-effective design of industrial electronics to suit control cabinet requirements. Both small interface circuits and complete control units can be installed in this housing.



Accommodating electronic components

The fine grading of types enables optimum adaptation of the housing to the required PCB area and the required number of connection positions. The PCB is rectangular. The special feature of this range is that all electronic components and PCB terminal blocks can be mounted to suit production requirements and machine-soldered in a single step. To create narrow modules that also have comprehensive electronic components, one or more additional PCBs can be mounted perpendicular to the main PCB.

Details of PCB layout, dimensions, connection points, and assembly areas can be found in the Download Center at www.phoenixcontact.net/products.



- Features of EMG housing:
- Uniform and appropriate housing technology
 - Space-saving accommodation of electronic components in finely graded module versions available with 10 to 150 mm pitch
 - Practical and easy-to-wire conductor connections
 - Inflammability class V0 insulation material (according to UL 94)
 - High degree of flexibility due to the wide choice of versions
 - User-friendly and safe mounting on DIN rails according to EN 60715
 - Shock and contamination-proof accommodation of electronic components
 - Choice of four cover sizes in transparent or color versions
 - Universal PCBs for all pitches

Construction principle

The top right image shows the principle of EMG construction: the assembled PCB is inserted into the upper part of the housing and then reliably latched into the housing base.



Four cover heights

The transparent or opaque green covers are supplied to protect the internal electronic components against shock and contamination. The cover is simply snapped on and can be removed again at any time. The front has openings for the installation of indication or actuation elements and the surface can be printed with a circuit diagram. The covers can be supplied with cut-outs or printing on the front. Special keying adaptation ensures that the covers can only be mounted to match the circuit. You can choose between four cover heights allowing optimum adaptation of the module height to the space requirements of the electronic components. The 7.5 mm, 15 mm, and 35 mm high covers are transparent, whereas the 52 mm high cover is opaque green. The high covers have guide slots to accommodate the perpendicular secondary PCB(s).

EMG housing with a design width of 17 mm, 25 mm, and 75 mm is also available as an enclosed version (EMG...-LG/G) on request.



Conductor connections

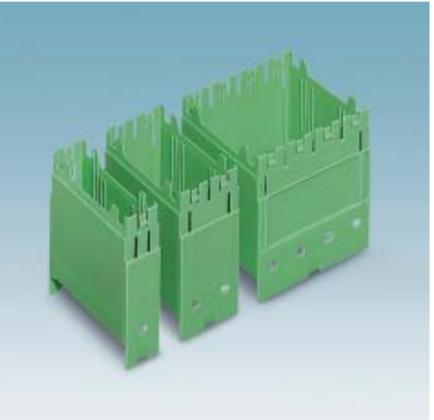
Standard EMG...LG versions are designed for sturdy 2.5 mm² screw connections on both sides in the form of MKDS 3 PCB terminal blocks with 5 mm pitch. The terminal points that are not used can be sealed with EMG-KA terminal blocks/screw covers. The following versions of EMG housing are also available:

- EMG...LG 7,5 for PCB terminal blocks with 7.5 mm pitch.
- EMG...LG/O, with open clamping space for free assembly, can be fitted with 2.8 x 0.8 mm spade connections or with PCB terminal block or COMBICON connections with vertical plug-in direction (MSTBV 2,5/...-G).
- EMG...LG/MSTB for lateral COMBICON connection (plug-in direction parallel to the PCB).



Intermediate elements

EMG...ZE intermediate elements are available for pitches of 25, 45, and 90 mm. These elements increase the assembly space perpendicular to the DIN rail significantly. The various PCB guides ensure optimum accommodation of your electronic components.



Basic housings for universal use

Basic housings for universal use

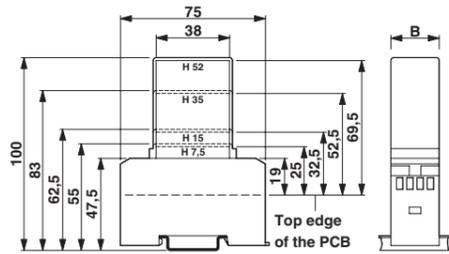
EMG system component housing

Delivery forms

- This component housing range can be divided into three delivery groups:
- Housings with order no. EMG...LG consist of an upper and a lower part.
- Articles ending in SET are supplied as upper and lower housing parts in the standard version, including the relevant PCB terminal blocks.
- Ready-mounted custom circuit modules with PCB and solder tags, which are fitted on MKDS 3/... connection terminal blocks, are available as EMG...B.... These custom circuit modules are the answer if you want to make a professional job of integrating components such as damping diodes, varistors or capacitors in the control cabinet.

Mounting:

All housings are aligned in rows on the symmetrical DIN rail in accordance with EN 60715 by simply snap locking them into place. They are removed by pulling back the base latch. Modules of up to a design width of 22.5 mm are also supplied with a universal foot, thus making them suitable for all DIN rails commonly available in the market.



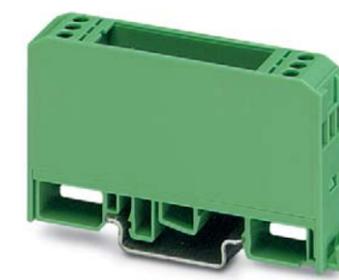
B= Width



4-pos., width: 10 mm



4-pos., width: 12.5 mm



6-pos., width: 15 mm



4-pos., 7.5 mm pitch, 6-pos., 5 mm pitch, width: 17.5 mm

	Technical data			
	H 7,5	H 15	H 35	H 52
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾				
Mounted in rows without spacing	0.9 W	1 W	-	1.5 W
Mounted in rows with min. 20 mm spacing	1.2 W	1.4 W	-	2.2 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	I	U
	[mm ²]		AWG	[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover, with universal foot,	5	4	10
	5	4	12.5
	5	6	15
	5	6	17.5
	7.5	4	17.5
With open terminal space			17.5
Electronic housing set , consisting of electronic housings and printed circuit termination blocks	5	4	10
	5	4	12.5
	5	6	15
	5	6	17.5
Custom circuit module , consisting of housing, connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components	5		

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 10-LG	2947747	10	
EMG 10-LG/SET	2942959	10	
EMG 10-B2	2947750	10	

Accessories			
Covering hood , for the contact and dust-protected encapsulation of the components	Height 7.5 mm, transparent	2947763	10
	Height 15 mm, transparent	2947776	10
	Height 35 mm, transparent		
	Height 52 mm, green	2947789	10
PCB , for assembling electronic components	P 1-EMG 10	2947792	10
Printed circuit termination block , pitch 5 or 5.08, for soldering onto the printed circuit board	2	1712342	50
	3		
Printed circuit termination block , pitch 7.5, for soldering into the printed circuit board	2	2941510	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points		2947585	50
Equipment marker			

Technical data			
H 7,5	H 15	H 35	H 52
1.2 W	1.3 W	-	2 W
1.3 W	1.5 W	-	2.6 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid	stranded	I	U
[mm ²]		AWG	[A] [V]
0.2 - 4	0.2 - 2.5	24 - 12	- -

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 12-LG	2907910	10	
EMG 12-LG/SET	2942962	10	
EMG 12-B2	2948306	10	

Accessories			
EMG 12-H 7,5MM KLAR	2947116	10	
	2948296	10	
EMG 12-H 15MM KLAR			
EMG 12-H 52MM GN	2947129	10	
	2947187	5	
P 1-EMG 12			
MKDS 3/ 2	1711026	100	
EMG-KA	2941510	50	
EMG-GKS 12	2947035	50	

Technical data			
H 7,5	H 15	H 35	H 52
1.2 W	1.4 W	-	2 W
1.3 W	1.5 W	-	2.7 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid	stranded	I	U
[mm ²]		AWG	[A] [V]
0.2 - 4	0.2 - 2.5	24 - 12	- -

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 15-LG	2908508	10	
EMG 15-LG/SET	2942975	10	
EMG 15-B3	2947815	10	

Accessories			
EMG 15-H 7,5MM KLAR	2947828	10	
	2947831	10	
EMG 15-H 15MM KLAR			
EMG 15-H 52MM GN	2947844	10	
	2947857	20	
P 1-EMG 15			
MKDS 3/ 3-EMG 15	1712698	50	
EMG-KA	1731462	50	
	2941510	50	
EMG-GKS 12	2947035	50	

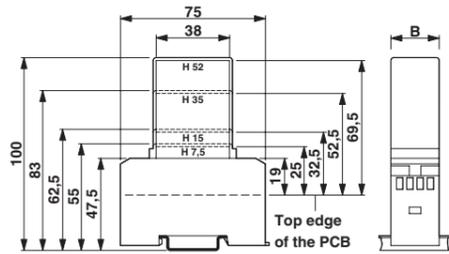
Technical data			
H 7,5	H 15	H 35	H 52
1.3 W	1.5 W	2.1 W	2.7 W
1.4 W	1.6 W	2.7 W	4 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid	stranded	I	U
[mm ²]		AWG	[A] [V]
0.2 - 4	0.2 - 2.5	24 - 12	- -

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 17-LG	2946078	10	
EMG 17-LG-7,5	2944106	10	
EMG 17-LG/O	2942409	10	
EMG 17-LG/SET	2942988	10	
EMG 17-B3	2946081	10	

Accessories			
EMG 17-H 7,5MM KLAR	2946094	10	
	2946104	10	
EMG 17-H 15MM KLAR	2942221	10	
	2946117	10	
EMG 17-H 35MM KLAR			
EMG 17-H 52MM GN	2946120	5	
P 1-EMG 17			
MKDS 3/ 3	1711039	100	
EMG-KA	1731022	100	
	2941510	50	
EMG-SGKS 10	2947585	50	
	2947035	50	

EMG system component housing

Notes:
 Tightening torque of terminal block screws refer to page 854.
 Marking systems and mounting material See Catalog 5
 1) For information on power dissipation, see page 770.



B= Width



8-pos., width: 22.5 mm



8-pos., width: 25 mm



10-pos., width: 30 mm



14-pos., width: 37.5 mm

	Technical data			
	H 7,5	H 15	H 35	H 52
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾				
Mounted in rows without spacing	1.4 W	1.6 W	2.3 W	3 W
Mounted in rows with min. 20 mm spacing	1.6 W	1.8 W	2.9 W	4.1 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	AWG	I U
	[mm ²]			[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover			
With universal foot	5	8	22.5
With snap foot for DIN rail EN 60715	5	8	25
	5	10	30
	5	14	37.5
Electronic housing set , consisting of electronic housings and printed circuit termination blocks			
	5	8	22.5
	5	8	25
	5	10	30
	5	14	37.5
Custom circuit module , consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components			
	5		

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 22-LG	2946133	10	
EMG 22-LG/SET	2942991	10	
EMG 22-B4	2946146	10	

Accessories			
Description	Order No.	Pcs. / Pkt.	
Covering hood , for the contact and dust-protected encapsulation of the components			
Height 7.5 mm, transparent	EMG 22-H 7,5MM KLAR	2946159	10
Height 15 mm, transparent	EMG 22-H 15MM KLAR	2946162	10
Height 35 mm, transparent	EMG 22-H 35MM KLAR	2942771	10
Height 52 mm, green	EMG 22-H 52MM GN	2946175	10
PCB, for assembling electronic components	P 1-EMG 22	2946188	5
5.0 mm pitch , color: green			
	MKDS 3/ 2	1711026	100
	MKDS 3/ 3	1711039	100
	MKDS 3/ 4	1711042	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	EMG-KA	2941510	50
Intermediate element , to enlarge the assembly space			
Equipment marker			
10	EMG-SGKS 10	2947585	50
12	EMG-GKS 12	2947035	50
22	EMG-GKS 22	2941594	50

Technical data				
H 7,5	H 15	H 35	H 52	
1.4 W	1.6 W	-	3.2 W	
1.6 W	1.8 W	-	4.5 W	
Polycarbonate fiber reinforced / V0				
Polycarbonate, PC / V0				
Polycarbonate, PC / V2				
8 mm				
solid	stranded	AWG	I U	
[mm ²]			[A] [V]	
0.2 - 4	0.2 - 2.5	24 - 12	- -	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 25-LG	2948319	5	
EMG 25-LG/SET	2943000	10	
EMG 25-B4	2948335	10	

Accessories			
Description	Order No.	Pcs. / Pkt.	
Covering hood , for the contact and dust-protected encapsulation of the components			
Height 7.5 mm, transparent	EMG 25-H 7,5MM KLAR	2947132	5
Height 15 mm, transparent	EMG 25-H 15MM KLAR	2948322	5
Height 35 mm, transparent	EMG 25-H 35MM KLAR	2942771	5
Height 52 mm, green	EMG 25-H 52MM GN	2947145	5
PCB, for assembling electronic components	P 1-EMG 25	2947190	20
5.0 mm pitch , color: green			
	MKDS 3/ 2	1711026	100
	MKDS 3/ 3	1711039	100
	MKDS 3/ 4	1711042	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	EMG-KA	2941510	50
Intermediate element , to enlarge the assembly space			
Equipment marker			
10	EMG-SGKS 10	2947585	50
12	EMG-GKS 12	2947035	50
22	EMG-GKS 22	2941594	50

Technical data				
H 7,5	H 15	H 35	H 52	
1.5 W	1.7 W	-	3.6 W	
1.7 W	1.9 W	-	4.9 W	
Polycarbonate fiber reinforced / V0				
Polycarbonate fiber reinforced PC-F / V0				
Polycarbonate, PC / V2				
8 mm				
solid	stranded	AWG	I U	
[mm ²]			[A] [V]	
0.2 - 4	0.2 - 2.5	24 - 12	- -	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 30-LG	2947860	5	
EMG 30-LG/SET	2940016	5	
EMG 30-B5	2947873	10	

Accessories			
Description	Order No.	Pcs. / Pkt.	
Covering hood , for the contact and dust-protected encapsulation of the components			
Height 7.5 mm, transparent	EMG 30-H 7,5MM KLAR	2947886	5
Height 15 mm, transparent	EMG 30-H 15MM KLAR	2947899	5
Height 35 mm, transparent	EMG 30-H 35MM KLAR	2942768	5
Height 52 mm, green	EMG 30-H 52MM GN	2947909	5
PCB, for assembling electronic components	P 1-EMG 30	2947912	10
5.0 mm pitch , color: green			
	MKDS 3/ 2	1711026	100
	MKDS 3/ 3	1711039	100
	MKDS 3/ 4	1711042	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	EMG-KA	2941510	50
Intermediate element , to enlarge the assembly space			
Equipment marker			
10	EMG-SGKS 10	2947585	50
12	EMG-GKS 12	2947035	50
22	EMG-GKS 22	2941594	50

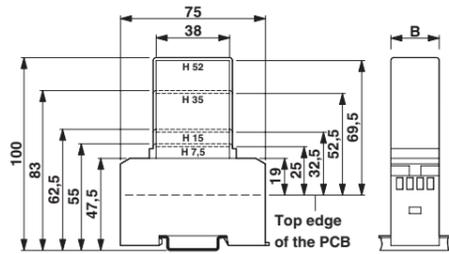
Technical data				
H 7,5	H 15	H 35	H 52	
1.6 W	1.9 W	2.6 W	4 W	
1.8 W	2.1 W	3.5 W	5.4 W	
Polycarbonate fiber reinforced / V0				
Polycarbonate fiber reinforced PC-F / V0				
Polycarbonate, PC / V2				
8 mm				
solid	stranded	AWG	I U	
[mm ²]			[A] [V]	
0.2 - 4	0.2 - 2.5	24 - 12	- -	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMG 37-LG	2947051	5	
EMG 37-LG/SET	2940029	10	
EMG 37-B7	2947064	5	

Accessories			
Description	Order No.	Pcs. / Pkt.	
Covering hood , for the contact and dust-protected encapsulation of the components			
Height 7.5 mm, transparent	EMG 37-H 7,5MM KLAR	2947158	5
Height 15 mm, transparent	EMG 37-H 15MM KLAR	2947161	5
Height 35 mm, transparent	EMG 37-H 35MM KLAR	2942768	5
Height 52 mm, green	EMG 37-H 52MM GN	2947174	5
PCB, for assembling electronic components	P 1-EMG 37	2947077	5
5.0 mm pitch , color: green			
	MKDS 3/ 2	1711026	100
	MKDS 3/ 3	1711039	100
	MKDS 3/ 4	1711042	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	EMG-KA	2941510	50
Intermediate element , to enlarge the assembly space			
Equipment marker			
10	EMG-SGKS 10	2947585	50
12	EMG-GKS 12	2947035	50
22	EMG-GKS 22	2941594	50

EMG system component housing

Notes:
 Tightening torque of terminal block screws refer to page 854.
 Marking systems and mounting material See Catalog 5
 1) For information on power dissipation, see page 770.



16-pos., width: 45 mm



18-pos., width: 50 mm



28-pos., width: 75 mm



34-pos., width: 90 mm

B= Width

	Technical data			
	H 7,5	H 15	H 35	H 52
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾				
Mounted in rows without spacing	2 W	2.5 W	3.5 W	4.6 W
Mounted in rows with min. 20 mm spacing	2.4 W	2.9 W	4.4 W	5.7 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	AWG	I U
	[mm ²]			[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover	5.08	16	45	EMG 45-LG	2946191	5
	5	18	50			
	5	28	75			
	5	34	90			
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover			45	EMG 45-LG/O	2942315	5
			50			
			75			
			90			
Electronic housing set , consisting of electronic housings and printed circuit termination blocks	5.08	16	45	EMG 45-LG/SET	2940032	5
	5	18	50			
	5	28	75			
	5	34	90			
Custom circuit module , consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components	5.08			EMG 45-B8	2946201	5

		Accessories		
		Type	Order No.	Pcs. / Pkt.
Covering hood , for the contact and dust-protected encapsulation of the components	Height 7.5 mm, transparent	EMG 45-H 7,5MM KLAR	2946214	5
	Height 15 mm, transparent	EMG 45-H 15MM KLAR	2946227	5
	Height 35 mm, transparent	EMG 45-H 35MM KLAR	2942140	5
	Height 52 mm, green	EMG 45-H 52MM GN	2946230	5
	PCB , for assembling electronic components	P 1-EMG 45	2946243	5
5.08 mm pitch , color: Green	2	MKDS 3/ 2-5,08	1711725	100
	3	MKDS 3/ 3-5,08	1711738	100
	4	MKDS 3/ 4-5,08	1712805	50
		EMG 45-ZE	2941811	5
Intermediate element , to enlarge the assembly space		EMG-KA	2941510	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points		EMG-GKS 12	2947035	50
Equipment marker	12	EMG-GKS 22	2941594	50
	22			

	Technical data			
	H 7,5	H 15	H 35	H 52
Mounted in rows without spacing	2.3 W	2.8 W	-	4.7 W
Mounted in rows with min. 20 mm spacing	2.6 W	3.4 W	-	6 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	AWG	I U
	[mm ²]			[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover	5.08	16	45	EMG 50-LG	2947242	5
	5	18	50			
	5	28	75			
	5	34	90			
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover			45	EMG 50-LG/O	2940870	5
			50			
			75			
			90			
Electronic housing set , consisting of electronic housings and printed circuit termination blocks	5.08	16	45	EMG 50-LG/SET	2940045	5
	5	18	50			
	5	28	75			
	5	34	90			
Custom circuit module , consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components	5.08			EMG 50-B9	2947268	5

		Accessories		
		Type	Order No.	Pcs. / Pkt.
Covering hood , for the contact and dust-protected encapsulation of the components	Height 7.5 mm, transparent	EMG 50-H 7,5MM KLAR	2947925	5
	Height 15 mm, transparent	EMG 50-H 15MM KLAR	2947938	5
	Height 35 mm, transparent	EMG 50-H 35MM GN	2947941	5
	Height 52 mm, green	EMG 50-H 52MM GN	2947255	5
	PCB , for assembling electronic components	P 1-EMG 50	2947255	5
5.08 mm pitch , color: Green	2	MKDS 3/ 2	1711026	100
	3	MKDS 3/ 3	1711039	100
	4	MKDS 3/ 4	1711042	50
		EMG-KA	2941510	50
Intermediate element , to enlarge the assembly space		EMG-KA	2941510	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points		EMG-GKS 12	2947035	50
Equipment marker	12	EMG-GKS 22	2941594	50
	22			

	Technical data			
	H 7,5	H 15	H 35	H 52
Mounted in rows without spacing	3.3 W	3.8 W	-	4.9 W
Mounted in rows with min. 20 mm spacing	3.9 W	4.8 W	-	6.3 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	AWG	I U
	[mm ²]			[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover	5.08	16	45	EMG 75-LG	2947378	5
	5	18	50			
	5	28	75			
	5	34	90			
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover			45	EMG 75-LG/O	2941879	5
			50			
			75			
			90			
Electronic housing set , consisting of electronic housings and printed circuit termination blocks	5.08	16	45	EMG 75-LG/SET	2940058	10
	5	18	50			
	5	28	75			
	5	34	90			
Custom circuit module , consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components	5.08			EMG 75-B14	2947381	2

		Accessories		
		Type	Order No.	Pcs. / Pkt.
Covering hood , for the contact and dust-protected encapsulation of the components	Height 7.5 mm, transparent	EMG 75-H 7,5MM KLAR	2947954	5
	Height 15 mm, transparent	EMG 75-H 15MM KLAR	2947967	5
	Height 35 mm, transparent	EMG 75-H 35MM GN	2947970	5
	Height 52 mm, green	EMG 75-H 52MM GN	2947394	5
	PCB , for assembling electronic components	P 1-EMG 75	2947394	5
5.08 mm pitch , color: Green	2	MKDS 3/ 2	1711026	100
	3	MKDS 3/ 3	1711039	100
	4	MKDS 3/ 4	1711042	50
		EMG-KA	2941510	50
Intermediate element , to enlarge the assembly space		EMG-KA	2941510	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points		EMG-GKS 12	2947035	50
Equipment marker	12	EMG-GKS 22	2941594	50
	22			

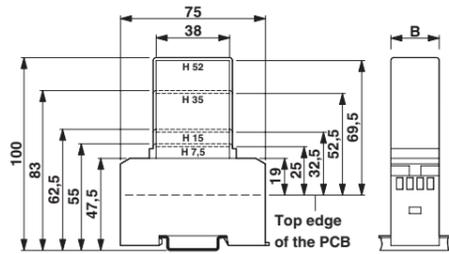
	Technical data			
	H 7,5	H 15	H 35	H 52
Mounted in rows without spacing	4.1 W	5 W	-	6.1 W
Mounted in rows with min. 20 mm spacing	4.6 W	5.7 W	-	7.1 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	AWG	I U
	[mm ²]			[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover	5.08	16	45	EMG 90-LG	2946256	5
	5	18	50			
	5	28	75			
	5	34	90			
Electronic housing , for PCB insertion, without screw connection terminal blocks and cover			45	EMG 90-LG/O	2941581	5
			50			
			75			
			90			
Electronic housing set , consisting of electronic housings and printed circuit termination blocks	5.08	16	45	EMG 90-LG/SET	2907884	5
	5	18	50			
	5	28	75			
	5	34	90			
Custom circuit module , consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components	5.08			EMG 90-B17	2946269	5

		Accessories		
		Type	Order No.	Pcs. / Pkt.
Covering hood , for the contact and dust-protected encapsulation of the components	Height 7.5 mm, transparent	EMG 90-H 7,5MM KLAR	2945396	5
	Height 15 mm, transparent	EMG 90-H 15MM KLAR	2945406	5
	Height 35 mm, transparent	EMG 90-H 35MM GN	2944300	5
	Height 52 mm, green	EMG 90-H 52MM GN	2946272	1
	PCB , for assembling electronic components	P 1-EMG 90	2946272	1
5.08 mm pitch , color: Green	2	MKDS 3/ 2	1711026	100
	3	MKDS 3/ 3	1711039	100
	4	MKDS 3/ 4	1711042	50
		EMG 90-ZE	2941824	5
Intermediate element , to enlarge the assembly space		EMG-KA	2941510	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points		EMG-GKS 12	2947035	50
Equipment marker	12	EMG-GKS 22	2941594	50
	22			

EMG system component housing

Notes:
 Tightening torque of terminal block screws refer to page 854.
 Marking systems and mounting material See Catalog 5
 1) For information on power dissipation, see page 770.



38-pos., width: 100 mm



48-pos., width: 125 mm



58-pos., width: 150 mm

B= Width

	Technical data			
	H 7,5	H 15	H 35	H 52
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾				
Mounted in rows without spacing	6.9 W	8 W	-	8.9 W
Mounted in rows with min. 20 mm spacing	7.8 W	8.4 W	-	9.8 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	I	U
	[mm ²]		AWG	[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover	5	38	100	EMG100-LG	2947080	5
	5	48	125			
	5	58	150			
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover			100	EMG100-LG/O	2907567	5
			150			
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover			100	EMG100-LG/MSTB	2907570	5
			125			
			150			
Electronic housing set, consisting of electronic housings and printed circuit termination blocks	5	38	100	EMG100-LG/SET	2906283	5
Custom circuit module, consisting of housing, connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components	5			EMG100-B19	2947093	2

Description	Grid [mm]	No. of pos.	Width [mm]	Accessories		
				Type	Order No.	Pcs. / Pkt.
Covering hood, for the contact and dust-protected encapsulation of the components				EMG100-H 7,5MM KLAR	2944193	5
				EMG100-H 15MM KLAR	2943152	5
				EMG100-H 35MM KLAR	2942218	5
				EMG100-H 52MM GN	2944724	5
				P 1-EMG100	2947103	5
5.0 mm pitch, color: green		2		MKDS 3/ 2	1711026	100
		3		MKDS 3/ 3	1711039	100
		4		MKDS 3/ 4	1711042	50
				EMG-KA	2941510	50
Terminal block/screw cover, set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points						
Equipment marker		12		EMG-GKS 12	2947035	50
		22		EMG-GKS 22	2941594	50

	Technical data			
	H 7,5	H 15	H 35	H 52
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾				
Mounted in rows without spacing	9.5 W	10.6 W	-	11.6 W
Mounted in rows with min. 20 mm spacing	11 W	12.4 W	-	13 W
Type of housing	Polycarbonate fiber reinforced / V0			
Electronic housings	Polycarbonate fiber reinforced PC-F / V0			
Green cover	Polycarbonate, PC / V2			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid	stranded	I	U
	[mm ²]		AWG	[A] [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- -

Description	Grid [mm]	No. of pos.	Width [mm]	Ordering data		
				Type	Order No.	Pcs. / Pkt.
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover	5	38	100	EMG125-LG	2947983	2
	5	48	125			
	5	58	150			
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover			100	EMG150-LG	2946023	2
			150	EMG150-LG/O	2906571	2
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover			100	EMG150-LG/MSTB	2907596	2
			125			
			150			
Electronic housing set, consisting of electronic housings and printed circuit termination blocks	5	38	100	EMG150-LG/SET	2906283	5
Custom circuit module, consisting of housing, connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components	5			EMG125-B24	2947996	2
				EMG150-B29	2946036	2

Description	Grid [mm]	No. of pos.	Width [mm]	Accessories		
				Type	Order No.	Pcs. / Pkt.
Covering hood, for the contact and dust-protected encapsulation of the components				EMG125-H 7,5MM KLAR	2943194	5
				EMG125-H 15MM KLAR	2943181	5
				EMG125-H 52MM GN	2943518	5
				P 1-EMG125	2946010	5
5.0 mm pitch, color: green		2		MKDS 3/ 2	1711026	100
		3		MKDS 3/ 3	1711039	100
		4		MKDS 3/ 4	1711042	50
				EMG-KA	2941510	50
Terminal block/screw cover, set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points						
Equipment marker		12		EMG-GKS 12	2947035	50
		22		EMG-GKS 22	2941594	50



EG beaker-type component housing

EG component housing is a range of industrial design housing in which a large number of professional industrial electronic components can be accommodated. This housing series includes a whole range of special functional features that support the production of series devices as well as practical applications in the control cabinet.

Key features:

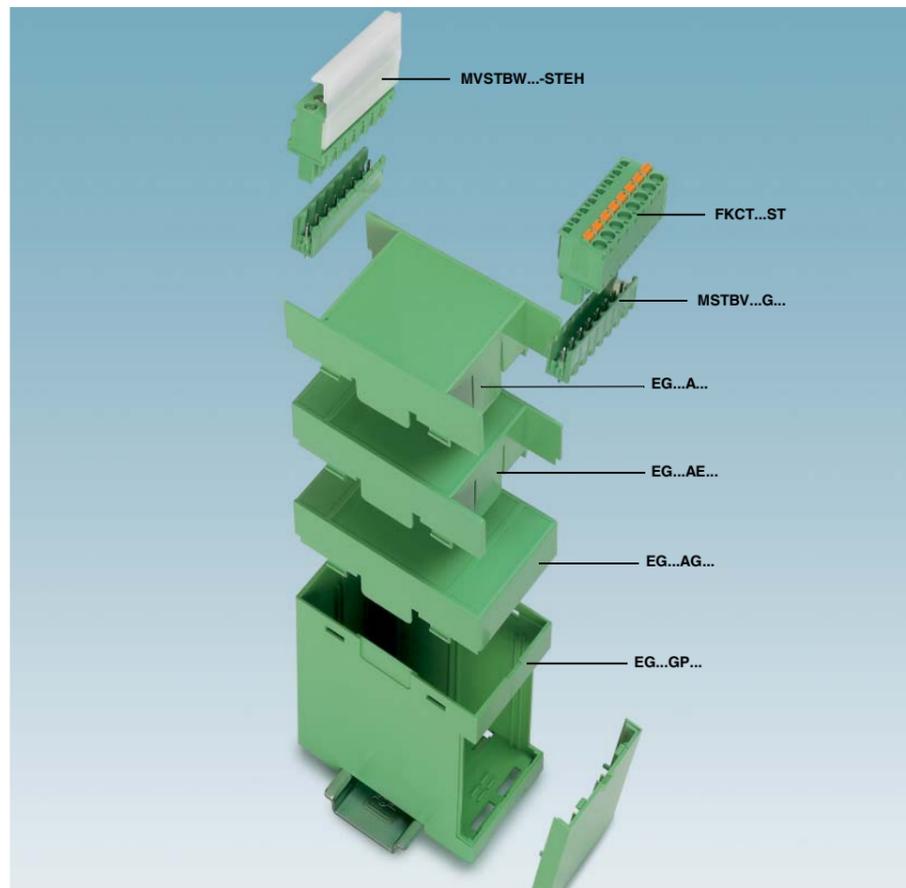
- Tool-free mounting
- Functional and industry-oriented housing technology
- Optimum accommodation of electronic components with graded pitches with a design width of 22.5 mm, 45 mm, 67.5 mm, and 90 mm
- Practical and easy-to-wire conductor connection using extra finely stranded sturdy screw terminal blocks up to 2.5 mm²
- Shock and contamination-proof accommodation of electronic components (IP40 housing, IP20 terminal blocks)
- Fast snap-on mounting on symmetrical DIN rails according to EN 60715
- Date of manufacture and material and part identification embossed on housing (recyclability)

Materials

In the case of EG... electronics housing, you can choose between the standard EG...ABS version and the EG...PC version. The ABS version is suitable for maximum operating temperatures of up to 80°C.

The EG...PC version offers the following features:

- Inflammability class V0 according to UL 94
- Can be used up to a maximum operating temperature of 115°C
- Integrated metal foot catch, which ensures a firm hold on the DIN rail even at high ambient temperatures



Construction principle

The exploded view shows the construction principle of the housing. The base accommodates horizontally or vertically assembled PCBs including the connection elements. The cover is snapped onto the base securely and reliably.

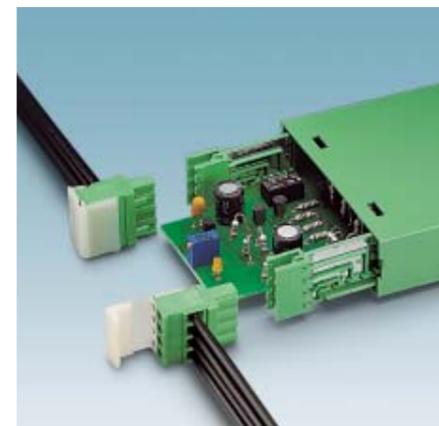
Mounting

EG beaker-type component housing is aligned by snapping it onto symmetrical DIN rails according to EN 60715. It is removed by drawing back the foot element.

Accommodating electronic components

According to requirements, EG component housing can be combined with different types of individual housing elements. The housing bases are available with or without a test opening on the front. Housing with a test opening offers the option of tuning or readjusting pre-assembled devices during function testing or operation, e.g., by means of internal potentiometers or jumper panels.

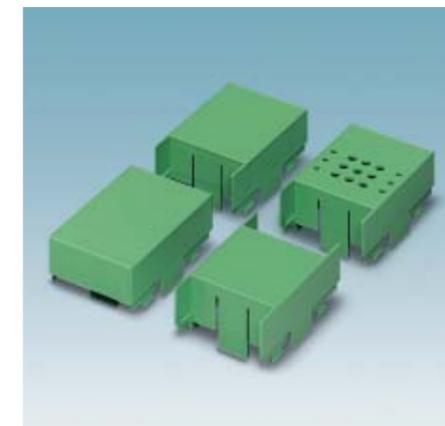
A number of PCB guides in the housing provide flexibility for accommodating complex electronic components.



The PCBs installed in EG component housing are rectangular.

Details of PCB dimensions and assembly areas, as well as their position in the housing can be found in the Download Center at www.phoenixcontact.net/products.

COMBICON headers with right-angled pin strip enable device designs with just one vertically inserted PCB with optimum use of space.



Covers

The covers, which are snapped onto the housing base, are either closed or have connection options on one or both sides. In addition, holes can be made in the front, e.g., for LEDs, potentiometer axes, etc. For this application, the cover offers the option of inserting a PCB underneath the holes.

Conductor connections

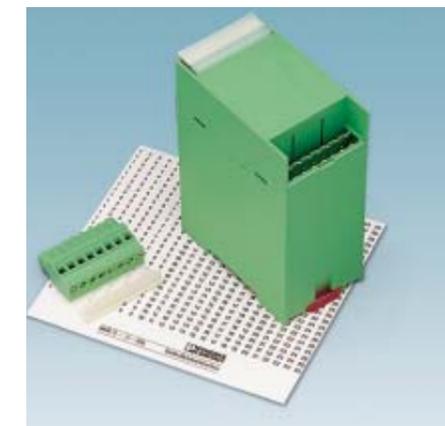
The connection elements fit the housing design perfectly and are available in the following versions:

- Sturdy 2.5 mm² screw connections in the form of the MKKDSH 3 PCB terminal block with 5 mm pitch
- Practical plug-in screw connection using COMBICON

The COMBICON connections are available in the following versions:

- COMBICON headers for use on horizontal or vertical PCBs
- COMBICON plugs with or without a hinged release aid

The connection elements can always be assembled together with the electronic components on the PCB and soldered together.



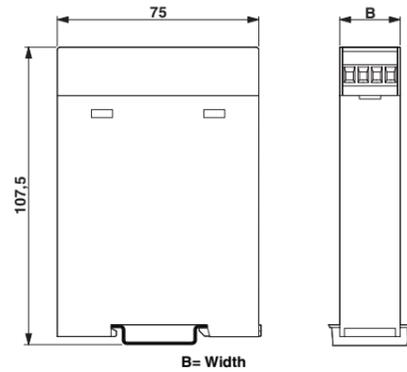
Marking

The connection terminal blocks are marked on the marking areas provided using standard and individually printed SK 5 marker strips. With larger orders, direct printing on the housing is also possible.

EG beaker-type component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
 Tightening torque of terminal block screws refer to page 854.
 Marking systems and mounting material See Catalog 5
 COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.
 1) For information on power dissipation, see page 770.
 2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



8-pos., width: 22.5 mm



16-pos., width: 45 mm



26-pos., width: 67.5 mm



34-pos., width: 90 mm

Technical data																					
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	EG 22,5-G/ABS GN 1.7 W - - - 2.7 W - - -																				
Mounted in rows without spacing																					
Mounted in rows with min. 20 mm spacing																					
Type of housing	Electronic housings																				
Connection data	Acryl butadiene styrene (ABS) / HB																				
	<table border="1"> <thead> <tr> <th>solid</th> <th>stranded</th> <th>AWG</th> <th>I [A]</th> <th>U [V]</th> </tr> </thead> <tbody> <tr> <td>0.2 - 4</td> <td>0.2 - 2.5</td> <td>24 - 12</td> <td>24²⁾</td> <td>250</td> </tr> <tr> <td>0.2 - 2.5</td> <td>0.2 - 2.5</td> <td>24 - 12</td> <td>12</td> <td>250</td> </tr> <tr> <td>0.2 - 2.5</td> <td>0.2 - 2.5</td> <td>24 - 12</td> <td>12</td> <td>250</td> </tr> </tbody> </table>	solid	stranded	AWG	I [A]	U [V]	0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾	250	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
solid	stranded	AWG	I [A]	U [V]																	
0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾	250																	
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250																	
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250																	

Ordering data						
Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Housing base, with snap-on foot				EG 22,5-G/ABS GN	2764043	10
Housing base, with snap-on foot and test opening with side cover				EG 22,5-GP/ABS GN	2764056	10
Housing cover, for connection on one side				EG 22,5-AE/ABS GN	2907046	25
Housing cover, for connection on both sides				EG 22,5-A/ABS GN	2764072	25
Housing cover, closed				EG 22,5-AG/ABS GN	2906636	10

Accessories			
COMBICON headers, with right-angled pin strip			
Right	MSTBO 2,5/ 4-GR-5,08	1847123	50
Left	MSTBO 2,5/ 4-GL-5,08	1850453	50
COMBICON headers	MSTBV 2,5/ 4-G	1753479	250
COMBICON plug	MVSTBW 2,5/ 4-ST	1792540	50
5.0 mm pitch			
			4
			8
			9
			13
			17
COMBICON plug	MVSTBW 2,5/ 4-ST-5,08	1792773	50
5.08 mm pitch			
			4
			8
COMBICON spring-cage plugs, with test connection, 5.0 mm pitch	FKCT 2,5/ 4-ST	1909236	50
COMBICON spring-cage plugs, with test connection, 5.08 mm pitch	FKCT 2,5/ 4-ST-5,08	1902136	50
COMBICON plug, with hinged release aid	MVSTBW 2,5/ 4-STEH	1784299	50
	MVSTBW 2,5/ 4-STEH-5,08	1851850	50
Coding section, for COMBICON headers, is inserted into the recess on the header	CR-MSTB	1734401	100
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material	CP-MSTB	1734634	100
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch			
2-pos.	MKKDSH 3/ 2	1721045	50
3-pos.	MKKDSH 3/ 3	1721346	50
8-pos.			

Technical data	
EG 45-G/ABS GN	3.4 W - - -
EG 45-GP/ABS GN	6.1 W - - -
EG 45-AE/ABS GN	
EG 45-A/ABS GN	
EG 45-AG/ABS GN	

Ordering data		
Type	Order No.	Pcs. / Pkt.
EG 45-G/ABS GN	2764140	10
EG 45-GP/ABS GN	2764153	10
EG 45-AE/ABS GN	2764409	10
EG 45-A/ABS GN	2764179	10
EG 45-AG/ABS GN	2907363	10

Accessories		
MSTBO 2,5/ 8-GR-5,08	1847165	50
MSTBO 2,5/ 8-GL-5,08	1850495	50
MSTBV 2,5/ 8-G	1753550	100
MVSTBW 2,5/ 8-ST	1792582	50
MVSTBW 2,5/ 8-ST-5,08	1792812	50
FKCT 2,5/ 8-ST	1909278	50
FKCT 2,5/ 8-ST-5,08	1902178	50
MVSTBW 2,5/ 8-STEH	1784309	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50

Technical data	
EG 67,5-G/ABS GN	5 W - - -
EG 67,5-GP/ABS GN	7.5 W - - -
EG 67,5-AE/ABS GN	
EG 67,5-A/ABS GN	
EG 67,5-AG/ABS GN	

Ordering data		
Type	Order No.	Pcs. / Pkt.
EG 67,5-G/ABS GN	2764292	5
EG 67,5-GP/ABS GN	2764302	5
EG 67,5-AE/ABS GN	2907347	10
EG 67,5-A/ABS GN	2764357	10
EG 67,5-AG/ABS GN	2907376	10

Accessories		
MSTBO 2,5/ 13-GR-5,08	1847165	50
MSTBO 2,5/ 13-GL-5,08	1850495	50
MSTBV 2,5/ 13-G	1753657	50
MVSTBW 2,5/ 13-ST	1792540	50
MVSTBW 2,5/ 13-ST-5,08	1792595	50
MVSTBW 2,5/ 13-ST	1792634	50
FKCT 2,5/ 13-ST	1909320	50
FKCT 2,5/ 13-ST-5,08	1902220	50
MVSTBW 2,5/ 13-STEH	1784299	50
MVSTBW 2,5/ 9-STEH	1763401	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50

Technical data	
EG 90-G/ABS GN	6 W - - -
EG 90-GP/ABS GN	9.1 W - - -
EG 90-AE/ABS GN	
EG 90-A/ABS GN	
EG 90-AG/ABS GN	

Ordering data		
Type	Order No.	Pcs. / Pkt.
EG 90-G/ABS GN	2764328	10
EG 90-GP/ABS GN	2764315	10
EG 90-AE/ABS GN	2907350	10
EG 90-A/ABS GN	2764399	10
EG 90-AG/ABS GN	2907389	10

Accessories		
MSTBO 2,5/ 17-GR-5,08	1847165	50
MSTBO 2,5/ 17-GL-5,08	1850495	50
MSTBV 2,5/ 17-G	1753738	50
MVSTBW 2,5/ 17-ST	1792582	50
MVSTBW 2,5/ 17-ST-5,08	1792595	50
MVSTBW 2,5/ 17-ST	1792676	50
FKCT 2,5/ 17-ST	1909362	50
FKCT 2,5/ 17-ST-5,08	1902262	50
MVSTBW 2,5/ 8-STEH	1784309	50
MVSTBW 2,5/ 9-STEH	1763401	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50

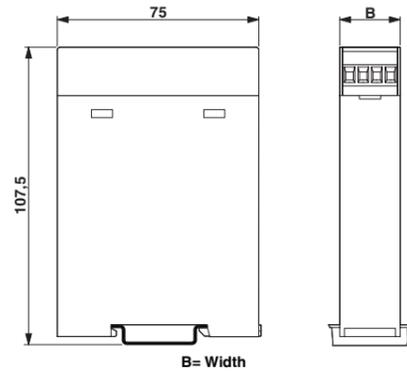
Basic housings for universal use

Basic housings for universal use

EG beaker-type component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
 Tightening torque of terminal block screws refer to page 854.
 Marking systems and mounting material See Catalog 5
 COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.
 1) For information on power dissipation, see page 770.
 2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



8-pos., width: 22.5 mm



16-pos., width: 45 mm



26-pos., width: 67.5 mm



34-pos., width: 90 mm

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	EG 22,5-GMF/PC GN	1.7 W	-	-	-
Mounted in rows without spacing	EG 22,5-GMF/PC GN	1.7 W	-	-	-
Mounted in rows with min. 20 mm spacing	EG 22,5-GMF/PC GN	2.7 W	-	-	-
Type of housing	polycarbonate / V0				
Electronic housings	polycarbonate / V0				
Connection data		solid	stranded	AWG	I [A]
MKKDS...		0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾
MSTBV...		0.2 - 2.5	0.2 - 2.5	24 - 12	12
FKCT...		0.2 - 2.5	0.2 - 2.5	24 - 12	12

Technical data					
EG 22,5-GMF/PC GN					
1.7 W - - -					
2.7 W - - -					
polycarbonate / V0					
	solid	stranded	AWG	I [A]	U [V]
	[mm ²]				
MKKDS...	0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾	250
MSTBV...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
FKCT...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Lower housing part, with metal foot catch						
Lower housing part, with metal foot catch				EG 22,5-GMF/PC GN	2764797	10
Housing base, with metal foot catch and test opening with side cover						
Housing base, with metal foot catch and test opening with side cover				EG 22,5-GMFP/PC GN	2764807	10
Housing cover						
Housing cover, for connection on one side				EG 22,5-AE/PC GN	2764810	10
Housing cover, for connection on both sides				EG 22,5-A/PC GN	2764823	10
Housing cover, closed				EG 22,5-AG/PC GN	2764836	25

Ordering data		
Type	Order No.	Pcs. / Pkt.
EG 22,5-GMF/PC GN	2764797	10
EG 22,5-GMFP/PC GN	2764807	10
EG 22,5-AE/PC GN	2764810	10
EG 22,5-A/PC GN	2764823	10
EG 22,5-AG/PC GN	2764836	25

Accessories						
COMBICON headers, with right-angled pin strip						
Right				MSTBO 2,5/ 4-GR-5,08	1847123	50
Left				MSTBO 2,5/ 4-GL-5,08	1850453	50
COMBICON headers						
COMBICON header				MSTBV 2,5/ 4-G	1753479	250
COMBICON plug						
5.0 mm pitch		4		MVSTBW 2,5/ 4-ST	1792540	50
		8				
		9				
		13				
		17				
COMBICON plug						
5.08 mm pitch		4		MVSTBW 2,5/ 4-ST-5,08	1792773	50
		8				
COMBICON spring-cage plugs, with test connection, 5.0 mm pitch						
COMBICON spring-cage plug, with test connection, 5.0 mm pitch				FKCT 2,5/ 4-ST	1909236	50
COMBICON spring-cage plugs, with test connection, 5.08 mm pitch						
COMBICON spring-cage plug, with test connection, 5.08 mm pitch				FKCT 2,5/ 4-ST-5,08	1902136	50
COMBICON plug, with hinged release aid						
COMBICON plug, with hinged release aid				MVSTBW 2,5/ 4-STEH	1784299	50
				MVSTBW 2,5/ 4-STEH-5,08	1851850	50
Coding section, for COMBICON headers, is inserted into the recess on the header						
Coding section, for COMBICON headers, is inserted into the recess on the header				CR-MSTB	1734401	100
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material						
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material				CP-MSTB	1734634	100
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch						
2-pos.				MKKDSH 3/ 2	1721045	50
3-pos.				MKKDSH 3/ 3	1721346	50
8-pos.						

Accessories		
Type	Order No.	Pcs. / Pkt.
MSTBO 2,5/ 4-GR-5,08	1847123	50
MSTBO 2,5/ 4-GL-5,08	1850453	50
MSTBV 2,5/ 4-G	1753479	250
MVSTBW 2,5/ 4-ST	1792540	50
MVSTBW 2,5/ 4-ST-5,08	1792773	50
FKCT 2,5/ 4-ST	1909236	50
FKCT 2,5/ 4-ST-5,08	1902136	50
MVSTBW 2,5/ 4-STEH	1784299	50
MVSTBW 2,5/ 4-STEH-5,08	1851850	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	EG 45-GMF/PC GN	3.4 W	-	-	-
Mounted in rows without spacing	EG 45-GMF/PC GN	3.4 W	-	-	-
Mounted in rows with min. 20 mm spacing	EG 45-GMF/PC GN	6.1 W	-	-	-
Type of housing	polycarbonate / V0				
Electronic housings	polycarbonate / V0				
Connection data		solid	stranded	AWG	I [A]
MKKDS...		0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾
MSTBV...		0.2 - 2.5	0.2 - 2.5	24 - 12	12
FKCT...		0.2 - 2.5	0.2 - 2.5	24 - 12	12

Technical data					
EG 45-GMF/PC GN					
3.4 W - - -					
6.1 W - - -					
polycarbonate / V0					
	solid	stranded	AWG	I [A]	U [V]
	[mm ²]				
MKKDS...	0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾	250
MSTBV...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
FKCT...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Lower housing part, with metal foot catch						
Lower housing part, with metal foot catch				EG 45-GMF/PC GN	2764849	10
Housing base, with metal foot catch and test opening with side cover						
Housing base, with metal foot catch and test opening with side cover				EG 45-GMFP/PC GN	2764852	10
Housing cover						
Housing cover, for connection on one side				EG 45-AE/PC GN	2764865	10
Housing cover, for connection on both sides				EG 45-A/PC GN	2764878	10
Housing cover, closed				EG 45-AG/PC GN	2764881	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
EG 45-GMF/PC GN	2764849	10
EG 45-GMFP/PC GN	2764852	10
EG 45-AE/PC GN	2764865	10
EG 45-A/PC GN	2764878	10
EG 45-AG/PC GN	2764881	10

Accessories						
COMBICON headers, with right-angled pin strip						
Right				MSTBO 2,5/ 8-GR-5,08	1847165	50
Left				MSTBO 2,5/ 8-GL-5,08	1850495	50
COMBICON headers						
COMBICON header				MSTBV 2,5/ 8-G	1753550	100
COMBICON plug						
5.0 mm pitch		4		MVSTBW 2,5/ 8-ST	1792582	50
		8				
		9				
		13				
		17				
COMBICON plug						
5.08 mm pitch		4		MVSTBW 2,5/ 8-ST-5,08	1792812	50
		8		FKCT 2,5/ 8-ST	1909278	50
COMBICON spring-cage plugs, with test connection, 5.0 mm pitch						
COMBICON spring-cage plug, with test connection, 5.0 mm pitch				FKCT 2,5/ 8-ST-5,08	1902178	50
COMBICON spring-cage plugs, with test connection, 5.08 mm pitch						
COMBICON spring-cage plug, with test connection, 5.08 mm pitch				MVSTBW 2,5/ 8-STEH	1784309	50
COMBICON plug, with hinged release aid						
COMBICON plug, with hinged release aid				MVSTBW 2,5/ 8-STEH	1784309	50
				MVSTBW 2,5/ 9-STEH	1763401	50
Coding section, for COMBICON headers, is inserted into the recess on the header						
Coding section, for COMBICON headers, is inserted into the recess on the header				CR-MSTB	1734401	100
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material						
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material				CP-MSTB	1734634	100
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch						
2-pos.				MKKDSH 3/ 2	1721045	50
3-pos.				MKKDSH 3/ 3	1721346	50
8-pos.				MKKDSH 3/ 8	1703283	50

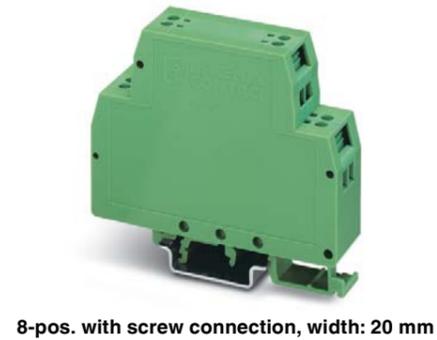
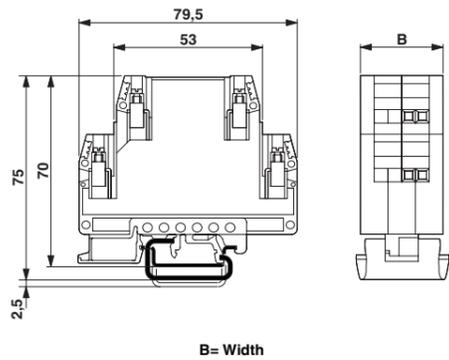
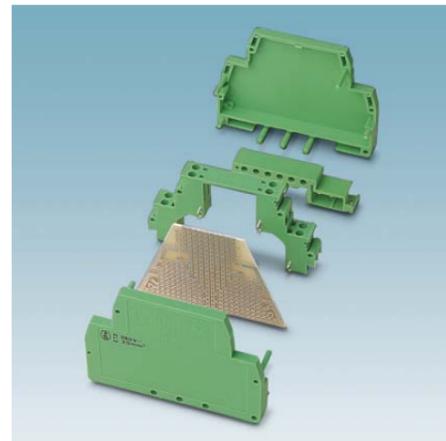
Ordering data		
Type	Order No.	Pcs. / Pkt.
EG 45-GMF/PC GN	2764849	10
EG 45-GMFP/PC GN	2764852	10
EG 45-AE/PC GN	2764865	10
EG 45-A/PC GN	2764878	10
EG 45-AG/PC GN	2764881	10

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	EG 90-GMF/PC GN	6 W	-	-	-
Mounted in rows without spacing	EG 90-GMF/PC GN	6 W	-	-	-
Mounted in rows with min. 20 mm spacing	EG 90-GMF/PC GN	9.1 W	-	-	-
Type of housing	polycarbonate / V0				
Electronic housings	polycarbonate / V0				
Connection data		solid	stranded	AWG	I [A]
MKKDS...		0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾
MSTBV...		0.2 - 2.5	0.2 - 2.5	24 - 12	12
FKCT...		0.2 - 2.5	0.2 - 2.5	24 - 12	12

Technical data					
EG 90-GMF/PC GN					
6 W - - -					
9.1 W - - -					
polycarbonate / V0					
	solid	stranded	AWG	I [A]	U [V]
	[mm ²]				
MKKDS...	0.2 - 4	0.2 - 2.5	24 - 12	24 ²⁾	250
MSTBV...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
FKCT...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data		
Type	Order No.	Pcs. / Pkt.
EG 90-GMF/PC GN	2764959	10
EG 90-GMFP/PC GN	2764962	10
EG 90-AE/PC GN	2764975	10
EG 90-A/PC GN	2764988	10
EG 90-AG/PC GN	2764991	10

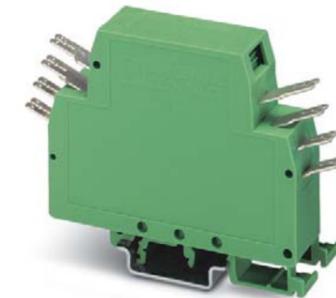
Universal component housing UEG



8-pos. with screw connection, width: 20 mm



8- and 16-pos. with screw connection, width: 30 mm



8-pos. with slotted 6.3/2.8 mm slip-on connection, width: 20 mm



8- and 16-pos. with slotted 6.3/2.8 mm slip-on connection, width: 30 mm

The universal UEG electronic housing can be supplied in two design widths with screw or slip-on connection.

Main features:

- Housing width of 20 mm or 30 mm
 - Up to 16 connections on two levels
 - Economical series production, since the base element and the assembled PCB are soldered by machine
 - Efficient assembly thanks to overlapping housing parts
 - Installation of one or two PCBs in the housing
 - Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- Universal P1-UEG... PCBs are available for laboratory samples and small series.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:

Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting material See Catalog 5

1) For information on power dissipation, see page 770.

2) The nominal voltage applies to fully insulated slip-on sleeves. Voltage and current values are affected by the configuration of the printed circuit board.

Power dissipation P_V at 20°C in horizontal mounting position¹⁾

Mounted in rows without spacing	4 W	-	-	-
Mounted in rows with min. 20 mm spacing	6 W	-	-	-

Type of housing
Electronic housings
Stripping length
Connection data

Description	Grid [mm]	No. of pos.	Width [mm]
Electronic housing, fully equipped with 4 screw or 4 slip-on connections per side, for one printed circuit board			
Electronic housing, fully equipped with 4 screw or 4 slip-on connections per side, for one printed circuit board			
Electronic housing, fully equipped with 8 screw or 8 slip-on connections per side, for two printed circuit boards			

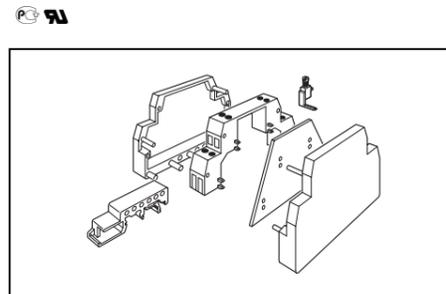
PCB, for custom fitting electronic components

Insulating sleeve, as shock protection for 6.3 mm slip-on sleeves; slide over the cable first
For 6.3 mm slip-on sleeves
For 2.8 mm slip-on sleeves

Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, black

Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, gray

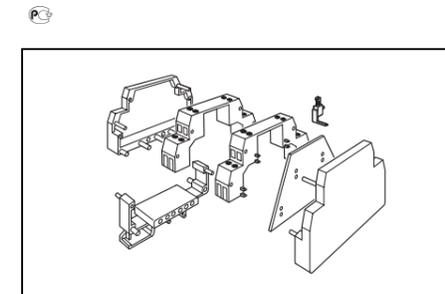
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks



Technical data					
UEG 20					
4 W	-	-	-	-	-
6 W	-	-	-	-	-
Polyamide (PA 6.6) / V0					
8 mm					
solid	stranded		I	U	
	[mm ²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	10	500	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEG 20	2790211	10	

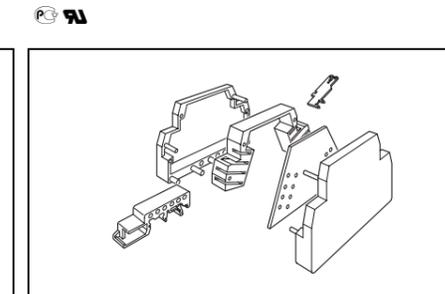
Accessories			
P 1-UEG	2790224	10	
DB 50- 90 BK	2820916	1	
DB 50- 90 GY	2820929	1	
ZB 5 :UNBEDRUCKT	1050004	10	



Technical data					
UEG 30/1 UEG 30/2					
4 W	4 W	-	-	-	-
7.2 W	7.2 W	-	-	-	-
Polyamide (PA 6.6) / V0					
8 mm					
solid	stranded		I	U	
	[mm ²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	10	500	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEG 30/1	2790871	10	
UEG 30/2	2790240	10	

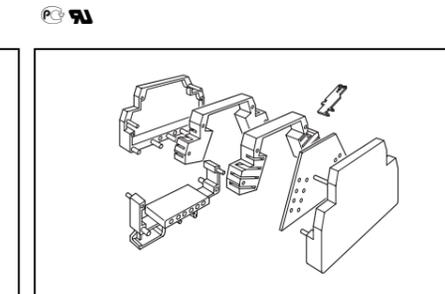
Accessories			
P 1-UEG	2790224	10	
DB 50- 90 BK	2820916	1	
DB 50- 90 GY	2820929	1	
ZB 5 :UNBEDRUCKT	1050004	10	



Technical data					
UEG 20-FS/FS					
4.8 W	-	-	-	-	-
8 W	-	-	-	-	-
Polyamide (PA 6.6) / V0					
8 mm					
solid	stranded		I	U	
	[mm ²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	10	500 ²⁾	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEG 20-FS/FS	2790266	10	
UEG 30/1-FS/FS	2790884	10	
UEG 30/2-FS/FS	2790279	10	

Accessories			
P 1-UEG-FS/FS	2790428	10	
PT/FS 6,3	0604707	500	
PT/FS 2,8	1406700	500	
ZB 5 :UNBEDRUCKT	1050004	10	



Technical data					
UEG 30/1-FS/FS UEG 30/2-FS/FS					
4.8 W	4.8 W	-	-	-	-
8 W	8 W	-	-	-	-
Polyamide (PA 6.6) / V0					
8 mm					
solid	stranded		I	U	
	[mm ²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	10	500 ²⁾	

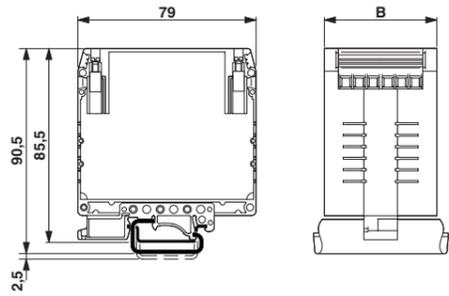
Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEG 30/1-FS/FS	2790884	10	
UEG 30/2-FS/FS	2790279	10	

Accessories			
P 1-UEG-FS/FS	2790428	10	
PT/FS 6,3	0604707	500	
PT/FS 2,8	1406700	500	
ZB 5 :UNBEDRUCKT	1050004	10	

Basic housings for universal use

Basic housings for universal use

Universal component housing UEGM



B= Width



6-pos. with screw connection, width: 22.5 mm, 25 mm, and 27.5 mm



6- and 12-pos. with screw connection, width: 40 mm



12-pos. with slotted 6.3/2.8 mm slip-on connection, width: 22.5 mm and 25 mm



12- and 24-pos. with slotted 6.3/2.8 mm slip-on connection, width: 40 mm

The UEGM electronic housings supplement the UEG range and offer an enlarged internal area.

Main features:

- Four housing widths from 22.5 mm to 40 mm
- Choice of screw connections and/or slip-on connections
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- Economical series production, since the base element and the assembled PCB are soldered by machine
- Efficient assembly thanks to overlapping housing parts
- Complex electronic circuits can be integrated, with up to 24 connections on two levels
- A P1-UEGM PCB is available for laboratory samples and small series.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:

Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting material See Catalog 5

1) For information on power dissipation, see page 770.

2) The nominal voltage applies to fully insulated slip-on sleeves. Voltage and current values are affected by the configuration of the printed circuit board.

Power dissipation P_V at 20°C in horizontal mounting position¹⁾

Mounted in rows without spacing	Mounted in rows with min. 20 mm spacing
Type of housing	Electronic housings
Stripping length	8 mm
Connection data	

Description	Grid [mm]	No. of pos.	Width [mm]
Electronic housing , fully equipped with 3 screw or 6 slip-on connections per side, for one printed circuit board			
22.5 mm wide			
Electronic housing , fully equipped with 3 screw or 6 slip-on connections per side, for one printed circuit board			
25 mm wide			
27.5 mm wide			
Electronic housing , fully equipped with 3 screw or 6 slip-on connections per side, for one printed circuit board			
40 mm wide			
Electronic housing , fully equipped with 6 screw or 12 slip-on connections per side, for two printed circuit boards			
40 mm wide			

PCB, for custom fitting electronic components

Insulating sleeve, as shock protection for 6.3 mm slip-on sleeves; slide over the cable first

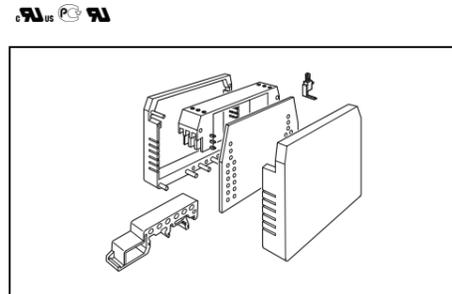
For 6.3 mm slip-on sleeves

For 2.8 mm slip-on sleeves

Metal for slip-on connection, to increase the number of positions

Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, black

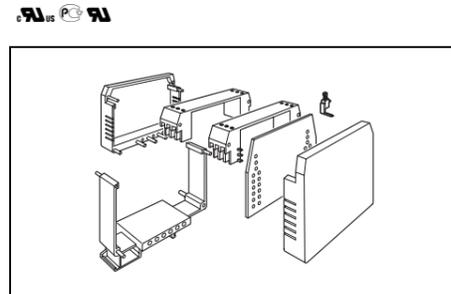
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, gray



Technical data				
UEGM 22,5	UEGM 25			
4 W	4 W	-	-	
10 W	10 W	-	-	
Polyamide (PA 6.6) / V0				
8 mm				
solid	stranded		I	U
	[mm ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEGM 22,5	2792002	10	
UEGM 25	2792015	10	
UEGM 27,5-SMD	2757063	10	

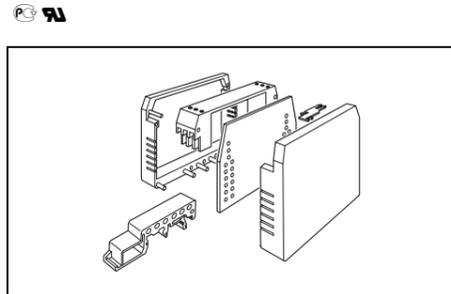
Accessories			
Type	Order No.	Pcs. / Pkt.	
P 1-UEGM	2792109	10	
PT/FS 6,3	0604707	500	
PT/FS 2,8	1406700	500	
UEG-MT-FS	2790389	100	
DB 50- 90 BK	2820916	1	
DB 50- 90 GY	2820929	1	



Technical data				
UEGM 40/1	UEGM 40/2			
5.2 W	5.2 W	-	-	
11.2 W	11.2 W	-	-	
Polyamide (PA 6.6) / V0				
8 mm				
solid	stranded		I	U
	[mm ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEGM 40/1	2792112	10	
UEGM 40/2	2792028	10	

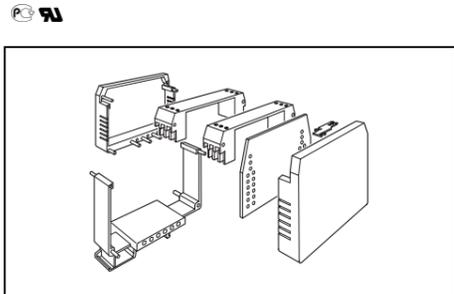
Accessories			
Type	Order No.	Pcs. / Pkt.	
P 1-UEGM	2792109	10	
PT/FS 6,3	0604707	500	
PT/FS 2,8	1406700	500	
UEG-MT-FS	2790389	100	
DB 50- 90 BK	2820916	1	
DB 50- 90 GY	2820929	1	



Technical data				
UEGM 22,5-FS/FS	UEGM 25-FS/FS			
4 W	4 W	-	-	
10 W	10 W	-	-	
Polyamide (PA 6.6) / V0				
-				
solid	stranded		I	U
	[mm ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500 ²⁾

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEGM 22,5-FS/FS	2792073	10	
UEGM 25-FS/FS	2792086	10	
UEGM 40/1-FS/FS	2792125	10	
UEGM 40/2-FS/FS	2792099	10	

Accessories			
Type	Order No.	Pcs. / Pkt.	
P 1-UEGM	2792109	10	
PT/FS 6,3	0604707	500	
PT/FS 2,8	1406700	500	

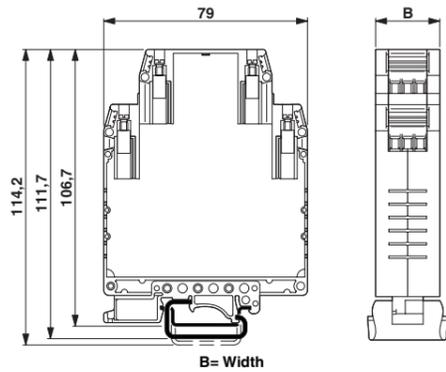
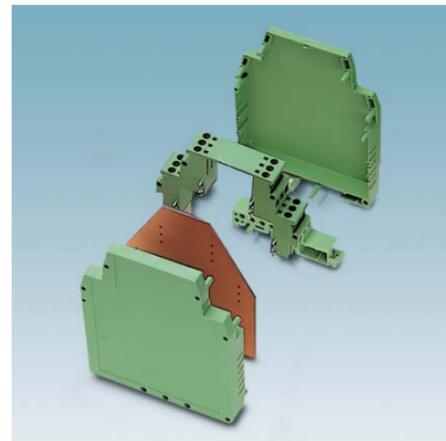


Technical data				
UEGM 40/1-FS/FS	UEGM 40/2-FS/FS			
5.2 W	5.2 W	-	-	
11.2 W	11.2 W	-	-	
Polyamide (PA 6.6) / V0				
-				
solid	stranded		I	U
	[mm ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500 ²⁾

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEGM 40/1-FS/FS	2792125	10	
UEGM 40/2-FS/FS	2792099	10	

Accessories			
Type	Order No.	Pcs. / Pkt.	
P 1-UEGM	2792109	10	
PT/FS 6,3	0604707	500	
PT/FS 2,8	1406700	500	

Universal component housing UEGH



12-pos. with screw connection, widths: 22.5 mm, 25 mm, and 27.5 mm



Technical data				
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	UEGH 22,5	UEGH 25	UEGH 27,5-SMD	
Mounted in rows without spacing	4.6 W	4.8 W	5 W	-
Mounted in rows with min. 20 mm spacing	6.7 W	7.2 W	7.5 W	-
Type of housing	Electronic housings			
Stripping length	8 mm			
Connection data	Polyamide (PA 6.6) / V0			
	solid	stranded	AWG	I [A] U [V]
	[mm ²]			
	0.2 - 4	0.2 - 2.5	24 - 12	10 500

Ordering data						
Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic double-level housing , fully equipped with 6 screw connections per side, for one PCB	5	12	22.5	UEGH 22,5	2757102	10
	5	12	25	UEGH 25	2757115	10
Electronic double-level housing , fully equipped with 6 screw connections per side, for one printed circuit board, with a wider side element for equipping the PCB with SMD components	5	12	27.5	UEGH 27,5-SMD	2757128	10
Electronic double-level housing , fully equipped with 6 screw connections per side, for one PCB	5	12	40			
Electronic double-level housing , fully equipped with 12 screw connections per side, for two PCBs	5	24	40			
Electronic double-level housing , 6 screw connections per side, with a wider side element for equipping the PCB with SMD components	5	12	42.5			
Electronic double-level housing , fully equipped with 12 screw connections per side, for two printed circuit boards, with a wider side element for equipping the PCB with SMD components	5	24	42.5			
Electronic double-level housing , fully equipped with 12 screw connections per side, for two printed circuit boards, for mounting two 7.5 mm side elements	5	24	45			

Accessories			
PCB , for custom fitting electronic components	P 1-UEGH	2757335	10
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm ² , insulation, black	DB 50- 90 BK	2820916	1
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm ² , insulation, gray	DB 50- 90 GY	2820929	1
Metal for slip-on connection , to increase the number of positions	UEG-MT-FS	2790389	100
Zack marker strip, 10-section, unprinted : pack contains enough to label 100 terminal blocks	ZB 5 :UNBEDRUCKT	1050004	10



12- and 24-pos. with screw connection, widths: 40 mm, 42.5 mm, and 45 mm



Technical data				
Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	UEGH 40/1	UEGH 40/2	UEGH 42,5/1-SMD	UEGH 45/2-SMD
Mounted in rows without spacing	6.1 W	6.1 W	6.3 W	6.5 W
Mounted in rows with min. 20 mm spacing	9.1 W	9.1 W	9.5 W	9.8 W
Type of housing	Electronic housings			
Stripping length	8 mm			
Connection data	Polyamide (PA 6.6) / V0			
	solid	stranded	AWG	I [A] U [V]
	[mm ²]			
	0.2 - 4	0.2 - 2.5	24 - 12	10 500

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UEGH 40/1	2757144	10	
UEGH 40/2	2757131	10	
UEGH 42,5/1-SMD	2757157	10	
UEGH 42,5/2-SMD	2757160	10	
UEGH 45/2-SMD	2757173	10	

Accessories			
PCB , for custom fitting electronic components	P 1-UEGH	2757335	10
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm ² , insulation, black	DB 50- 90 BK	2820916	1
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm ² , insulation, gray	DB 50- 90 GY	2820929	1
Metal for slip-on connection , to increase the number of positions	UEG-MT-FS	2790389	100
Zack marker strip, 10-section, unprinted : pack contains enough to label 100 terminal blocks	ZB 5 :UNBEDRUCKT	1050004	10

The UEGH double-level electronic housing offers double connection options for extensive electronic circuits.

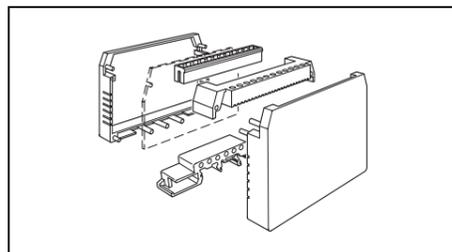
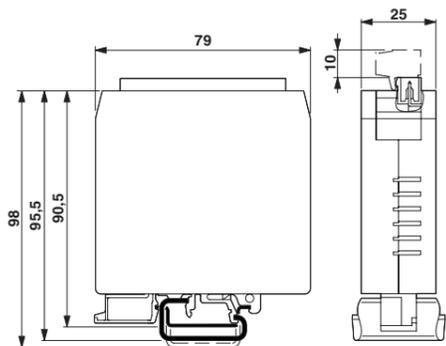
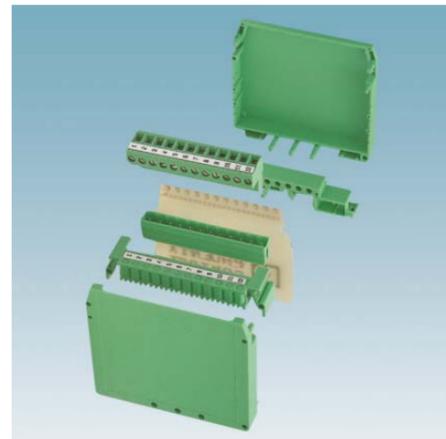
Main features:

- Six housing widths from 22.5 mm to 45 mm
- 12 or 24 screw connections available
- Increased number of positions thanks to optional UEGM-MT FS slip-on connections
- Can accommodate up to two PCBs
- UEGH...-SMD versions offer space for PCBs equipped with SMDs on both sides
- Efficient assembly thanks to overlapping housing parts
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- A P1-UEGH PCB is available for laboratory samples and small series.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
¹⁾ For information on power dissipation, see page 770.

Universal component housing
UEGM-MSTB



The UEGM-MSTB electronic housing supplements the UEG range by offering an additional pluggable version

Main features:

- The integrated pin strip makes it possible to use 2- to 12-pos. COMBICON connectors
- Integration of 3 mm LEDs (max. leg length of 29 mm)
- LED cutouts that are not required can be closed with UEGM MSTB-BS filler plugs
- Plug-in connection can be keyed to prevent incorrect polarity using CP-MSTB/CR-MSTB
- Efficient assembly thanks to overlapping housing parts
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- The MSTB-BL keying tab can be used to cover individual contact pins in order to form sections on the pin strip.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Power dissipation P _V at 20°C in horizontal mounting position ¹⁾	Mounted in rows without spacing	Mounted in rows with min. 20 mm spacing
Type of housing	Electronic housings	
Connection data	MSTBT 2,5/...	

Technical data				
UEGM-MSTB				
4 W	-	-	-	-
10 W	-	-	-	-
Polyamide (PA 6.6) / V0				
	solid	stranded	AWG	I U
	[mm ²]		[A]	[V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12 ²⁾ 250

Description	Grid [mm]	No. of pos.	Width [mm]
Electronic housings , with 12-position COMBICON pin strip, can be additionally equipped with 3 mm LED light indicator		12	25
COMBICON connector	5.08	12	

Ordering data		
Type	Order No.	Pcs. / Pkt.
UEGM-MSTB	2781453	10
MSTBT 2,5/12-ST-5,08	1781085	50

Accessories		
Keying tab , for MSTB headers, for dividing headers, plugged onto the header pin, made from green insulation material		
Cover cap , for closing LED cutouts which are not required		
Coding profile , for COMBICON headers, is inserted into the slot on the plug, red insulating material	1	
Coding section , for COMBICON headers, is inserted into the recess on the header		
Marker pen, not refillable , for manual labeling, line thickness 0.5 mm	1	
Zack marker strip, 10-section, unprinted : pack contains enough to label 100 terminal blocks		

Accessories		
Type	Order No.	Pcs. / Pkt.
MSTB-BL	1755477	100
UEGM-MSTB-BS	2781466	60
CP-MSTB	1734634	100
CR-MSTB	1734401	100
B-STIFT	1051993	10
ZB 5 :UNBEDRUCKT	1050004	10

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.
Voltage and current values are affected by the configuration of the printed circuit board.
¹⁾ For information on power dissipation, see page 770.
²⁾ Please observe the derating curves. Derating curves of further combination options on request.

Housing multifunction



With lots of installation space, a simple PCB contour, and robust design, these housing ranges provide ample space for large components and PCBs.



ME-PLC housing range

- Your advantages at a glance:
- Hard soldered or plug-in PCB connection technology
 - Removable tray for convenience when plugging in and removing connection technology
 - Optional with DIN rail connector
 - Hinged cover for uniform front panel
 - Robust DIN rail, 105 mm wide



CM housing range

- Your advantages at a glance:
- Robust housing type
 - Receptacle housing with vents
 - A variety of cover designs
 - Housing designs for wall mounting
 - Individual housing concepts for flexibility where PCB connection technology is concerned



UEG-EU housing

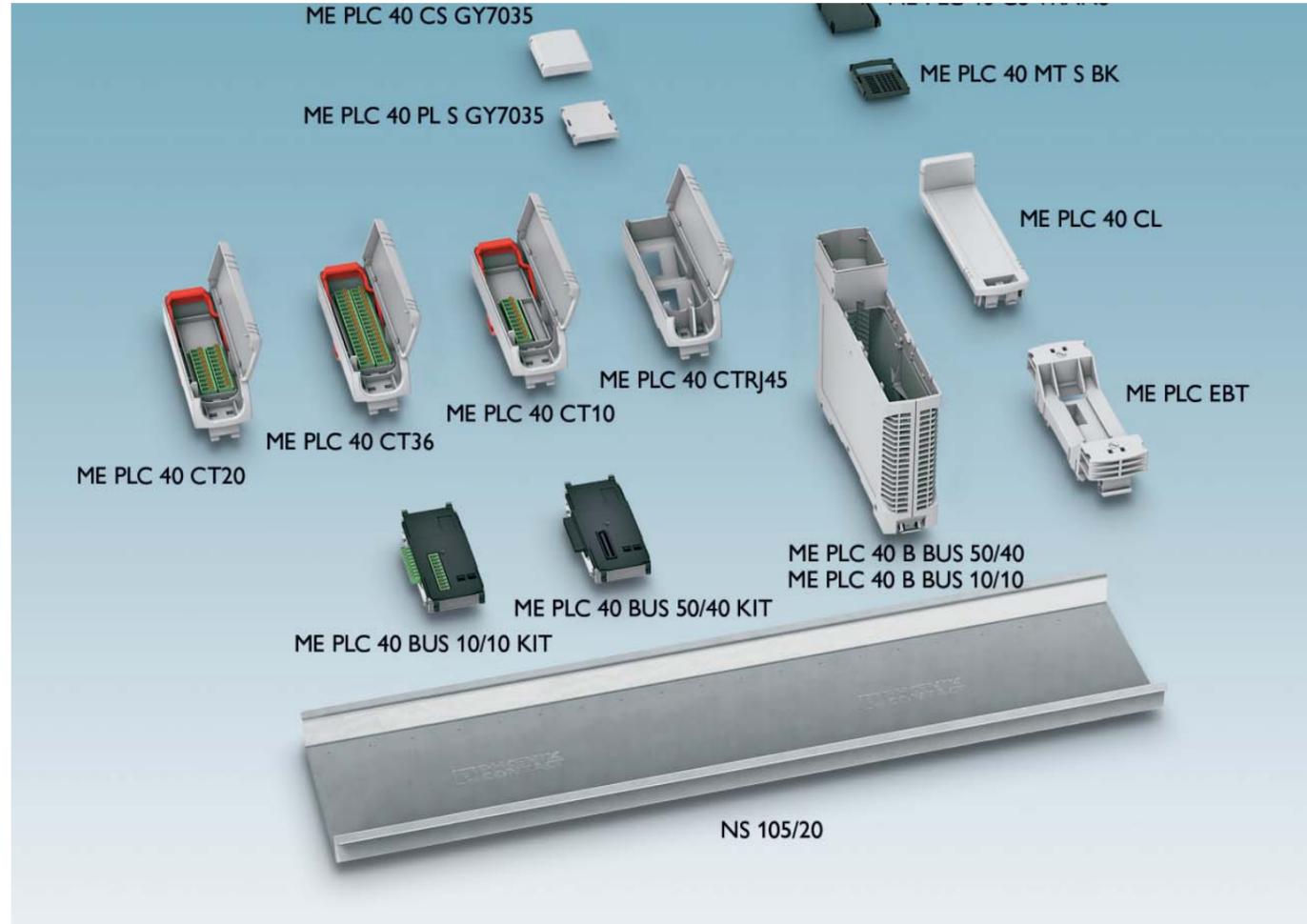
- Your advantages at a glance:
- For European-format cards (160 x 100 mm)
 - Direct fastening of PCB with secure screw connection
 - Frame design concept for convenient expansion of installation space
 - Individual housing concepts for flexibility where PCB connection technology is concerned



EFG housing

- Your advantages at a glance:
- Half-shell design with fitted cover in three parts
 - PCBs fitted with SMDs on both sides can be integrated
 - Secure screw connection between housing and PCB
 - Individual housing concepts for flexibility where PCB connection technology is concerned

ME PLC



The ME PLC consists of a housing base with a design width of 40 mm that can be combined with various plug-in connection technology modules. The connection technology modules are supplied fully pre-assembled with FKCN 2,5... plug-in connectors. These plug-in connectors provide a quick push-in spring-cage connection for conductor cross sections of up to 2.5 mm².

A universal cover for fixed wiring or indicators and operating elements can also be snapped on with very little effort.

The ME-PLC housing can also be combined with DIN rail connectors. 2 versions of the bus connector are available: 50-pos. in the DIN rail and 40-pos. in the device or 10-pos. in the DIN rail and 10-pos. in the device.

Both bus connector versions are supplied as a mounting kit, i.e., without PCB and unmounted. This means that individual and application-specific PCB designs can be integrated easily.

Together with a large PCB assembly area, this housing system offers a high level of functionality for a wide range of applications.

The wide DIN rail ensures a secure hold.

Order key for DIN rail NS 105/20:

Quantity	Order No.	Length [mm]
1	2201508	40
		Min. 40 mm
		Max. 2000 mm

ME-PLC



Notes:
 1) Data sheets for the plug-in connectors are available from www.phoenixcontact.net/products



Ordering data			
Description	Grid [mm]	No. of pos.	Width [mm]
Housing base , suitable for 50/40 bus connector, color: light gray			
Housing base , suitable for 10/10 bus connector, color: light gray			
Universal cover , long design, color: light gray			
Connection technology carrier , fully assembled with FKCN 2 x 10-pos., cover and release lever, incl. fitted cover; corresponding header: 1 x CCDN 2,5/10-G1 P26 THR (1734355)			
Connection technology carrier , fully assembled with FKCN 2 x 18-pos., cover and release lever, incl. fitted cover; corresponding header: 1 x CCDN 2,5/18-G1 P26 THR (1734436)			
Connection technology carrier , fully assembled with FKCN 1 x 10-pos., cover and release lever, incl. fitted cover; corresponding header: MSTBA 2,5/10-G (1757543)			
Connection technology carrier for RJ45 connection , pre-assembled with cover and release lever; incl. fitted cover and 2 x RJ45 connector plugs			
Accessories			
Cover , short design, color: light gray			
Cover , short design, color: transparent			
Fitted plate , for assembly underneath the cover in short design, color: light gray			
Matrix with defined engagement mechanism , for assembly underneath the cover in short design, color: black			
Bus connector set consisting of 50-pos. and 40-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB ¹⁾			
Bus connector set consisting of 2 x 10-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB ¹⁾			
End brackets for DIN rail mounting , incl. mounting screws			
DIN rail , unperforated, 105 x 20 mm, galvanized and thick layer passivated, cut to customer-specific length, specify length in [mm] as per order key			
Type	Order No.	Pcs. / Pkt.	
ME PLC 40 B BUS 50/40 GY7035	2201500	10	
ME PLC 40 B BUS 10/10 GY7035	2201499	10	
ME PLC 40 CL GY7035	2201505	10	
ME PLC 40 CT20 GY7035	2201493	10	
ME PLC 40 CT36 GY7035	2201494	10	
ME PLC 40 CT10 GY7035	2201492	10	
ME PLC 40 CTRJ45 GY7035	2201495	10	
ME PLC 40 CS GY7035	2201490	10	
ME PLC 40 CS TRANS	2201491	10	
ME PLC 40 PL S GY7035	2201497	10	
ME PLC 40 MT S BK	2201496	10	
ME PLC 40 BUS 50/40 KIT BK	2201502	10	
ME PLC 40 BUS 10/10 KIT BK	2201503	10	
ME PLC EBT GY7035	2201498	10	
NS 105/20 UNPERF	2201508	1	



CM compact component housing

CM component housing is a comprehensive housing range for designing industrial power electronics to suit control cabinet requirements. The different housing versions make it possible to integrate not only power electronics in the housing, but also standard transformer types with L-shaped cores.

Common features of all CM housing:

- Robust housing technology
- Individual accommodation of electronic components in various module versions with 50 to 200 mm pitch
- Flexible accommodation of different connection elements (from high-position plug-in connectors to electronic PCBs)
- Shock and contamination-proof accommodation of electronic components
- Easy snap-on mounting on symmetrical DIN rails according to EN 60715

Construction principle

The exploded view shows the construction principle of CM housing. The assembled PCB can be inserted in the different guide slots in the housing base. The covering hood is then simply snapped into the housing base.

It is also possible to screw the covering hood and the housing base together.



Accommodating electronic components

The various housing versions enable optimum adaptation to the required PCB area and the required connection technology.

For mounting transformers, spacing bolts are provided in the larger housing versions, onto which the transformers can be screwed.

The PCB is rectangular. **Details of PCB dimensions and assembly areas can be found in the Download Center at www.phoenixcontact.com.**

Housing technology

The covering hoods for CM 175 with a design height of 35 mm and CM 200 with a design height of 55 mm are always provided with vents. CM housing is designed to accommodate PCBs, which can be used as bus PCBs, for example, in the bottom of the housing.

Individual housing parts that differ from the standard range are available on request.

Mounting

All CM housing is aligned by simply snapping it onto symmetrical DIN rails according to EN 60715. It can be removed by drawing back the orange engagement latch.

There is also the option of using mounting feet instead of DIN rails. The corresponding spacer elements are included with CM 125 - 200 housing.

Conductor connections

CM electronics housing is supplied without recesses for connection elements.

It is therefore possible to make the appropriate recesses in the housing to suit the requirements of the relevant electronic component and connection element. These recesses can be produced in the factory on request.

- Standard (with vents)
- On request

Covering hoods

Types

CM housing	Type Design width [mm]	Covering hoods				Types				
		12.5 mm	30 mm	35 mm	55 mm	With vents and spacing bolts	Without vents, with spacing bolts	With vents, without spacing bolts	Without vents, without spacing bolts	With vents, spacing bolts, and device holder
CM 50 50 mm		●	●					●	○	
CM 62 62 mm				●		○	○	●	○	
CM 75 75 mm		●		●		○		●		
CM 90 90 mm		●				○	○	●	○	
CM 125 125 mm		●		●		●	○	●	○	●
CM 175 175 mm				●		●	○			●
CM 200 200 mm					●	●	○			●

Multifunctional housings for complex electronics

Multifunctional housings for complex electronics

CM compact component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
1) For information on power dissipation, see page 770.



Design widths: 50 and 75 mm



Design widths: 62 and 90 mm



Design width: 125 mm



Design width: 175 mm



Design width: 200 mm

Power dissipation P _V at 20°C in horizontal mounting position ¹⁾
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings

Technical data			
CM 50-LG/H 12,5/BO BK	CM 50-LG/H 30/BO BK	CM 75-LG/H 12,5/BO BK	CM 75-LG/H 35/BO BK
25 W	26.8 W	31.7 W	40.3 W
38.3 W	39 W	41.2 W	52.5 W
Polycarbonate fiber reinforced / V0			

Technical data			
CM 90-LG/H 12,5/BO BK	CM 62-LG/H 35/BO BK	-	-
37 W	20.8 W	-	-
48.1 W	24.4 W	-	-
Polycarbonate fiber reinforced / V0			

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Electronic module , for PCB insertion with covering hood 12.5 mm high			
Vents	CM 50-LG/H 12,5/BO BK	2943592	5
Vents	CM 75-LG/H 12,5/BO BK	2943602	5
Plus spacer pins			
Electronic module , for PCB insertion, with covering hood 30 mm high			
Vents	CM 50-LG/H 30/BO BK	2942878	5
Electronic module , for PCB insertion, with covering hood 35 mm high			
Vents	CM 75-LG/H 35/BO BK	2942881	5
Plus spacer pins			
Plus device holder			
Electronic module , for PCB insertion, with covering hood 55 mm high			
Plus device holder			

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
	CM 90-LG/H 12,5/BO BK	2944876	4
	CM 62-LG/H 35/BO BK	2944863	5

Technical data			
CM125-LG/H 12,5/BO BK	CM125-LG/H 35/BO/DB/GH BK	-	-
69 W	84.4 W	-	-
89.7 W	109.7 W	-	-
Polycarbonate fiber reinforced / V0			

Technical data			
CM175-LG/H 35/BO/DB/GH BK	-	-	-
120 W	-	-	-
160 W	-	-	-
Polycarbonate fiber reinforced / V0			

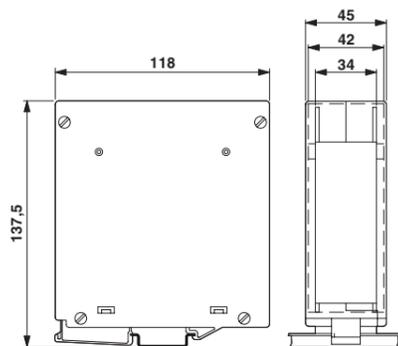
Technical data			
CM200-LG/H 55/BO/DB/GH BK	-	-	-
160 W	-	-	-
200 W	-	-	-
Polycarbonate fiber reinforced / V0			

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
	CM125-LG/H 12,5/BO BK	2942894	5
	CM125-LG/H 12,5/BO/DB BK	2943055	5
	CM125-LG/H 35/BO BK	2942904	5
	CM125-LG/H 35/BO/DB BK	2941691	5
	CM125-LG/H 35/BO/DB/GH BK	2941840	5

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
	CM175-LG/H 35/BO/DB/GH BK	2941507	5

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
	CM200-LG/H 55/BO/DB/GH BK	2941853	1

EFG single component housing



Any number of positions, width: 45 mm



Technical data

Power dissipation P _v at 20°C in horizontal mounting position ²⁾	EFG 45-LG/BS GY	9.5 W	-	-	-
Mounted in rows without spacing		11.5 W	-	-	-
Mounted in rows with min. 20 mm spacing					
Type of housing	polycarbonate / V0				
Electronic housings	solid				
Connection data		stranded	AWG	I [A]	U [V]
FRONT 2,5-H/ ...	0.2 - 2.5	0.2 - 2.5	24 - 14	24 ³⁾	250 ¹⁾

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Electronic housing, for insertion of two printed circuit boards	EFG 45-LG/BS GY	2757474	5
Without screw connection terminal blocks			

Accessories

Description	Type	Order No.	Pcs. / Pkt.
PCB and COMBICON termination blocks, color: Green	FRONT 2,5-H/SA 5	1700008	50

The EFG 45 housing consists of two half shells and a set of three front plates. The front plate insert can be processed and printed cost-effectively.

Two PCBs with components on both sides can be integrated into the EFG 45 housing. A distance of 4.0 mm is available between the PCB and the inner side of the housing in order to be able to also use PCBs equipped with SMD on both sides. Complex functions can be implemented on a PCB surface of 112 x 115 mm.

The electronics assembly in the housing is significantly simplified by the half shell design and the front plate insert. The PCBs and the housing are screwed into place. This makes them highly stable.

The EFG 45 housing is snap-locked onto the symmetrical DIN rail in acc. with EN 60715.

Details of PCB layout, dimensions, and assembly areas can be found in the download center at www.phoenixcontact.net/products.

Notes:
Tightening torque of terminal block screws refer to page 854.
¹⁾ 400 V is achieved when the pitch spacer RZ 2,5-FRONT 2,5-H(V) is inserted.
²⁾ For information on power dissipation, see page 770.
³⁾ Current carrying capacity curve upon request.

Universal component housing UEG-EU



The rail-mountable UEG-EU component housing accepts European-format cards (160 x 100 mm).

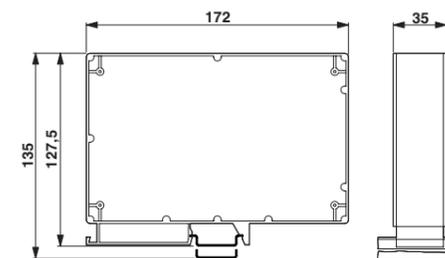
Main features:

- Direct mounting of the PCB on the UEG-EU BE base element with B 2.2 x 9.5 DIN ISO 1481 sheet-metal screws
- Individual UEG-EU-BE base elements can be added in a row to extend the installation space
- UEG-EU-VS connection pins ensure the necessary stability
- Snap-in mounting on commercially available EN DIN rails
- We will be happy to provide custom cut-outs in the base element for connection elements

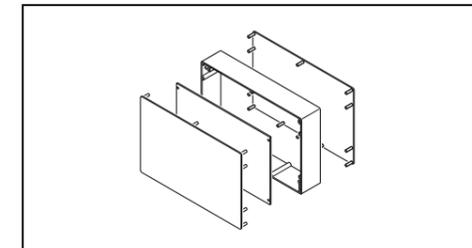
In order to install PCBs with tall components, it is possible to mount several individual base elements in rows. Engaging metal pins ensures the necessary stability.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
¹⁾ For information on power dissipation, see page 770.



Any number of positions, for European-format cards, width: 35 mm



Technical data

Power dissipation P _v at 20°C in horizontal mounting position ¹⁾	UEG-EU-BE	8.9 W	-	-	-
Mounted in rows without spacing		18.3 W	-	-	-
Mounted in rows with min. 20 mm spacing					
Type of housing	Polyamide fiber reinforced / HB				
Electronic housings					

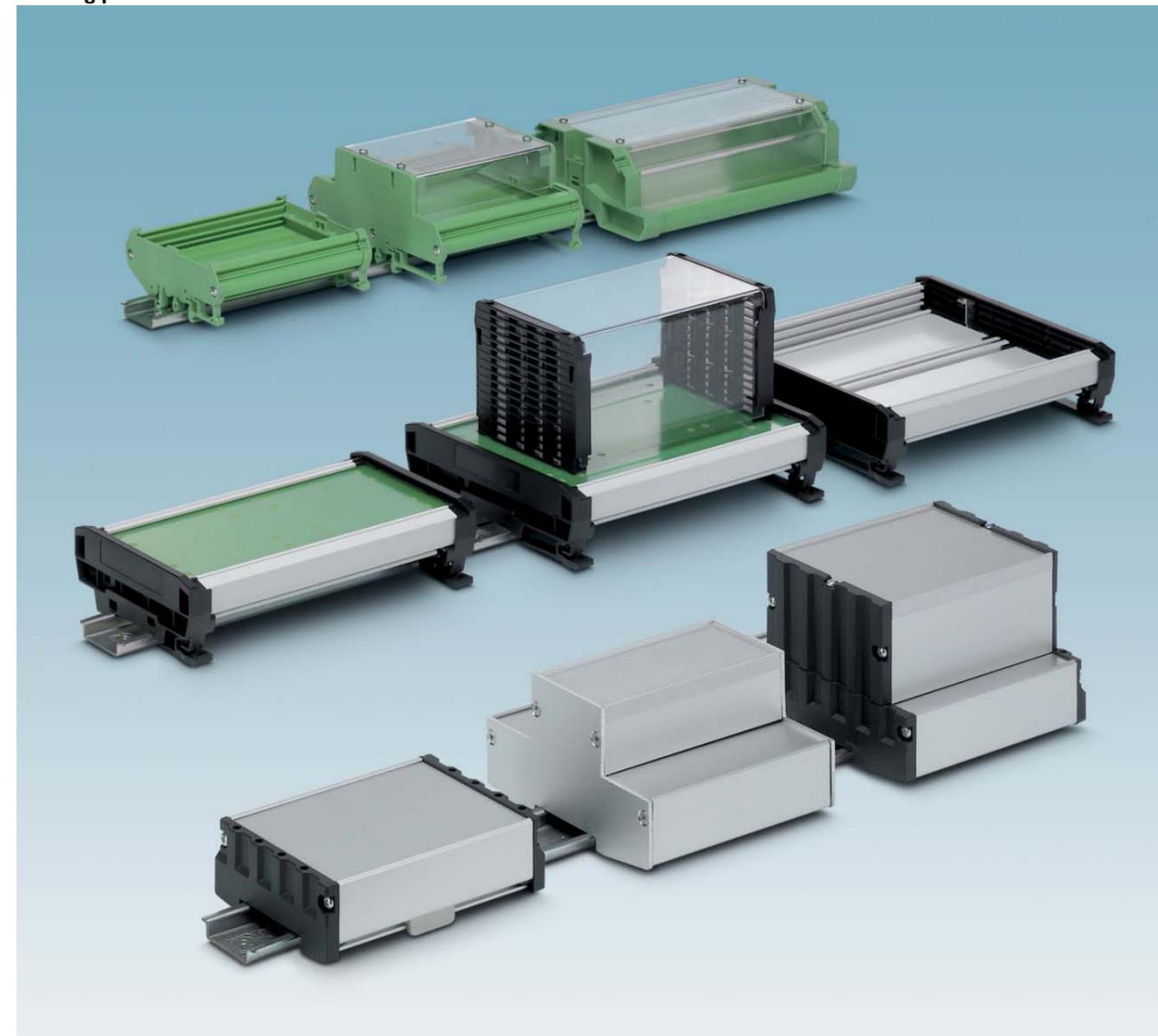
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising: base element with snap-on foot, for mounting on NS 35 DIN rails, 35 mm wide	UEG-EU-BE	2956819	5
Side element, two pieces required, for closing the base element on both sides, 1.5 mm thick	UEG-EU-SE	2956822	5

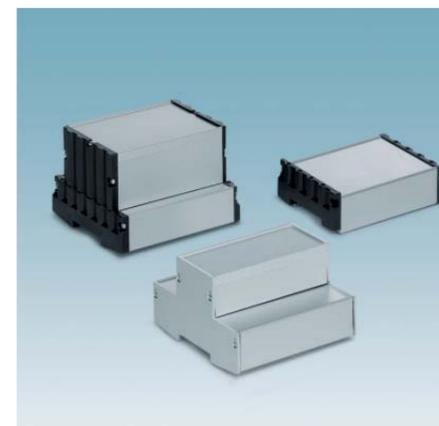
Accessories

Description	Type	Order No.	Pcs. / Pkt.
Connection pin, for engaging several base elements to form one unit; 12 necessary per element, brass	UEG-EU-VS	5028883	100

Housing profile



The profile housings offer maximum flexibility. Cut to length to the centimeter, made from plastic and metal, and featuring covering hoods, these housing ranges can be customized for individual device concepts.



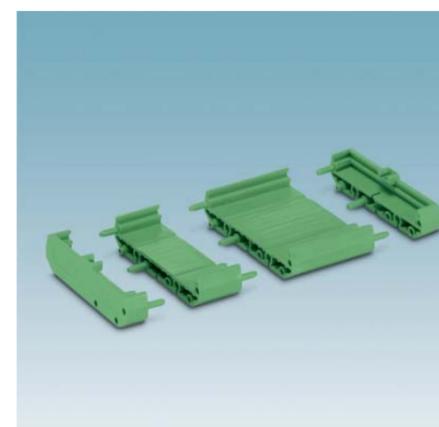
- UM-ALU housing range**
Your advantages at a glance:
- Material: aluminum
 - Profile housing can be screwed together with side sections
 - Basic profile width 72 mm or 100.5 mm
 - Individual profile length
 - Selection of cover profiles
 - Optional PE contacting
 - Freely selectable connection technology



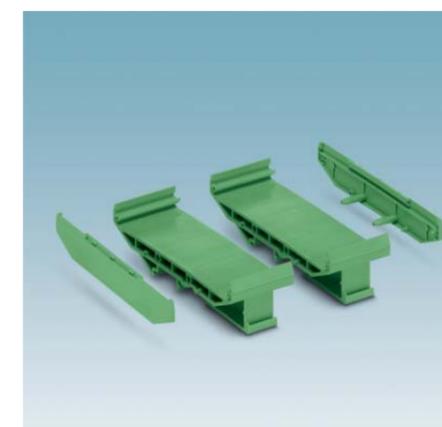
- UM-PRO and UM-Basic housing range**
Your advantages at a glance:
- Material: plastic polyamide (UM-PRO) and PVC (UM-Basic)
 - Profile housing can be snapped together with side sections
 - Basic profile width: 72; 108, and 122 mm
 - Individual profile length



- UM profiles housing range**
Your advantages at a glance:
- Material: plastic PVC
 - Profile housing can be screwed together with side sections
 - Basic profile width: 25; 45; 72; 100; 108, and 122 mm
 - Individual profile length



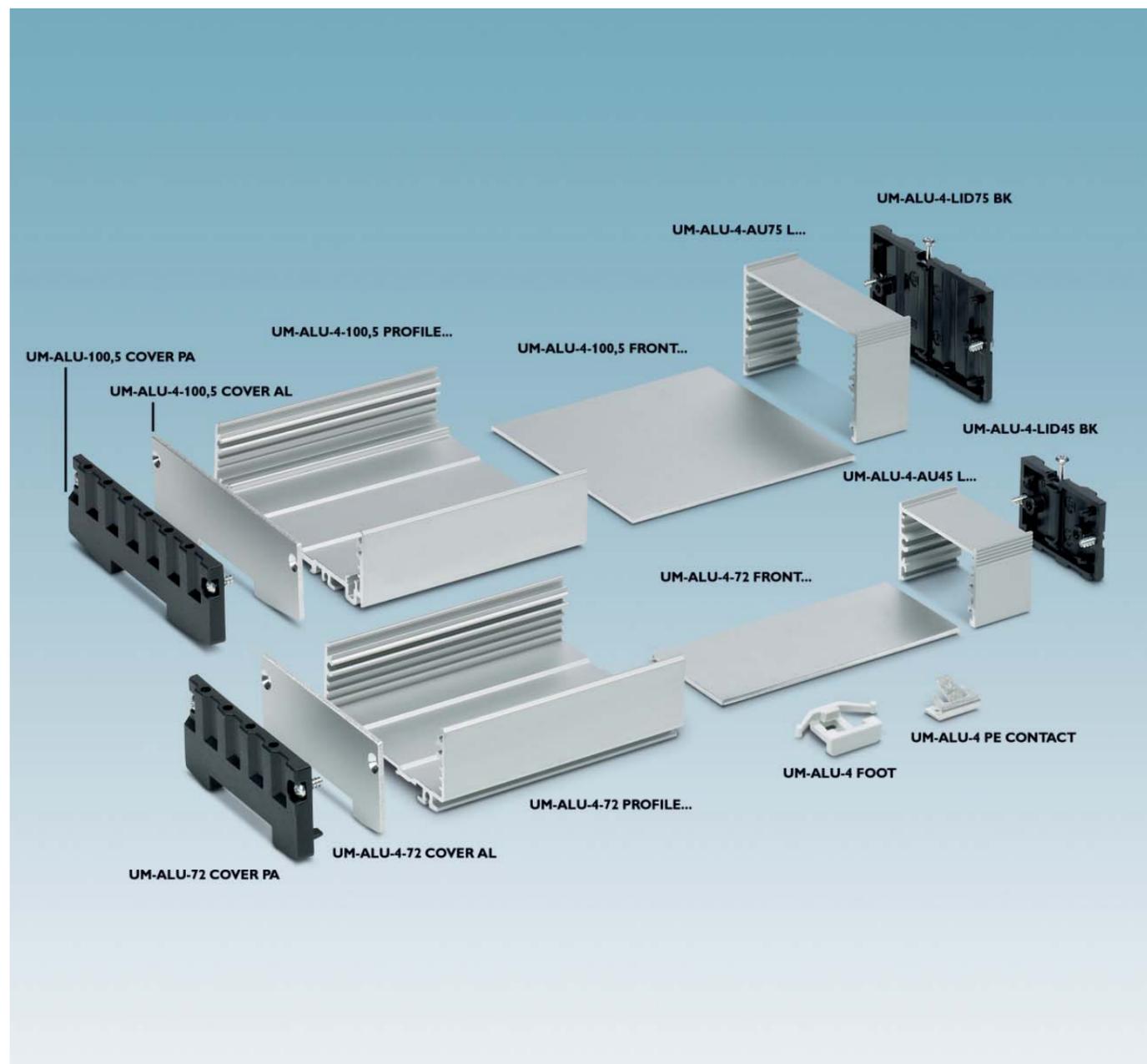
- UMK housing range**
Your advantages at a glance:
- Material: plastic polyamide
 - Plug-in elements snap together with no need for tools
 - Individual elements 11.25; 22.5, and 45 mm wide



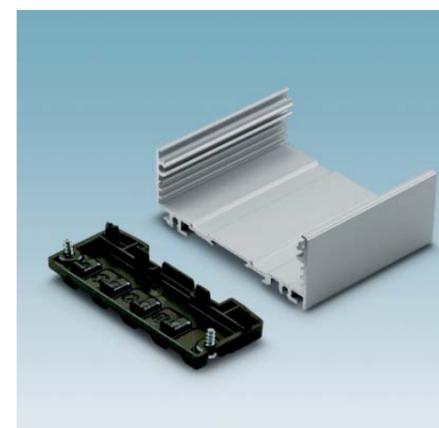
- UM plug-in modules housing range**
Your advantages at a glance:
- Material: plastic polyamide
 - Plug-in elements snap together with no need for tools
 - Secure pin connection with metal pins
 - Individual elements 16.5 and 35 mm wide



- DIN rails – UTA and EM adapters**
Your advantages at a glance:
- Material: zinc die-cast and plastic polyamide
 - Secure DIN rail mounting for devices without mounting foot



The rugged UM-ALU housing series, which is made from anodized aluminum, provides protection for your electronics against mechanical stress, electromagnetic interference, and thermal influences. The housings are particularly well-suited for use in temperature ranges from minus 40°C up to 100°C and offer maximum shock protection of IP40 according to DIN EN 60529.



Rugged press-drawn section

Both the basic profiles and the hood profiles are made of an anodized aluminum press-drawn section. In addition to mechanical strength, the material's outstanding properties also include an extremely high level of heat resistance and shielding against disruptive radiation and noise emission.



Variability in shape

A myriad of housing combinations can be formed by combining a basic profile with one of the two hood profiles, which can be flexibly positioned. The available or customer-specific lengths ensure professional and tailor-made electronic housing.



Unrestricted assembly

Multiple PCB levels in the basic and hood profiles provide electronics engineers with the required flexibility for positioning various components or modules.



PE contacting

An optional PE contact can also be provided on the basic profile. The press-in method penetrates the anodized layer and provides a conductive connection between the housing and the DIN rail. Contacting is carried out via standard cable lugs for flat plugs according to DIN 46244-A6.3



DIN rail mounting

The freely-positionable foot element is used for fixing to the DIN rail. The housing is reliably secured, as usual, by swinging it into place and latching. Best of all - no tools are needed for removal and it can be carried out effectively "blind" - simply gently push the housing vertically in respect to the DIN rail and tilt it out. Depending on the application, several foot elements can be mounted and used per housing.



Individuality from the works

In addition to the products which can be ordered from the catalog, we offer an extensive range of additional services from special profile lengths through additional mechanical processing and printing, and even membrane keypads.

Profile racks and adapters

Profile racks and adapters

UM-ALU 4 aluminum profile housing

UM-ALU 4 aluminum profile housing

Notes:
For SF-TX-SET (Order No. 1212539) and SF-M-Set (Order No. 1212543) screwdriver set, see www.phoenixcontact.net/products



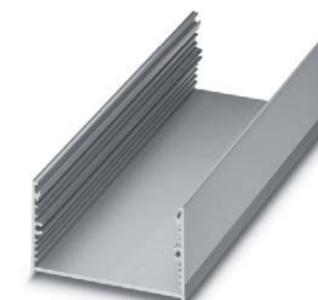
Aluminum basic profile
Width: 72 mm



Aluminum basic profile
Width: 100.5 mm



Aluminum hood profile, width: 45 mm

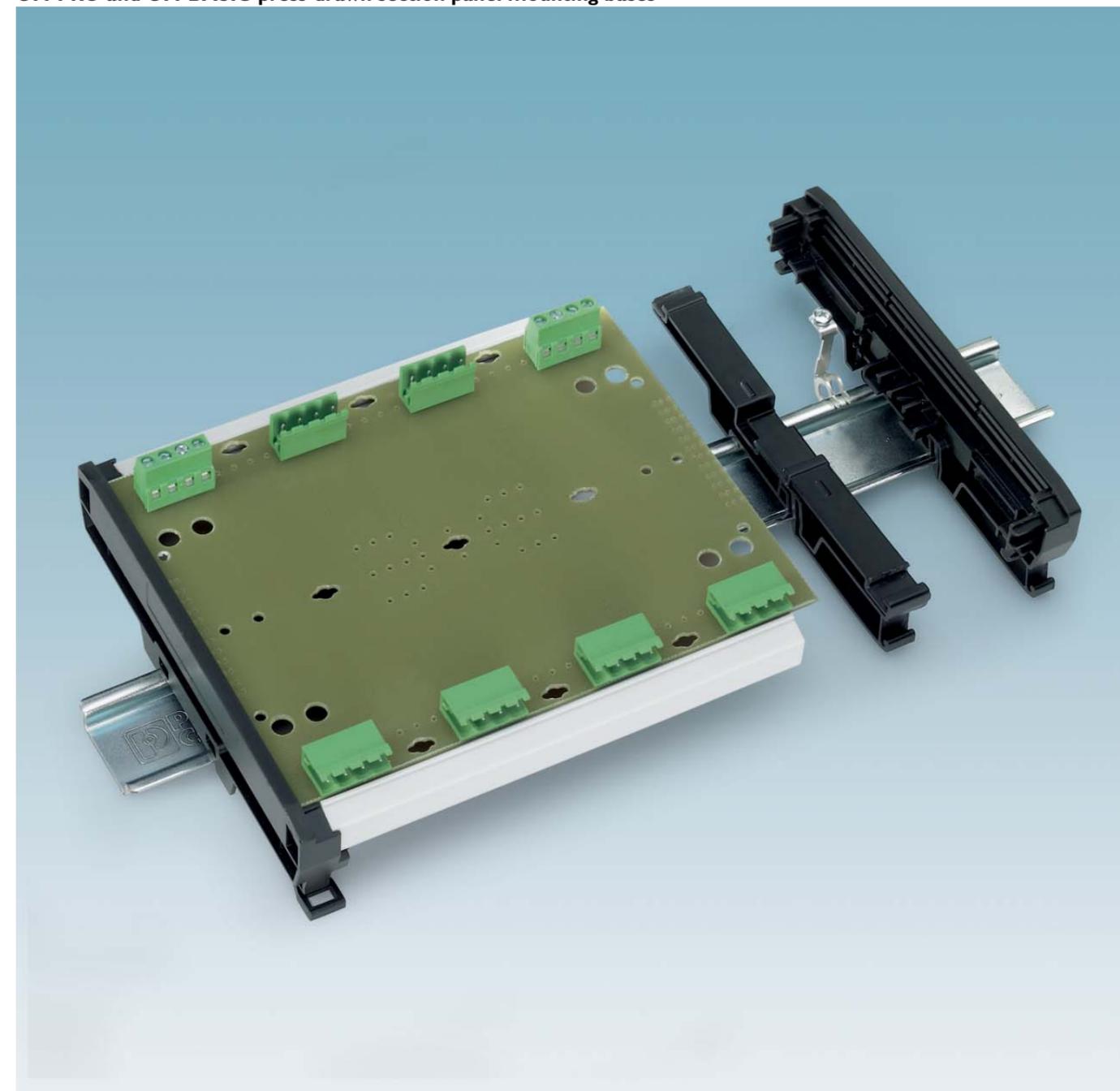


Aluminum hood profile, width: 75 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Basic profile , one-piece						
Length 42.5 mm	UM-ALU 4-72 PROFILE 42,5	2200917	1	UM-ALU 4-100,5 PROFILE 42,5	2200935	1
Length 60 mm	UM-ALU 4-72 PROFILE 60	2200918	1	UM-ALU 4-100,5 PROFILE 60	2200936	1
Length 95 mm	UM-ALU 4-72 PROFILE 95	2200919	1	UM-ALU 4-100,5 PROFILE 95	2200937	1
Length 130 mm	UM-ALU 4-72 PROFILE 130	2200920	1	UM-ALU 4-100,5 PROFILE 130	2200938	1
Length 165 mm	UM-ALU 4-72 PROFILE 165	2200921	1	UM-ALU 4-100,5 PROFILE 165	2200939	1
Length 200 mm	UM-ALU 4-72 PROFILE 200	2200922	1	UM-ALU 4-100,5 PROFILE 200	2200940	1
Length 235 mm	UM-ALU 4-72 PROFILE 235	2200923	1	UM-ALU 4-100,5 PROFILE 235	2200941	1
Length 990 mm	UM-ALU 4-72 PROFILE 990	2200924	1	UM-ALU 4-100,5 PROFILE 990	2200942	1
Basic profile front plate						
Length 42.5 mm	UM-ALU 4-72 FRONT 42,5	2200925	1	UM-ALU 4-100,5 FRONT 42,5	2200943	1
Length 60 mm	UM-ALU 4-72 FRONT 60	2200926	1	UM-ALU 4-100,5 FRONT 60	2200944	1
Length 95 mm	UM-ALU 4-72 FRONT 95	2200927	1	UM-ALU 4-100,5 FRONT 95	2200945	1
Length 130 mm	UM-ALU 4-72 FRONT 130	2200928	1	UM-ALU 4-100,5 FRONT 130	2200946	1
Length 165 mm	UM-ALU 4-72 FRONT 165	2200929	1	UM-ALU 4-100,5 FRONT 165	2200947	1
Length 200 mm	UM-ALU 4-72 FRONT 200	2200930	1	UM-ALU 4-100,5 FRONT 200	2200948	1
Length 235 mm	UM-ALU 4-72 FRONT 235	2200931	1	UM-ALU 4-100,5 FRONT 235	2200949	1
Length 990 mm	UM-ALU 4-72 FRONT 990	2200932	1	UM-ALU 4-100,5 FRONT 990	2200950	1
Side plate set , including snap-on foot with screws for basic profile, anodized aluminum						
	UM-ALU 4-72 COVER AL	2200933	1	UM-ALU 4-100,5 COVER AL	2200951	1
Profile cap set , including snap-on foot with screws for polyamide basic profile, black						
	UM-ALU 4-72 COVER PA BK	2200934	1	UM-ALU 4-100,5 COVER PA BK	2200952	1
Module cap set , including mounting screws, polyamide, black, 75 mm						
	UM-ALU 4 LID75 PA BK	2200972	1	UM-ALU 4 LID75 PA BK	2200972	1
	Accessories			Accessories		
Grounding clamp for making contact with DIN rail	UM-ALU 4 PE CONTACT	2200973	5	UM-ALU 4 PE CONTACT	2200973	5
Snap-in element for DIN rail including screw						
	UM-ALU 4 FOOT	2200974	5	UM-ALU 4 FOOT	2200974	5

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Module profile one-piece (U-shape), anodized aluminum, width 45 mm, for mounting on black profile cap set (COVER PA)						
Length 25 mm	UM-ALU 4 AU45 L25	2200953	1			
Length 42.5 mm	UM-ALU 4 AU45 L42,5	2200954	1			
Length 60 mm	UM-ALU 4 AU45 L60	2200955	1			
Length 95 mm	UM-ALU 4 AU45 L95	2200956	1			
Length 130 mm	UM-ALU 4 AU45 L130	2200957	1			
Length 165 mm	UM-ALU 4 AU45 L165	2200958	1			
Length 200 mm	UM-ALU 4 AU45 L200	2200959	1			
Length 235 mm	UM-ALU 4 AU45 L235	2200960	1			
Module profile , one-piece (U-shape), anodized aluminum, width 75 mm						
Length 25 mm				UM-ALU 4 AU75 L25	2200962	1
Length 42.5 mm				UM-ALU 4 AU75 L42,5	2200963	1
Length 60 mm				UM-ALU 4 AU75 L60	2200964	1
Length 95 mm				UM-ALU 4 AU75 L95	2200965	1
Length 130 mm				UM-ALU 4 AU75 L130	2200966	1
Length 165 mm				UM-ALU 4 AU75 L165	2200967	1
Length 200 mm				UM-ALU 4 AU75 L200	2200968	1
Length 235 mm				UM-ALU 4 AU75 L235	2200969	1
Length 990 mm				UM-ALU 4 AU75 L990	2200970	1
Module cap set , including mounting screws, polyamide, black, 45 mm						
	UM-ALU 4 LID45 PA BK	2200971	1			
Module cap set , including mounting screws, polyamide, black, 75 mm						
	UM-ALU 4 LID75 PA BK	2200972	1	UM-ALU 4 LID75 PA BK	2200972	1
	Accessories			Accessories		
Grounding clamp for making contact with DIN rail	UM-ALU 4 PE CONTACT	2200973	5	UM-ALU 4 PE CONTACT	2200973	5
Snap-in element for DIN rail including screw						
	UM-ALU 4 FOOT	2200974	5	UM-ALU 4 FOOT	2200974	5

UM-PRO and UM-BASIC press-drawn section panel mounting bases



UM-PRO and UM-BASIC press-drawn section housing, available in three versions (72/108/122), combines short assembly times and maximum flexibility when choosing the connection technology. Thanks to the plastic polyamide and special profile geometry, UM-PRO is suitable for operating temperatures of up to 100°C and higher mechanical loads.

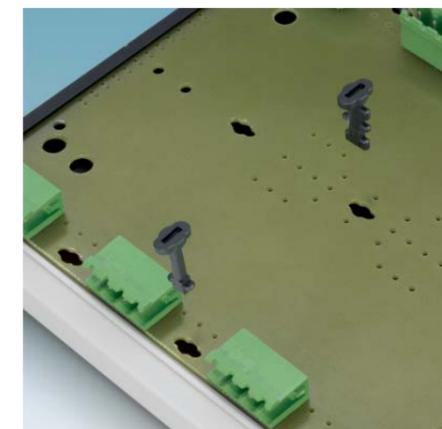
Made from halogen-free high-temperature plastic, UM-PRO profile housing meets the requirements for UL device approval and marketing on the US market.

The low-profile design supports the assembly of flat electronic modules and their mounting on standard DIN rails or directly on the panel. The top PCB can have components assembled up to the edge and fixed by means of a quick-action mechanism. Other customer benefits include further options, such as the free positioning of covering hoods or the selectable BUS option for connecting modules together.



Fast housing assembly: plugging instead of screwing

The fact that profile pieces can be snapped quickly and securely in place using UM-PRO...COVER side parts helps mitigate increasing cost pressures during the final device assembly stages.



Integration of various connection methods

Since the top PCB fits flush against the side of the profile, it can have components assembled up to the edge. This PCB can also be secured with the UM-PRO PCB S(C)-LOCK locking element. The connectors remain freely accessible for wiring by the end customer.



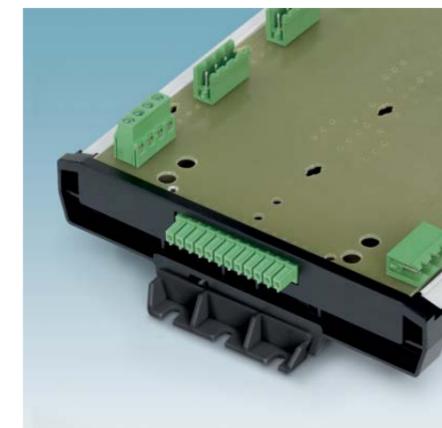
Integrated PE contact

The UM-PRO PE CONTACT potential ground contact, which can be integrated on either side, establishes an electrical connection between the inserted PCB and the DIN rail. This eliminates the need for additional PE terminal blocks and extensive cabling work.



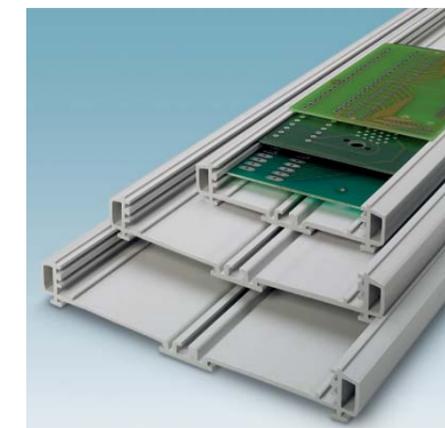
Flexible positioning of covering hoods

The ability to position the covering hoods as required means that sensitive areas on the board can be protected independently. The UM-PRO LID... snap-in lids are easy to mount and remove using just a screwdriver. It is easy to combine connection technologies with a variety of space requirements.



BUS cross contacting of housing

The integrated design of the standard MINI COMBICON connector plugs at the lowest PCB level supports cost-effective device networking.



Variability in assembly

Three guides in the profile enable PCB arrangements on different levels and combinations with a front cover, for example.

UM-PRO and UM-BASIC press-drawn section panel mounting base



Notes:
More information about the housing:
 UM-PRO profile made from PA-GF HT, inflammability class V0 (UL 94)
 UM-BASIC profile made from PVC, inflammability class V0 (UL 94)
 UM-PRO COVER and UM-PRO LID lateral elements made from polyamide PA, inflammability class V0 (UL 94)
 U-shaped profile covers made from PC, inflammability class V0 (UL 94)
 1) Please indicate the desired length in [cm].



Press-drawn section, 72 mm wide



Press-drawn section, 108 mm wide



Press-drawn section, 122 mm wide

Main properties and benefits

- Plug-in assembly reduces assembly time and thus saves costs
- The 72/108 and 122 mm widths provide compatible high-end alternatives to popular UM profiles
- Temperature range up to 100°C extends the possible fields of application (UM-PRO)
- Well-designed profile geometry increases the form stability
- 3 profile guideways support various PCB configurations
- Mounting close to the edge provides wiring advantages
- Freely positionable rear covering hoods offer flexibility
- PE contacts that can be fitted on both sides ensure safety
- Device communication can be extended by BUS cross contacting
- Labeling area for standard SK strips or marking foil TML (max. height 6 mm)
- Additional labeling of PCB with Phoenix module marker carrier PMB (bore hole diameter 4 mm)
- Additional foot elements increase mechanical stability

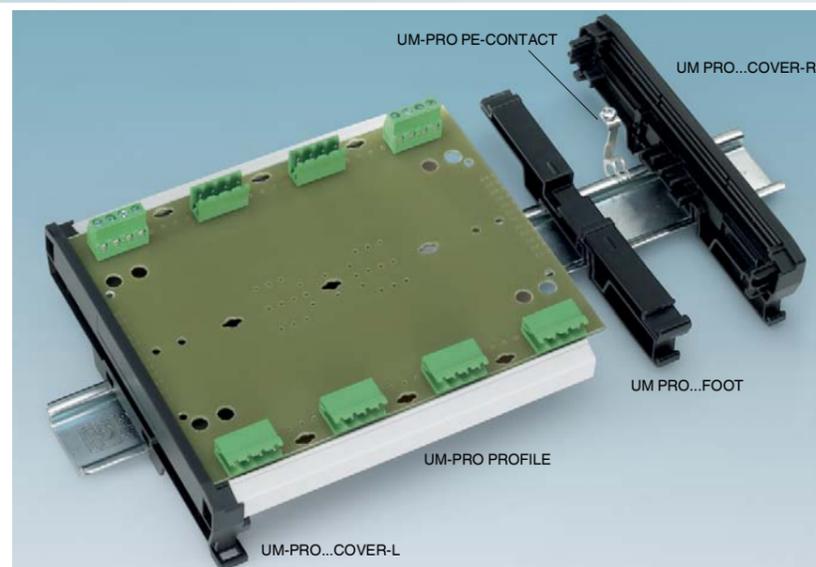
Housing dimensions can be found in the Download Center at:
www.phoenixcontact.net/products.

Description	Grid [mm]	No. of pos.	Width [mm]
Press-drawn section cut to customer-specific length. color: light gray (similar to RAL 7035) Specify length in [cm] according to order key			
Lateral elements with mounting foot for NS35 DIN rails, with groove for accommodating PE contact metal, can be inserted in UM-PRO/UM-BASIC profiles, color: black (similar to RAL 9005) Version: left, width: 72 mm Version: left, width: 108 mm Version: left, width: 122 mm Version: right, width: 72 mm Version: right, width: 108 mm Version: right, width: 122 mm			
U-shaped profile cover, low version , high-temperature-resistant PC material, 73 mm wide (internal dimensions: 69 mm) ¹⁾			
U-shaped profile cover, high version , high-temperature-resistant PC material, 73 mm wide (internal dimensions: 69 mm). Please observe the order key.			
U-shaped profile cover , high-temperature-resistant PC material, 92 mm wide (internal dimensions: 88 mm)			
Latching cover black, for lateral sealing of profile covers (2 units are required for each hood) for: UM-PRO A/U N 73 CM UM-PRO A/U 73 CM UM-PRO A/U 92 CM			
Foot element for DIN rails, for mounting under press-drawn section Width: 72 mm Width: 108 mm Width: 122 mm			
PE contact metal for snapping into lateral elements, includes mounting screw (head diameter 6 mm) Version for top PCB level Version for middle PCB level Version for bottom PCB level			
Add-on element for fixing PCBs Version for top PCB, lateral, black Version for top PCB, central, black Version for middle PCB, central, black Version for bottom PCB, central, black			
Mounting flange , for direct wall mounting. Color: black			
Screwdriver			

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM-PRO PROFILE	2200148	1
UM-BASIC PROFILE	2200149	1
UM-PRO 72 COVER-L BK	2200151	10
UM-PRO 72 COVER-R BK	2200152	10
UM-PRO A/U N 73 CM	2200310	1
UM-PRO A/U 73 CM	2200311	1
UM-PRO A/U 92 CM	2200312	1
UM-PRO LID-73N BK	2200174	10
UM-PRO LID-73 BK	2200173	10
UM-PRO LID-92 BK	2200172	10
Accessories		
UM-PRO 72 FOOT BK	2200153	10
UM-PRO PE CONTACT L1	2200161	20
UM-PRO PE CONTACT L2	2200162	20
UM-PRO PE CONTACT L3	2200163	20
UM-PRO PCB S-LOCK BK	2200168	100
UM-PRO PCB C-LOCK L1 BK	2200164	50
UM-PRO PCB C-LOCK L2 BK	2200165	50
UM-PRO PCB C-LOCK L3 BK	2200166	50
UM-PRO MOUNT BK	2200171	10
SZF 0-0,4X2,5	1204504	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM-PRO PROFILE	2200148	1
UM-BASIC PROFILE	2200149	1
UM-PRO 108 COVER-L BK	2200155	10
UM-PRO 108 COVER-R BK	2200156	10
UM-PRO A/U N 73 CM	2200310	1
UM-PRO A/U 73 CM	2200311	1
UM-PRO A/U 92 CM	2200312	1
UM-PRO LID-73N BK	2200174	10
UM-PRO LID-73 BK	2200173	10
UM-PRO LID-92 BK	2200172	10
Accessories		
UM-PRO 108 FOOT BK	2200157	10
UM-PRO PE CONTACT L1	2200161	20
UM-PRO PE CONTACT L2	2200162	20
UM-PRO PE CONTACT L3	2200163	20
UM-PRO PCB S-LOCK BK	2200168	100
UM-PRO PCB C-LOCK L1 BK	2200164	50
UM-PRO PCB C-LOCK L2 BK	2200165	50
UM-PRO PCB C-LOCK L3 BK	2200166	50
UM-PRO MOUNT BK	2200171	10
SZF 0-0,4X2,5	1204504	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM-PRO PROFILE	2200148	1
UM-BASIC PROFILE	2200149	1
UM-PRO 122 COVER-L BK	2200158	10
UM-PRO 122 COVER-R BK	2200159	10
UM-PRO A/U N 73 CM	2200310	1
UM-PRO A/U 73 CM	2200311	1
UM-PRO A/U 92 CM	2200312	1
UM-PRO LID-73N BK	2200174	10
UM-PRO LID-73 BK	2200173	10
UM-PRO LID-92 BK	2200172	10
Accessories		
UM-PRO 122 FOOT BK	2200160	10
UM-PRO PE CONTACT L1	2200161	20
UM-PRO PE CONTACT L2	2200162	20
UM-PRO PE CONTACT L3	2200163	20
UM-PRO PCB S-LOCK BK	2200168	100
UM-PRO PCB C-LOCK L1 BK	2200164	50
UM-PRO PCB C-LOCK L2 BK	2200165	50
UM-PRO PCB C-LOCK L3 BK	2200166	50
UM-PRO MOUNT BK	2200171	10
SZF 0-0,4X2,5	1204504	10



Order key for UM-PRO and UM-BASIC

Pcs.	Order No.	Profile width	Length [cm]	Color
1	22 00 14 8	UM-PRO UM-PRO 72 ≙ 72 mm UM-PRO 108 ≙ 108 mm UM-PRO 122 ≙ 122 mm	22,5 3.0 cm, minimum 100.0 cm, maximum	GY7035 GY7035 ≙ Light gray

General note:
The area available for assembly is reduced by 3.1 mm at both edges of the press-drawn sections.

Ordering information:
In order to determine the profile length, 1.6 cm must be subtracted from the PCB length.
The overall length of the module, i.e., including the lateral elements, is equal to the PCB length plus 0.4 cm.
The maximum length of a profile cover is the PCB length minus 1.9 cm.
When using the UM-PRO PE-CONTACT, the maximum length is reduced by a further 0.91 cm per contact.

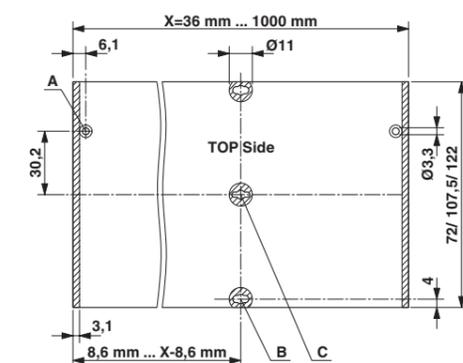
Ordering example:
For a PCB of 160 x 107.5 x 1.5 mm, the profile length is:
2200148/UM-PRO 108/14,4/GY7035

Order key for profile covers

Pcs.	Order No.	Width of cover [mm]	Length [cm]
1	22 00 31 1	AU 73 AU 73 ≙ 73 mm	8,4 3.0 cm, minimum 100.0 cm, maximum

UM-PRO and UM-BASIC PCBs

A = Drill hole for optional PE contact; B = For optional S-LOCK PCB lock in top level;
C = For optional C-LOCK PCB lock (all levels)



UM press-drawn section panel mounting bases

Individual adaptation of UM press-drawn sections to the dimensions of PCBs means that a host of electronic circuits can be made DIN-rail mountable.

UM profile housing consists of the following components: UM... press-drawn section, UM...SE lateral elements in various widths and heights, UM...FE foot elements, and UM profile covers for UM 100, UM 108, and UM 122.

Depending on the desired module length and the space required, the press-drawn section can be cut to size individually and combined with lateral and foot elements to form a module.

Six graded profile versions are available for PCB widths of 22 mm, 42 mm, 72 mm, 100 mm, 107.5 mm, and 122 mm.

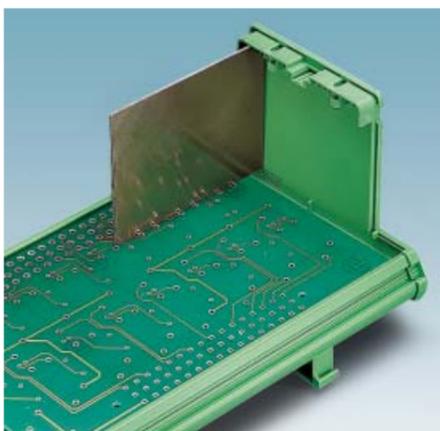
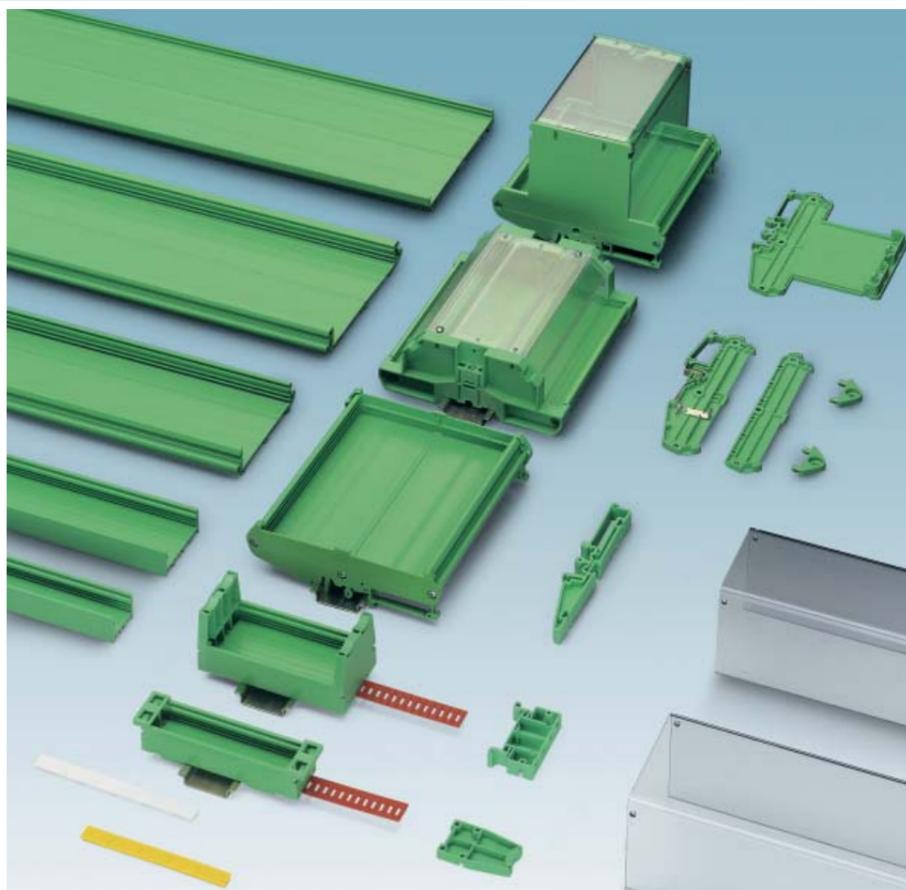
The modules are mounted on commercially available  or  DIN rails (UM 25 and UM 45 only on  DIN rails) or directly on the mounting plate with the UMK-BF mounting flange.

Marking grooves ensure clear identification of the module with standard marking materials (ZB 5).

The standard color of press-drawn sections is green.

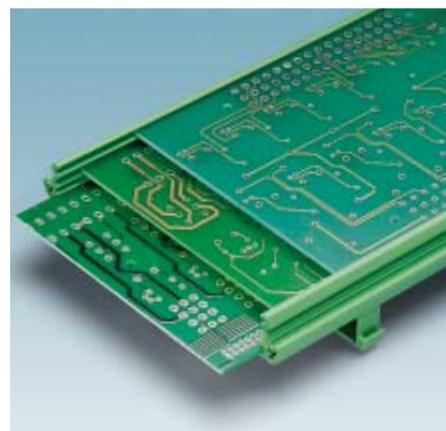
Additional advantages of UM press-drawn sections:

- Inexpensive as a result of reducing the number of separate housing parts
- Flexible size and shape
- High degree of mechanical stability by screwing the lateral elements to the profile
- Profile cover can provide protection for the electronics in UM 100, UM 108, and UM 122 versions



More capacity

UM 100 and 108 press-drawn sections with cover for optional extension of vertically-mounted PCBs.



Free positioning of PCBs

PCB guides on up to three levels support compact electronic circuits, e.g., using SMD technology.



Custom length

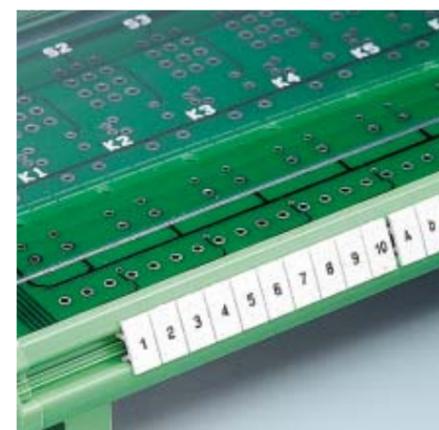
The profiles can be cut without rigid pitch divisions to within a millimeter, so that the housing profile can be tailored to fit the electronics.



Potential earth contact

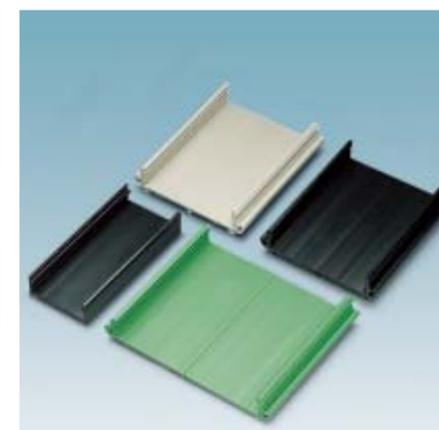
The PE contact integrated into the lateral element connects the inserted PCB to the DIN rail. What this means for you:

- Excellent EMC properties
- No need for an additional PE terminal block when shielded sensor cables are used



Clear marking

The marker groove provided on both sides means that the profile can be marked flexibly and individually with ZB 5 marking material.



Choice of shape and color

In addition to the standard green color, UM 45 and UM 108 press-drawn sections are available in black, UM 72 in black, light gray, and beige, and UM 122 in light gray and black.

Accessories

Optional transparent UM...A/U profile covers are available for press-drawn section panel mounting bases in design widths UM 100, UM 108, and UM 122.

Different UM...SE... lateral elements are used, depending on the cover selected. These elements can be supplied with or without a foot and with optional integrated potential earth contact. Guide slots are integrated in the tall lateral elements. This means that additional PCBs can be arranged vertically on the base PCB.

Transparent UM...A/U U-profile covers come in various lengths, depending on the length of the profile.

Using the UMK-BF mounting flange, modules can be mounted directly on the wall. Extra UM...-FE foot elements increase the overall stability of longer modules.

Degree of protection

By using optional UM...A/U covers, shock and contamination-proof electronic modules can be created. The degree of protection of housing and terminal blocks protected in this way corresponds to IP20 (according to IEC 60529/EN 60529).

Materials

Housing and transparent covers are made from extruded PVC (UL 94 - V0). This material has an excellent price/performance ratio. The maximum permissible operating temperature is 50°C. Covers ending in HT are made from high-temperature-resistant thermoplastic PC (UL 94-V0).

Conductor connections

A host of possibilities for external conductor connection are available thanks to the wide range of electronic PCB terminal blocks, screw, COMBICON, spade, and spring-cage connections.

Profile racks and adapters

Profile racks and adapters

UM profile panel mounting base

The UM 25 and UM 45 compact press-drawn sections offer a variety of options for installing electronic modules in situations where there is not much installation space available.

The slim UM 25 and UM 45 modules are mounted transversely in relation to the DIN rail.

A special UM 25/45-FEO 200 foot element is used for this purpose. This arrangement is suitable for module lengths of 8 - 20 cm.

The positive latch in the foot element can be prepared for the required module length.

An additional side element is available for the UM 45 module. This enables the module to be mounted longitudinally on the NS 35 DIN rail in any length.

The press-drawn sections are manufactured to the required length and are available in lengths up to 100 cm.

Further advantages:

- Quick assembly
- The UMK-BF mounting flange enables the modules to be mounted directly on the wall
- UM ...-SES side element offers options for labeling with Phoenix Contact SS-ZB marking material (see also catalog 5)
- Cable fixing through the UM ...-SEK side element (fixed with cable ties, not supplied as standard).

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

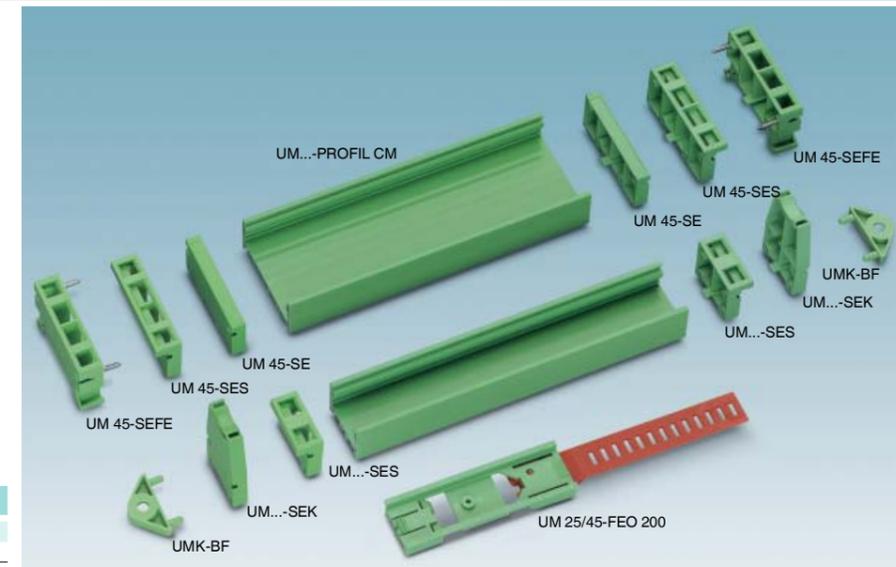
Notes:
Information concerning the housing:
PVC profile, inflammability class V0 (UL 94)
Polyamide PA side elements, inflammability class V0 (UL 94)
¹⁾ To define the profile length and width, please observe the order key.



For 25 mm wide PCBs



For 45 mm wide PCBs



Assembly of the UM 25 and UM 45 profiles

		Technical data		
Type of housing		PVC / V0		
Electronic housings				
		Ordering data		
Description	Type	Order No.	Pcs. / Pkt.	
Drawn section Fixed length 100 cm Cut to length according to customer specifications ¹⁾	UM 25-PROFIL 100CM	2915795	1	
	UM -PROFIL	2952020	1	
Side supporting element , must be mounted at right angles to the NS 35 to support the housing				
Side element With marker groove, 11 mm wide, labeling with SS-ZB.	UM 25-SES	2959285	10	
Without marker groove, 6 mm wide				
Side element , with cable tie, 6 mm wide, fixed using cable ties, not included in the delivery				
	UM 25-SEK	2959298	10	
Side element , with foot, 10 mm wide, mounted longitudinally to the NS 35, labeling with SS-ZB				
Without PCB guide in side element				
Foot element , is inserted in the profile, limit stop with screw, mounted at right angles to the NS 35				
	UM 25/45-FEO 200	2959434	10	
		Accessories		
Marker tags , 5-section, unprinted, labeling with X-PEN, M-PEN, plotter or BKMT 20 x 8 label	white	SS-ZB WH	5031171	50
	yellow	SS-ZB YE	5031650	50
Mounting flange , for mounting directly on the wall		UMK-BF	2976077	50

		Technical data		
Type of housing		PVC / V0		
Electronic housings				
		Ordering data		
Type	Order No.	Pcs. / Pkt.		
UM 45-PROFIL 100CM	2914550	1		
UM -PROFIL	2952020	1		
UM 45-SEAS	2907554	10		
UM 45-SES	2959308	10		
UM 45-SE	2906131	10		
UM 45-SEK	2959311	10		
UM 45-SEFE	2907826	10		
UM 45-SEFE O.N.	2959793	10		
UM 25/45-FEO 200	2959434	10		
		Accessories		
SS-ZB WH	5031171	50		
SS-ZB YE	5031650	50		
UMK-BF	2976077	50		

Order key for UM profiles:

Quantity	Order No.	Profile width	Length [cm]	Color
1	29 52 02 0	UM 108	22,5	GN6021
		UM 25 ≙ 25 mm UM 45 ≙ 45 mm UM 72 ≙ 72 mm UM 100 ≙ 100 mm UM 108 ≙ 108 mm UM 122 ≙ 122 mm	Min. 3.0 cm Max. 100.0 cm	GN6021 ≙ Pale green BK9005 ≙ Jet black GY7032 ≙ Pebble gray GY7035 ≙ Light gray

General note:

The area that can be equipped is reduced once by 3 mm at the edges of the profiles.

Ordering notes:

In order to determine the profile length, 0.3 cm must be subtracted from the PCB length.

The exception is when a side element with the ending O.N. is used; here the profile length is the same as that of the PCB.

Profile racks and adapters

Profile racks and adapters

UM profile panel mounting base

The UM 72, UM 100, and UM 108 press-drawn sections offer three levels for PCBs for flexible positioning or SMD technology (for example).

Very small UM ...-LG 10 modules, measuring 10 x 90 mm or 10 x 125 mm, can be created by combining two side elements. The press-drawn sections are manufactured to the required length and are available in lengths up to 100 cm.

Optional UM 108 A/U... transparent covers in two heights and with widths of 60 and 73 mm are available for the UM 100 and UM 108. Guide slots are integrated into the tall side elements. This means that additional printed circuit boards can be arranged vertically on the base printed circuit board.

Further advantages:

- Fast installation on conventional NS 35 or NS 32 DIN rails
- The modules can be marked with Phoenix marking material in the label grooves provided
- Side elements with potential-earth contact from the PCB to the DIN rail (EMC)
- A host of options for external conductor connection, see chapter COMBICON control

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

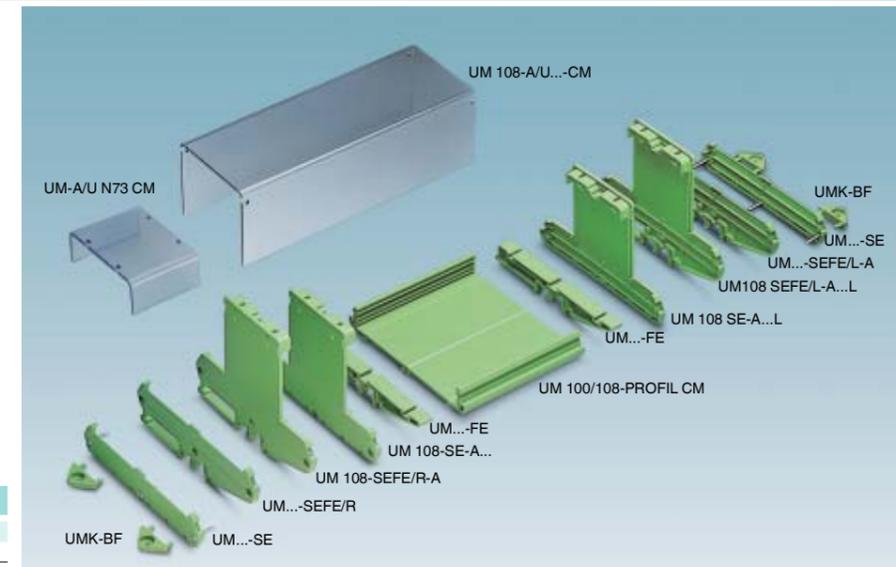
Notes:
Information concerning the housing:
PVC profile, inflammability class V0 (UL 94)
Polyamide PA side elements, inflammability class V0 (UL 94)
U-shaped PVC profile covers, inflammability class HB (UL 94)
U-shaped PC profile covers, high-temperature resistant, inflammability class V0 (UL 94)
¹⁾ To define the profile length and width, please observe the order key.
²⁾ Please indicate the desired length in [cm].



For 72 mm wide PCBs



For 107.5 mm wide PCBs



Assembly of the UM 72 and UM 100/108 press-drawn sections

Technical data			
Type of housing	PVC / V0		
Electronic housings			
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Drawn section Fixed length 100 cm	UM 72-PROFIL 100CM	2907583	1
Cut to length according to customer specifications ¹⁾	UM -PROFIL	2952020	1
Side element with foot , 5 mm wide, right hand side, for mounting NS 32 or NS 35...	UM 72-SEFE/R	2959353	10
Side element with foot , 5 mm wide, left hand side			
For mounting on or With PE contact to the DIN rail	UM 72-SEFE/L UM 72-SEPEF/L	2959340 2906487	10 10
Side element , 5 mm wide	UM 72-SE	2959337	10
Foot element , for mounting on NS 35 or NS 32, under the UM 72 or UM 108 profile housing	UM 72-FE	2959382	10
Accessories			
Side element, with foot, tall version, right hand For 60 mm wide U-shaped cover for 73 mm wide U-shaped cover			
Side element, with foot, flat version, right hand for 73 mm wide U-shaped cover			
Side element, with foot, flat version, left hand for 73 mm wide U-shaped cover With PE contact to the DIN rail			
Side element, flat version, without foot green			
Side element, tall version, without foot For 60 mm wide U-shaped cover for 73 mm wide U-shaped cover			
Side element, with foot, tall version, left hand For 60 mm wide U-shaped cover With PE contact to the DIN rail for 73 mm wide U-shaped cover			
With PE contact to the DIN rail U profile cover, tall version , widths of 60 mm (internal dimension 56 mm) and 73 mm (internal dimension 69 mm) are available. Please note the ordering example and the order key.			
U-shaped cover, flat version , high-temperature resistant PC material, 73 mm wide (internal dimensions 69 mm) ²⁾			
Mounting flange , for mounting directly on the wall	UMK-BF	2976077	50
10 mm wide module , consisting of two side elements, PCB dimensions: 8 x 72 or 8 x 107.5 mm	UM 72-LG 10	2959366	10

Technical data		
Type of housing	PVC / V0	
Electronic housings		
Ordering data		
Type	Order No.	Pcs. / Pkt.
UM100-PROFIL 100CM	2914563	1
UM108-PROFIL 100CM	2907525	1
UM -PROFIL	2952020	1
UM108-SEFE/R	2959683	10
UM108-SEFE/L	2959696	10
UM108-SEPEF/L	2906490	10
UM108-SE	2959476	10
UM108-FE	2959463	10
Accessories		
UM108-SEFE/R-A60	2959706	10
UM108-SEFE/R-A73	2959719	10
UM108 N-SEFE/R-A73	2709354	10
UM108 N-SEFE/L-A73	2709367	10
UM108 N-SEPEF/L-A73	2709370	10
UM108 N-SE-A73	2709383	10
UM108-SE-A60	2959748	10
UM108-SE-A73	2959751	10
UM108-SEFE/L-A60	2959722	10
UM108-SEPEF/L-A60	2906500	10
UM108-SEFE/L-A73	2959735	10
UM108-SEPEF/L-A73	2906513	10
UM108-A/U CM	2854898	1
UM-A/U N 73 CM	2706852	1
UMK-BF	2976077	50
UM108-LG 10	2959780	10

Order key for UM profile covers

Pcs.	Order No.	Width Cover [mm]	Length [cm]
1	28 54 89 8	AU73	8,4
		AU60 ≙ 60 mm	3.0 cm, minimum
		AU73 ≙ 73 mm	100.0 cm, maximum

General information about UM 72, UM 100/108

Use the same housing accessory elements (lateral elements, U-shaped profile covers, etc.) for the UM 100 profile as for the UM 108 profile.
Instead of the foot elements and the lateral elements, two lateral elements with foot can be used. Corresponding screws are supplied as standard with lateral elements.

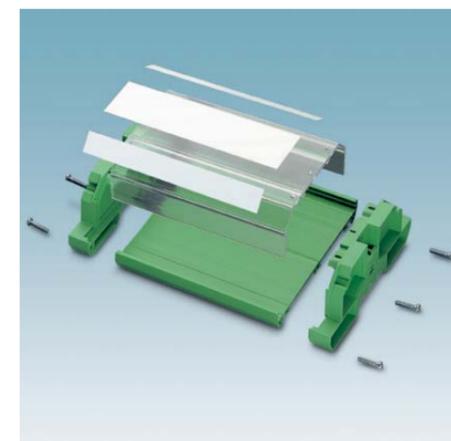
Ordering example:
For an 87.5 x 107.5 x 1.5 PCB, the profile length is 8.4 cm.

- The following parts are required for a module including the cover:
- 1 x Press-drawn section
 - Order key 2952020/UM108/8,4/GN6021
 - 1 x UM profile cover
 - Order key 2854898/U73/8,4
 - 1 x Lateral element with foot, left
 - Order No. 29 59 73 5
 - 1 x Lateral element with foot, right
 - Order No. 29 59 71 9

Ordering information:

The PCB area available for assembly is reduced by 2 mm at each edge of the press-drawn sections and on the front of the lateral elements in the tall version.
In order to determine the profile length, 0.35 cm must be subtracted from the PCB length.
The overall length of the module, i.e., including the lateral elements, is equal to the profile length plus 0.3 cm per lateral element.
For the UM 108-A/U profile cover, specify the same length as for the UM 100/108-PROFIL... press-drawn section.
A minimum profile length of 3 cm is required to ensure assembly.

UM profile panel mounting base



Notes:
Order information for UM 122
In order to determine the profile length, 0.95 cm must be subtracted from the PCB length. The length of the cover corresponds to the PCB length minus 0.18 cm. The overall length of the module, i.e. including the side elements, corresponds to the profile length plus 1.35 cm per side element. A minimum profile length of 3 cm is required to guarantee mounting.
The printed circuit board area available for components is reduced by 2 mm at the edges of the profiles and on the front of the side elements.
The profile cover must be chosen at 0.77 cm longer than the drawn section.
Information concerning the housing:
PVC profile, inflammability class V0 (UL 94)
Polyamide PA side elements, inflammability class V0 (UL 94)
Profile cover PC, inflammability class V2 (UL 94)
1) To define the profile length and width, please observe the order key.



For 122 mm wide PCBs

Type of housing	Electronic housings
-----------------	---------------------

Description
Drawn section Fixed length 100 cm Cut to length according to customer specifications ¹⁾
Side element with foot , 5 mm wide, right hand side, for mounting on NS 32 or NS 35...
Side element with foot , 5 mm wide, left hand side, for mounting on NS 32 or NS 35...
13 mm wide module , consisting of two side elements, PCB dimensions: 11.7 x 122 mm
Side element , with screw fixture to attach cover UM 122 to NS 35
U profile cover , for UM 122, 92 mm wide
Foot element , for UM 122 profile housing

Phoenix module marker carrier , for labeling modules and PCBs, for hole diameters 3.9 to 4.1 mm, thickness of the housing wall or PCB: 1.5 to 2.0 mm, lettering field: 29.8 x 8 mm
Insert strips , for group marking, for sliding into the cover profile AP 2 and AP 3, cardboard, lettering field: 35 x 500 mm
Marker pen, not refillable , for manual labeling, line thickness 0.5 mm

Technical data

PVC / V0

Ordering data

Type	Order No.	Pcs. / Pkt.
UM122-PROFIL 100CM	2914576	1
UM -PROFIL	2952020	1
UM122-SEFE/R	2908786	10
UM122-SEFE/L	2908773	10
UM122-LG 13	2908809	10
UM122-SEMFE-A92	2909442	10
UM122-A/U92	2909455	1
UM122-FE	2909471	10

Accessories

PMB	1004364	50
AP-ES	5022685	10
B-STIFT	1051993	10

The UM... profile panel mounting bases are available in the following fixed lengths:

Description	Type	Order No.	Pcs. Pkt.
Design width 25 mm Fixed length 100 cm	UM 25-PROFIL 100 CM	29 15 79 5	1
Design width 45 mm Fixed length 100 cm	UM 45-PROFIL 100 CM	29 14 55 0	1
Design width 72 mm Fixed length 100 cm	UM 72-PROFIL 100 CM	29 07 58 3	1
Design width 100 mm Fixed length 100 cm	UM 100-PROFIL 100 CM	29 14 56 3	1
Design width 108 mm Fixed length 100 cm	UM 108-PROFIL 100 CM	29 07 52 5	1
Design width 122 mm Fixed length 100 cm	UM 122-PROFIL 100 CM	29 14 57 6	1

The UM 122 press-drawn section is particularly suitable for the installation of bulky industrial electronics.

Very small UM 122-LG 13 modules, measuring 13 x 127.5 mm, can be created by snapping on two side elements. The press-drawn section is manufactured to the required length and is available in lengths up to 100 cm.

By using the UM 122-A/U 92 profile cover, shock and dust-proof electronic modules can be created. The cover can be cut to suit your requirements and can be labeled with the AP-ES insert strips using the grooves inside. To prevent the cover from being unintentionally removed, a seal can be integrated

Further advantages:

- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- A host of options for external conductor connection, see chapter COMBICON control

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

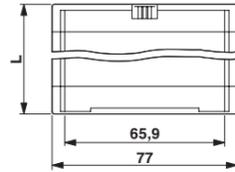
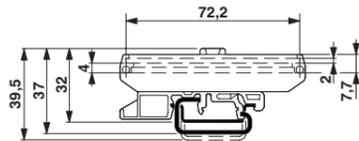
UMK plug-in module panel mounting base

The compact UMK custom circuit modules are used for individually constructing simple adaptation and interconnection functions as well as comprehensive electronic circuits that can be installed on DIN rails. They comprise various single elements with different dimensions and functions.

Depending on the desired module size and the space requirement, various individual elements are linked together into one module. The UMK base elements are available in widths of 11.25 mm, 22.5 mm and 45 mm. Two side elements with a width of 11.25 mm each produce – when engaged – the smallest module of 22.5 x 77 mm. Adding together base elements of various widths results in the particular module dimension required. One or more foot elements are provided depending on the module size.

The advantages are:

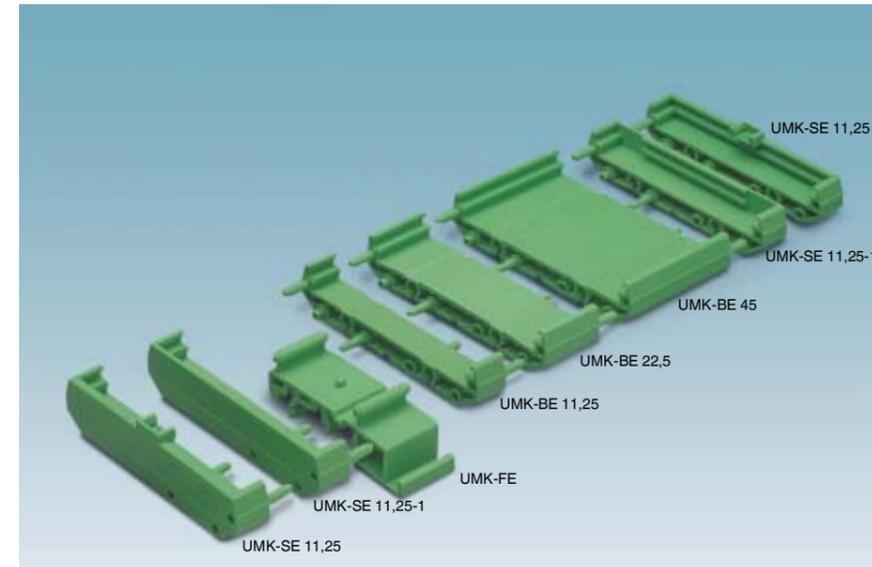
- Fast assembly due to the pluggable module principle. The tight engagement of the individual elements ensures that they are securely connected.
- Thanks to the universal foot, the modules snap onto commercially available EN DIN rails
- The mounting flange enables mounting directly on the wall
- The modules can be marked using the marking grooves in the side element as well as with the Phoenix Contact module marker PMB, which snaps into a hole (4 mm Ø) in the PCB.
- For a host of options for external conductor connection, see chapter on COMBICON control.



Type of housing	Electronic housings
-----------------	---------------------

Description
Side element, 11.25 mm wide, with marker groove
Side element, 11.25 mm wide, without marker groove
Base element, 11.25 mm wide
Base element, 22.5 mm wide
Base element, 45 mm wide
Foot element, for mounting on a NS 32 or NS 35..., can be inserted into base and side element
Mounting flange, for mounting directly on the wall

Technical data			
Polyamide / V2			
Ordering data			
Type	Order No.	Pcs. / Pkt.	
UMK-SE 11,25	2970002	10	
UMK-SE 11,25-1	2970442	50	
UMK-BE 11,25	2971535	10	
UMK-BE 22,5	2970028	10	
UMK-BE 45	2970015	10	
UMK-FE	2970031	10	
UMK-BF	2976077	50	



Assembly of the UMK universal modules

PCB dimensions [mm]	Module width L[mm]	Side element UMK-SE...	Base element UMK-BE 11,25	Base element UMK-BE 22,5	Base element UMK-BE 45	Foot element UMK-FE
20.00 x 72 x 1.5	22.50	2	-	-	-	1
31.25 x 72 x 1.5	33.75	2	1	-	-	1
42.50 x 72 x 1.5	45.00	2	-	1	-	2
53.75 x 72 x 1.5	56.25	2	1	1	-	2
65.00 x 72 x 1.5	67.50	2	-	-	1	2
76.25 x 72 x 1.5	78.75	2	1	-	1	2
87.50 x 72 x 1.5	90.00	2	-	1	1	2
98.75 x 72 x 1.5	101.25	2	1	1	1	2
110.00 x 72 x 1.5	112.50	2	-	-	2	2
121.25 x 72 x 1.5	123.75	2	1	-	2	2
132.50 x 72 x 1.5	135.00	2	-	1	2	2
143.75 x 72 x 1.5	146.25	2	1	1	2	3
155.00 x 72 x 1.5	157.50	2	-	-	3	3
166.25 x 72 x 1.5	168.75	2	1	-	3	3
177.50 x 72 x 1.5	180.00	2	-	1	3	3

Note on printed circuit board assembly:
The area that can be equipped is reduced once by 3 mm at the edges of the base elements and by 1.6 mm at the front of the side elements.

UM plug-in module panel mounting base

The UM universal modules are suitable for accommodating one printed circuit board for the construction of individual electronic circuits, e.g. programmable controls. They comprise individual elements with various dimensions and functions. By arranging the individual base elements in a row, the printed circuit board surface can be multiplied. Metal pins engage the individual base elements to form a sturdy unit. The various base elements are available with or without ribs to support the printed circuit board. Depending on the module size, one or more base elements can be fitted with a snap foot, which easily engages on EN DIN rails.

The side elements close the aligned base elements on both sides and are available in four designs:

- The UM-SE side element
- The UM-SE-A 60 high side element for 60 mm wide U-shaped covers and
- The UM-SE-A73/N low side element for 73 mm wide U-shaped covers
- The UM-SE-A 73 high side element for 73 mm wide U-shaped covers.

The high lateral elements are available with or without a guide slot for the mechanical fixing of PCBs arranged perpendicular to the base board.

The length of the transparent U-shaped covers is decided on a case-to-case basis. A comprehensive product range is available for the conductor connection. See the COMBICON control chapter.

Notes:
Information concerning the housing:
U-profile cover UM-A/U73... made of PVC/HB (UL 94)
U-profile cover UM-A/U73-HT CM made of PC/V0 (UL 94)
U-profile cover UM-A/U N73 CM made of PC/V0 (UL 94)
1) Please indicate the desired length in [cm].



With ribs for mechanical PCB support



Without ribs

Type of housing	Electronic housings
-----------------	---------------------

Description	Type	Order No.	Pcs. / Pkt.
Universal module , individual assembly, consisting of: Base element with snap-on foot, for mounting on NS 35... or NS 32 DIN rail.			
With ribs, L = 35 mm	UM-BEFE 35	2955564	10
Without ribs, L = 35 mm	UM-BE 35	2955577	10
Without snap-on foot, with ribs, L = 35 mm	UM-BE 35	2955577	10
Without ribs, L = 35 mm, without snap-on foot	UM-BE 35	2955577	10
With ribs, L = 16.5 mm, without snap-on foot	UM-BE 16,5	2956903	50
Without ribs, L = 16.5 mm, without snap-on foot	UM-BE 16,5	2956903	50
Connection pin , brass, for engaging several base elements to form one unit, 4 units necessary per element	UM-VS	2955580	50
Side element , for closing both ends of the base element UM-BEFE	UM-SE	2955593	10
Side element , flat version for 73 mm wide profile cover	UM-SE-A73/N	2962256	10

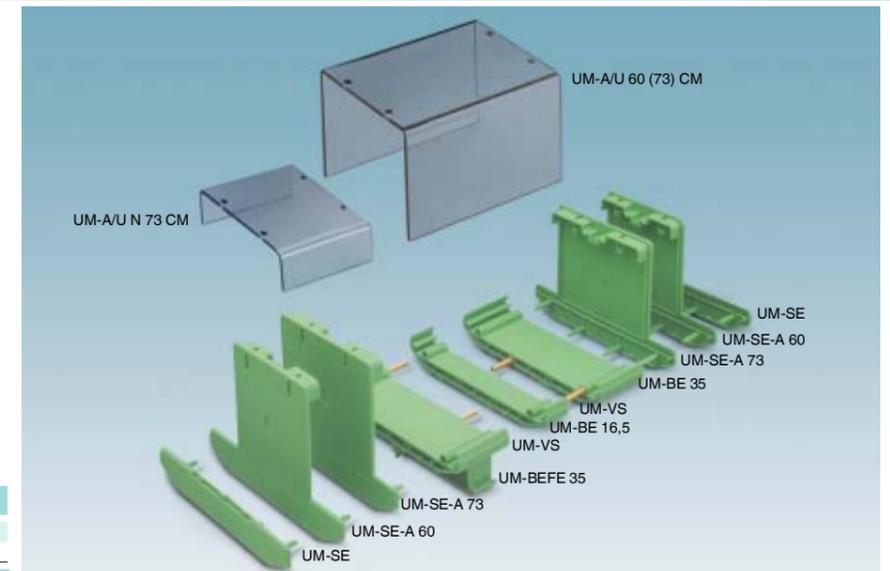
Accessories			
Side element , tall version For 60 mm wide U-shaped cover for 73 mm wide U-shaped cover	UM-SE-A60 UM-SE-A73	2955616 2955603	10 10
Side element , high profile, with guide grooves for vertically arranged printed circuit boards For 60 mm wide U-shaped cover for 73 mm wide U-shaped cover	UM-SE-A60-R UM-SE-A73-R	2956893 2956741	10 10
U profile cover , tall version, PVC. Please note the order key.	UM-A/U CM	2854885	1
U-shaped cover , tall version, high-temperature resistant PC material ¹⁾	UM-A/U 73-HT CM UM-A/U N 73 CM	2853310 2706852	1 1
Transparent hood , for one base element, UM-BEFE (with 2 UM-SE) snaps on, 60 mm wide, 50 mm high	UM-H	2955441	10

Technical data			
Polyamide / V0			

Ordering data			
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Type	Order No.	Pcs. / Pkt.
UM-BEFE 35	2955564	10
UM-BE 35	2955577	10
UM-BE 16,5	2956903	50
UM-VS	2955580	50
UM-SE	2955593	10
UM-SE-A73/N	2962256	10

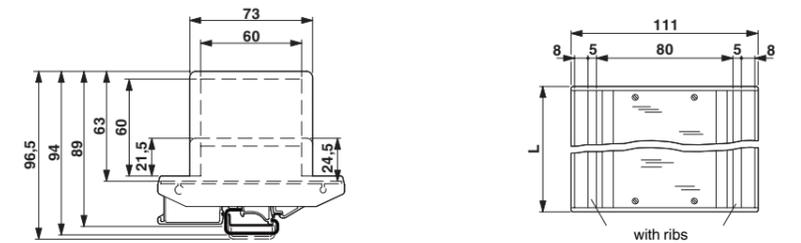
Accessories			
UM-SE-A60	2955616	10	
UM-SE-A73	2955603	10	
UM-SE-A60-R	2956893	10	
UM-SE-A73-R	2956741	10	
UM-A/U CM	2854885	1	
UM-A/U 73-HT CM	2853310	1	
UM-A/U N 73 CM	2706852	1	
UM-H	2955441	10	



Assembly of UM modules - base element with ribs

PCB dimensions [mm]	Module length L [cm]	Base element UM-BEFE 35 UM-BEFE 35-1	Base element UM-BE 35 UM-BE 35-1	Base element UM-BE 16,5 UM-BE 16,5-1	Lateral element UM-SE A 60 UM-SE A 73	Length [cm] of U-shaped profile cover UM-A/U 60(73)...
38.5 x 107.5 x 1.5	4.0	1	-	-	2	3.5
55.0 x 107.5 x 1.5	5.65	1	-	1	2	5.15
73.5 x 107.5 x 1.5	7.5	2	-	-	2	7.0
90.0 x 107.5 x 1.5	9.15	2	-	1	2	8.65
108.5 x 107.5 x 1.5	11.0	2	1	-	2	10.5
125.0 x 107.5 x 1.5	12.65	2	1	1	2	12.15
143.5 x 107.5 x 1.5	14.5	2	2	-	2	14.0
160.0 x 107.5 x 1.5	16.15	2	2	1	2	15.65
178.5 x 107.5 x 1.5	18.0	3	2	-	2	17.5

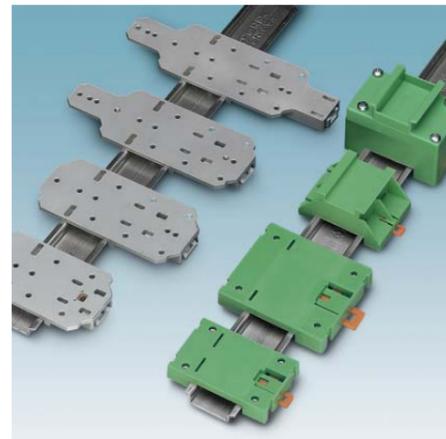
Note on PCB assembly:
The area available for assembly is reduced by 3 mm at the edges of the base elements and by 1.6 mm at the front edge of the lateral elements.



Profile racks and adapters

Profile racks and adapters

DIN rail adapter UTA,
DIN rail adapter EM-MP/SISM



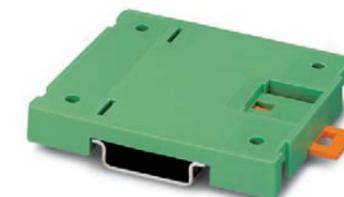
Universal DIN rail adapter



Mounting plate, closed design



Mounting plate, low design



Mounting plate, flat design

The UTA universal DIN rail adapters enable devices such as power supply units or sensor/actuator boxes to be snapped onto standard DIN rails in accordance with EN 60715.

The sturdy metal design with corrosion-resistant surface ensures a long service life and a secure grip even under extreme loads.

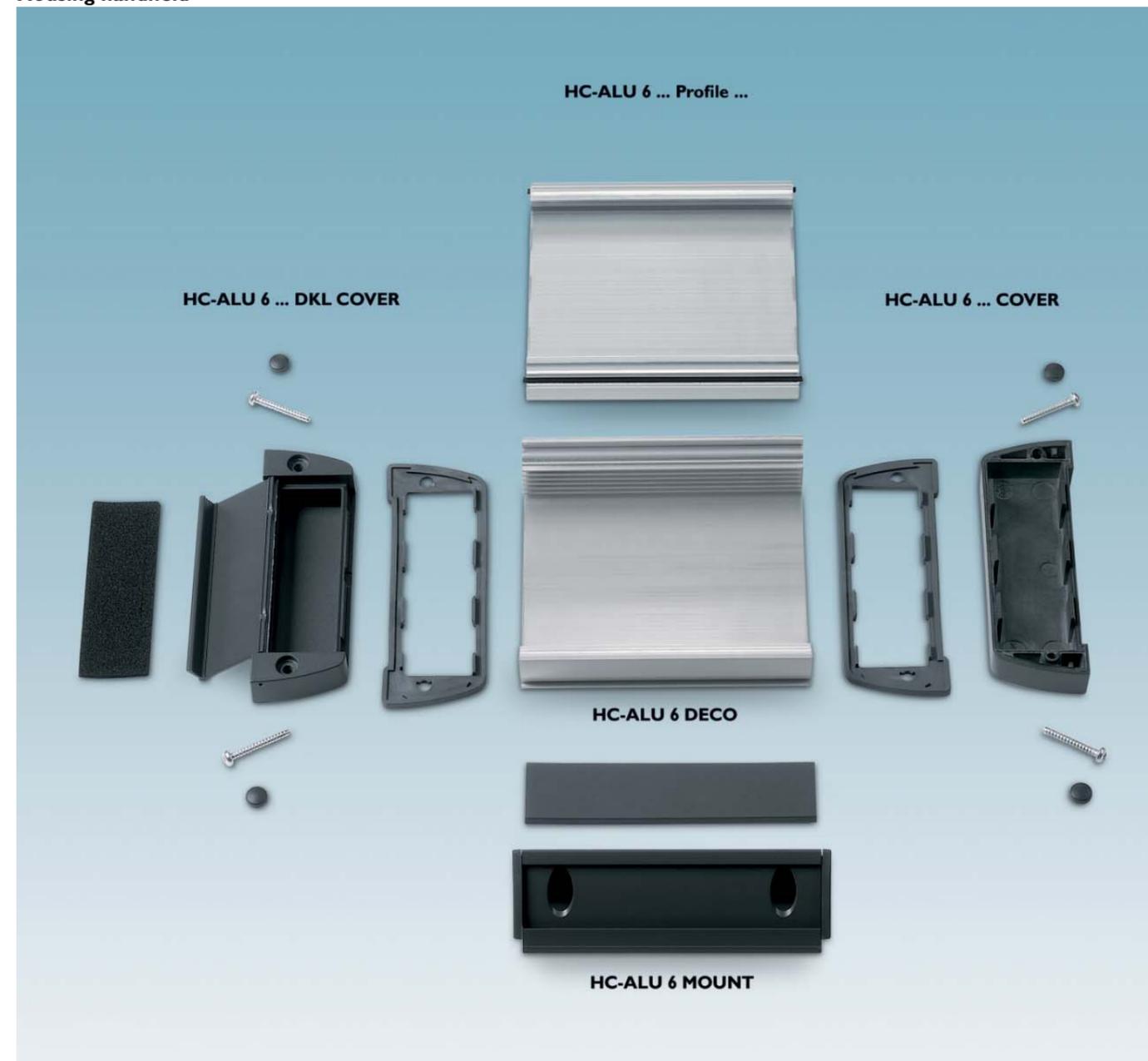
The EM-MP and SISM DIN-rail mountable mounting plates made from polycarbonate plastic are specially designed for small transformers of up to approx. 100 VA and offer additional installation space for interconnecting cables or electronic circuits.

Details concerning the dimensions of the DIN rail adapters can be found in the downloadcenter at www.phoenixcontact.net/products.

Technical data			
Type of housing	Zinc die-cast / -		
Electronic housings			
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Universal DIN rail adapter, for screwing on switchgear	UTA 89	2853970	5
	UTA 107	2853983	5
	UTA 130	2706412	5
	UTA 136	2853996	5
	UTA 159	2854018	5
	UTA 184	2854021	5
	Mounting plate, enclosed design, to snap on switchgear		
Mounting plate, for screwing on switchgear (M4 fastening thread)			

Technical data			Technical data			Technical data		
Polyamide fiber reinforced / V2			Polyamide fiber reinforced / V2			Polyamide fiber reinforced / V2		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
EM-MPG 45	2944177	10	SISM 45	2942865	10			
			SISM 45 H	2940139	10			
						EM-MP 45N	2943712	10
						EM-MP 70	2942742	10

Housing handheld



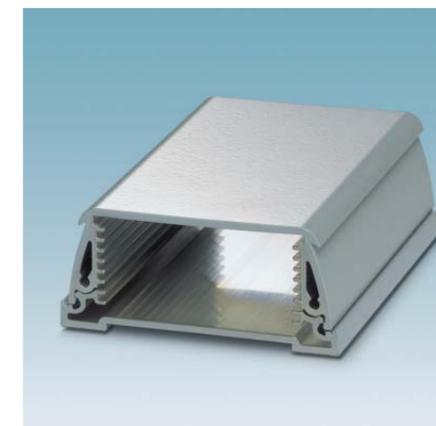
HC-ALU handheld housings, which are made from aluminum, provide protection for your electronics against both spray water and thermal and mechanical stress in the field.

The housing is particularly suitable for temperature ranges from -40°C to +70°C and offers IP65 protection according to DIN EN 60529.



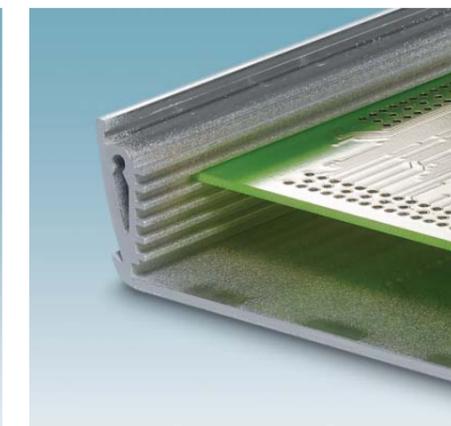
Split press-drawn section

The split housing enables the integration of elements which protrude through the front surface. Both profile halves securely latch together, making integrating a membrane keypad or display child's play.



Ergonomic design

The trapezoidal external shape of the housing improves ergonomics for the device operator. The level, smooth side of the housing also facilitates printing.



Unrestricted assembly

All PCBs have the same external dimensions and can be securely fixed in various locations in the housing. This provides the required flexibility for positioning various components or modules.



Intelligent interface

The COVERS have a 2 mm recessed surface for accommodating slides or labels. The version with mounting cover allows optional installation of plug-in connectors or sockets.

For improved EMC properties, an alternative version is available with a metal-filled seal.



Individual use

The sophisticated range of accessories opens up diverse applications. Decorative strips suitable for printing can be inserted into the grooves on the side of the housing. With the matching wall fastening, the housing can be used as a wall, operation, or front plate seal.



Added value from the works

In addition to the products which can be ordered from the catalog, we offer an extensive range of additional services from special profile lengths through additional mechanical processing and printing, and even membrane keypads.

Notes on power dissipation

Power dissipation values should be used as a guide only. They are largely dependent on:

- The PCB arrangement in the housing
- The position of components (as a source of heat)
- The number of assembled PCBs in the housing
- The mounting position of the housing

Reduction factor depending on the ambient temperature

Since the maximum permissible power dissipation decreases as the ambient temperature increases, the listed reduction factor (K_t) must be taken into account when calculating the permissible power dissipation.

Formula for calculating the power dissipation depending on the ambient temperature

$$P_{vtu} = P_{vt} \times K_t$$

Explanations:

- P_v = Power dissipation
- t_u = Ambient temperature
- $t = 20^\circ\text{C}$
- K_t = Reduction factor

Example:

Power dissipation at 40°C
 $P_{v,40^\circ\text{C}} = P_{v,20^\circ\text{C}} \times K_t = 10.8 \text{ W} \times 0.81 = 8.75 \text{ W}$

Reduction factor for CM compact component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60
K_t	1	0.83	0.65	0.48	0.33

Reduction factor for ME/ME BUS/ME TBUS/ME MAX modular component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60
K_t	1	0.91	0.81	0.7	0.57

Reduction factor for EG beaker-type component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60
K_t	1	0.80	0.62	0.47	0.30

Reduction factor for UEGH universal component housing

Ambient temperature [$^\circ\text{C}$]

	0	10	20	30	40	50	60
K_t	1.15	1.08	1	0.91	0.81	0.71	0.59

Reduction factor for UEG-EU universal component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60
K_t	1	0.87	0.75	0.58	0.49

Reduction factor for UEGM universal component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60	70	80
K_t	1	0.8	0.64	0.51	0.41	0.33	0.26

Reduction factor for UEG universal component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	40	60	70	80
K_t	1	0.78	0.61	0.48	0.37	0.29	0.23

Reduction factor for EFG single component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60
K_t	1	0.90	0.78	0.66	0.55

Reduction factor for EMG system component housing

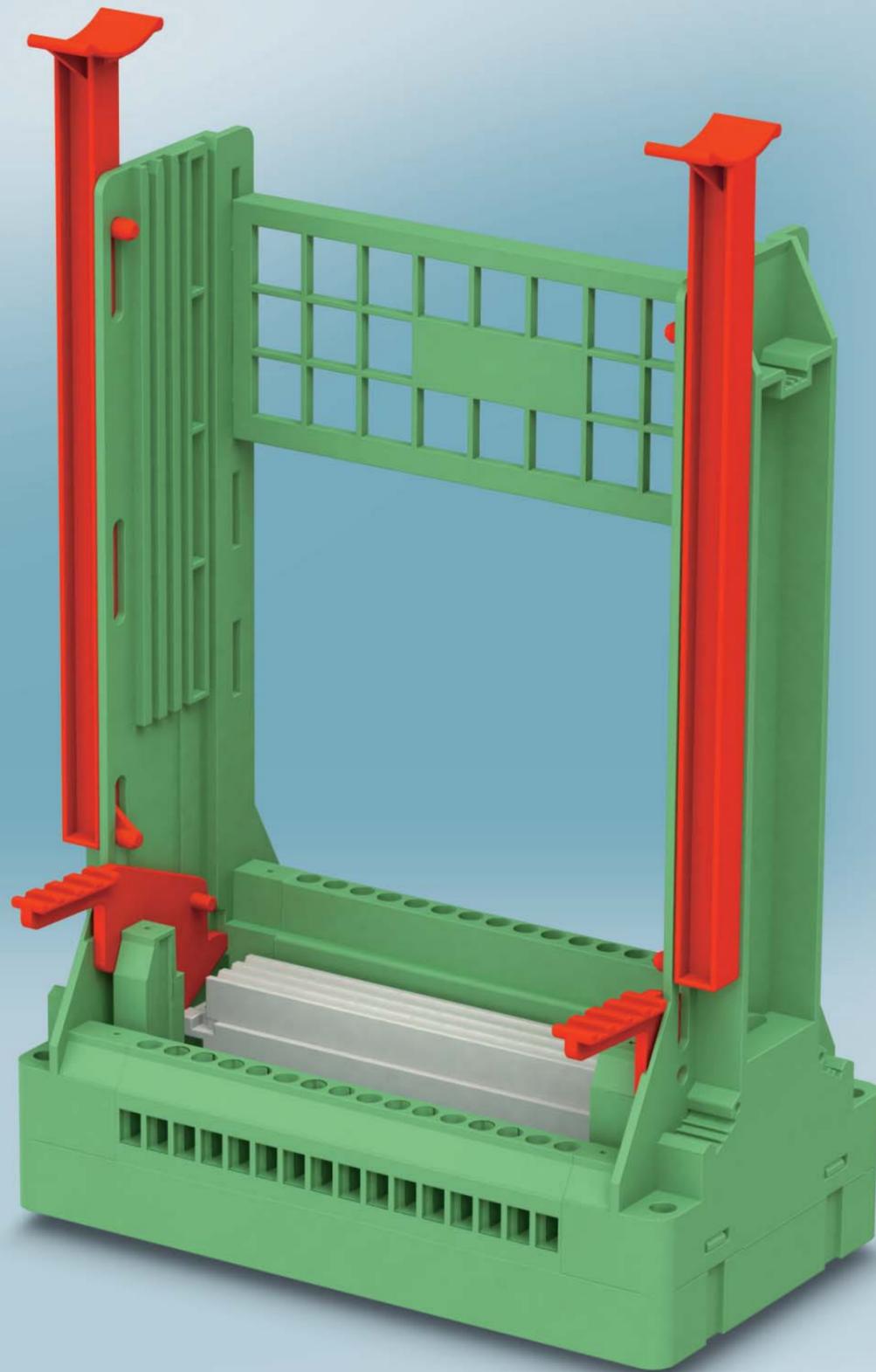
Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60
K_t	1	0.8	0.64	0.51	0.41

Reduction factor for BC installation component housing

Ambient temperature [$^\circ\text{C}$]

	20	30	40	50	60	70
K_t	1	0.84	0.72	0.60	0.48	0.38



Plug-in card blocks and socket strips according to DIN 41617 and IEC 60603-2/DIN 41612

Plug-in card blocks SKBI

SKBI plug-in card blocks for plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612 can be used to mount single or double European-format cards at any location in the control cabinet and wire them easily via a screw connection. The PCB is reliably supported in the rugged insulating housing and is automatically held in position by engagement catches which prevent it from falling out. The easy-to-operate ejectors make releasing the PCB easy, even where space is limited.

SFLY/FRONT-SFL screw-type socket strips

The SFLY and FRONT-SFL socket strips with screw connection at the rear have been developed for use in 19" racks. They are suitable for D and F design 32-pos. pin strips according to IEC 60603-2/DIN 41612. The special feature of the Y-shaped SFLY screw-type socket strip is the angled arrangement of the terminal blocks. In addition to user-friendly handling and a clear view during connection, the conductors can be laid in this "cable duct" without taking up any additional space.

Socket strip with spring-cage connection FRONT-ZFL 1,5/...

The FRONT-ZFL 1,5 D32 socket strip with a spring-cage connection at the rear has been specially developed for use in 19" racks. The installation dimensions and the labeling of the individual terminal points meet the requirements of IEC 60603-2/DIN 41612 for design D32.

General

SKBI plug-in card blocks For plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612	776
SFLY screw-type socket strips For pin strips according to IEC 60603-2/DIN 41612	788
Socket strips with FRONT-ZFL spring-cage connection For plug-in connectors according to IEC 60603-2/DIN 41612	789
FRONT-ZFL socket strip	
FRONT-SFL screw-type socket strips	790



General

Industrial electronics are a fixed component of conventional control engineering. PCBs in 100 x 160 mm European format are primarily used here.

Increased safety requirements and the higher density of components and connections are speeding up the trend toward the indirect contacting principle using pin strips according to DIN 41617 and IEC 60603-2/DIN 41612.

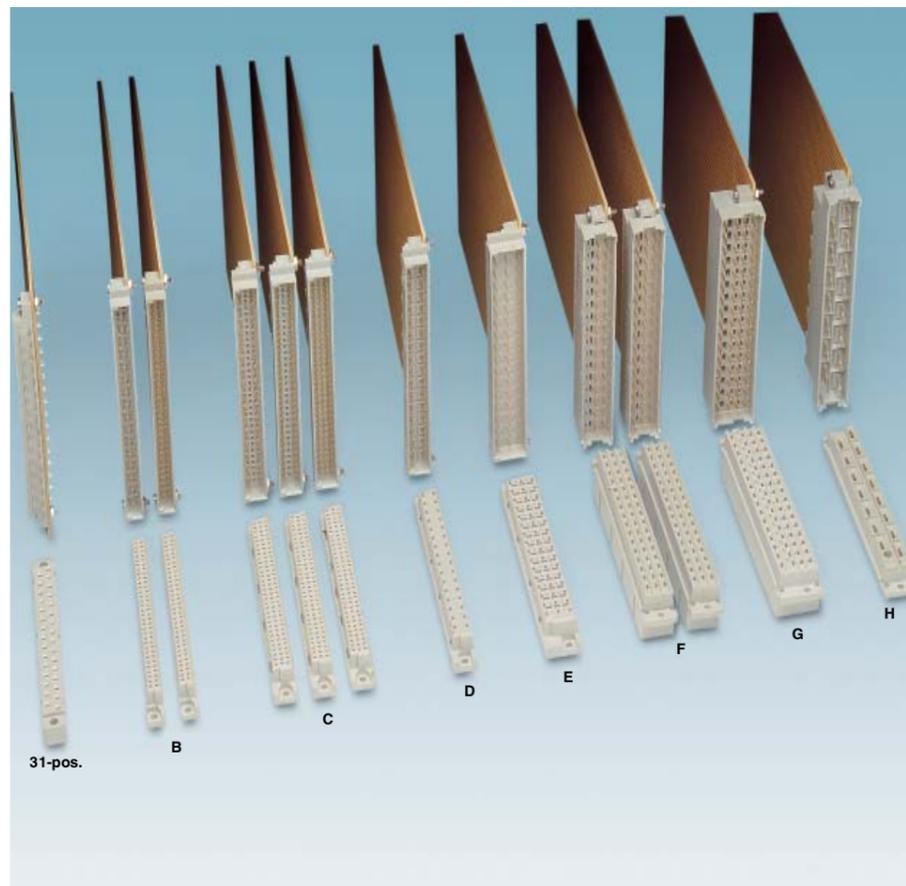
Plug-in cards are usually grouped together in the electronic racks of 19" cabinets. Although these types of racks are practical for many PCBs, they are expensive:

- If only one, two or three cards are installed and connected.
- If the PCB is distributed, thereby saving wiring in the control cabinet.
- If older systems are later modernized by adding one or two electronic cards.

Racks are expensive, bulky, and can only be accessed from the rear or with the aid of a complex swing frame. In addition, connections can often only be made with the Wire-Wrap® or TERMI-POINT® connection methods, which are not suitable for heavy currents.

These disadvantages are overcome by Phoenix Contact SKBI plug-in card blocks. They can be used to mount single or double European-format cards at any location in the control cabinet and wire them easily via a screw connection.

The PCB is reliably supported in the sturdy insulating housing and is automatically held in position by engagement catches which protect it from vibrations. The easy-to-operate ejectors make releasing the PCB easy, even where space is limited.



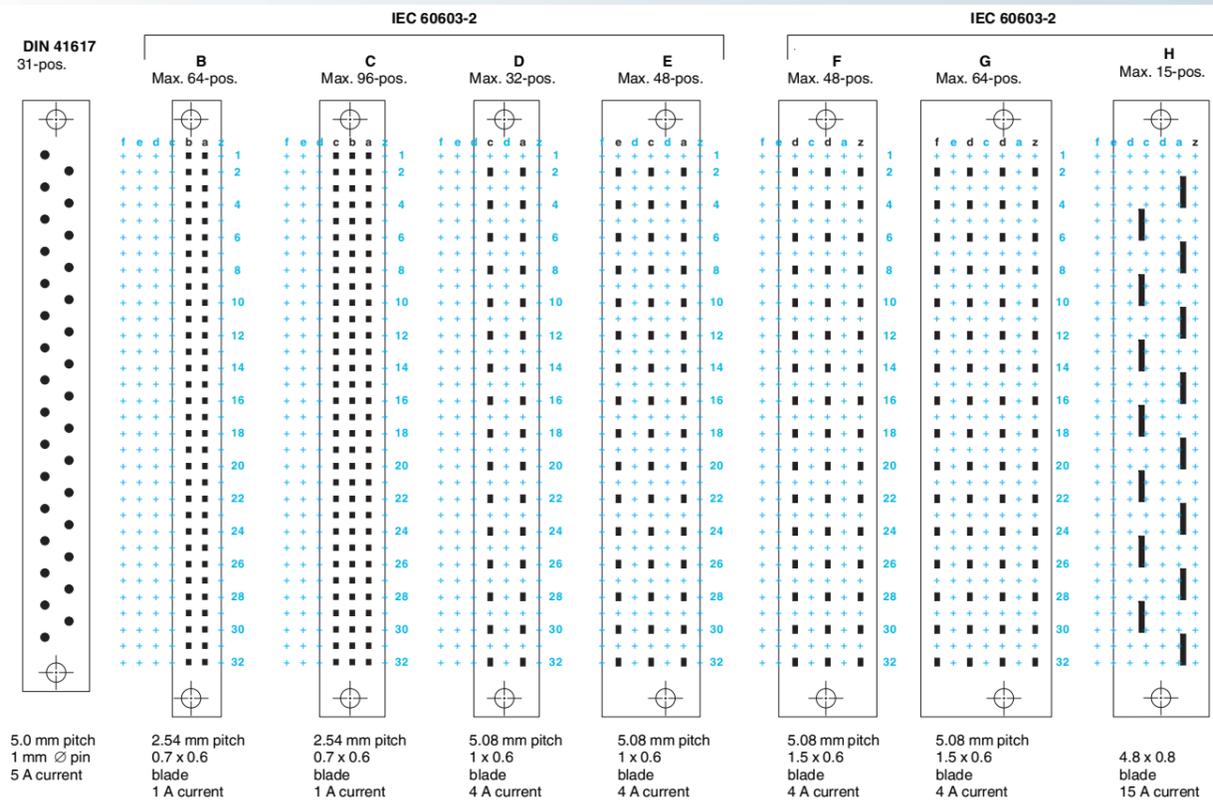
Plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612

With the introduction of the 100 x 160 mm European format, the 31-pos. pin strip according to DIN 41617 was commonly used at the beginning of the 1960s as an indirect plug-in connector. The exposed, round pins in a metric 5 mm zigzag arrangement are typical of these connectors.

The rapid developments in industrial electronics, i.e., the increasing packing density of electronic components on the PCB, required greater numbers of contacts. Moreover, safety requirements were designed for increased protection of the contact pins against mechanical damage and contamination. This led to the development of the plug-in connector according to IEC 60603-2/DIN 41617.

All types in this range are based on a pitch of 2.54 mm (one tenth of an inch). The seven vertical rows are marked z to f, the individual pins of the lines are marked 1 to 32 from top to bottom. All contacts are gold-plated. The standards also require that plug-in connectors consisting of pin and socket strips and made by different manufacturers should be compatible with one another.

Over time, two types with different contact assignments have emerged:



Series 1

Series 1 plug-in connectors are available both as a high-position version with closely spaced contacts and 1 A current carrying capacity, and (for industrial power electronics) with a smaller number of positions, a large 5.08 mm contact pitch, and contacts capable of carrying up to 4 A.

Type B

This 64-pos. plug-in connector results from the complete use of rows a and b. The contacts are dimensioned for a current carrying capacity of 1 A. The position spacing means that these connectors can be used for voltages up to 125 V according to DIN VDE 0110/Gr. B. In the 32-pos. version, only the even-numbered positions are used.

Type C

Adding row c produces this 96-pos. plug-in connector. If only the two outer rows, a and c, are used, the alternative type, C 64, results.

If this is further reduced to just the even-numbered positions of rows a and c, type C 32 with a 5.08 mm horizontal and vertical spacing of the 1 A contacts results. A nominal voltage of 250 V is thereby achieved according to DIN VDE 0110/Gr. C.

Type D

This connector has the same dimensions and the same contact arrangement (even-numbered positions in rows a and c) as type C 32. The only difference is the reinforced

contacts, which are capable of carrying a current of up to 4 A.

Type E

Adding rows d and e to type D 32 results in the 48-pos. connector with 4 A contacts with 5.08 mm pitch. This means that all even-numbered positions in rows a, c, and e are used.

Series 2

For series 2 plug-in connectors, the pitch of the rear connections in both directions is 5.08 mm. The row spacing on the plug-in side is just 3.81 mm. In addition, the creepage distances to ground are increased by raising the housing at the rear, resulting in a different wiring level from that of series 1.

The contacts are all capable of carrying up to 4 A. For this reason, series 2 plug-in connectors are primarily used in industrial power electronics.

The fixing hole is almost exactly in the center of the strip. The trick to this is that another contact row, marked z, is added in front of row a. (This comes from regarding the alphabet as a closed ring and counting backwards from a.)

Type F

In addition to the complete 48-pos. design which uses all even-numbered positions in rows z, b, and d, the DIN standard also includes a partially assembled 32-pos. version in rows z and b. Occasionally, to ensure larger mutual insulation distances, the positions in rows z and d may be used.

Type G

This type results from adding pitch rows e and f, while still using only the even-numbered positions.

Type H

These 15-pos. high-current strips have the same dimensions as types C and F. However, they are distinguished by a different plug-in geometry and amplified contacts with a current carrying capacity of 15 A.

Other types

In addition to the strips equipped with the same type of contacts, there are mixed types, e.g., H 7/F 24, shortened versions such as C 1/2, and inverted type R. All these, however, play a secondary role in practical industrial applications.

More details available on request.

Plug-in card blocks SKBI

31-pos. plug-in card block for European-format cards with indirect connection in accordance with DIN 41617

PCBs with 31-pos. connectors in accordance with DIN 41617 with the characteristic zig-zag layout of the round pins are still widely used.

In the case of the SKBI 31 plug-in card block, the pins make contact with gold-plated fork springs, which are floating, i.e. mechanically decoupled from the terminal point. This makes the contact resistance very stable and lower than 2 mΩ.

In order to prevent incorrect insertion of the PCBs and the plug-in card blocks, specific contact pins are cut off and the corresponding contact holes are closed with CS/SKBI keying pins.

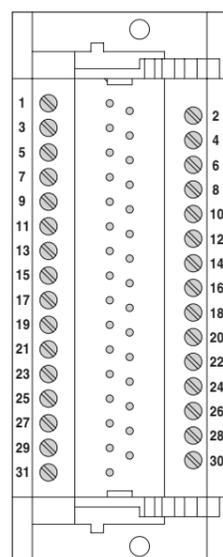
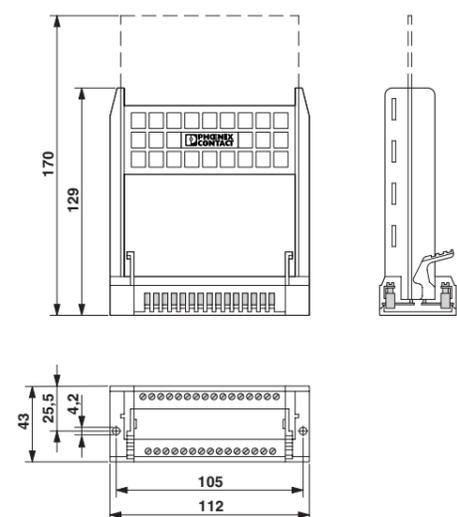


31-pos., in acc. with DIN 41617

General data	
Pitch	5 mm
Pin diameter	1.00 mm
Voltage	250 V
Current	5 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Technical data			
Description			
Plug-in card block, 31-pos. , for indirect connection in accordance with IEC 60603-1/DIN 41617, including guide rails, engagement catches and ejector, with standardized marking on both connection sides, as well as fixing screws M4			
Type	Order No.	Pcs. / Pkt.	
SKBI 31	2201519	1	

Accessories			
Snap-on foot , for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail			
SF-SKBI 31/32	2261009	10	
Keying pin , plastic, is subsequently inserted into a contact of the SKBI, color: Red			
CS-SKBI	2204082	100	
Screwdriver Blade: 0.6 x 3.5 x 100 mm, length: 181 mm			
SZS 0,6X3,5	1205053	10	



Plug-in card blocks

Plug-in card blocks

Plug-in card blocks SKBI

32-pos. plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/DIN 41612

The three blocks in this series permit insertion of PCBs with male connector designs C, D, and F in accordance with IEC 60603-2/DIN 41612. The blocks are labeled according to the standard and have spring-loaded engagement catches, which do not, however, act as ejectors.



32-pos., type C



32-position, type D



32-pos., type F, equipped in rows z and b



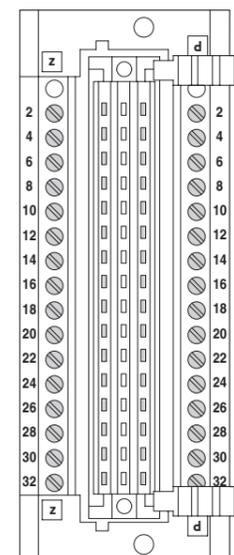
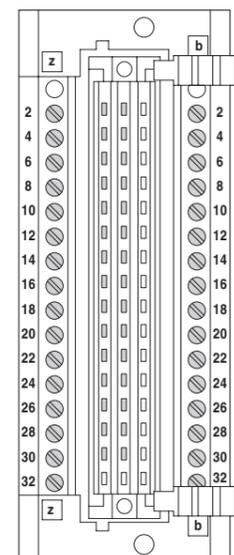
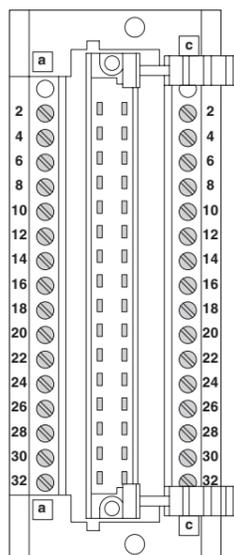
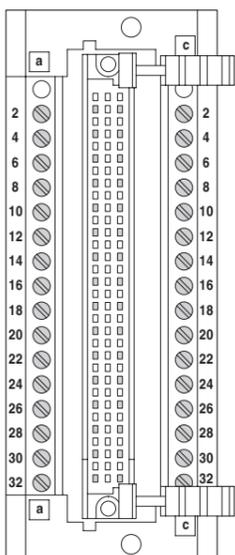
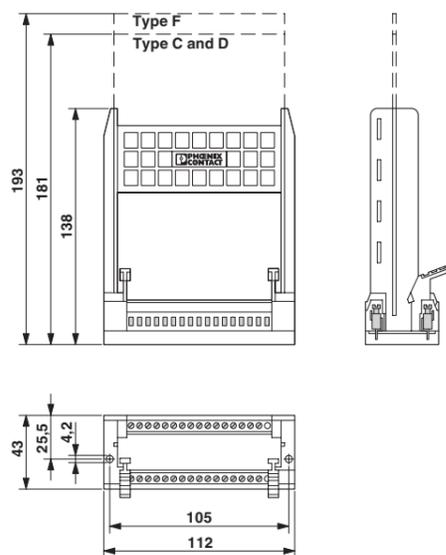
32-pos., type F, equipped in rows z and d

Technical data	
General data	
Pitch	5.08 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	250 V
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12
Ordering data	
Description	
Plug-in card block, 32-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails and engagement catches, without ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	
SKBI 32/C	2261038 1
Accessories	
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	
SF-SKBI 31/32	2261009 10
Keying pin, plastic, is subsequently inserted into a contact of the SKBI, color: Red	
CS-SKBI	2204082 100

Technical data	
General data	
Pitch	5.08 mm
Knife dimensions	1 x 0.6 mm
Voltage	250 V
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12
Ordering data	
Description	
Plug-in card block, 32-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails and engagement catches, without ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	
SKBI 32/D	2261054 1
Accessories	
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	
SF-SKBI 31/32	2261009 10

Technical data	
General data	
Pitch	5.08 mm
Knife dimensions	1.5 x 0.6 mm
Voltage	250 V (in acc. with DIN VDE 0110/Gr.B)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12
Ordering data	
Description	
Plug-in card block, 32-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails and engagement catches, without ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	
SKBI 32/F/ZB	2261096 1
Accessories	
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	
SF-SKBI 31/32	2261009 10

Technical data	
General data	
Pitch	5.08 mm
Knife dimensions	1.5 x 0.6 mm
Voltage	250 V (in acc. with DIN VDE 0110/Gr.B)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12
Ordering data	
Description	
Plug-in card block, 32-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails and engagement catches, without ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	
SKBI 32/F/ZD	2261106 1
Accessories	
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	
SF-SKBI 31/32	2261009 10



Plug-in card blocks SKBI

64-pos. plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/DIN 41612

These plug-in card blocks have double-level screw connection terminal block rows on both sides. The offset arrangement of the levels improves the conductor accessibility and the legibility of labels. The robust overall design of the block ensures sturdy support also for heavy PCBs. These are held in place by engagement catches with an ejector that can be operated from the front.



64-pos., type B



32-pos., type C, equipped in the even numbers of positions in rows a and c



64-pos., type C, equipped in rows a and c

General data	
Pitch	2.54 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	125 V (in acc. with DIN VDE 0110/Gr.B)
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Description	
Plug-in card block , 64-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail

Screwdriver
Blade: 0,6 x 3,5 x 100 mm, length: 181 mm

Technical data

Pitch	2.54 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	125 V (in acc. with DIN VDE 0110/Gr.B)
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/B64	2263023	1

Accessories

SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10

Technical data

Pitch	2.54 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/C32	2265034	1

Accessories

SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10

Technical data

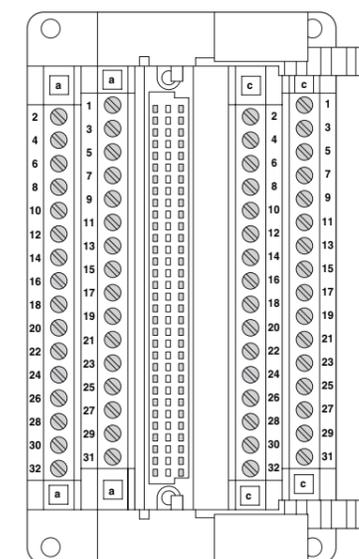
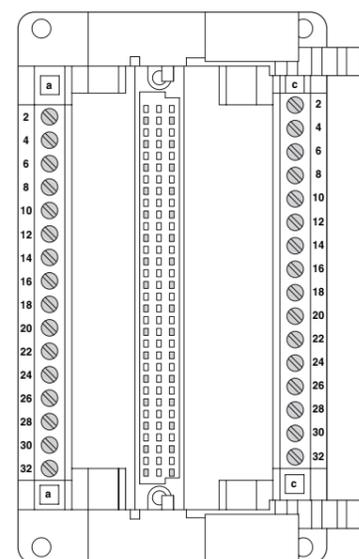
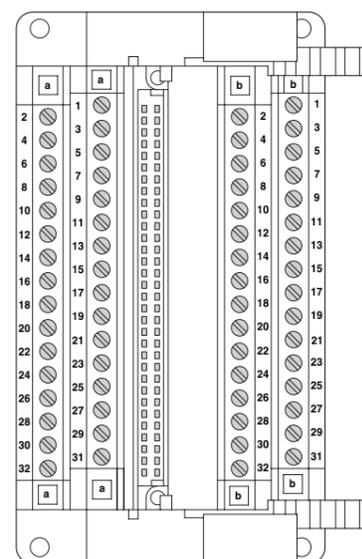
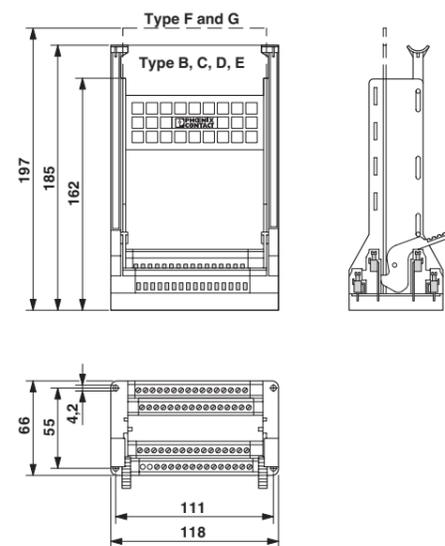
Pitch	2.54 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	125 V (in acc. with DIN VDE 0110/Gr.B)
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/C64	2263036	1

Accessories

SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10



Plug-in card blocks

Plug-in card blocks

Plug-in card blocks SKBI

Plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/DIN 41612

These plug-in card blocks have screw connection terminal block rows on both sides. Additional labeling makes it easier to connect the conductors. The robust overall design of the block ensures sturdy support for heavy PCBs as well. These are held in place by engagement catches with an ejector that can be operated from the front.



32-pos., type D, equipped in rows a and c



48-pos., type E, equipped in rows a, c, and e



48-pos., type F, equipped in rows z, b, and d



64-pos., type G, equipped in rows z, b, d, and f

General data	
Pitch	5.08 mm
Knife dimensions	1 x 0.6 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Description	
Plug-in card block , 64-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	
Screwdriver	Blade: 0,6 x 3,5 x 100 mm, length: 181 mm



Technical data

Pitch	5.08 mm
Knife dimensions	1 x 0.6 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/D32	2265050	1

Accessories

SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10



Technical data

Pitch	5.08 mm
Knife dimensions	1 x 0.6 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/E48	2264080	1

Accessories

SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10



Technical data

Pitch	5.08 mm
Knife dimensions	1.5 x 0.6 mm
Voltage	250 V (in acc. with DIN VDE 0110/Gr.B)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/F48	2264093	1

Accessories

SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10



Technical data

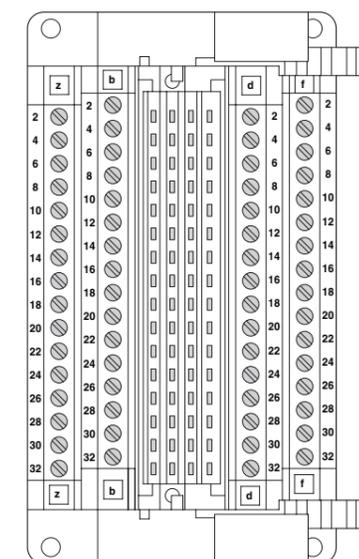
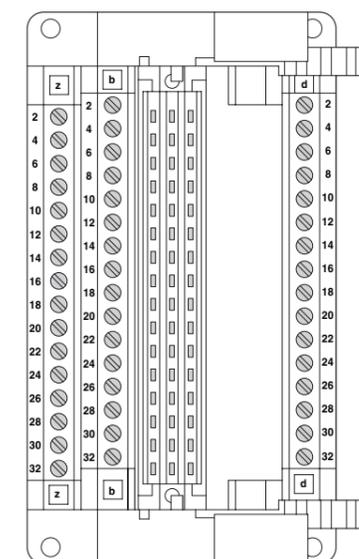
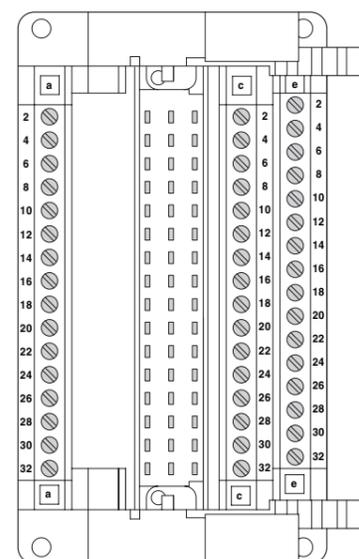
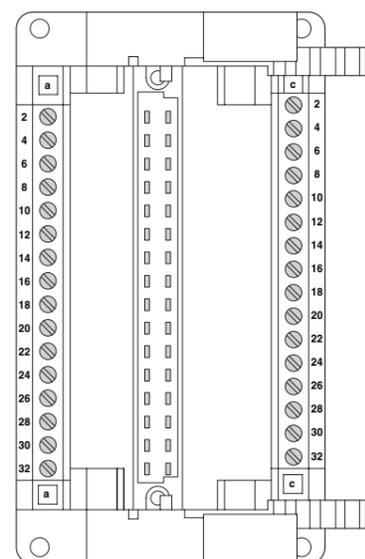
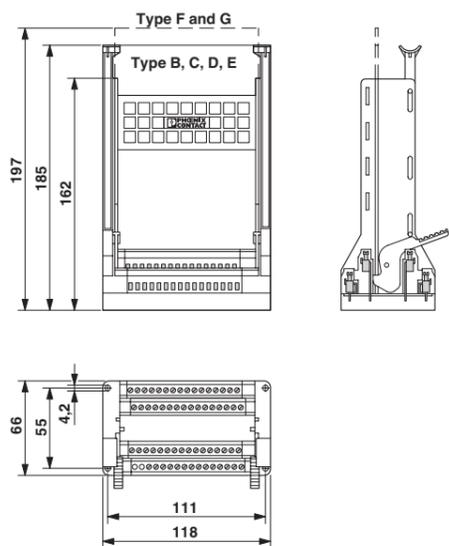
Pitch	5.08 mm
Knife dimensions	1.5 x 0.6 mm
Voltage	250 V (in acc. with DIN VDE 0110/Gr.B)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/G64	2263117	1

Accessories

SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10



Plug-in card blocks SKBI

15-pos. plug-in card blocks for European-format cards with H15 high-current socket strip in accordance with IEC 60603-2/DIN 41612

With these plug-in card blocks, single 19" power supply racks, e.g. switched-mode power supply units, can be mounted at any point in the control cabinet and easily wired with a screw connection. Every position of the H 15 high-current socket strip is assigned with either two 2.5 mm² MKDS 3, or one 4 mm² MKDS 5 connection terminal block. The robust overall design of the blocks ensures sturdy support also for heavy PCBs. After insertion, these are automatically secured against vibrations with two engagement catches with an ejector that can be operated from the front.



15-pos., 2.5 mm² connection cross section



15-pos., 4 mm² connection cross section

General data	
Knife dimensions	4,8 x 0,8 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	15 A
Stripping length	8 mm
Screw thread	M3
Torque	0,5 Nm ... 0,6 Nm
Connection data solid / stranded / AWG	0,2 ... 4 mm ² / 0,2 ... 2,5 mm ² / 24 - 12

Technical data			
4,8 x 0,8 mm			
250 V (surge voltage category III/contamination class 2)			
15 A			
8 mm			
M3			
0,5 Nm ... 0,6 Nm			
0,2 ... 4 mm ² / 0,2 ... 2,5 mm ² / 24 - 12			

Description	
Plug-in card block, with MKDS 3 screw terminal blocks and connection terminal blocks, and H15 high-current socket strip for indirect control in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	
Plug-in card block, with MKDS 5 screw connection terminal blocks and H15 high-current socket strip for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SKBI 64/H15-MKDS3	2269140	1	

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail		
SF-SKBI 64	2263007	10
Screwdriver		
Blade: 0,6 x 3,5 x 100 mm, length: 181 mm		
SZS 0,6X3,5	1205053	10

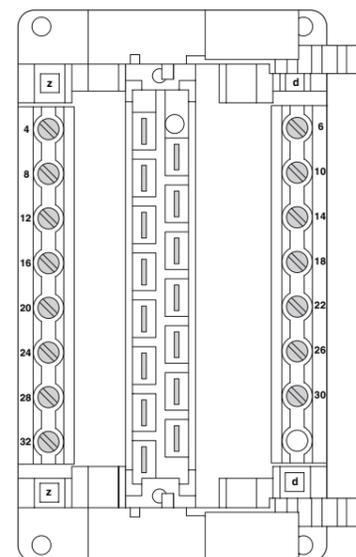
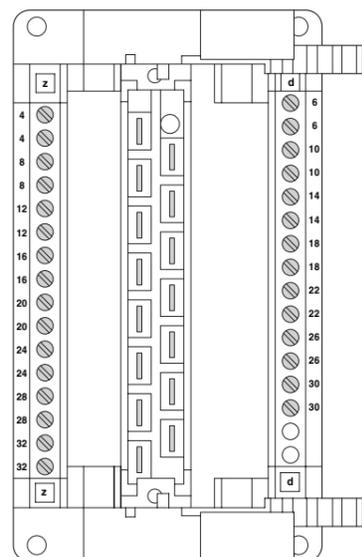
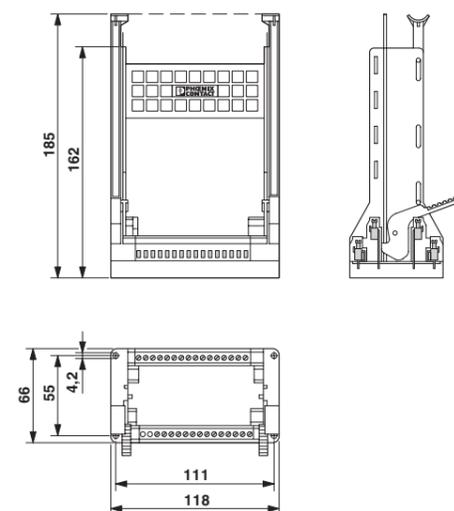
Accessories			
SF-SKBI 64	2263007	10	
SZS 0,6X3,5	1205053	10	

General data	
Knife dimensions	4,8 x 0,8 mm
Voltage	500 V (surge voltage category III/contamination class 2)
Current	15 A
Stripping length	8 mm
Screw thread	M3
Torque	0,5 Nm ... 0,6 Nm
Connection data solid / stranded / AWG	0,2 ... 6 mm ² / 0,2 ... 4 mm ² / 24 - 10

Technical data			
4,8 x 0,8 mm			
500 V (surge voltage category III/contamination class 2)			
15 A			
8 mm			
M3			
0,5 Nm ... 0,6 Nm			
0,2 ... 6 mm ² / 0,2 ... 4 mm ² / 24 - 10			

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SKBI 64/H15-MKDS5	2269153	1	

Accessories			
SF-SKBI 64	2263007	10	
SZS 0,6X3,5	1205053	10	



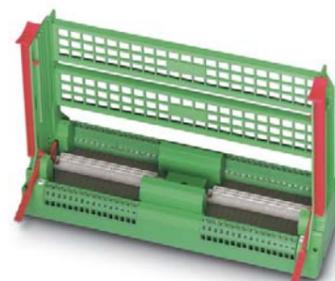
Plug-in card blocks SKBI

Notes:
Note:
 Current and voltage specifications are determined by the connector used.

128-pos. plug-in card blocks for double European-format cards with indirect connection in accordance with IEC 60603-2/DIN 41612

The desire to accommodate more and more components on one PCB has made the double European format (160 x 233.4 mm) very popular. However: With this PCB format, 19" racks become very expensive if only one, two or three PCBs must be accommodated in the control cabinet.

The SKBI 128 is mounted reliably on the base with five screws, and its rigid, rugged design safely supports the valuable PCBs, which are held in place by two engagement catches with an ejector which can be operated from the front.



Different types from 64- to 128-pos.

General data	
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Technical data

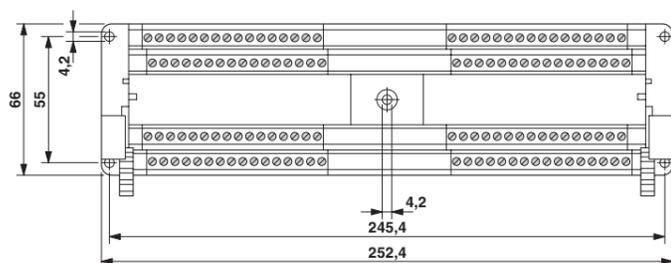
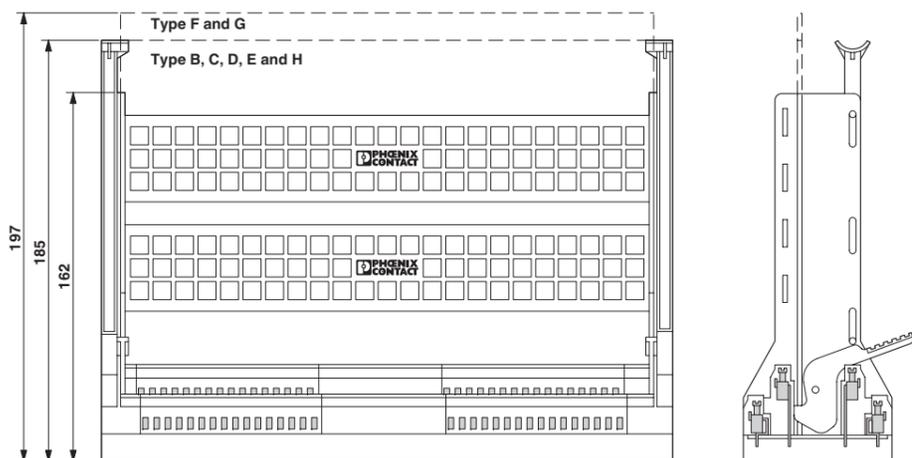
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12

Description

Plug-in card block, for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws with connectors

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 128-B64/B64	2268028	1
SKBI 128-C32/C32	2270032	1
SKBI 128-C64/C64	2268031	1
SKBI 128-D32/D32	2270058	1
SKBI 128-E48/E48	2269085	1
SKBI 128-F48/F48	2269098	1
SKBI 128-G64/G64	2268112	1



Screw-type socket strips

Screw-type socket strips

Socket strip with screw connection
SFLY 2,5/D 32

The SFLY 2,5/... Y-shaped socket strip with a screw connection at the rear has been developed for use in 19" racks. It is suitable for use with pin strip types D 32 or F 32 according to IEC 60603-2/DIN 41612.

The socket strips have partially gold-plated contact springs which conform to requirement category 3 in acc. with IEC 60603-2/DIN 41612. The screw connections are designed in accordance with the tension sleeve principle for 2.5 mm² connection cross sections.



32-position, type D



32-pos., type F, equipped in rows z and b



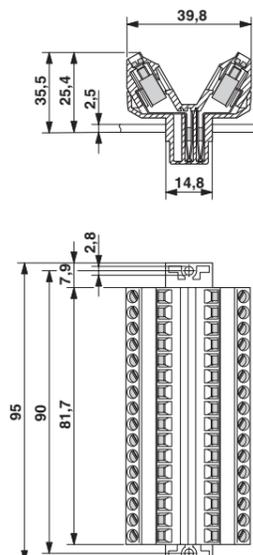
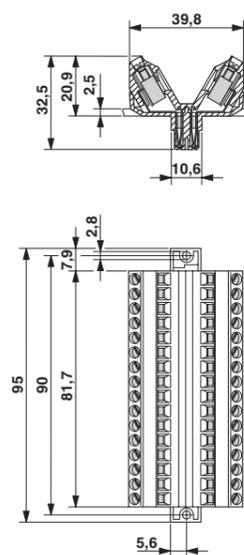
Technical data	
General data	
Voltage	250 V
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12
Surge voltage category / insulating material group	- / I
Insulation material	PA
Inflammability class in acc. with UL 94	V2
Temperature indices (RTI/TI)	120/100

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SFLY 2,5/D32	2285467	10	



Technical data	
General data	
Voltage	250 V
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12
Surge voltage category / insulating material group	- / I
Insulation material	PA
Inflammability class in acc. with UL 94	V2
Temperature indices (RTI/TI)	120/100

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SFLY 2,5/F32/ZB	2285506	10	



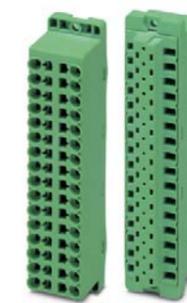
Socket strip with spring-cage connection
FRONT-ZFL 1,5/D 32

The FRONT-ZFL 1,5/D32 socket strip with a spring-cage connection at the rear has been specially developed for use in 19" racks. The installation dimensions and the labeling of the individual terminal points fulfill the requirements of IEC 60603-2/DIN 41612 for design D32.

The compact spring-cage technology allows solid and stranded conductors up to 1.5 mm² to be connected. With a nominal voltage of 250 V, currents of up to 4 A can be transmitted reliably.

When the FRONT-ZFL 1,5/D32 was being developed, care was taken to ensure clear separation between the conductor connection and the actuation opening, to permit simple and quick conductor connections. The integrated test connection with a 1 mm diameter makes it possible to constantly monitor the connected PCB.

On the plug-in card side, the socket strip has partially gold-plated contact forks that conform to requirement class 2 in acc. with IEC 60603-2/DIN 41612.



32-position, type D



Technical data	
General data	
Voltage	250 V
Current	4 A
Stripping length	11 mm
Rated surge voltage / pollution degree	4 kV / -
Surge voltage category / insulating material group	- / I
Insulation material	PBT
Inflammability class in acc. with UL 94	V0
Temperature indices (RTI/TI)	140/120
Certification data	
UL	[V] / [A] / AWG

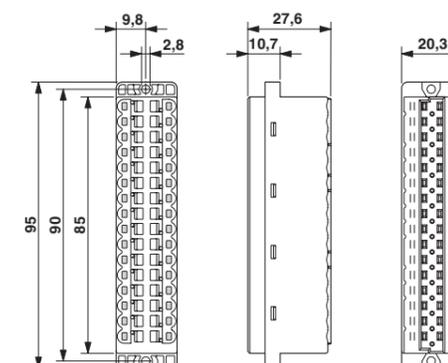
Ordering data			
Type	Order No.	Pcs. / Pkt.	
FRONT-ZFL 1,5/D32	2201632	10	

Accessories			
MPS-MT 1-S	1944372	1	
SZF 1-0,6X3,5	1204517	10	

Technical data	
General data	
Voltage	250 V
Current	4 A
Stripping length	11 mm
Rated surge voltage / pollution degree	4 kV / -
Surge voltage category / insulating material group	- / I
Insulation material	PBT
Inflammability class in acc. with UL 94	V0
Temperature indices (RTI/TI)	140/120
Certification data	
UL	[V] / [A] / AWG

Ordering data			
Type	Order No.	Pcs. / Pkt.	
FRONT-ZFL 1,5/D32	2201632	10	

Accessories			
MPS-MT 1-S	1944372	1	
SZF 1-0,6X3,5	1204517	10	



Screw-type socket strips

Screw-type socket strips

Screw-type socket strips
FRONT-SFL 2,5/...

The FRONT-SFL 2,5 socket strips with a screw connection at the rear are suitable for use in 19" racks. They are available in designs D32 or F32 and F48 in accordance with IEC 60603-2/DIN 41612.

The screw connections, which can be operated from the front, are designed for a connection cross section of 2.5 mm² per position and integrated into the compact housing (3 x pitch per line) in a practical way. The partially gold-plated contact springs conform to requirement category 3 in acc. with IEC 60603-2/DIN 41612

The asymmetrical design of the socket part ensures optimum use of the space on the printed circuit board and allows the strips to be aligned directly in the rack without gaps.

Each terminal block is marked according to the standard. Individual labeling is possible using the self-adhesive strips SK 5.



32-pos., type D, equipped in rows a and c



48-pos., type F, equipped in rows z, b, and d



32-pos., type F, equipped in rows z and b



32-pos., type F, equipped in rows z and d

General data	
Voltage	250 V
Current	4 A
Stripping length	10 mm
Screw thread	M2,5
Torque	0.4 Nm ... 0.5 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12
Insulation material	PA
Inflammability class in acc. with UL 94	V2
Temperature indices (RT/VI)	120/100
Certification data	
UL	[V] / [A] / AWG

Technical data			
250 V			
4 A			
10 mm			
M2,5			
0.4 Nm ... 0.5 Nm			
0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12			
PA			
V2			
120/100			
Ordering data			
Type	Order No.	Pcs. / Pkt.	
FRONT-SFL 2,5/D32	2285593	10	

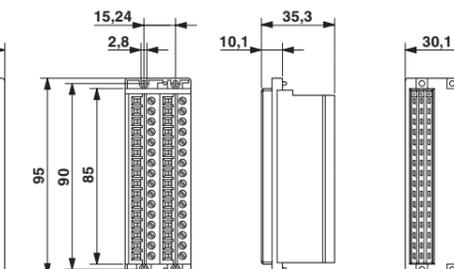
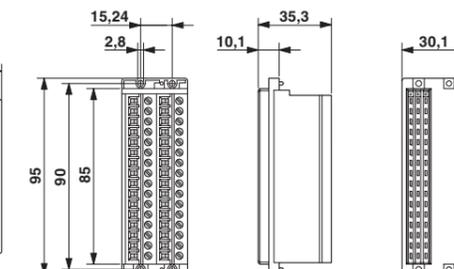
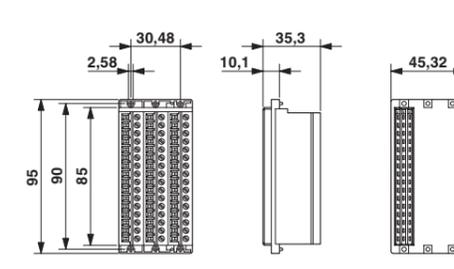
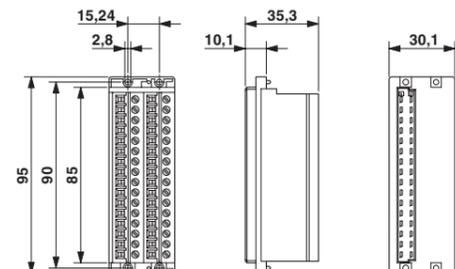
Description	
Screw-type socket strip, type D , 32-position, fully equipped in rows a + c, with standardized marking on both connection sides, one 2.5 mm ² screw connection per position	
Screw-type socket strip, type F , 48-position, fully equipped in rows z, b + d, one 2.5 mm ² screw connection per position	
Screw-type socket strip, type F , 32-position, partially equipped in rows z + b, one 2.5 mm ² screw connection per position	
Screw-type socket strip, type F , 32-position, partially equipped in rows z + d, one 2.5 mm ² screw connection per position	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
FRONT-SFL 2,5/D32	2285593	10	
FRONT-SFL 2,5/F48	2285603	10	
FRONT-SFL 2,5/F32/ZB	2285577	10	
FRONT-SFL 2,5/F32/ZD	2285580	10	

Technical data			
250 V			
4 A			
10 mm			
M2,5			
0.4 Nm ... 0.5 Nm			
0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12			
PA			
V2			
120/100			
Ordering data			
Type	Order No.	Pcs. / Pkt.	
FRONT-SFL 2,5/F48	2285603	10	

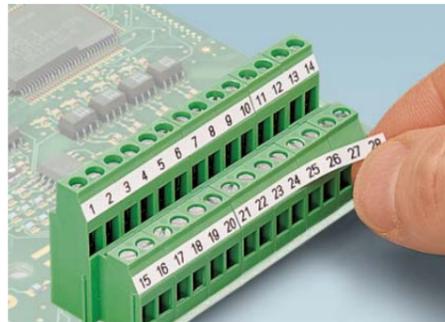
Technical data			
250 V			
4 A			
10 mm			
M2,5			
0.4 Nm ... 0.5 Nm			
0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12			
PA			
V2			
120/100			
Ordering data			
Type	Order No.	Pcs. / Pkt.	
FRONT-SFL 2,5/F32/ZB	2285577	10	

Technical data			
250 V			
4 A			
10 mm			
M2,5			
0.4 Nm ... 0.5 Nm			
0.2 ... 4 mm ² / 0.2 ... 2.5 mm ² / 24 - 12			
PA			
V2			
120/100			
Ordering data			
Type	Order No.	Pcs. / Pkt.	
FRONT-SFL 2,5/F32/ZD	2285580	10	

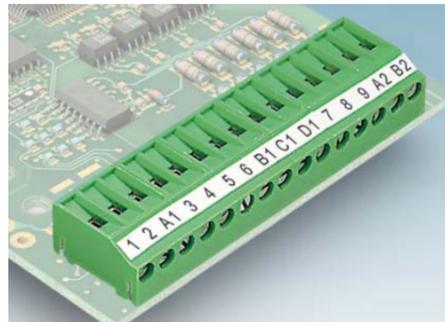




High resistance
 – High-quality marking materials guarantee high resistance to aggressive media and thereby ensure clear and permanent legibility



Marking after installation
 Unprinted PCB terminal blocks can be marked quickly and clearly even after they have been installed using TML and SK marking strips.



Individual marking
 Even very specific marking requirements such as special characters can be met with ease.



Reliable marking
 Labels that are resistant to high temperatures ensure reliable marking of components and PCBs during the production process and beyond.



Protection against static discharge
 ESD-safe labels can be used to mark components and PCBs that are at risk from electrostatic discharge.



Protection against tampering
 As these rating plates clearly show attempts at tampering, they cannot be reused.

Marking solutions for electronics and device production

Phoenix Contact offers marking solutions that are tailored to your requirements for clear component identification and consistent traceability in the production process.

We offer materials and printing systems that are customized to meet the specific challenges encountered when marking

- PCBs
- Housings
- PCB terminal blocks and plug-in connectors
- Conductors and cables

The complete marking portfolio for electronics and device production

The data for producing the markings is sent to the relevant printer by the CLIP PROJECT marking software which is supplied as standard. Quick and easy manual data entry or user-friendly transfer from CAE systems, spreadsheet programs, and word processing programs is supported.

If you are unable to find the appropriate markers for your application in the following catalog part, please visit our e-shop or contact us directly.

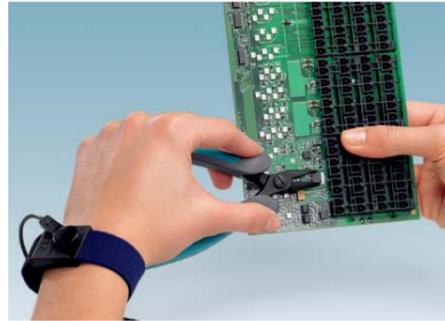
In order to handle peaks in demand, for example, you can also order materials ready printed from Phoenix Contact. To do this, use the ordering option in CLIP PROJECT or order via the e-shop.



Versatile use
 With self-laminating labels, both round and flat-ribbon cables can be marked clearly and without abrasion. The portfolio includes various other conductor markings.



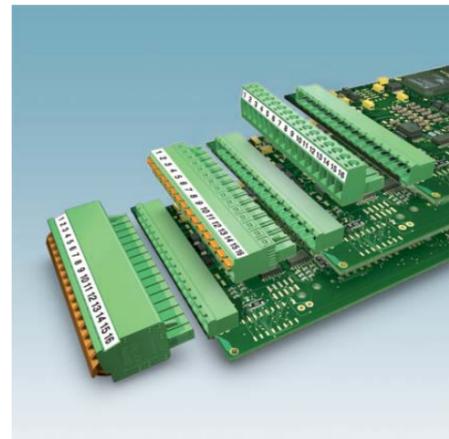
Easy and universal
 The THERMOMARK printing systems together with the CLIP PROJECT software offer custom marking options for your production process. Excellent printing quality and optimum printing accuracy increase device acceptance among users.



ESD safe
 MICROFOX ...ESD pliers are suitable for working on sensitive components, as the electrostatic energy is discharged safely by the special grip material.

SK marker cards

Self-adhesive marker strips for terminal blocks without a marker groove

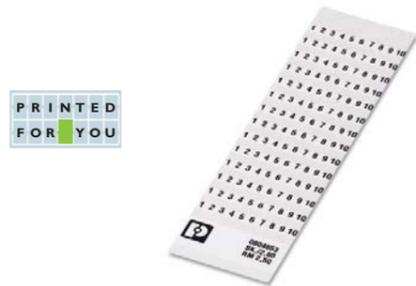


- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- The markers that are supplied on rolls can be quickly and cost-effectively labeled using THERMOMARK printers
- The markers that are supplied as cards can be easily labeled using standard laser printers
- Ideal for labeling COMBICON connectors
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements

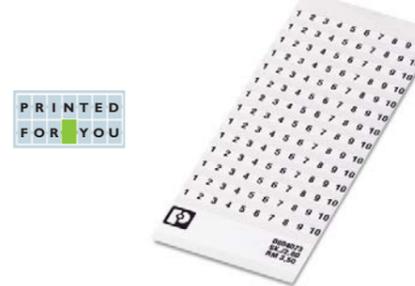
General data	
Material	
Temperature range	[-40 ... 150] [°C]
Wipe resistance	
Components	
Description	Color
Marker card, printed horizontally, self-adhesive, 10-section marking stripes, 14 identical decades marked with 1-10, 11-20, etc. up to 91-100, adequate for 140 terminal blocks (SK 2,54...-SK 3,81...max 2 characters per terminal)	white
Marker card, self-adhesive, marked according to customer specifications, 14-section marker strips, max. 25-pos. marking (SK...P2,54 to SK...P3,81 max. 2 characters per pos.)	white
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm	white
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m	white
	white

Technical data			
Polyester			
-40 ... 150			
DIN EN 61010-1 (VDE 0411-1)			
free from silicone and halogen			
Ordering data			
Type	Order No.	Pcs. / Pkt.	
SK 2,54/2,8:FORTL.ZAHLEN	0804853	10	
SK 2,8 REEL P2,54 WH CUS	0825120	1	
SK U/2,8 WH:UNBEDRUCKT	0803883	10	
SK 2,8 WH:REEL	0805205	1	

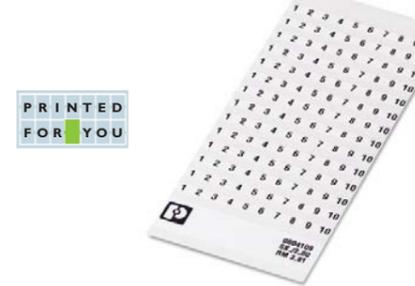
SK marker cards



Markers labeled with 2.54 mm pitch



Markers labeled with 3.5 mm pitch



Markers labeled with 3.81 mm pitch



Markers labeled with 5.08 mm pitch

Technical data		
Polyester		
-40 ... 150		
DIN EN 61010-1 (VDE 0411-1)		
free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 3,5/2,8:FORTL.ZAHLEN	0804073	10
SK 2,8 REEL P3,5 WH CUS	0825121	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1

Technical data		
Polyester		
-40 ... 150		
DIN EN 61010-1 (VDE 0411-1)		
free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 3,81/2,8:FORTL.ZAHLEN	0804109	10
SK 2,8 REEL P3,81 WH CUS	0825122	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1

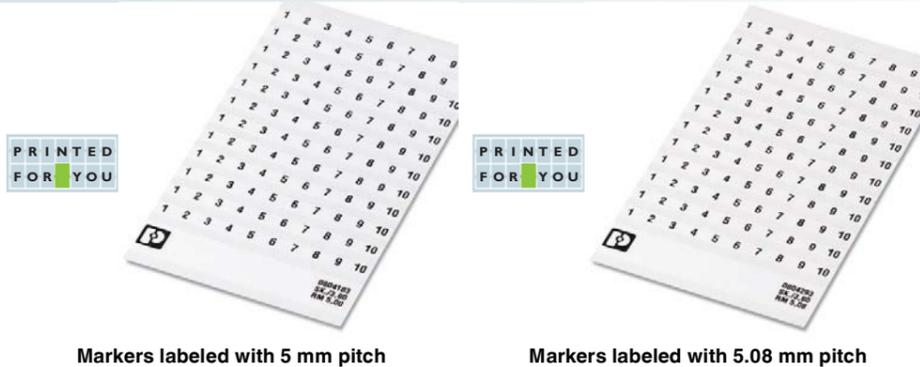
Technical data		
Polyester		
-40 ... 150		
DIN EN 61010-1 (VDE 0411-1)		
free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 5,08/2,8:FORTL.ZAHLEN	0804280	10
SK 2,8 REEL P5,08 WH CUS	0825123	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1



SK marker cards

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements



Markers labeled with 5 mm pitch

Markers labeled with 5.08 mm pitch

SK marker cards



Markers labeled with 6.2 mm pitch

Markers labeled with 7.5 mm pitch

Markers labeled with 7.62 mm pitch

General data	
Material	Polyester
Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen

Description	
Color	white
Description	Marker card, printed horizontally, self-adhesive, 10-section marker strip, 12 identical decades marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks
Description	Marker card, self-adhesive, marked according to customer specifications, 12-section marker strips, max. 25-pos. marking per strip
Description	Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm
Description	Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m

Technical data			
Material	Polyester	Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	Components	free from silicone and halogen

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SK 5/3,8:FORTL.ZAHLEN	0804183	10	
SK 3,8 REEL P5 WH CUS	0825124	1	
SK U/3,8 WH:UNBEDRUCKT	0803906	10	
SK 3,8 WH:REEL	0805218	1	

Technical data			
Material	Polyester	Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	Components	free from silicone and halogen

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SK 5,08/3,8:FORTL.ZAHLEN	0804293	10	
SK 3,8 REEL P5,08 WH CUS	0825125	1	
SK U/3,8 WH:UNBEDRUCKT	0803906	10	
SK 3,8 WH:REEL	0805218	1	

Technical data			
Material	Polyester	Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	Components	free from silicone and halogen

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SK 6,2/3,8:FORTL.ZAHLEN	0804374	10	
SK 3,8 REEL P6,2 WH CUS	0825126	1	
SK U/3,8 WH:UNBEDRUCKT	0803906	10	
SK 3,8 WH:REEL	0805218	1	

Technical data			
Material	Polyester	Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	Components	free from silicone and halogen

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SK 7,5/3,8:FORTL.ZAHLEN	0804455	10	
SK 3,8 REEL P7,5 WH CUS	0825127	1	
SK U/3,8 WH:UNBEDRUCKT	0803906	10	
SK 3,8 WH:REEL	0805218	1	

Technical data			
Material	Polyester	Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	Components	free from silicone and halogen

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SK 7,62/3,8:FORTL.ZAHLEN	0804549	10	
SK 3,8 REEL P7,62 WH CUS	0825128	1	
SK U/3,8 WH:UNBEDRUCKT	0803906	10	
SK 3,8 WH:REEL	0805218	1	

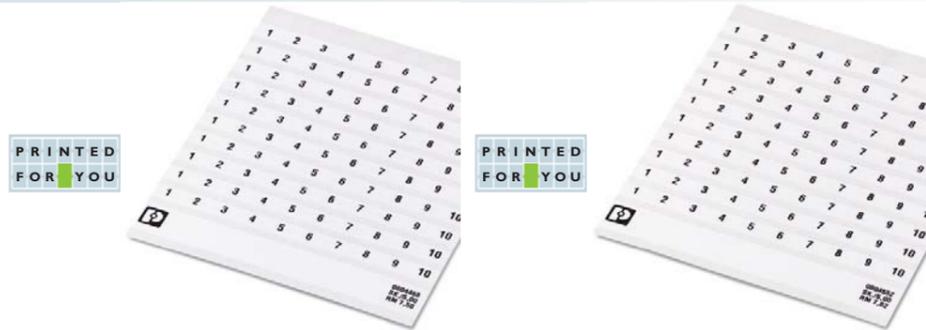
SK marker cards

SK marker cards

Self-adhesive marker strips for terminal blocks without a marker groove

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Labeling service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements



Markers labeled with 7.5 mm pitch

Markers labeled with 7.62 mm pitch



Markers with a strip length of up to 1000 mm

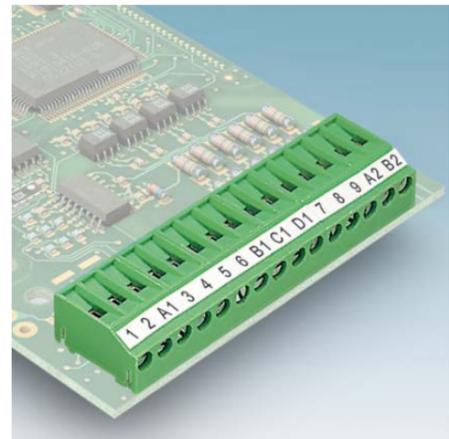


Markers with a strip length of up to 185 mm

General data		Technical data			Technical data		
Material		Polyester			Polyester		
Temperature range	[°C]	-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		free from silicone and halogen			free from silicone and halogen		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 10 identical decades marked 1-10, 11-20 etc. up to 91-100, for example, sufficient for 100 terminal blocks							
	white	SK 7,5/5:FORTL.ZAHLEN	0804468	10	SK 7,62/5:FORTL.ZAHLEN	0804552	10
Marker card, self-adhesive, marked according to customer specifications , 10-section marker strips, max. 25-pos. marking per strip							
	white	SK 5,0 REEL P7,5 WH CUS	0825131	1	SK 5,0 REEL P7,62 WH CUS	0825132	1
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm							
	white	SK U/5,0 WH:UNBEDRUCKT	0803922	10	SK U/5,0 WH:UNBEDRUCKT	0803922	10
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m							
	white	SK 5,0 WH:REEL	0805221	1	SK 5,0 WH:REEL	0805221	1

General data		Technical data			Technical data		
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1			CMS-P1-PLOTTER • Office printing systems		
Material		Polyester			Polyester		
Temperature range	[°C]	-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		free from silicone and halogen			free from silicone and halogen		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m							
	white	SK 2,8 WH:REEL	0805205	1			
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m							
	white	SK 3,8 WH:REEL	0805218	1			
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m							
	white	SK 5,0 WH:REEL	0805221	1			
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 7 strips, strip height of 10 mm, 1 roll = 90 m							
	white	SK 10,0 WH:REEL	0812188	1			
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm							
	white				SK U/2,8 WH:UNBEDRUCKT	0803883	10
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm							
	white				SK U/3,8 WH:UNBEDRUCKT	0803906	10
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm							
	white				SK U/5,0 WH:UNBEDRUCKT	0803922	10

Self-adhesive marker strips for terminal blocks without a marker groove



– The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove



Thermal transfer for rolls



Unlabeled

General data	
Can be printed with:	
Number of individual labels per strip	1
Material	Polyester
Temperature range	-40 ... 150 [°C]
Wipe resistance	
Components	

Technical data

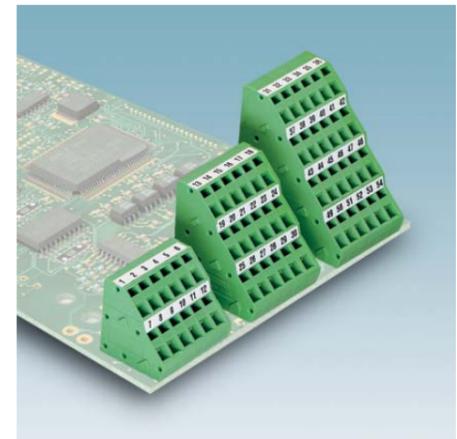
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Description	Color
Self-adhesive marker strips, unprinted	
1 roll = 2500 strips, lettering field size: 104 x 2.8 mm	white
1 roll = 2500 strips, lettering field size: 104 x 3.8 mm	white
1 roll = 2500 strips, lettering field size: 104 x 5 mm	white
1 roll = 1500 strips, lettering field size: 104 x 10 mm	white

Ordering data

Type	Order No.	Pcs. / Pkt.
TML (104X2,8)R	0801832	1
TML (104X3,8)R	0801833	1
TML (104X5)R	0801834	1
TML (104X10)R	0801835	1

Self-adhesive marker strips for terminal blocks without marker groove, continuous



– The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove
 – The marker strips are automatically perforated or cut to the required length during the printing process



Thermal transfer for rolls



Unlabeled

General data	
Can be printed with:	
Number of individual labels per strip	14
Material	Polyester
Temperature range	-40 ... 150 [°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Description	Color
Self-adhesive marker strips, unprinted, continuous	
1 roll = 30 m continuous, strip height: 2.8 mm	white
1 roll = 30 m continuous, strip height: 3.8 mm	white
1 roll = 30 m continuous, strip height: 5 mm	white
1 roll = 30 m continuous, strip height: 7 mm	white
1 roll = 30 m continuous, strip height: 10 mm	white

Ordering data

Type	Order No.	Pcs. / Pkt.
TML (EX2,8)R	0801836	1
TML (EX3,8)R	0801837	1
TML (EX5)R	0801838	1
TML (EX7)R	0830837	1
TML (EX10)R	0801839	1

ZB/ZBF Zack marker strip

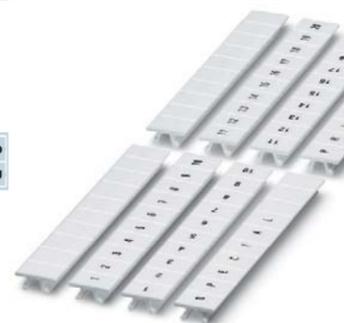
ZB/ZBF Zack marker strip

Zack marker strip terminal marking for a vertical marker groove

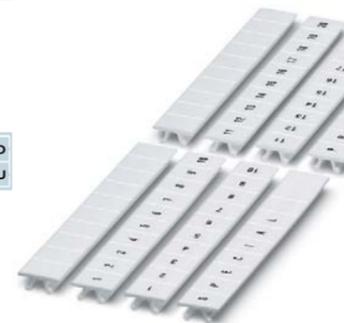
- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements



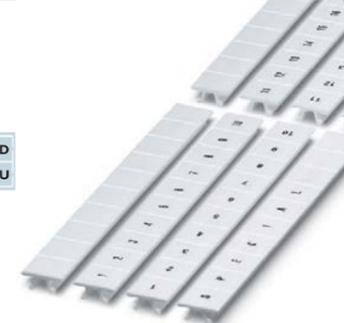
Plotter



Markers for a terminal block width of 7.5 mm



Markers for a terminal block width of 7.62 mm



Markers for a terminal block width of 10.2 mm

Notes:
 1) 10 identically marked strips make up one packing unit (PU).

General data		Technical data		
Can be printed with:		CMS-P1-PLOTTER		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 100		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		free from silicone and halogen		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks				
as above, however, large batch, sufficient for 1000 terminal blocks	white	ZB 7,5:UNBEDRUCKT	0803948	10
	white			
Zack marker strip, printed horizontally, 10-section, with consecutive numbers, e.g. 1-10, 11-20, etc. up to 91-100 ¹⁾	white			
Zack marker strip, printed horizontally, 10-section, with same numbers, e.g. 1/1/1, 2/2/2, etc. up to 100/100/100 ¹⁾	white			
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE ¹⁾	white			
U, V, W, N, ↓	white			
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g. 1-10, 11-20, etc. up to 91-100 ¹⁾	white			
Zack marker strip, special printing, 10-section, divisible, marking according to customer requirements, please specify the desired marking with order	white			
	white	ZB 7,5 CUS	0824994	1
Marker pen, refillable,		Accessories		
for manual labeling, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, delivered without ink		X-PEN 0,35	0811228	1
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZB	5144699	1

Technical data		Technical data		
CMS-P1-PLOTTER		CMS-P1-PLOTTER		
PA		PA		
V2		V2		
-40 ... 100		-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)		
free from silicone and halogen		free from silicone and halogen		
Ordering data		Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Pcs. / Pkt.
ZB 7,62:UNBEDRUCKT	1054000	10	ZB 10:UNBEDRUCKT	1053001
ZB 7,62/WH-100:UNBEDRUCKT	5060922	100	ZB10/WH-100:UNBEDRUCKT	5060883
ZB 7,62,LGS:FORTL.ZAHLEN	1054233	10	ZB10,LGS:FORTL.ZAHLEN	1053014
			ZB10,LGS:GLEICHE ZAHLEN	1053030
			ZB10,LGS:L1-N,PE	1053412
			ZB10,LGS:U-N	1053438
			ZB10,QR:FORTL.ZAHLEN	1053027
ZB 7,62 CUS	0824997	1	ZB 10 CUS	0824941
Accessories		Accessories		
X-PEN 0,35	0811228	1	X-PEN 0,35	0811228
CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699

ZB/ZBF Zack marker strip

Terminal block and module marking with flat Zack marker strip



Plotter

The ZBF flat Zack marker strip is designed for marking terminal blocks, equipment and smaller modules with Phoenix Contact marker grooves.

The flat Zack marker strip is available in all common pitches as labeled or unlabeled versions.

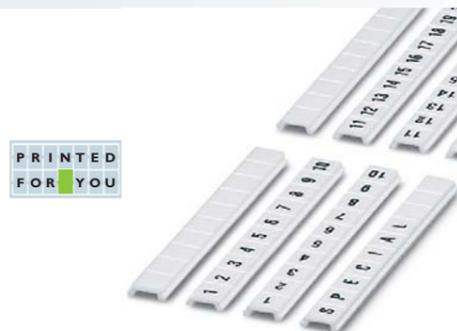
Further pitches and labelings are possible on request.

Notes:
 1) 10 identically marked strips make up one packing unit (PU).

General data	
Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Zack flat marker strip, 10-section, unprinted: for individual labeling with TML (101X4,2)R TR, X-PEN or CMS-P1- PLOTTER, sufficient for labeling 100 terminal blocks per pack	white
	white
Flat Zack marker strip, 10-section, printed horizontally: with consecutive numbers, e.g. 1-10, 11-20, etc. up to 91-100 ¹⁾	white
Zack marker strip, flat, printed horizontally, 10-section, with even numbers, e.g. 2-20, 22-40, etc. up to 82-100 ¹⁾	white
Zack marker strip, flat, printed horizontally, 10-section, with odd numbers, e.g. 1-19, 21-39, etc. up to 81-99 ¹⁾	white
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g. 1-10, 11-20, etc. up to 91-100 ¹⁾	white
Zack marker strip, flat, special printing, 10-section, divisible, marking according to customer requirements, please specify the desired marking with order	white
	white

Accessories	
Marker pen, refillable, for manual labeling, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, delivered without ink	
Magazine, for CMS-P1-PLOTTER	



Markers for a terminal block width of 5.2 mm

Technical data	
CMS-P1-PLOTTER	
PA	
V2	
-40 ... 100	[°C]
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ZBF 5:UNBEDRUCKT	0808642	10	
ZBF 5/WH-100:UNBEDRUCKT	0808668	100	
ZBF 5,LGS:FORTL.ZAHLEN	0808671	10	
ZBF 5,LGS:GERADE ZAHLEN	0810821	10	
ZBF 5,LGS:UNGERADE ZAHLEN	0810863	10	
ZBF 5,QR:FORTL.ZAHLEN	0808697	10	
ZBF 5 CUS	0825025	1	

Accessories			
X-PEN 0,35	0811228	1	
CMS-P1-M/ZBF	5144709	1	

ZB/ZBF Zack marker strip



Markers for a terminal block width of 7.5 mm

Technical data	
CMS-P1-PLOTTER	
PA	
V2	
-40 ... 100	[°C]
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ZBF 7,5:UNBEDRUCKT	0809942	10	
ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	10	
ZBF 7,5,QR:FORTL.ZAHLEN	0809968	10	
ZBF 7,5 CUS	0825028	1	

Accessories			
X-PEN 0,35	0811228	1	
CMS-P1-M/ZBF	5144709	1	



Markers for a terminal block width of 10.2 mm

Technical data	
CMS-P1-PLOTTER	
PA	
V2	
-40 ... 100	[°C]
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ZBF10:UNBEDRUCKT	0809997	10	
ZBF10,LGS:FORTL.ZAHLEN	0810009	10	
ZBF10,QR:FORTL.ZAHLEN	0810025	10	
ZBF10 CUS	0825031	1	

Accessories			
X-PEN 0,35	0811228	1	
CMS-P1-M/ZBF	5144709	1	



Markers for a terminal block width of 15 mm

Technical data	
CMS-P1-PLOTTER	
PA	
V2	
-40 ... 100	[°C]
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
ZBF 15:UNBEDRUCKT	0811202	10	
ZBF 15 CUS	0825019	1	

Accessories			
X-PEN 0,35	0811228	1	
CMS-P1-M/ZBF	5144709	1	

Stick-on device marking

Can be printed with:



Thermal transfer for rolls



Unlabeled, white



Unlabeled, yellow



Unlabeled, silver



- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the labeling is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- **Designation example:**
EML (10X4)R...
Lettering field size: 10 x 4 mm
Type of packaging: roll

Notes:
The THERMOMARK ROLL-ERH external media hub is required for RL rolls, see under "Printers" on page 820.
For additional label sizes, see the product area on our website at www.phoenixcontact.net/products

General data	
Can be printed with:	
Material	Polyester
Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen

Description	Color
Labels	
10,000 labels p. roll	
10,000 labels p. roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
10,000 labels p. roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
1000 labels p. roll	
2500 labels per roll	
2500 labels per roll	
1000 labels p. roll	
1000 labels p. roll	
1000 labels p. roll	
400 labels p. roll	
2500 labels per roll	
300 labels p. roll	
300 labels p. roll	
250 labels p. roll	
Labels, on large roll	
10,000 labels p. roll	
3000 labels p. roll	
3000 labels p. roll	
2500 labels per roll	
1000 labels p. roll	
Labels, round, 17.5 mm diameter	
2500 labels per roll	white
Continuous labels, on large roll	
Width: 37 mm, length: 90 m	transparent
Continuous labels, on large roll, length: 90 m	
Width: 100 mm, length: 90 m	

Technical data				
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1				
Polyester				
-40 ... 150				
DIN EN 61010-1 (VDE 0411-1)				
free from silicone and halogen				
Ordering data				
Type	Order No.	Pcs. / Pkt.		
EML (10X4)R	0815583	1		
EML (10X7)R	0816663	1		
EML (15X9)R	0815677	1		
EML (16,5X5)R	0816702	1		
EML (16X7)R	0818001	1		
EML (17,5X8)R	0816744	1		
EML (19X6)R	0816760	1		
EML (20X8)R	0816786	1		
EML (25,4X12,7)R	0816825	1		
EML (30X20)R	0816922	1		
EML (38X17)R	0816951	1		
EML (40X8)R	0816980	1		
EML (40X25)R	0818027	1		
EML (51X25)R	0817028	1		
EML (70X32)R	0817060	1		
EML (70X50)R	0817099	1		
EML (90X5)R	0817109	1		
EML (100X40)R	0800286	1		
EML (100X73)R	0817125	1		
EML (100X90)R	0817154	1		
EML (16,5X5)RL	0816113	1		
EML (25,4X12,7)RL	0816087	1		
EML (38,1X19)RL	0816171	1		
EML (50,8X25,4)RL	0816184	1		
EML (69,8X31,8)RL	0816197	1		
EML (D17,5)R	0815774	1		
EML (37XE)RL TR	0815716	1		

Technical data			
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1			
Polyester			
-40 ... 150			
DIN EN 61010-1 (VDE 0411-1)			
free from silicone and halogen			
Ordering data			
Type	Order No.	Pcs. / Pkt.	
EML (10X7)R YE	0816676	1	
EML (15X6) R YE	0819288	1	
EML (15X9)R YE	0816045	1	
EML (16,5X5)R YE	0816728	1	
EML (16X7)R YE	0816731	1	
EML (17,5X8)R YE	0816757	1	
EML (20X7)R YE	0816773	1	
EML (20X8)R YE	0816799	1	
EML (25,4X12,7)R YE	0816838	1	
EML (26,5X17,5)R YE	0816896	1	
EML (30X20)R YE	0816935	1	
EML (40X25)R YE	0816977	1	
EML (51X25)R YE	0817031	1	
EML (70X32)R YE	0817073	1	
EML (100X73)R YE	0817138	1	
EML (16,5X5)RL YE	0816126	1	
EML (17,5X8)RL YE	0816139	1	
EML (18X7)RL YE	0802733	1	
EML (76,2X6,5)RL YE	0816207	1	

Technical data				
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1				
Polyester				
-40 ... 150				
DIN EN 61010-1 (VDE 0411-1)				
free from silicone and halogen				
Ordering data				
Type	Order No.	Pcs. / Pkt.		
EML (15X9)R SR	0816032	1		
EML (21,5X21,5)R SR	0816812	1		
EML (26,5X7,5)R SR	0816841	1		
EML (26,5X12)R SR	0816854	1		
EML (26,5X17,5)R SR	0816883	1		
EML (26,5X18,5)R SR	0816906	1		
EML (26,5X26,5)R SR	0816919	1		
EML (40X15)R SR	0815729	1		
EML (51X25)R SR	0817002	1		
EML (70X32)R SR	0817057	1		
EML (70X50)R SR	0817086	1		
EML (100X40)R SR	0802697	1		
EML (100X73)R SR	0817112	1		
EML (100X90)R SR	0817141	1		
EML (101,6X25,4)RL SR	0815790	1		
EML (100XE)RL SR	0815787	1		

Stick-on device marking, for high-temperature applications

Can be printed with:



Thermal transfer for rolls



Unlabeled



Unlabeled, on large roll



Labeled according to customer specifications



- White polyimide labels with high level of temperature resistance
- Continuous temperature range of -40°C to +180°C, up to +300°C temporarily, for up to 60 seconds
- For marking PCBs, can be used in all industrial soldering processes
- High weathering and chemical resistance
- The labeling material is UL listed
- Protection against tampering: the labels cannot be removed without disintegrating
- **Designation example:**
EML-HT (8x8)R
Lettering field size: 8 x 8 mm
Type of packaging: roll
- Single-web large roll with 8000 or 10,000 labels (see figure below)

Notes:
The THERMOMARK-RIBBON 110-EML-HT ink ribbon is required for marking EM-LHT... high-temperature labels, see under "Printers", page 821
If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.



General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
High-temperature labels	
4000 labels p. roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels p. roll	white
2500 labels per roll	white
1000 labels p. roll	white
1000 labels per roll, round, 12 mm diameter	white

High-temperature labels, on large roll	
10,000 labels p. roll	white
10,000 labels p. roll	white
8000 labels per roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
8000 labels per roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white

High-temperature label, labeled acc. to customer specifications	
4 labels per strip	white
5 labels per strip	white
4 labels per strip	white
4 labels per strip	white
2 labels per strip	white
2 labels per strip	white
3 labels per strip	white
2 labels per strip	white
4 labels per strip	white
1 label per strip	white

Ink ribbon, specifically for high-temperature labels, EML-HT...	
	black

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyimide
-40 ... 180
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-HT (8X8)R	0800340	1
EML-HT (15X6)R	0830644	1
EML-HT (15X15)R	0800341	1
EML-HT (20X7)R	0830645	1
EML-HT (24X4)R	0830646	1
EML-HT (25X8)R	0830647	1
EML-HT (25,4X12,7)R	0830648	1
EML-HT (32X10)R	0830649	1
EML-HT (35X6,5)R	0830650	1
EML-HT (40X15)R	0800339	1
EML-HT (45X5)R	0800337	1
EML-HT (50X10)R	0800338	1
EML-HT (D12)R	0801376	1

Accessories

THERMOMARK-RIBBON 110-EML-HT	0800342	1
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Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyimide
-40 ... 180
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-HT (8X8)RL-T	0830651	1
EML-HT (15X6)RL-T	0830652	1
EML-HT (15X15)RL-T	0830653	1
EML-HT (20X7)RL-T	0830654	1
EML-HT (24X4)RL-T	0830655	1
EML-HT (25X8)RL-T	0830656	1
EML-HT (25,4X12,7)RL-T	0830657	1
EML-HT (32X10)RL-T	0830658	1
EML-HT (35X6,5)RL-T	0830659	1
EML-HT (40X15)RL-T	0830660	1
EML-HT (45X5)RL-T	0830661	1
EML-HT (50X10)RL-T	0830662	1

Accessories

THERMOMARK-RIBBON 110-EML-HT	0800342	1
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Technical data

-
Polyimide
-40 ... 180
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-HT (8X8)R CUS	0830169	1
EML-HT (15X6)R CUS	0830663	1
EML-HT (15X15)R CUS	0830170	1
EML-HT (20X7)R CUS	0830664	1
EML-HT (24X4)R CUS	0830665	1
EML-HT (25X8)R CUS	0830666	1
EML-HT (25,4X12,7)R CUS	0830667	1
EML-HT (32X10)R CUS	0830668	1
EML-HT (35X6,5)R CUS	0830669	1
EML-HT (40X15)R CUS	0830168	1
EML-HT (45X5)R CUS	0830166	1
EML-HT (50X10)R CUS	0830167	1

Accessories

THERMOMARK-RIBBON 110-EML-HT	0800342	1
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Stick-on device marking, for ESD applications

Can be printed with:



Thermal transfer for rolls



Unlabeled



Unlabeled, on large roll



Labeled according to customer specifications



- Safe marking for sensitive components on PCBs
- Static dissipative adhesive: prevents transmission of voltage and protects the component against electrostatic discharge
- Marking service: Phoenix Contact can custom-mark all EML-ESD ... markers according to your requirements
- **Designation example: EML-ESD (8x8)R**
Lettering field size: 8 x 8 mm
Type of packaging: roll

Notes:
If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Device marking, roll	
4000 labels p. roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels p. roll	white
Device marking, roll	
10,000 labels p. roll	white
10,000 labels p. roll	white
8,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
8,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
Device marking, roll, marked according to customer specifications	
4 labels per strip	white
5 labels per strip	white
4 labels per strip	white
4 labels per strip	white
2 labels per strip	white
2 labels per strip	white
3 labels per strip	white
2 labels per strip	white
1 label per strip	white

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK S1.1 • THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-ESD (8X8)R	0830564	1
EML-ESD (15X6)R	0830565	1
EML-ESD (15X15)R	0830566	1
EML-ESD (20X7)R	0830567	1
EML-ESD (24X4)R	0830568	1
EML-ESD (25X8)R	0830569	1
EML-ESD (25,4X12,7)R	0830570	1
EML-ESD (32X10)R	0830571	1
EML-ESD (35X6,5)R	0830572	1
EML-ESD (40X15)R	0830573	1
EML-ESD (45X5)R	0830574	1
EML-ESD (50X10)R	0830575	1

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK S1.1 • THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-ESD (8X8)RL-T	0830576	1
EML-ESD (15X6)RL-T	0830577	1
EML-ESD (15X15)RL-T	0830578	1
EML-ESD (20X7)RL-T	0830579	1
EML-ESD (24X4)RL-T	0830580	1
EML-ESD (25X8)RL-T	0830581	1
EML-ESD (25,4X12,7)RL-T	0830582	1
EML-ESD (32X10)RL-T	0830583	1
EML-ESD (35X6,5)RL-T	0830584	1
EML-ESD (40X15)RL-T	0830585	1
EML-ESD (45X5)RL-T	0830586	1
EML-ESD (50X10)RL-T	0830587	1

Technical data

-
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-ESD (8X8)R CUS	0830588	1
EML-ESD (15X6)R CUS	0830589	1
EML-ESD (15X15)R CUS	0830590	1
EML-ESD (20X7)R CUS	0830591	1
EML-ESD (24X4)R CUS	0830592	1
EML-ESD (25X8)R CUS	0830593	1
EML-ESD (25,4X12,7)R CUS	0830594	1
EML-ESD (32X10)R CUS	0830595	1
EML-ESD (35X6,5)R CUS	0830596	1
EML-ESD (40X15)R CUS	0830597	1
EML-ESD (45X5)R CUS	0830598	1
EML-ESD (50X10)R CUS	0830599	1

Stick-on device marking, removable

Can be printed with:



Thermal transfer for rolls



Unlabeled



Unlabeled, on large roll



Labeled according to customer specifications

- Particularly suitable for temporary marking
- The labels adhere well and reliably, and can be removed easily and residue-free if required
- The labels cannot be reused following removal
- Marking service: Phoenix Contact can custom-mark all EML-RM ... markers according to your requirements
- **Designation example:**
EML-RM (8x8)R
Lettering field size: 8 x 8 mm
Type of packaging: roll

Notes:
If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Labels, removable	
4000 labels p. roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels p. roll	white
Labels, on large roll, removable	
10,000 labels p. roll	white
10,000 labels p. roll	white
8,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
8,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
Labels, removable, marked according to customer specifications	
4 labels per strip	white
5 labels per strip	white
4 labels per strip	white
4 labels per strip	white
2 labels per strip	white
2 labels per strip	white
3 labels per strip	white
2 labels per strip	white
1 label per strip	white

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-RM (8X8)R	0830528	1
EML-RM (15X6)R	0830529	1
EML-RM (15X15)R	0830530	1
EML-RM (20X7)R	0830531	1
EML-RM (24X4)R	0830532	1
EML-RM (25X8)R	0830533	1
EML-RM (25,4X12,7)R	0830534	1
EML-RM (32X10)R	0830535	1
EML-RM (35X6,5)R	0830536	1
EML-RM (40X15)R	0830537	1
EML-RM (45X5)R	0830538	1
EML-RM (50X10)R	0830539	1

Accessories

Ink ribbon, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110	5145384	1
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Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-RM (8X8)RL-T	0830540	1
EML-RM (15X6)RL-T	0830541	1
EML-RM (15X15)RL-T	0830542	1
EML-RM (20X7)RL-T	0830543	1
EML-RM (24X4)RL-T	0830544	1
EML-RM (25X8)RL-T	0830545	1
EML-RM (25,4X12,7)RL-T	0830546	1
EML-RM (32X10)RL-T	0830547	1
EML-RM (35X6,5)RL-T	0830548	1
EML-RM (40X15)RL-T	0830549	1
EML-RM (45X5)RL-T	0830550	1
EML-RM (50X10)RL-T	0830551	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
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Technical data

-
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-RM (8X8)R CUS	0830552	1
EML-RM (15X6)R CUS	0830553	1
EML-RM (15X15)R CUS	0830554	1
EML-RM (20X7)R CUS	0830555	1
EML-RM (24X4)R CUS	0830556	1
EML-RM (25X8)R CUS	0830557	1
EML-RM (25,4X12,7)R CUS	0830558	1
EML-RM (32X10)R CUS	0830559	1
EML-RM (35X6,5)R CUS	0830560	1
EML-RM (40X15)R CUS	0830561	1
EML-RM (45X5)R CUS	0830562	1
EML-RM (50X10)R CUS	0830563	1

Accessories

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Stick-on device marking, with anti-tamper protection



- Tamper-proof label, can be used as a rating plate or seal, for example
- When peeled off, part of the metallic layer comes away, leaving behind a triangular pattern on both the label and the surface
- The safety function is reliable up to 80°C
- Labeling service: Phoenix Contact can custom-label all EMLS ... markers in accordance with your requirements
- The EMLS ... materials are UL-listed
- **Designation example:**
EMLS (15x9)R SR
Lettering field size: 15 x 9 mm
Type of packaging: roll

Can be printed with:



Thermal transfer for rolls



Unlabeled



Technical data

General data	
Can be printed with:	THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Material	Polyester
Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Safety labels				
2500 labels per roll	silver	EMLS (15X9)R SR	0800347	1
2500 labels per roll	silver	EMLS (19X6)R SR	0800343	1
1000 labels p. roll	silver	EMLS (20X20)R SR	0800344	1
1000 labels p. roll	silver	EMLS (26,5X12)R SR	0800353	1
1000 labels p. roll	silver	EMLS (38,1X19)R SR	0800354	1
1000 labels p. roll	silver	EMLS (40X8)R SR	0800348	1
1000 labels p. roll	silver	EMLS (40X15)R SR	0800345	1
500 labels p. roll	silver	EMLS (60X30)R SR	0800355	1
500 labels p. roll	silver	EMLS (70X32)R SR	0800346	1
100 labels p. roll	silver	EMLS (70X150)R SR	0800351	1
250 labels p. roll	silver	EMLS (76X51)R SR	0800350	1
250 labels p. roll	silver	EMLS (85X32)R SR	0800356	1

Stick-on device marking, with anti-tamper protection

- All EMLS ... device markers can also be supplied marked according to customer requirements



Labeled according to customer specifications



Technical data

General data	
Can be printed with:	-
Material	Polyester
Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Safety label, labeled acc. to customer specifications				
4 labels per strip	silver	EMLS (15X9)R SR CUS	0830175	1
4 labels per strip	silver	EMLS (19X6)R SR CUS	0830171	1
4 labels per strip	silver	EMLS (20X20)R SR CUS	0830172	1
2 labels per strip	silver	EMLS (26,5X12)R SR CUS	0830179	1
2 labels per strip	silver	EMLS (38,1X19)R SR CUS	0830180	1
2 labels per strip	silver	EMLS (40X8)R SR CUS	0830176	1
2 labels per strip	silver	EMLS (40X15)R SR CUS	0830173	1
1 label per strip	silver	EMLS (60X30)R SR CUS	0830181	1
1 label per strip	silver	EMLS (70X32)R SR CUS	0830174	1
1 label per strip	silver	EMLS (70X150)R SR CUS	0830178	1
1 label per strip	silver	EMLS (76X51)R SR CUS	0830177	1
1 label per strip	silver	EMLS (85X32)R SR CUS	0830182	1

Self-adhesive conductor marking with transparent protective foil



- The cable marker labels consist of a labeling field and a transparent protective foil
- The protective foil is wound over the labeling and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- High-quality labeling image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents



Can be printed with:



Thermal transfer for rolls

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Cable marker labels	
5000 labels, up to 3 mm Ø	white
3000 labels, up to 5 mm Ø	white
3000 labels, up to 5 mm Ø	yellow
7000 labels, up to 6 mm Ø	white
7000 labels, up to 6 mm Ø	yellow
4000 labels, up to 7.5 mm Ø	white
1500 labels, up to 7.5 mm Ø	white
2100 labels, up to 7.5 mm Ø	white
1000 labels, up to 12 mm Ø	white
1500 labels, up to 14 mm Ø	white
1500 labels, up to 14 mm Ø	yellow
1000 labels, up to 14 mm Ø	white
1500 labels, up to 14 mm Ø	yellow
2500 labels, up to 18 mm Ø	white
500 labels, up to 20 mm Ø	white
900 labels, up to 22 mm Ø	white
500 labels, up to 36 mm Ø	white
250 labels, up to 46 mm Ø	white
Cable marker labels, on large roll	
10,000 labels, up to 5 mm Ø	white
15,000 labels, up to 6 mm Ø	white
5000 labels, up to 14 mm Ø	white
3000 labels, up to 14 mm Ø	white

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
 PVC
 -50 ... 110 [°C]
 DIN EN 61010-1 (VDE 0411-1)
 Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
WML 3 (13X10)R	0800073	1
WML 5 (25X10)R	0817523	1
WML 5 (25X10)R YE	0830673	1
WML 6 (13X13)R	0816252	1
WML 6 (13X13)R YE	0830674	1
WML 7,5 (13X13)R	0800074	1
WML 7,5 (17X9)R	0828444	1
WML 7,5 (25X13)R	0800075	1
WML 12 (25X19)R	0800076	1
WML 14 (25X19)R	0817536	1
WML 14 (25X19)R YE	0817549	1
WML 14 (38X19)R	0817552	1
WML 14 (38X19)R YE	0830675	1
WML 18 (12X12)R	0817507	1
WML 20 (31X25)R	0828457	1
WML 22 (25X25)R	0800078	1
WML 36 (25X38)R	0817510	1
WML 46 (25X38)R	0800067	1
WML 5 (25X10)RRL	0830676	1
WML 6 (13X13)RRL	0830677	1
WML 14 (25X19)RRL	0830678	1
WML 14 (38X19)RRL	0830679	1



Marker for conductor diameters of up to 46 mm, unlabeled

- All WML ... cable marker labels can also be supplied labeled according to customer requirements



Markers for conductor diameters of up to 36 mm, labeled acc. to customer specifications

General data	
Material	PVC
Temperature range	[°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Description	Color
Cable marker labels, labeled according to customer requirements	
Up to 3 mm Ø, 4 labels per strip	white
Up to 5 mm Ø, 3 labels per strip	white
Up to 5 mm Ø, 3 labels per strip	yellow
Up to 6 mm Ø, 7 labels per strip	white
Up to 6 mm Ø, 7 labels per strip	yellow
Up to 7.5 mm Ø, 7 labels per strip	white
Up to 7.5 mm Ø, 4 labels per strip	white
Up to 7.5 mm Ø, 3 labels per strip	white
Up to 12 mm Ø, 3 labels per strip	white
Up to 14 mm Ø, 3 labels per strip	white
Up to 14 mm Ø, 3 labels per strip	yellow
Up to 14 mm Ø, 2 labels per strip	white
Up to 14 mm Ø, 2 labels per strip	yellow
Up to 18 mm Ø, 7 labels per strip	white
Up to 20 mm Ø, 2 labels per strip	white
Up to 22 mm Ø, 3 labels per strip	white
Up to 36 mm Ø, 3 labels per strip	white

Technical data

PVC
 -50 ... 110 [°C]
 DIN EN 61010-1 (VDE 0411-1)
 Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
WML 3 (13X10)R CUS	0824884	1
WML 5 (25X10)R CUS	0824885	1
WML 5 (25X10)R YE CUS	0830680	1
WML 6 (13X13)R CUS	0824886	1
WML 6 (13X13)R YE CUS	0830681	1
WML 7,5 (13X13)R CUS	0824887	1
WML 7,5 (17X9)R CUS	0828991	1
WML 7,5 (25X13)R CUS	0824888	1
WML 12 (25X19)R CUS	0824889	1
WML 14 (25X19)R CUS	0824890	1
WML 14 (25X19)R YE CUS	0824891	1
WML 14 (38X19)R CUS	0824892	1
WML 14 (38X19)R YE CUS	0830682	1
WML 18 (12X12)R CUS	0824894	1
WML 20 (31X25)R CUS	0828992	1
WML 22 (25X25)R CUS	0824895	1
WML 36 (25X38)R CUS	0824896	1

THERMOMARK ROLL, thermal transfer printer for material off the roll



Thermal transfer for rolls

- The THERMOMARK ROLL can print markers supplied on rolls in the context of terminal, conductor, cable, and device marking applications
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Notes:
An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.

Dimensions	
	[mm]
General data	
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Power supply	[V]
Weight	[kg]
Operating systems	

Description	Color
Thermal transfer printer for material off the roll , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray

Cutter, can be retrofitted, for precise cutting of continuous media into required lengths

Cutter, can be retrofitted, for perforating continuous media

Transport case

External media hub, for roll diameters of 150 mm to 305 mm

External media hub, for roll diameters of up to 500 mm

Ink ribbon, length: 300 m, width: 110 mm

Ink ribbon, specifically for high-temperature labels, EML-HT...

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm



CCC UL P CB

Technical data			
Width	Length	Height	
253	320	189	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
THERMOMARK ROLL	5146477	1	

Accessories			
Type	Order No.	Pcs. / Pkt.	
THERMOMARK ROLL-CUTTER	5146422	1	
THERMOMARK ROLL-CUTTER/P	5146435	1	
TL CASE	0800613	1	
THERMOMARK ROLL-ERH	5146448	1	
THERMOMARK-ERH 500	5146309	1	
THERMOMARK-RIBBON 110	5145384	1	black
THERMOMARK-RIBBON 110 BU	0829544	1	blue
THERMOMARK-RIBBON 110 GN	0829542	1	green
THERMOMARK-RIBBON 110 RD	0829543	1	red
THERMOMARK-RIBBON 110-EML-HT	0800342	1	black
THERMOMARK-RIBBON 110-WMSU	0801358	1	black
THERMOMARK-RIBBON 110-WMSU WH	0801359	1	white
THERMOMARK-RIBBON 64-WMSU	0801360	1	black
THERMOMARK-RIBBON 64-WMSU WH	0801361	1	white

THERMOMARK ROLL X1, thermal transfer printer for material off the roll



Thermal transfer for rolls

- The THERMOMARK ROLL X1 printer is suitable for labeling large quantities and offers the following features:
- Also accommodates large rolls; inside the printer housing, the label rolls are protected against environmental influences such as dust and dirt
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software
- Printing and dispensing labels on request or automatically after removing the label with the THERMOMARK ROLL X1 - DISPENSER

Cutting to length or perforating is easy

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)



Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

Description	Color
Thermal transfer printer for material off the roll , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray

Cutter, can be retrofitted, for precise cutting of continuous media into required lengths

Perforation device, can be retrofitted, for perforating and cutting continuous media

Ink ribbon, length: 300 m, width: 110 mm

Ink ribbon, specifically for high-temperature labels, EML-HT...

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm

Ink ribbon, specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm

Ink ribbon, specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm

Transport case

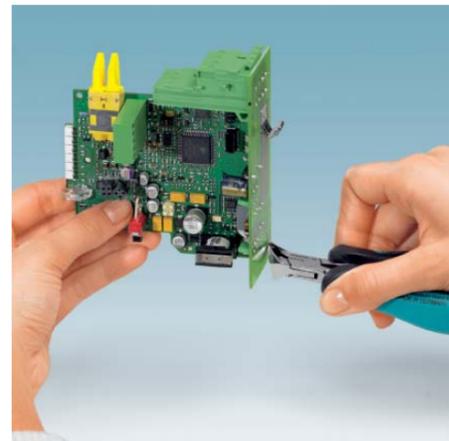
Technical data		
Width	Length	Height
264	412	245

Ordering data			
Type	Order No.	Pcs. / Pkt.	
THERMOMARK ROLL X1	5146723	1	

Accessories			
Type	Order No.	Pcs. / Pkt.	
THERMOMARK ROLL X1 CUTTER	5146765	1	
THERMOMARK ROLL X1 CUTTER/P	5146766	1	
THERMOMARK-RIBBON 110	5145384	1	black
THERMOMARK-RIBBON 110 BU	0829544	1	blue
THERMOMARK-RIBBON 110 GN	0829542	1	green
THERMOMARK-RIBBON 110 RD	0829543	1	red
THERMOMARK-RIBBON 110-EML-HT	0800342	1	black
THERMOMARK-RIBBON 110-WMSU	0801358	1	black
THERMOMARK-RIBBON 110-WMSU WH	0801359	1	white
THERMOMARK-RIBBON 64-WMSU	0801360	1	black
THERMOMARK-RIBBON 64-WMSU WH	0801361	1	white
THERMOMARK-RIBBON 110-WMTB HF	5148007	1	black
THERMOMARK ROLL X1-CASE	5146724	1	silver

MICROFOX electronic pliers

Notes:
 Technical data regarding cutting capacity, see www.phoenixcontact.net/products



- Miniature precision pliers feature the following:
- Ergonomically designed two-component grip for fatigue-proof and non-slip use
 - Manufactured from high-grade special tool steel
 - Opening spring for uniform, smooth opening
 - Through-connected joint for permanent stability and optimum distribution of force
 - Mirror-polished and oiled metal surfaces, which provide maximum rust protection

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending



Diagonal cutter, with chamfer



Front cutter



Needle-nose pliers



Flat/round-nose pliers

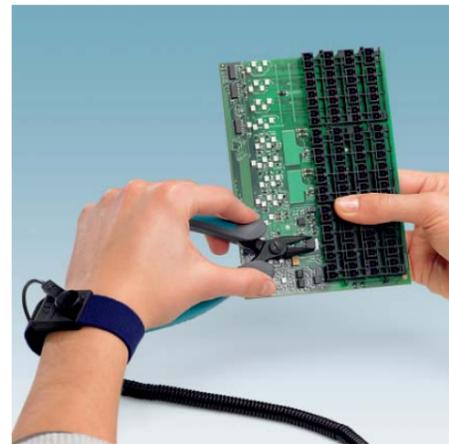
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Electronic diagonal cutter, round head, with chamfer, with opening spring	MICROFOX-SB	1212489	1
Electronic diagonal cutter, tapered head, angled (21°), without chamfer, with opening spring	MICROFOX-SP	1212488	1
Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version	MICROFOX-SP-1	1212487	1
Electronic front cutter, without chamfer, with opening spring			
Electronic front cutter, 20° angle, without chamfer, with opening spring			
Electronic needle-nose pliers, smooth grip, with opening spring			
Electronic needle-nose pliers, 45° angle, smooth grip, with opening spring			
Electronic flat-nose pliers, smooth grip, with opening spring			
Electronic round-nose pliers, smooth grip, with opening spring			

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E	1212494	1
MICROFOX-EO	1212495	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-P	1212491	1
MICROFOX-PC	1212492	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-F	1212493	1
MICROFOX-R	1212490	1

MICROFOX ESD electronic pliers



ESD MICROFOX pliers offer the following features:

- The special conductive plastic grip ensures slow and safe removal of electrostatic energy according to standards and directives such as DIN EN 61340-5
- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Manufactured from high-grade special tool steel
- Opening spring for uniform, smooth opening
- Screwed precision-joint for permanent stability and optimum results
- Mirror-polished and phosphate-treated metal surfaces for optimum rust protection and no glare when working

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending



Notes:
 Technical data regarding cutting capacity, see www.phoenixcontact.net/products



ESD diagonal cutter



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
ESD electronic diagonal cutter, round head, without chamfer, with opening spring	MICROFOX-S ESD	1212480	1
ESD electronic front cutter, without chamfer, with opening spring			
ESD electronic needle-nose pliers, smooth grip, with opening spring			
ESD electronic needle-nose pliers, 45° angle, smooth grip, with opening spring			
ESD electronic flat-nose pliers, smooth grip, with opening spring			
ESD electronic round-nose pliers, smooth grip, with opening spring			



ESD front cutter



Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E ESD	1212485	1



ESD needle-nose pliers



Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-P ESD	1212482	1
MICROFOX-PC ESD	1212483	1



ESD flat/round-nose pliers



Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-F ESD	1212484	1
MICROFOX-R ESD	1212481	1



Stamp holder for EMC header



Stamp set for EMCV header

Description
Stamp holder, for EMC press-in pin strips, for upper and lower stamp
Stamp set, for EMCV press-in pin strips, consisting of upper and lower stamp for 3.81 mm pitch, 2 to 16-pos.

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMC 1,5-SH	1877258	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMCV 1,5-SS 1	1877274	1



Module female contact for MSTBC male connector



Module male contact for ICC connector

Description
Module female contact, is inserted into the connector after the conductor has been crimped; for conductors from
 0.5 to 1.0 mm²
 0.5 to 1.0 mm² ribbon contacts
 1.5 to 2.5 mm²
 1.5 to 2.5 mm² ribbon contacts
Module male contact, is inserted into the connector after the conductor has been crimped; for conductors from
 0.5 to 1.0 mm²
 0.5 to 1.0 mm² ribbon contacts
 1.5 to 2.5 mm²
 1.5 to 2.5 mm² ribbon contacts

Ordering data		
Type	Order No.	Pcs. / Pkt.
MSTBC-MT 0,5-1,0	3190564	100
MSTBC-MT 0,5-1,0 BA	3190645	4000
MSTBC-MT 1,5-2,5	3190551	100
MSTBC-MT 1,5-2,5 BA	3190658	3500

Ordering data		
Type	Order No.	Pcs. / Pkt.
ICC-MT 0,5-1,0	3190577	100
ICC-MT 0,5-1,0 BA	3190603	4000
ICC-MT 1,5-2,5	3190580	100
ICC-MT 1,5-2,5 BA	3190593	4000



Stamp holder for EMSTB header



Stamp set for EMSTBVA header

Description
Stamp holder, for EMSTB press-in pin strips, for upper and lower stamp
Stamp set, for EMSTBVA press-in pin strips, consisting of lower stamp 2 to 24 pos. and upper stamp 2 to 16-pos.

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMSTB 2,5-SH	1877203	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMSTBVA 2,5-SS-1-5,08	1877216	1



Module female contact for MCC male connector



Module female contact for PCC male connector

Description
Module female contact, is inserted into the plug component after the conductor has been crimped; for conductors from
 0.2 to 0.34 mm²
 0.2 to 0.34 mm² ribbon contacts
 0.5 to 1.0 mm²
 0.5 to 1.0 mm² ribbon contacts
Module socket contact, 0.5 - 1 mm²
 for wires from 0.5 ... 1,0 mm²
 For conductors from 1.5 ... 2.5 mm²

Ordering data		
Type	Order No.	Pcs. / Pkt.
MCC-MT 0,2-0,35	1859988	100
MCC-MT 0,2-0,35 (0,0) BA	1923717	8000
MCC-MT 0,5-1,0	1859991	100
MCC-MT 0,5-1,0 BAND	1898622	6500

Ordering data		
Type	Order No.	Pcs. / Pkt.
STG-MTN 0,5-1,0	3190438	100
STG-MTN 0,5-1,0 BA	3190629	4000
STG-MTN 1,5-2,5	3190506	100
STG-MTN 1,5-2,5 BAND	3190632	3300



Pull-out aid for connectors with crimp contact, pitch 5.08 mm

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Pull-out aid for MSTBC 2,5/... and ICC 2,5/..., for snapping into the latching chambers of the connector, can be labeled with ZB 6			
2-pos.	STZ 2-MSTBC-5,08	1810529	50
4-pos.	STZ 4-MSTBC-5,08	1810532	50
8-pos.	STZ 8-MSTBC-5,08	1810516	50
12-pos.	STZ 12-MSTBC-5,08	1810503	50



Insertion bridge for connectors featuring screw connection with 3.81 mm pitch

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Insertion bridge , fully insulated, for connectors with a 3.81 mm pitch			
2-pos.	EBPL 2-3,81	1733495	50
3-pos.	EBPL 3-3,81	1733505	50
4-pos.	EBPL 4-3,81	1733518	50
Insertion bridge , insulated			
2-pos.			
3-pos.			



Insertion bridge with long contact zone for connectors featuring screw connection with 5 or 5.08 mm pitch

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
	EBL 2- 5	2303145	10
	EBL 3- 5	2303158	10

Notes:
 1) Different numbers of positions can be supplied for MCC 1/...ST on request



Pull-out aid for connectors with crimp contact, pitch 3.81/7.62 mm

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Pull-out aid for MCC 1/...ST... and for PCC 4/...ST..., for snapping into the latching chambers of the connector, can be labeled with ZB 6.1)			
2-pos.	STZ 2-PCC 4-7,62	1840214	50
3 to 4-pos.	STZ 3-PCC 4-7,62	1840227	50
5- to 7-pos.	STZ 5-PCC 4-7,62 GN	1842005	50
8- to 12-pos.	STZ 8-PCC 4-7,62	1840230	50

Notes:
 Please refer to the notes for the bridges, refer to page 37



Insertion bridge for PCB terminal blocks and connectors featuring screw connection with 5.0 or 5.08 mm pitch

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Insertion bridge , fully insulated, for plug connectors with 5.0 or 5.08 mm pitch			
2-pos.	EBP 2- 5	1733169	10
3-pos.	EBP 3- 5	1733172	10
4-pos.	EBP 4- 5	1733185	10
5-pos.	EBP 5- 5	1733198	10
6-pos.	EBP 6- 5	1733208	10

Fixed bridges

Test plug

Notes:
Please refer to the notes for the bridges, refer to page 37
1) Current carrying capacity 20 A. Laboratory data sheet available on request.



Fixed bridge, for ZFKDS 4 PCB terminal blocks, 7.5 mm pitch



Fixed bridge, for ZFKDS 4 PCB terminal blocks, 10 mm pitch

Description	Type	Order No.	Pcs. / Pkt.
Fixed bridge , for ZFKDS 4 PCB terminal blocks, fully insulated, 7.5 mm pitch ¹⁾			
2-pos.	FBSK 2-7,5	1928343	50
3-pos.	FBSK 3-7,5	1928356	50
4-pos.	FBSK 4-7,5	1928369	10
5-pos.	FBSK 5-7,5	1928372	50
10-pos.	FBSK 10-7,5	1928385	50
Fixed bridge , for ZFKDS 4 PCB terminal blocks, fully insulated, 10 mm pitch ¹⁾			
2-pos.	FBSK 2-10	1928398	50
3-pos.	FBSK 3-10	1928408	50
4-pos.	FBSK 4-10	1928411	50
5-pos.	FBSK 5-10	1928424	10
10-pos.	FBSK 10-10	1928437	50

Ordering data			
Type	Order No.	Pcs. / Pkt.	
FBSK 2-7,5	1928343	50	
FBSK 3-7,5	1928356	50	
FBSK 4-7,5	1928369	10	
FBSK 5-7,5	1928372	50	
FBSK 10-7,5	1928385	50	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
FBSK 2-10	1928398	50	
FBSK 3-10	1928408	50	
FBSK 4-10	1928411	50	
FBSK 5-10	1928424	10	
FBSK 10-10	1928437	50	



2.3 mm test plugs



Test plug, consisting of 1 mm Ø test pin and 2 mm Ø socket

Description	Color	Type	Order No.	Pcs. / Pkt.
Test plug metal part , 2.3 mm Ø		MPS-MT	0201744	10
Insulating sleeve , for MPS metal part	white	MPS-IH WH	0201663	10
	red	MPS-IH RD	0201676	10
	blue	MPS-IH BU	0201689	10
	yellow	MPS-IH YE	0201692	10
	green	MPS-IH GN	0201702	10
	gray	MPS-IH GY	0201728	10
	black	MPS-IH BK	0201731	10
	Test plug , consisting of 1 mm Ø test pin, conductor length 150 mm and socket Ø 2 mm			

Ordering data				
Type	Order No.	Pcs. / Pkt.		
MPS-MT	0201744	10		
MPS-IH WH	0201663	10		
MPS-IH RD	0201676	10		
MPS-IH BU	0201689	10		
MPS-IH YE	0201692	10		
MPS-IH GN	0201702	10		
MPS-IH GY	0201728	10		
MPS-IH BK	0201731	10		

Ordering data			
Type	Order No.	Pcs. / Pkt.	
MPS-MT 1-S	1944372	1	
MPS-MT 1-S4-B RD	1982800	50	

Notes:
Please refer to the notes for the bridges, refer to page 37
1) Current carrying capacity 57 A. Laboratory data sheet available on request.



Fixed bridge, for ZFKDS 10 PCB terminal blocks, 10 mm pitch



Fixed bridge, for ZFKDS 10 PCB terminal blocks, 10 mm pitch

Description	Type	Order No.	Pcs. / Pkt.
Fixed bridge , for ZFKDS 10 PCB terminal blocks, fully insulated, 10 mm pitch ¹⁾			
2-pos.	FBSK 2-10/ZFKDS 10	1986644	50
3-pos.	FBSK 3-10/ZFKDS 10	1986657	10
4-pos.	FBSK 4-10/ZFKDS 10	1986660	10
Fixed bridge , for ZFKDS 10 PCB terminal blocks, fully insulated, pitch: 15 mm ¹⁾			
2-pos.	FBSK 2-15/ZFKDS 10	1986699	50
3-pos.	FBSK 3-15/ZFKDS 10	1986686	50
4-pos.	FBSK 4-15/ZFKDS 10	1986673	50

Ordering data			
Type	Order No.	Pcs. / Pkt.	
FBSK 2-10/ZFKDS 10	1986644	50	
FBSK 3-10/ZFKDS 10	1986657	10	
FBSK 4-10/ZFKDS 10	1986660	10	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
FBSK 2-15/ZFKDS 10	1986699	50	
FBSK 3-15/ZFKDS 10	1986686	50	
FBSK 4-15/ZFKDS 10	1986673	50	



4 mm test plugs



Reducing connector

Description	Color	Type	Order No.	Pcs. / Pkt.
Test plug , consisting of: Metal part for 4 mm Ø socket hole And		PS-MT	0311647	10
Insulating sleeve for PS metal part	white	PS-IH WH	0311566	10
	red	PS-IH RD	0311579	10
	blue	PS-IH BU	0311582	10
	yellow	PS-IH YE	0311595	10
	green	PS-IH GN	0311605	10
	violet	PS-IH VT	0311618	10
	gray	PS-IH GY	0311621	10
	black	PS-IH BK	0311634	10
Reducing plug , for connecting a 4 mm Ø test plug to a 2.3 mm Ø test plug socket	gray			

Ordering data				
Type	Order No.	Pcs. / Pkt.		
PS-MT	0311647	10		
PS-IH WH	0311566	10		
PS-IH RD	0311579	10		
PS-IH BU	0311582	10		
PS-IH YE	0311595	10		
PS-IH GN	0311605	10		
PS-IH VT	0311618	10		
PS-IH GY	0311621	10		
PS-IH BK	0311634	10		

Ordering data			
Type	Order No.	Pcs. / Pkt.	
RPS	0201647	10	

Notes:
COMBICON select
 You will find the possible connector combinations in COMBICON select at: www.phoenixcontact.net/products



5-position test plug,



10-pos. test connector, with 10 welded-on test conductors



5-pos. test plug, 5/0/5.08 mm pitch, makes contact in the conductor connection space



5-pos. test plug, 7.5/7.62 mm pitch, makes contact in the conductor connection space

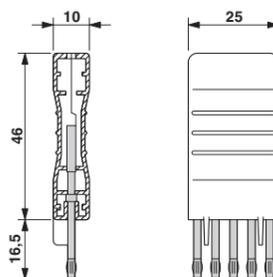
Technical data
 Single-wire/terminal point, stranded
 Single-wire/terminal point, AWG
 Nominal current I_N
 Nominal voltage U_N

Technical data

0.14 mm² - 0.75 mm²
 26 - 18
 2 A
 125 V

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Test plug , 5-pos., 5/5.08 mm pitch with 2 mm Ø test pins, gold-plated test pins	ST-MKDSP 3/5	1718207	10
Test plug , 10-pos., 5/5.08 mm pitch with 2 mm Ø lamellar pins and 10 firmly welded 1 m test conductors, gold-plated lamellar pins			
Test plug , 5-position, 5/5.08 mm pitch, with special multiple-spring wire plug, makes contact in the connection space			
Test plug , 5-position, 7.5/7.62 mm pitch, with special multiple-spring wire plug, makes contact in the connection space			

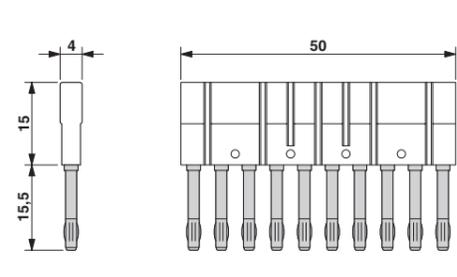


Technical data

0.75 mm²
 -
 2 A
 125 V

Ordering data

Type	Order No.	Pcs. / Pkt.
SPB 10-MKDSP	1301355	5

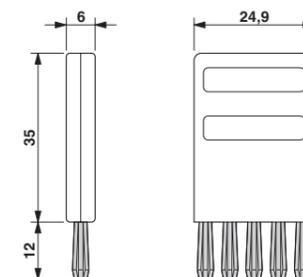


Technical data

0.75 mm²
 -
 2 A
 25 V

Ordering data

Type	Order No.	Pcs. / Pkt.
SPB 5-MKDS 3	1301216	10

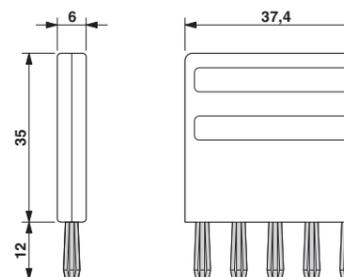


Technical data

0.75 mm²
 -
 2 A
 25 V

Ordering data

Type	Order No.	Pcs. / Pkt.
SPB 5-GMKDS 3	1301203	10

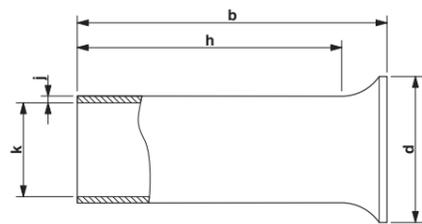


Ferrules

Ferrules

Ferrules without insulating collar, according to DIN 46228-1

- The ferrules without plastic sleeve are made from soft tin-plated electrolytic copper
- The dimensions of the ferrules conform to DIN 46228-1
- The A 0,25.. can also be used to process conductors with a cross section of 0.14 mm²



Notes:
1) These ferrules are not included in DIN 46228-4:1990-09.



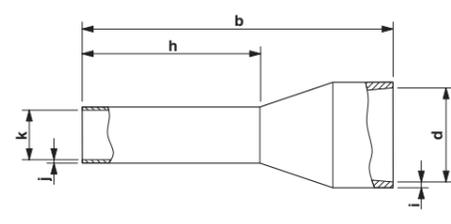
Conductor cross sections from 0.14 to 35 mm²



Technical data		Technical data	
E-CU / tin-plated (galvanic)		E-CU / tin-plated (galvanic)	
Ordering data		Ordering data	
Type	Order No.	Pcs. / Pkt.	
A 0,25-5	3202465	1000	
A 0,25-7	3202478	1000	
A 0,34-7	3009202	1000	
A 0,5-6	3200218	1000	
A 0,5-8	3202481	1000	
A 0,5-10	3202494	1000	
A 0,75-6	3200221	1000	
A 0,75-8	3202504	1000	
A 0,75-10	3200234	1000	
A 1-6	3200247	1000	
A 1-8	3202517	1000	
A 1-10	3200250	1000	
A 1,5-7	3200263	1000	
A 1,5-10	3200276	1000	
A 1,5-12	3202588	1000	
A 1,5-15	3202591	1000	
A 1,5-18	3202601	1000	
A 2,5-7	3200289	1000	
A 2,5-12	3200292	1000	
A 2,5-18	3202821	1000	
A 4-9	3200302	1000	
A 4-12	3200315	1000	
A 4-18	3202834	1000	
A 6-10	3202520	500	
A 6-12	3200328	500	
A 10-12	3200331	500	
A 10-18	3200344	500	
A 16-12	3200425	100	
A 25-12	3200357	100	
A 25-15	3200360	100	
A 25-18	3200373	100	
A 25-20	3200386	100	
A 35-18	3200399	100	
A 35-20	3200409	100	

Ferrules with insulating collar, according to DIN 46228-4

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The insulation reliability of close connections is increased and the splicing of wires is prevented
- The AI 0,25.. can also be used to process conductors with a cross section of 0.14 mm²



Notes:
1) These ferrules are not included in DIN 46228-4:1990-09.



Conductor cross sections from 0.14 to 120 mm²



General data		General data	
Material / coating		Material / coating	
Plastic sleeve material		Plastic sleeve material	
Long/short-term temperature		Long/short-term temperature	
E-CU / tin-plated (galvanic)		E-CU / tin-plated (galvanic)	
polypropylene		polypropylene	
105 °C / 120 °C		105 °C / 120 °C	
Ordering data		Ordering data	
Type	Order No.	Pcs. / Pkt.	
AI 0,25-6 YE	3203024	100	
AI 0,25-8 YE	3203037	100	
AI 0,5-6 WH	3200687	100	
AI 0,5-8 WH	3200014	100	
AI 0,5-8 WH-1000	3200881	1000	
AI 0,5-10 WH	3201275	100	
AI 0,5-12 WH	3200506	100	
AI 0,75-6 GY	3200690	100	
AI 0,75-8 GY	3200519	100	
AI 0,75-8 GY-1000	3200894	1000	
AI 0,75-10 GY	3201288	100	
AI 0,75-12 GY	3200849	100	
AI 1-6 RD	3200742	100	
AI 1-8 RD	3200030	100	
AI 1-8 RD-1000	3200904	1000	
AI 1-10 RD	3200182	100	
AI 1-12 RD	3200674	100	
AI 1,5-6 BK	3200755	100	
AI 1,5-8 BK	3200043	100	
AI 1,5-8 BK-1000	3200917	1000	
AI 1,5-10 BK	3200195	100	
AI 1,5-12 BK	3201482	100	
AI 1,5-18 BK	3200056	100	
AI 2,5-8 BU	3200522	100	
AI 2,5-8 BU-1000	3200920	1000	
AI 2,5-10 BU	3202533	100	
AI 2,5-12 BU	3200962	100	
AI 2,5-18 BU	3200580	100	
AI 4-10 GY	3200535	100	
AI 4-12 GY	3200959	100	
AI 4-18 GY	3200593	100	
AI 6-12 YE	3200548	100	
AI 6-18 YE	3200603	100	
AI 10-12 RD	3200551	100	
AI 10-18 RD	3200616	100	
AI 16-12 BU	3200564	100	
AI 16-18 BU	3200629	100	
AI 25-16 YE	3200577	50	
AI 25-18 YE	3201505	50	
AI 25-22 YE	3200700	50	
AI 35-16 RD	3200441	50	
AI 35-18 RD	3201495	50	
AI 35-25 RD	3200713	50	
AI 50-20 BU	3200454	50	
AI 50-25 BU	3200726	25	
AI 70-20 YE	3201848	25	
AI 95-25 RD	3201853	25	
AI120-27 BU	3201822	25	

Technical data		Technical data	
E-CU / tin-plated (galvanic)		E-CU / tin-plated (galvanic)	
Ordering data		Ordering data	
Type	Order No.	Pcs. / Pkt.	
AI 0,25-6 YE	3203024	100	
AI 0,25-8 YE	3203037	100	
AI 0,5-6 WH	3200687	100	
AI 0,5-8 WH	3200014	100	
AI 0,5-8 WH-1000	3200881	1000	
AI 0,5-10 WH	3201275	100	
AI 0,5-12 WH	3200506	100	
AI 0,75-6 GY	3200690	100	
AI 0,75-8 GY	3200519	100	
AI 0,75-8 GY-1000	3200894	1000	
AI 0,75-10 GY	3201288	100	
AI 0,75-12 GY	3200849	100	
AI 1-6 RD	3200742	100	
AI 1-8 RD	3200030	100	
AI 1-8 RD-1000	3200904	1000	
AI 1-10 RD	3200182	100	
AI 1-12 RD	3200674	100	
AI 1,5-6 BK	3200755	100	
AI 1,5-8 BK	3200043	100	
AI 1,5-8 BK-1000	3200917	1000	
AI 1,5-10 BK	3200195	100	
AI 1,5-12 BK	3201482	100	
AI 1,5-18 BK	3200056	100	
AI 2,5-8 BU	3200522	100	
AI 2,5-8 BU-1000	3200920	1000	
AI 2,5-10 BU	3202533	100	
AI 2,5-12 BU	3200962	100	
AI 2,5-18 BU	3200580	100	
AI 4-10 GY	3200535	100	
AI 4-12 GY	3200959	100	
AI 4-18 GY	3200593	100	
AI 6-12 YE	3200548	100	
AI 6-18 YE	3200603	100	
AI 10-12 RD	3200551	100	
AI 10-18 RD	3200616	100	
AI 16-12 BU	3200564	100	
AI 16-18 BU	3200629	100	
AI 25-16 YE	3200577	50	
AI 25-18 YE	3201505	50	
AI 25-22 YE	3200700	50	
AI 35-16 RD	3200441	50	
AI 35-18 RD	3201495	50	
AI 35-25 RD	3200713	50	
AI 50-20 BU	3200454	50	
AI 50-25 BU	3200726	25	
AI 70-20 YE	3201848	25	
AI 95-25 RD	3201853	25	
AI120-27 BU	3201822	25	

Notes:
Please refer to the notes for the mounting flanges on page 36.



Additional fastening for horizontal and vertical MSTB headers



Insertable keying tab



Pair of guide rails for ICV...G



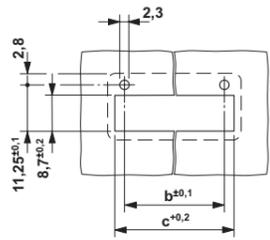
Pull-out aid for FKIC connector with 5.08 mm pitch

Description	Ordering data		
	Type	Order No.	Pcs. / Pkt.
Mounting flange , for fixing both ends of the header onto the PCB, with M2 x 14 screws and nuts	MSTB-BF	1759981	50
Keying tab , for MSTB headers, for dividing headers, plugged onto the header pin, made from green insulation material			
Pair of guide rails , inserted into the groove of ICV ...-G, for accommodating a printed circuit board (mother/daughter PCB connection) height: 86 mm, hole diameter: 3.4 mm			
Strain relief , for 5.08 mm pitch FKIC plugs, snapped into the latching chambers of the connection plugs			
4 to 7-pos. ≥ 8-pos.			

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
MSTB-BL	1755477	100						
			FLRP/ICV 80	1808353	10			
						STZ 4-FKC-5,08	1876877	50
						STZ 8-FKC-5,08	1876880	50

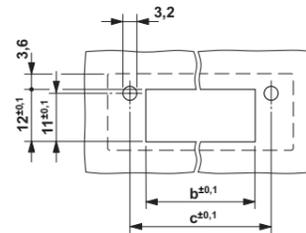
Sheet metal cutout dimensions/drilling diagrams/dimensional drawings

Sheet metal cutout dimensions/drilling diagrams/dimensional drawings

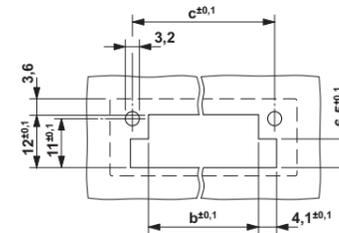


Number of positions	b	c
2	13.81	18.50
3	17.62	22.30
4	21.43	26.10
5	25.24	29.90
6	29.05	33.80
7	32.86	37.60
8	36.67	41.40
9	40.48	45.10
10	44.29	49.00
11	48.10	52.80
12	51.91	56.60
13	55.72	60.40
14	59.53	64.20
15	63.34	68.00
16	67.15	71.90

Sheet metal cutout dimensions for DFK-MC 1,5/...-GF, see page 240.

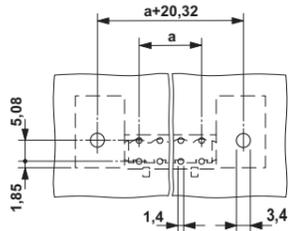


Sheet metal cutouts for DFK-MSTB 2,5/...-G, see page 352.

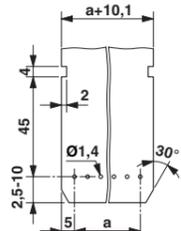


Sheet metal cutouts for DFK-MSTB 2,5/...-GF, see page 353.

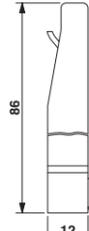
Number of positions	5.0 pitch		5.08 pitch	
	b	c	b	c
2	12.7	20	13.18	20.32
3	17.7	25	18.26	25.40
4	22.7	30	23.34	30.48
5	27.7	35	28.42	35.56
6	32.7	40	33.50	40.64
7	37.7	45	38.58	45.72
8	42.7	50	43.66	50.80
9	47.7	55	48.74	55.88
10	52.7	60	53.82	60.96
11	57.7	65	58.90	66.04
12	62.7	70	63.98	71.12
13	67.7	75	69.06	76.20
14	72.7	80	74.14	81.28
15	77.7	85	79.22	86.36
16	82.7	90	84.30	91.44



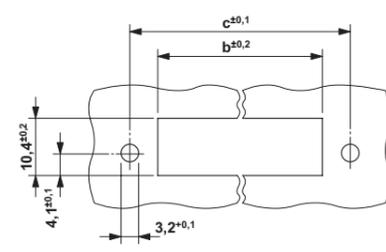
Drilling diagram for ICV 2,5/...-G-5,08 with FLRP-ICV 80, see page 333.



PCB cutout for ICV 2,5/...-G-5,08 with FLRP-ICV 80, see page 333.

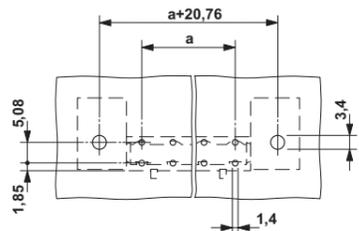


FLRP-ICV 80, see page 332.

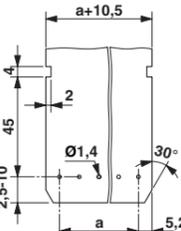


Sheet metal cutout dimensions for DFK-MSTB(V)A 2,5/...-G(F), see page 354.

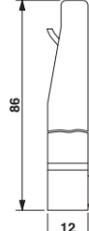
Number of positions	DFK...-G		DFK...-GF	
	b	c	b	c
2	12.54	19.76	20.65	29.92
3	17.62	24.84	25.73	35.00
4	22.70	29.92	30.81	40.08
5	27.78	35.00	35.89	45.16
6	32.86	40.08	40.97	50.24
7	37.94	45.16	46.05	55.32
8	43.02	50.24	51.13	60.40
9	48.10	55.32	56.21	65.48
10	53.18	60.40	61.29	70.56
11	58.26	65.48	66.37	75.64
12	63.34	70.56	71.45	80.72
13	68.42	75.64	76.53	85.80
14	73.50	80.72	81.61	90.88
15	78.58	85.80	86.69	95.96
16	83.66	90.88	91.77	101.04



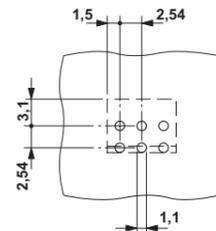
Drilling diagram for GICV 2,5/...-G-7,62 with FLRP-ICV, see page 347.



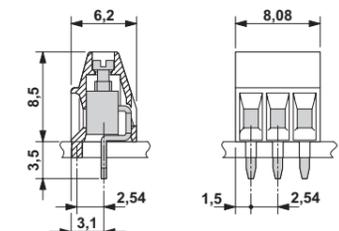
PCB cutout for GICV 2,5/...-G-5,08 with FLRP-ICV 80, see page 347.



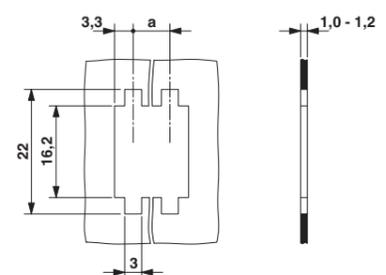
FLRP-ICV 80, see page 346.



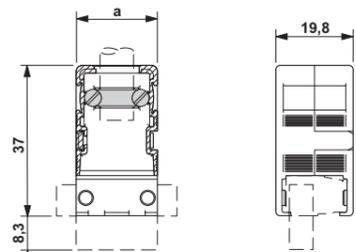
Drilling diagram for MPT 0,5/...-2,54, 2 to 3-pos. The 2 and 3-pos. versions have an additional locating pin (1.5 mm long) to support the mechanical load.



MPT 0,5/...-2,54, 2 to 3-pos., see page 83.



Panel feed-through for CIOC...FL, see page 65. Dimension a = 6.5 mm



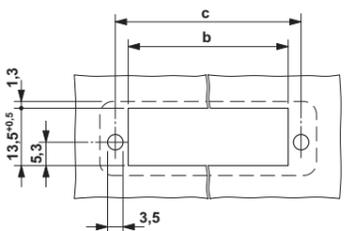
KGG-MSTB 2,5/..., see page 348.

Cable housing	Plugs
KGG-MSTB 2,5/3	GMSTB 2,5/2-ST*
KGG-MSTB 2,5/4	GMSTB 2,5/3-ST
KGG-MSTB 2,5/6	GMSTB 2,5/4-ST*
KGG-MSTB 2,5/7	GMSTB 2,5/5-ST
KGS-MSTB 2,5/9	GMSTB 2,5/6-ST*
KGS-MSTB 2,5/10	GMSTB 2,5/7-ST
KGS-MSTB 2,5/12	GMSTB 2,5/8-ST*
KGS-MSTB 2,5/13	GMSTB 2,5/9-ST
KGS-MSTB 2,5/15	GMSTB 2,5/10-ST*
KGS-MSTB 2,5/16	GMSTB 2,5/11-ST
KGS-MSTB 2,5/18	GMSTB 2,5/12-ST*

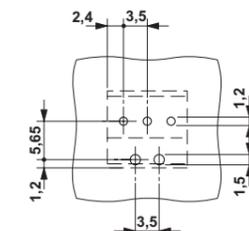
KGG-MSTB 2,5 and KGS-MSTB 2,5 can be combined with GMSTB 2,5/...-ST and GMSTB 2,5/...-ST-7,62.

* The cable housing pitch is approximately 2 mm wider than that of the plugs.

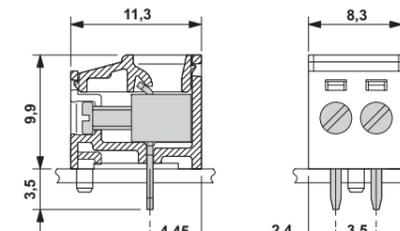
Number of positions	b	c
2	21.00	26.83
3	26.08	31.91
4	31.16	36.99
5	36.24	42.07
6	41.32	47.15
7	46.40	52.23
8	51.48	57.31
9	56.56	62.39
10	61.64	67.47
11	66.72	72.55
12	71.80	77.63
13	76.88	82.71
14	81.96	87.79
15	87.04	92.87
16	92.12	97.95



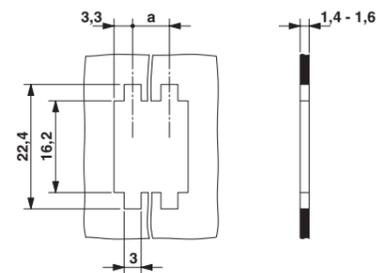
Sheet metal cutout dimensions for IC-DFR..., see page 350.



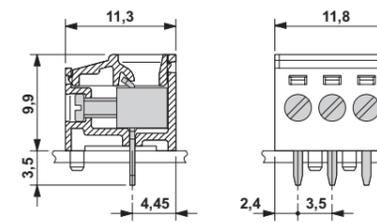
Drilling diagram for MKDSFW 1,5/3-3,5



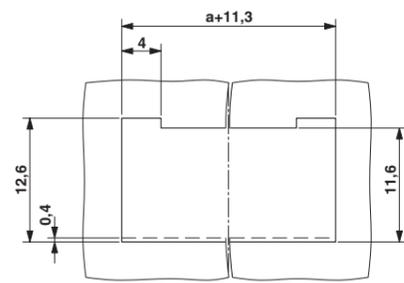
MKDSFW 1,5/2-3,5 with locating pin, see page 87.



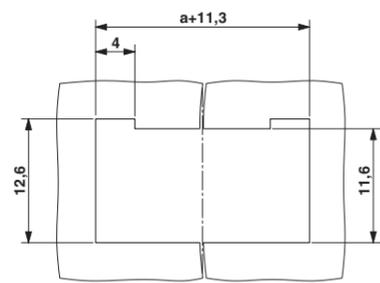
Panel feed-through for CIOC...FL, see page 65. Dimension a = 6.5 mm



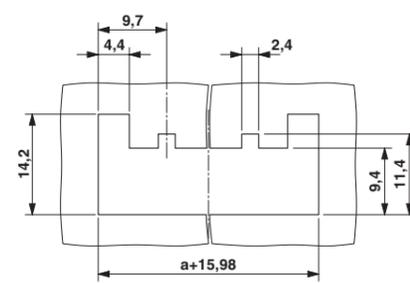
MKDSFW 1,5/3-3,5 with locating pin, see page 87.



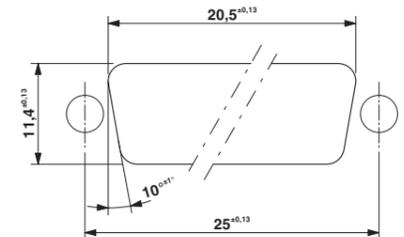
DMC 1,5/...-G1F-3,5-LR P20THR, see page 186.



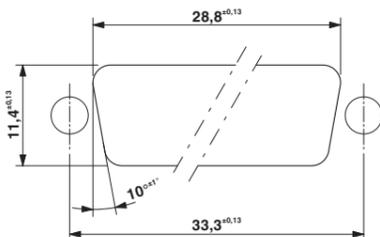
DMCV 1,5/...-G1F-3,5-LR P20THR, see page 187.



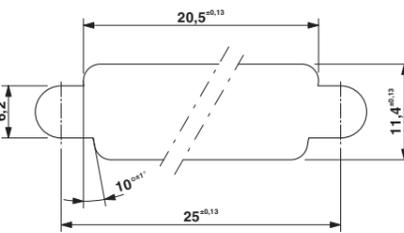
CC(V)2,5/...-GF-5,08-LR P26THR, see page 299.



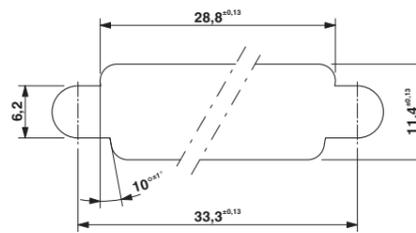
Mounting cutout according to DIN 41652-3
for panel thickness of up to 2.0 mm
PSC 1,5/3..M(-PE)
See page 251.



Mounting cutout according to DIN 41652-3
for panel thickness of up to 2.0 mm
PSC 1,5/5..M(-PE)
See page 251.



Mounting cutout according to DIN 41652-3
for panel thickness of up to 4.5 mm
PSC 1,5/3..M(-PE)
See page 251.



Mounting cutout according to DIN 41652-3
for panel thickness of up to 4.5 mm
PSC 1,5/5..M(-PE)
See page 251.

Quality in quantity



Integrated management system

The aim of the Phoenix Contact integrated management system is to coordinate all the requirements regarding products, processes, and organization.

Statutory and regulatory requirements, as well as those of international standards and our customers, are met and, in some cases, even exceeded in all phases of the product lifecycle.

In the Phoenix Contact management system, the integration of quality, environmental protection, and safety in the workplace is monitored each year for conformance by internationally recognized independent bodies. Certification in accordance with international standards ISO 9001, ISO 14001, and BS OHSAS 18001 is the result of our corporate philosophy of meeting the needs of our customers, staff, and environment as best as possible. They serve as the basis for innovative products with the familiar high Phoenix quality standard, actively practiced environmental protection, and responsibility in the field of occupational health and safety. It goes without saying that we integrate all further requirements of standards, international approvals or special customer requirements into our company processes.

This system provides a building block for the success of the Phoenix Contact Group and its products and services.

CE marking

The CE mark was introduced as an important instrument for the free movement of goods and services within the single European market. By attaching the mark to a product, the manufacturer confirms that it complies with all applicable European Union (EU) directives. EC directives describe the product properties with regard to device safety and avoiding danger. These are legally binding regulations of the European Union (EU). In other words, compliance

with the requirements is a **statutory condition for marketing the product within the EU.**

Where applicable, the products that our company currently manufactures fall within the scope of the following directives:

- 2006/95/EC
Electrical equipment designed for use within certain voltage limits (Low Voltage Directive)
- 2004/108/EC
Electromagnetic compatibility (EMC Directive)
- 2006/42/EC
Safety of machinery (Machinery Directive)
- 94/9/EC
Equipment and protective systems intended for use in potentially explosive areas (ATEX Directive 100a)
- 1999/5/EC
Radio and telecommunications terminal equipment (R&TTE)

The standards upon which the specified directives are based have been part of our standard of development for a long time. This guarantees conformance with European directives. The numbers of the directives indicate their version at the time of publication. In the event of changes to directives and/or standards, our products will undergo conformity assessment again in good time and a new declaration of conformity will be issued promptly. The current declarations for each product can also be found in our Download Center.

The EMC Directive occupies a special place among the European directives listed. It defines electromagnetic compatibility as a fundamental property of devices based on mandatory guidelines. European Law therefore acknowledges the electromagnetic compatibility of devices and systems as an important condition for error-free operation of machinery and systems. Phoenix Contact is one of the leading international companies in surge protection, and therefore possesses broad expertise in EMC. This expertise and the experience gained over years of developing and applying industrial interface and communication technology have resulted in our products having an extremely high standard of quality with regard to electromagnetic compatibility. It was with a view to providing other companies with this expertise that our associate company, Phoenix Testlab, was founded. Phoenix Testlab GmbH is an independent, accredited service provider offering EMC testing that conforms to European standards. At Phoenix Testlab,

devices are also tested with regard to their electrical safety, mechanical influences, and their behavior in relation to environmental influences. Furthermore, Phoenix Testlab is a "Notified Body" in accordance with EMC Directive 2004/108/EC and according to R&TTE Directive 1999/5/EC for radio and telecommunications terminal equipment. As a "Telecom Certification Body" (TCB), Phoenix Testlab may also approve these products for markets in the USA, Canada, and Japan.

Standards and regulations

All relevant standards and regulations are used as the basis for the development and maintenance of our products.

International standards are subject to continuous changes as a result of harmonization and new developments. In line with this process, the current version of all standards that are relevant to our products is documented on the Internet at www.phoenixcontact.net/products.

Online product information service on the web

Phoenix Contact's product range is growing constantly.

Due to our commitment to product monitoring, all products are subject to improvement.

The Internet is an ideal platform to quickly communicate new product developments and improvements to the market.

You can quickly access the relevant Phoenix Contact website for your region via www.phoenixcontact.com. Here, you will always find the latest overview of products, solutions, and services from Phoenix Contact. This includes technical documents, such as data sheets and user manuals, the latest driver and demo software, plus a means of contacting the appropriate contact person directly.

Note:

Subject to changes that serve the purpose of technical progress.

Connection cross section

The connection capacity for plug-in connectors and PCB terminal blocks is documented in the technical data. The connection capacity defines the conductor cross section which can be connected for conductors in solid (single and multi-strand) or stranded (fine-strand) versions. Cross section ranges are also specified for the use of ferrules. In addition, ranges where two conductors in solid and stranded versions are to be simultaneously connected are also mentioned.

Phoenix Contact PCB terminal blocks and plug-in connectors are designed to allow copper conductors to be connected to them untreated. "Special treatment" or

the use of ferrules is not required. "Special treatment" includes tin-plating the litz wires of a conductor, using cable lugs, bending the eyes, etc. However, it does not include straightening the conductor before inserting it into the terminal block or twisting a multi-strand conductor in order to consolidate its ends.

If ferrules are nevertheless used to protect stranded conductors against splicing, the connection capacity of the stranded conductor is generally reduced by one level. Conductors must not be soldered ("soldering all litz wires of a conductor together").

It is always recommended that you use Phoenix Contact CRIMPFOX crimping tools to crimp ferrules.

Cross section [mm²]	Single-strand		Multi-strand		Fine-strand		Gauge No. AWG	American Wire Gauge [AWG]					
	Diameter Max. dimension	Number of wires	Diameter Max. dimension	Number of wires (minimum number)	Diameter Max. dimension	Number of wires (guide value)		[Ø mm]	Solid wires [circ. miles]	[mm²]	[Ø mm]	Stranded wires [circ. miles]	[mm²]
0.2	0.5	1	-	-	-	-	24	0.51	404	0.21	-	-	-
0.5	0.9	1	1.1	7	1.1	16	20	0.81	1022	0.52	0.97	1111	0.56
0.75	1.0	1	1.2	7	1.3	24	18	1.02	1620	0.82	1.16	1600	0.82
1	1.2	1	1.4	7	1.5	32	(17)	1.15	2050	1.04	-	-	-
-	-	-	-	-	-	-	16	1.29	2580	1.31	1.50	2580	1.32
1.5	1.5	1	1.7	7	1.8	30	(15)	1.45	3260	1.65	-	-	-
-	-	-	-	-	-	-	14	1.63	4110	2.08	1.85	4100	2.09
2.5	1.9	1	2.2	7	2.3	50	(13)	1.83	5180	2.63	-	-	-
-	-	-	-	-	-	-	12	2.05	6530	3.31	2.41	6500	3.32
4	2.4	1	2.7	7	2.9	56	(11)	2.30	8230	4.17	-	-	-
-	-	-	-	-	-	-	10	2.59	10380	5.26	2.95	10530	5.37
6	2.9	1	3.3	7	3.9	84	(9)	2.91	13100	6.63	-	-	-
-	-	-	-	-	-	-	8	3.26	16510	8.37	3.73	16625	8.48
10	3.7	1	4.2	7	5.1	80	(7)	3.67	20800	10.56	4.15	20820	10.55
-	-	-	-	-	-	-	6	4.12	26240	13.30	4.67	26250	13.39
16	4.6	1	5.3	7	6.3	126	(5)	4.62	33100	16.77	5.24	33100	16.77
-	-	-	-	-	-	-	4	5.19	41740	21.15	5.90	41650	21.24
25	-	-	6.6	7	7.8	196	3	5.83	52600	26.67	6.61	52630	26.67
35	-	-	7.9	7	9.2	276	2	6.54	66360	33.62	7.42	66150	33.74
-	-	-	-	-	-	-	1	7.35	83690	42.41	8.33	83706	42.69
50	-	-	9.1	19	11	396	0	8.25	105600	53.51	9.35	104640	53.36
70	-	-	11	19	13.1	360	00	9.27	133100	67.44	10.52	132300	67.47

Degrees of protection according to DIN EN 60529

Definition:
IP (Ingress Protection) protection according to DIN EN 60529 is defined by two digits (e.g., IP54), the meaning of which is explained in the following tables.

First digit	Short description	Example	Definition
0	Not protected		
1	Protected against solid foreign objects		Protected against touching dangerous parts with the back of the hand. Protection against ingress of solid foreign objects with $\varnothing > 50$ mm.
2	Protected against solid foreign objects with $\varnothing 12.5$ mm or more		Protected against touching dangerous parts with a finger. Protection against ingress of solid foreign objects with $\varnothing > 12.5$ mm.
3	Protected against solid foreign objects with $\varnothing 2.5$ mm or more		Protected against touching dangerous parts with a tool. Protection against ingress of solid foreign objects with $\varnothing > 2.5$ mm.
4	Protected against solid foreign objects with $\varnothing 1$ mm or more		Protected against touching dangerous parts with a wire. Protection against ingress of solid foreign objects with $\varnothing > 1$ mm.
5	Protected against dust		Protected against touching dangerous parts with a wire. The ingress of dust is not completely prevented, but dust may not enter in such an amount that the satisfactory operation of the device or its safety is impaired.
6	Dust-proof		Protected against touching dangerous parts with a wire. No ingress of dust.

Degree of protection against water

Second digit	Short description	Example	Definition
0	Not protected		
1	Protected against dripping water		Vertically falling drops shall have no effect.
2	Protected against dripping water if the housing is inclined at an angle of up to 15°		Vertically falling drops shall have no effect if the housing is inclined at an angle of up to 15° either side of the vertical.
3	Protected against spray water		Water that is sprayed at an angle of up to 60° either side of the perpendicular shall have no harmful effect.
4	Protected against splash water		Water that splashes against the housing from any direction shall have no harmful effect.
5	Protected against jet water		Water that is directed as a jet against the housing from every direction shall have no harmful effect.
6	Protected against powerful jet water		Water that is directed as a strong jet against the housing from every direction shall have no harmful effect.
7	Protected against the effect of temporary submersion in water		Water may not penetrate in a harmful quantity when the housing is temporarily submerged in water under standard pressure and time conditions.
8	Protected against the effect of continuous submersion in water		Water may not penetrate in a harmful quantity when the housing is submerged in water continuously under conditions to be agreed between the manufacturer and user.
9K	Protected against water during high-pressure and jet-stream cleaning		Water that is directed against the housing under extremely high pressure from every direction shall have no harmful effect. (Example: IP69K according to DIN 40050 Part 9)

For safety reasons, electrical equipment must be protected against external influences. This is the job of the housing, which protects electrical equipment against contact, the penetration of solid objects, dust, and moisture.

The following table contains possible combinations of degrees of protection according to DIN EN 60529 which can be practically applied to housing.

Shock protection	Foreign object protection	Protection against water	No protection	Protection against vertically falling dripping water	Protection against dripping water if the housing is inclined at an angle of up to 15°	Protection against spray water from all directions, even when inclined at an angle of up to 60°	Protection against splash water from all directions	Protection against jet water from all directions	Protection against powerful jet water from all directions	Protection against temporary submersion	Protection against the effects of continuous submersion in water	Protected against water during high-pressure and jet-stream cleaning (DIN 40050-9)
		IP0x	IPx0	IPx1	IPx2	IPx3	IPx4	IPx5	IPx6	IPx7	IPx8	IPx9K
No shock protection	No protection against solid foreign objects	IP0x	IP00									
Back of hand safe	Protection against solid foreign objects > 50 mm \varnothing	IP1x	IP10	IP11	IP12							
Touch proof	Protection against solid foreign objects > 12.5 mm \varnothing	IP2x	IP20	IP21	IP22	IP23						
Protection against touching with tools, wires, etc. > 2.5 mm \varnothing	Protection against solid foreign objects > 2.5 mm \varnothing	IP3x	IP30	IP31	IP32	IP33						
Protection against touching with tools, wires, etc. > 1 mm \varnothing	Protection against solid foreign objects > 1.5 mm \varnothing	IP4x	IP40	IP41	IP42	IP43	IP44					
Protection against touching with tools, wires, etc. > 1 mm \varnothing	Protection against harmful dust accumulations inside the device	IP5x	IP50				IP54	IP55				
Protection against touching with tools, wires, etc. > 1 mm \varnothing	No ingress of dust	IP6x	IP60					IP65	IP66	IP67	IP68	IP69K

Our insulation housing is made from various thermoplastic materials. Depending on the application, the best-suited material is selected based on its electrical and mechanical properties.

All plastics used by Phoenix Contact are RoHS-compliant.

All plastics used at Phoenix Contact have been listed with UL (Underwriters Laboratories Inc.) in the USA.

Behavior of plastics under the influence of temperature (operating temperatures)

All plastics undergo thermal aging when they are subjected to heat over long periods. This process causes changes in the mechanical and electrical properties of the material. External influences, e.g., radiation, additional mechanical, chemical or electrical stresses, amplify this effect. All characteristic data included in the table has been determined using samples and so provides a good means of drawing comparisons between different plastics. However, applying these characteristics to an evaluation of molded plastic parts is only possible to a limited extent, and can only give the designer a rough guide when it comes to selecting a plastic material. This catalog uses RTI Elec according to UL746B as an assessment criterion for temperature resistance.

Insulation materials

Polyamide: PA and PA-GF

Polyamide has excellent electrical, mechanical, and chemical properties even at high operating temperatures. Brief peak temperatures up to approximately 200°C are permitted as a result of heat aging stabilization. The absorption of water makes the plastic flexible and resistant to breakage, even at low temperatures.

Fiber-reinforced polyamides feature greater rigidity and hardness as well as operating temperatures higher than those of non-reinforced materials.

Polyamide for high-temperature applications: PA HT and PA-GF HT

Special high-temperature-resistant types of polyamide are used in non-reinforced or fiberglass-reinforced variants for reflow applications. These high-temperature polyamides combine the excellent electrical properties of polyamide and the requirements of the reflow soldering process for temperature resistance.

Liquid crystal polymers: LCP GF

LCP combines high temperature stability with excellent dimensional stability and creeping resistance for products used in reflow processes. LCP has exceptional mechanical properties across a wide temperature range and a very low thermal expansion.

Polyester: PBT and PBT-GF

We use thermoplastic polyester in non-reinforced and fiberglass-reinforced variants for special applications which require increased dimensional and form stability.

In addition to the high operating temperature, the material is characterized by good mechanical strength and hardness, as well as excellent notched impact strength. PBT does not absorb moisture from its surroundings. PBT is therefore particularly suitable for strips, for example, which are soldered onto PCBs.

Polycarbonate: PC

Polycarbonate combines many advantages such as rigidity, impact strength, transparency, dimensional stability, good insulation properties, and resistance to heat.

The amorphous material only absorbs moisture to a very limited degree, and is used for items such as large, rigid electronic component housing.

In its transparent form, polycarbonate is particularly suitable for use as cover profiles or marking materials.

Acrylonitrile butadiene styrene: ABS

We use ABS for products which must have good impact and notched impact properties in addition to high mechanical stability and rigidity. The products are also characterized by their special surface quality and hardness.

ABS is suitable for coating metallic surfaces, e.g., nickel.

Polyvinyl chloride: PVC

While most thermoplastic materials are processed with injection molding using ready-to-use molding and extrusion material, PVC is processed as a powder in the extruder. This is why it is used in our profile products. PVC is also self-extinguishing without flame protection and has high mechanical strength but is notch-sensitive.

Polyoxymethylene: POM

Polyoxymethylene is a technical material that combines high rigidity with mechanical stability, excellent elastic properties, high tenacity, dimensional accuracy, and exceptional sliding friction behavior.

Polyethylene: PE

Polyethylene is characterized by excellent chemical resistance and electrical insulation properties. PE is thermoplastic and can therefore be processed using almost all procedures. Furthermore, PE has excellent tenacity even at low temperatures and a good elongation at break.

Polypropylene: PP

PP has higher rigidity, hardness, and stability and is more heat-resistant than PE. PP is not as tough at low temperatures, however.

Thermoplastic polyurethane: TPU and TPU-GF

TPU is characterized by excellent electrical properties, a good surface feel, a high degree of flexibility over a wide temperature range, and high resistance to wear. Thermoplastic polyurethanes are also elastic and low-temperature impact resistant.

In contrast to non-reinforced materials, fiberglass-reinforced TPU is characterized by high rigidity and hardness.

Irradiated ethylene-propylene-diene polymer/polypropylene: EPDM-PP

EPDM-PP is a polymer blend of PP and irradiated EPDM. EPDM-PP is a rubber-like material which can be processed using thermoplastic procedures. EPDM-PP combines high temperature resistance, a low compression set, and excellent resistance to abrasion and chemicals.

Acrylonitrile butadiene styrene rubber: NBR

NBR is a rubber with excellent resistance to aging. It also features excellent resistance to abrasion and low plastic flow. Its elasticity is lower than other rubbers.

Fluorinated rubber: FPM

FPM rubbers are characterized by very high temperature resistance, but behave less favorably at low temperatures than other rubbers.

Chlorine-butadiene rubber: CR

CR rubber stands out against other rubbers with its excellent resistance to weather and ozone.

Properties	Standard	Unit	PA	PA GF	PA HT	PA GF HT	PBT	PBT GF	LCP GF	PC	ABS	PVC	POM	PP	UP
RTI Elec ¹⁾	UL 746B	°C	≥ 105	≥ 105	≥ 105	≥ 105	≥ 105	≥ 105	≥ 130	≥ 105	≥ 80	≥ 50	≥ 105	65	50
Minimum temperature for use (without mechanical load)		°C	-40	-40	-40	-40	-40	-40	-40	-40	-40	-15	-40	-40	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	600	400		> 200	400	400		> 300	850		850		
Creep resistance CTI...	IEC 60112/ DIN VDE 0303-1		600	400	≥ 250	225	600	225	175	175	600	600	600		
Creep resistance CTI...M	IEC 60112/ DIN VDE 0303-1		550	250			600	225		175	600	600	600		
Inflammability class	UL 94	HB - V0	V2, V0	HB, V0	V0	V0	V0	V0	V0	V2, V0	V0	HB	HB	HB	HB
Tropical and termite resistance			Good	Good			Good			Good					

1) Possible at "≥" higher temperatures, but not recommended due to increased aging of plastics and insufficient current carrying capacity.

Properties	Standard	Unit	TPU	TPU GF	EPDM/PP
RTI Elec	UL 746B	°C	50	50	100
Minimum temperature for use (without mechanical load)		°C	-40	-40	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	35	35	
Creep resistance CTI...	IEC 60112/ DIN VDE 0303-1		600	600	600
Creep resistance CTI...M	IEC 60112/ DIN VDE 0303-1		600		
Inflammability class	UL 94	HB - V0	V2	HB	HB
Chemical resistance	See chemical resistance table				

Properties	Standard	Unit	NBR	FPM	CR
Operating temperature		°C	£ 100	£ 200	£ 100
Minimum temperature for use (without mechanical load)		°C	-40	-25	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	Not relevant as these are sealing materials		
Creep resistance CTI...	IEC 60112/ DIN VDE 0303-1				
Creep resistance CTI...M	IEC 60112/ DIN VDE 0303-1				
Inflammability class	UL 94	HB - V0			

Chemicals	Plastics																	
	Concentration in %	Temperature in °C	PA 66/PA 6	PA 66 GF	PA 46 GF	PC GF	POM	NBR	PP	EPDM	PBT	PUR	PUR irradiated*	PVC-P (soft)	PE-LD	TPU	FPM (Viton)	CR (neoprene)
Acetaldehyde			0	0	0	-	0	-	-	0		+	+	+	0	0	-	0
Acetate			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Acetic acid	20	20	-	-	0	0	+	-	+	+	0	0	0	+	+	-	0	
Acetone			+	+	+	0	0	-	+	+	0	0	0	+	+	-	0	
Acetophenone			+	+	+	0	0	-	+	+	0	0	+	+	-	-	-	-
Alcohols			0	0	0	0	+	0	+	+	+	+	+	-	-	+	0	+
Aldehyde			0	0	0	-	0	-	-	0		+	+	+	0	-	0	0
Alkalis, strong			0	-	-	-	+	-	+		+	-	-	+	0	0	-	-
Alkalis, weak			+	+	+	-	+	0	+	+	+	+	+	+	0	+	-	0
Amines			+	+	+	-	0	-	0	+	+	+	+	+	0	-	-	-
Ammonia	10	20	+				+	0	+	+	+	+	+	0	0	-	+	
Benzaldehyde			0	0	0	-	0	-	0	-	+	+	+	0	0	-	0	0
Benzine		20	+	+	+	0	+	0	0	-	+	+	+	-	-	-	+	-
Benzol		50	+	+	+	+	0	-	0	-	+	0	0	-	0	-	0	-
Benzophenone		20	+	+	+	0	0	-	+	0	0	+	+	-	-	-	+	-
Boracic acid	100	20	0				0	+	+	+	+	0	0	+	+	+	+	+
Brake fluid		100	+				+	-	-	+	+	-	-	0	+	-	-	-
Butyric acid			-	-	0	0	+	0	+	+	+	0	0	+	+	-	0	0
Citric acid	10		+				+	+	+	+	+	+	+	+	+	+	+	+
Cyclohexanone			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Detergent alkalis	2	100	0				+	+	+	+	+	+	+	-	-	+	+	0
Diesel oil			+				+	+	+	-	+	+	+	-	+	-	+	-
Diethylamine			+	+	+	-	0	-	-	0	+	+	+	+	-	-	-	-
Dimethylamine			+	+	+	-	0	-	-	0	+	+	+	+	0	-	-	-
Ester			+	+	+	0	-	-	-	0	+	+	+	-	+	-	-	-
Ethanol			0	0	0	0	+	0	+	+	+	+	+	-	+	+	+	+
Ether			+	+	+	-	0	-	0	0	+	+	+	-	0	+	-	-
Formaldehyde			0	0	0	-	0	-	-	0	+	+	+	+	0	0	+	0
Formic acid			-	-	0	0	+	-	+	+	+	0	0	-	+	0	0	+
Fuels			+	+	+	0	+	0	0	-	+	+	+	-	-	-	+	-
Gear oil		100	+				+	+	+	-	+	+	+	+	-	+	-	-
Glacial acetic acid		50	-	-	-	-	-	-	0	+	-	-	-	-	+	-	-	-
Greases			+	+	+	+	+	0	0	-	-	-	-	0	+	-	+	0
Halogens (fluorine, chlorine, bromine, iodine)			-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
Hydraulic oil		20	+				0	+	-	+	+	+	-	+	-	+	-	-
Hydrocarbons, aliphatic			+	+	+	+	+	0	0	0	+	+	+	-	+	+	-	-
Hydrocarbons, aromatic			+	+	+	-	0	-	0	0	0	+	+	-	-	-	+	-
Hydrocarbons, chlorinated			0	0	0	-	+	-	-	-	0	-	-	-	-	-	+	-
Hydrocarbons, unsaturated chlorinated			0	0	0	-	+	-	-	-	0	0	0	-	-	-	+	-
Hydrochloric acid		20	-				-	0	+	0	0	-	-	-	+	0	+	0
Inorganic salt solutions			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Kerosene		20	+				+				+	+	+	-	0	-	+	-
Ketones			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Lactic acid	10	20	+				+	+	+	+	+	+	+	-	+	+	+	+
Machine oil			+				+				+	+	+	0	+	-	+	-
Metal chloride			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Metal nitrate			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Metal sulfate			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Methanol			0	0	0	0	+	0	+	+	+	+	+	+	+	+	+	+
Methylamine			+	+	+	-	0	-	-	0	+	+	+	+	0	0	-	-
Mineral oil			+	+	+	+	+	+	+	-	+	+	+	+	-	-	+	-
Motor oil		120	+	+	+	0	+	+	+	-	+	+	+	-	+	-	+	-
Nitric acid	30	20	-	0	-	0	-	-	+	0	0	0	0	-	+	-	+	-
Nitrobenzene			0				0	-	-	0	+	-	-	-	0	+	0	-
Ozone			0	0	0	-	0	-	+	+	0	0	+	+	0	+	+	-
Potassium hydroxide solution			+	+	+	-	+	0	+	-	+	+	+	+	0	+	-	-
Propyl alcohol			0	0	0	0	+	0	+	+	+	+	+	-	+	+	+	+
Seawater		20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sodium hydroxide solution	50	50	0	0	+	-	+	+	+	-	+	+	+	+	0	0	0	0
Sulfuric acid	50	50	-	0	-	0	-	-	+	+	-	0	0	+	+	0	+	-
Turpentine			0	0	0	+	-	+	-	-	+	0	0	-	-	-	+	-
UV resistance			+	+	+	0	0	-	-	-	+	+	+	0	0	+	+	-
Water (dist.)		20												+				
Water, cold			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Water, hot			-	-	-	-	+	+	+	+	-	+	+	+	0	+	0	0

- Not resistant
0 Moderately resistant
+ Resistant

* The irradiated PUR type is generally more resistant than the non-irradiated type. This cannot be quantified and must be checked in individual cases. The information in the table has been gathered from the recommendations of our plastic suppliers. Since individual operating conditions can also affect the usability of each product, this information should be used as a guide only. For applications where no prior experience exists, we recommend that the user carries out preliminary tests.

Insulation coordination for equipment within low-voltage systems

Dimensioning of air and creepage distances according to DIN EN 60664-1/VDE 0110-1.

This part of the standard, based on IEC 60664, contains specifications for the insulation coordination of items of equipment in low-voltage systems. This part is applicable for items to be used at a height of up to 2000 m above sea level. This basic safety standard is primarily aimed at technical committees, and if suitable product directives are not available for an item, it can be used at one's own responsibility. International and European product standards cited in this catalog contain specifications for insulation coordination in accordance with DIN EN 60664/VDE 0110-1.

Insulation coordination

Insulation coordination includes the selection of electrical insulation properties for items as regards intended applications and ambient conditions. Separate requirements must be applied for air and creepage distances and for rigid insulation. The surge voltages to be expected, characteristics of surge protective devices, and pollution at the intended site must be considered when dimensioning clearances. Clearances are then dimensioned according to the external or internal surge voltages to be expected. Different surge voltages, grouped into categories, i.e., a value that determines an impulse withstand voltage, ascertain the required clearance directly. These surge voltage categories (I to IV) are mainly based on a statistical study, and are used for the items that are directly supplied by low-voltage networks. Definitions of the individual categories are provided below as an extract of DIN EN 60664/VDE 0110-1.

The clearances can be calculated according to Table 2 (minimum clearances) depending on the homogeneity level of the field between the electrodes (case A – non-homogeneous field, case B – homogeneous field).

Clearances according to case A are capable of withstanding the assigned surge voltages under all conditions. Items that are dimensioned according to case A can therefore be used without any further testing. Clearance values according to case B are based on ideal conditions. Clearance values which fall between case A and case B must be proven by means of a surge voltage test.

The voltages present, the properties of insulation materials, the pollution to be expected, and safety measures against pollution are considered when dimensioning creepage distances.

The effect of pollution is considered when determining the air and creepage distances according to three intensity levels (pollution degree 1 to 3).

The creepage distance is based on the rated voltage that is derived from the working voltage or nominal mains voltage. The minimum creepage distances are assigned to the rated voltages according to the pollution degree in Table 4.

If the respective product descriptions do not contain any additional specifications, the products presented in this catalog are dimensioned for surge voltage category III and pollution degree 3 according to this regulation (DIN EN 60664-1/VDE 0110-1).

Surge voltage categories I to IV

– Items in **surge voltage category IV** can be used at the terminal point of the installation.

Note: examples of such items include electricity meters and primary devices for overcurrent protection.

– Items in **surge voltage category III** can be used in fixed installations and are intended for such cases where there are special requirements for the reliability and availability of the items.

Note: examples of such items include switches in fixed installations and items for industrial use with permanent connection to the fixed installation.

– Items in **surge voltage category II** are power-consuming items that are supplied by the fixed installation.

Note: examples of such items include household appliances, portable tools, other domestic appliances, and similar devices.

– Items in **surge voltage category I** can be connected to circuits where measures have been taken to limit the surge voltages to a suitable lower value.

Pollution degrees 1 to 4

The following four pollution degrees have been defined for the micro-environment in order to determine air and creepage distances:

– Pollution degree 1

No contamination or only dry, non-conductive contamination is present. The contamination has no influence.

– Pollution degree 2

Only non-conductive contamination is present. Temporary conductivity due to condensation must occasionally be taken into consideration, however.

– Pollution degree 3

Conductive contamination or dry, non-conductive contamination is present which becomes conductive, since condensation is expected.

– Pollution degree 4

Permanent conductivity is present, caused by conductive dust, rain or moisture.

Insulation material

DIN EN 60664/VDE 0110-1 classifies insulation materials into four groups depending on their CTI values that were obtained using solution A in accordance with IEC 60112. These are:

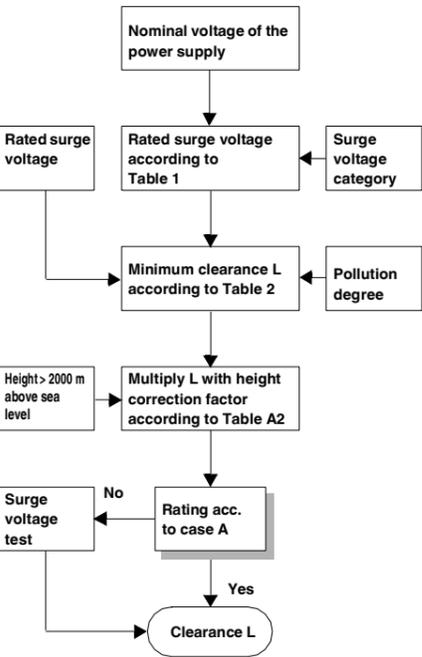
- Insulation material group I: $600 \leq CTI$
- Insulation material group II: $400 \leq CTI < 600$
- Insulation material group IIIa: $175 \leq CTI < 400$
- Insulation material group IIIb: $100 \leq CTI < 175$

The comparative tracking index of the creepage distance must have been determined based on suitable samples using test solution A as specified in DIN IEC 60112.

The proof tracking index of the creepage distance (PTI) is used as proof of the creepage current properties of insulation materials.

Dimensioning of clearances

Schematic for determining clearances



Altitude correction factors (extract from Table A.2)

Height in m	Normal air pressure in kPa	Multiplication factor for gaps
2000	80.0	1.00
3000	70.0	1.14
4000	62.0	1.29
5000	54.0	1.48
6000	47.0	1.70
7000	41.0	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12.0	6.67
20000	5.5	14.50

Current carrying capacity

Standard IEC 60947-7-1/
EN 60947-7-1/DIN VDE 0611-1 specifies the test currents for the individual conductor cross sections listed in the adjacent table. The corresponding currents are listed with the connection data for the individual products.

Rated surge voltages for items that are directly supplied by the low-voltage network (extract from Table 1)

Nominal voltage of the power supply system ¹⁾ (mains) acc. to IEC 60038 ³⁾ [V]	Conductor-neutral conductor voltage derived from the total nominal AC voltage or nominal DC voltage [V]	Rated surge voltage ²⁾ [V]			
		Surge voltage category ⁴⁾			
Three-phase	Single-phase	I	II	III	IV
		330	500	800	1500
		500	800	1500	2500
		800	1500	2500	4000
		1500	2500	4000	6000
		2500	4000	6000	8000
		4000	6000	8000	12000

- 1) Refer to Appendix B for application in existing deviating low-voltage networks and their nominal voltages.
- 2) Items with this rated surge voltage may be used in systems in accordance with IEC 60364-4-443.
- 3) The slash, i.e., /, indicates a three-phase 4-conductor system. The lower value is the conductor-to-neutral conductor voltage, whereas the higher value is the conductor-to-conductor voltage. When only one value is specified, it refers to a three-phase 3-conductor system, and indicates the conductor-to-conductor voltage.
- 4) Refer to 2.2.2.1.1 for an explanation of surge voltage categories.

Minimum clearances for surge voltages (extract from Table 2)

Required impulse withstand voltage ^{1) 5)}	Condition A Non-homogeneous field (refer to 1.3.15)			Condition B Homogeneous field (refer to 1.3.14)		
	Pollution degree ⁶⁾			Pollution degree ⁶⁾		
	1 [mm]	2 [mm]	3 [mm]	1 [mm]	2 [mm]	3 [mm]
0.33 ²⁾	0.01			0.01		
0.40	0.02			0.02		
0.5 ²⁾	0.04	0.2 ^{3) 4)}		0.04	0.2 ^{3) 4)}	
0.60	0.06			0.06		
0.80 ²⁾	0.10		0.8 ⁴⁾	0.10		0.8 ⁴⁾
1.0	0.15			0.15		
1.2	0.25	0.25		0.2		
1.5 ²⁾	0.5	0.5		0.3	0.3	
2.0	1.0	1.0	1.0	0.45	0.45	
2.5 ²⁾	1.5	1.5	1.5	0.6	0.6	
3.0	2.0	2.0	2.0	0.8	0.8	
4.0 ²⁾	3	3	3	1.2	1.2	1.2
5.0	4	4	4	1.5	1.5	1.5
6.0 ²⁾	5.5	5.5	5.5	2	2	2
8.0 ²⁾	8	8	8	3	3	3
10	11	11	11	3.5	3.5	3.5
12 ²⁾	14	14	14	4.5	4.5	4.5
15	18	18	18	5.5	5.5	5.5
20	25	25	25	8	8	8
25	33	33	33	10	10	10
30	40	40	40	12.5	12.5	12.5
40	60	60	60	17	17	17
50	75	75	75	22	22	22
60	90	90	90	27	27	27
80	130	130	130	35	35	35
100	170	170	170	45	45	45

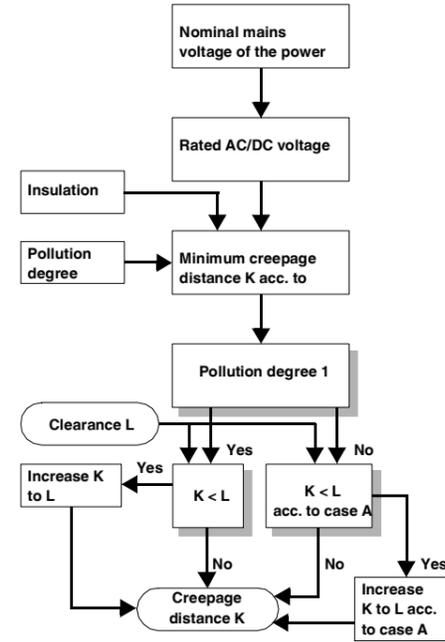
- 1) This voltage is:
 - For function insulation: the highest surge voltage expected for the clearance
 - For basic insulation, if influenced directly or considerably by surge voltages from the low-voltage network: the item's rated surge voltage
 - For a different basic insulation: the highest surge voltage possible in the circuit
- 2) Preferred values
- 3) For PCBs, the values of pollution degree 1 are applicable, except that no deviation below the value of 0.04 mm is permitted, as specified in Table 4.
- 4) Minimum clearances for pollution degrees 2 and 3 are based on the corresponding creepage distances. This resistance is reduced due to the effects of humidity.
- 5) Values can be interpolated for parts or circuits within items that are subjected to surge voltages.
- 6) The distances for pollution degree 4 are equal to those for pollution degree 3, except that the minimum clearance is 1.6 mm.

Test currents according to IEC 60947-7-1/EN 60947-7-1, Table 5

Rated cross section [mm ²]	0.2	0.5	0.75	1.0	1.5	2.5	4	6	10	16
Test current [A]	4	6	9	13.5	17.5	24	32	41	57	76
Rated cross section [mm ²]	25	35	50	70	95	120	150	185	240	300
Test current [A]	101	125	150	192	232	269	309	353	415	520

Dimensioning of creepage distances

Schematic for determining creepage distances



Single-phase 3 or 2-conductor AC or DC voltage systems (extract from Table 3a)

Nominal voltage of the power supply system (mains) ¹⁾ [V]	Voltages for Table 4	
	for conductor-conductor insulation ¹⁾ All systems [V]	for conductor-ground insulation ¹⁾ 3-conductor systems center point grounded [V]
12.5	12.5	-
24	25	-
25	32	-
30	32	-
42	50	-
48	50	-
50 ^{**)}	50	-
60	63	-
30 - 60	63	32
100 ^{**)}	100	-
110	125	-
120	125	-
150 ^{**)}	160	-
220	250	-
110 - 220	250	125
220 - 240	250	125
300 ^{**)}	320	-
220 - 440	500	250
600 ^{**)}	630	-
480 - 960	1000	500
1000 ^{**)}	1000	-

- 1) Conductor-ground insulation levels for non-grounded systems or those grounded through impedance correspond to conductor-conductor insulation levels as the operating voltage of every conductor to ground can, in practice, reach the conductor-conductor voltage. This is due to the fact that the actual voltage to ground is determined by the insulation resistance and the capacitive reactance of each conductor to ground. A low (but permissible) insulation resistance of one conductor can thereby practically ground it and increase the other two to conductor-conductor voltage to ground.
- 2) For items designed for use in three-phase 4-conductor and three-phase 3-conductor systems, grounded as well as non-grounded, only the values for 3-conductor systems may be used.
- *) Refer to 2.2.1 for correlation with the rated voltage.
- ***) These values correspond to the values in Table 1.

Three-phase 4 or 3-conductor AC voltage systems (extract from Table 3b)

Nominal voltage of the power supply system (mains) ¹⁾ [V]	Voltages for Table 4		
	for conductor-conductor insulation All systems [V]	Insulation for conductor-ground Three-phase 4-conductor systems with grounded neutral conductor ²⁾ [V]	Three-phase 3-conductor systems non-grounded ¹⁾ or conductor grounded [V]
60	63	32	63
110/120/127	125	80	125
150 ^{**)}	160	-	160
208	200	125	200
220/230/240	250	160	250
300 ^{**)}	320	-	320
380/400/415	400	250	400
440	500	250	400
480/500	500	320	500
575	630	400	630
600 ^{**)}	630	-	630
660/690	630	400	630
720/830	800	500	800
960	1000	630	1000
1000 ^{**)}	1000	-	1000

- 1) Conductor-ground insulation levels for non-grounded systems or those grounded through impedance correspond to conductor-conductor insulation levels as the operating voltage of every conductor to ground can, in practice, reach the conductor-conductor voltage. This is due to the fact that the actual voltage to ground is determined by the insulation resistance and the capacitive reactance of each conductor to ground. A low (but permissible) insulation resistance of one conductor can thereby practically ground it and increase the other two to conductor-conductor voltage to ground.
- 2) For items designed for use in three-phase 4-conductor and three-phase 3-conductor systems, grounded as well as non-grounded, only the values for 3-conductor systems may be used.
- *) Refer to 2.2.1 for correlation with the rated voltage.
- ***) These values correspond to the values in Table 1.

Creepage distances to prevent failures occurring due to creepage (extract from Table 4)

Voltage ¹⁾ r.m.s. value [V]	Minimum creepage distances								
	Printed circuits Pollution degree			Pollution degree					
	1 All insulation material groups [mm]	2 All insulation material groups except IIIb [mm]	3 All insulation material groups [mm]	Insulation material group I II III [mm]			Insulation material group I II III ²⁾ [mm]		
10	0.025	0.04	0.08	0.40	0.40	0.40	1.00	1.00	1.00
12.5	0.025	0.04	0.09	0.42	0.42	0.42	1.05	1.05	1.05
16	0.025	0.04	0.10	0.45	0.45	0.45	1.10	1.10	1.10
20	0.025	0.04	0.11	0.48	0.48	0.48	1.20	1.20	1.20
25	0.025	0.04	0.125	0.50	0.50	0.50	1.25	1.25	1.25
32	0.025	0.04	0.14	0.53	0.53	0.53	1.30	1.30	1.30
40	0.025	0.04	0.16	0.56	0.80	1.10	1.4	1.6	1.8
50	0.025	0.04	0.18	0.60	0.85	1.20	1.5	1.7	1.9
63	0.040	0.63	0.20	0.63	0.90	1.25	1.6	1.8	2.0
80	0.063	0.10	0.22	0.67	0.95	1.3	1.7	1.9	2.1
100	0.10	0.16	0.25	0.71	1.00	1.4	1.8	2.0	2.2
125	0.16	0.25	0.28	0.75	1.05	1.5	1.9	2.1	2.4
160	0.25	0.40	0.32	0.80	1.1	1.6	2.0	2.2	2.5
200	0.40	0.63	0.42	1.00	1.4	2.0	2.5	2.8	3.2
250	0.56	1.00	0.56	1.25	1.8	2.5	3.2	3.6	4.0
320	0.75	1.60	0.75	1.60	2.2	3.2	4.0	4.5	5.0
400	1.00	2.00	1.00	2.00	2.8	4.0	5.0	5.6	6.3
500	1.30	2.50	1.30	2.50	3.6	5.0	6.3	7.1	8.0
630	1.80	3.20	1.8	3.2	4.5	6.3	8.0	9	10.0
800	2.40	4.00	2.4	4.0	5.6	8.0	10.0	11	12.5
1000	3.20	5.00	3.2	5.0	7.1	10	12.5	14	16.0
1250			4.2	6.3	9	12.5	16	18	20
1600			5.6	8	11	16	20	22	25
2000			7.5	10	14	20	25	28	32
2500			10	12.5	18	25	32	36	40
3200			12.5	16	22	32	40	45	50
4000			16	20	28	40	50	56	63
5000			20	25	36	50	63	71	80
6300			25	32	45	63	80	90	100
8000			32	40	56	80	100	110	125
10000			40	50	71	100	125	140	160

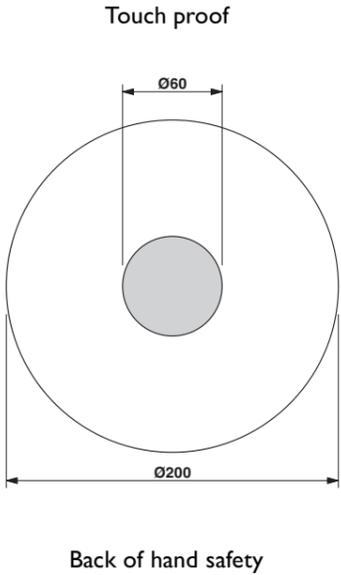
- 1) This voltage is:
 - a) For function insulation: the working voltage
 - b) For basic and additional insulation of a circuit supplied directly by the low-voltage network: either the voltage selected from Table 3a or 3b on the basis of the rated voltage of the equipment or the rated insulation voltage
 - c) For basic and additional insulation of systems, equipment and internal circuits which are not supplied directly from the mains: the highest r.m.s. value of the voltage that, within the bounds of the rated data, can occur in the system, the equipment or the internal circuit, when supplied with rated voltage and in the case of the most unfavorable combination of operating conditions.
- 2) For pollution degree 3, insulation material group IIIb is not recommended for use if voltages are greater than 630 V.

Overview of approval bodies and safety marks

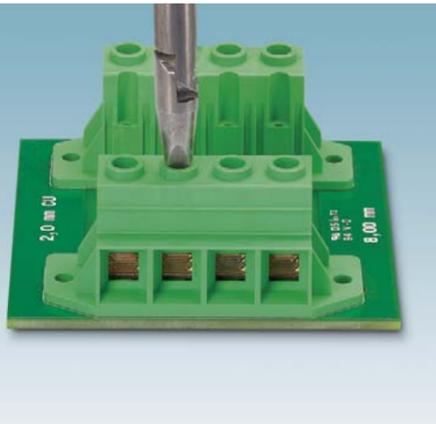
Certification bodies and approvals		Country code	Explosion protection		Country code	Ship classification societies		Country code
CB	IECEE CB Scheme (in combination with certifying body)	International	FM APPROVED	FM Approvals	US	Bureau Veritas		FR
CCA	CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU	DEKRA	DEKRA Certification B.V.	NL	Germanischer Lloyd AG		DE
CSA	Canadian Standards Association (CSA)	CA	PTB	Physikalisch-Technische Bundesanstalt	DE	Lloyd's Register EMEA		GB
UL	Underwriters Laboratories Inc. (UL)	US	QS International	QS Schaffhausen	CH	ClassNK	Nippon Kaiji Kyokai	JP
UL	Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA	VTT	VTT Expert Services Oy	FI	Det Norske Veritas		NO
UL	Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA	IBExU	IBExU Institut für Sicherheitstechnik GmbH	DE	Polski Rejestr Statków		PL
IN	INSIEME PER LA QUALITA'E LA SICUREZZA	IT	TÜV Rheinland do Brasil		BR	Russian Maritime Register of Shipping		RU
GOST	Gosudarstvenno Komitet Standartov (GOST)	RU	UL	Underwriters Laboratories Inc. (UL)	US	KR	Korean Register of Shipping	KR
KEMA	DEKRA Certification B.V.	NL	TUV NORD	TÜV Nord	DE	ABS	American Bureau of Shipping	US
ÖVE	Österreichischer Verband für Elektrotechnik	AT	DEKRA	DEKRA EXAM GmbH	DE			
SABS	South African Bureau of Standards	ZA						
SEV	electrosuisse SEV Verband für Elektro-, Energie- und Informationstechnik	CH						
VDE	Verband Deutscher Elektrotechniker e.V. (VDE) - Approval of drawings - Reports with production monitoring	DE						
GS	Berufsgenossenschaft (BG) GS - Geprüfte Sicherheit	DE						
TÜV	TÜV Rheinland Industrie Service GmbH	DE						

Note:
Subject to changes that serve the purpose of technical progress.

Shock protection



Example: pressure actuation



The accident prevention regulations BGV A 2 issued by the German employer's liability insurance association for precision mechanics and electrical engineering apply to the operators of electrical systems and are aimed at the prevention of electrical accidents by means of special safety requirements.

These regulations contain specifications regarding the safety distances for work, operation, and occasional handling in the proximity of "live parts" in low-voltage systems up to 1000 V ~ or 1500 V ~.

Work with live parts is only permitted once they have been de-energized. Operational activities are only permitted in the vicinity of live parts if these parts are de-energized or are protected against direct contact (§ 6). The following safety measures are applicable when working in close proximity to live parts:

- Provision of the de-energized state for the duration of the work
- Ensure shock protection is in place in the form of covers or barriers during the work
- Assurance that proximity limits will not be violated (§ 7)

The term "occasional handling" has been introduced for the operation of elements such as pushbuttons, rocker arms or rotary buttons in the proximity of live parts.

In VDE 0105-1, this is covered by "operation with partial protection against direct contact".

Detailed specifications for "occasional handling" can be found in DIN EN 50274. This specifies to what degree live parts in the proximity of operating elements are to be protected against contact. The basis for this is the definition of a "protection area for occasional handling"; this is the area into which the user must reach in order to handle the machine.

The most important thing is that an area formed by an even envelope curve 30 mm in radius must surround the live parts. This area must be **touch proof**, i.e., the live parts of the electrical device must not be within reach of the VDE test finger in accordance with IEC 60529/ DIN VDE 0470-1 (test finger).



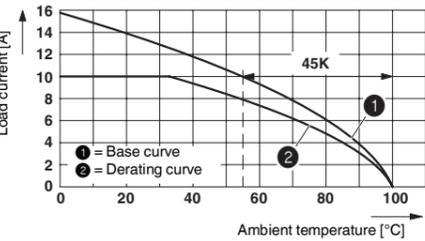
Back of hand safety is specified for the "rest of the area" up to 100 mm around the operating element. **Back of hand safety** means that when a force of 50 N is applied to a ball with a diameter of 50 mm, this does not come into contact with the live parts of the equipment. No special measures for shock protection are provided outside this area.

Note: systems and equipment that are operated with SELV up to 25 V ~ or 60 V ~ are considered to be protected against direct contact.

According to BGV A 2, there is no need to test the condition of the system prior to initial startup if the company has confirmation from the manufacturer or installer that the electrical systems and equipment conform to BGV A 2. The confirmation required relates to systems and equipment that have been installed and are ready for operation and can only be issued by the installer or installation company. The manufacturer of the electrical equipment can only issue a confirmation that products have been produced in accordance with the relevant electrotechnical regulations stipulated in BGV A 2. The installer must bear this in mind when selecting the equipment to be used.

In the field of connection technology, Phoenix Contact offers a wide range of products that are touch proof or that can be protected against contact using covers. Depending on the conditions, all of this must be taken into account when selecting the individual types of terminal block and accessories.

Base and derating curve, test setup, ambient temperature



Current carrying capacity

The technical data shows a rated current strength that does not impair functionality when the ambient temperature and corresponding conductor cross section are taken into account, or does not cause thermal damage to the product. Here, “ambient temperature” refers to the temperature measured in the immediate vicinity of the terminal block. In the application, it is necessary to consider heat sources near the terminal block (e.g., high-load resistors or similar) in particular, which affect the terminal block through radiant heat and/or heat conduction over the conductive path.

EN 60998-1 “Connecting devices for low-voltage circuits for household and similar purposes” limits the permissible heat increase of the conductive parts of terminal points to 45 K. When the upper temperature limit of the insulation material – here, always assumed to be 100°C – is taken into account, these values yield a current carrying capacity dependent on the ambient temperature: the “base curve”. Here, the current carrying capacity curve documented according to DIN EN 60512-5-2 shows a current for plug-in connectors that has been reduced by a derating factor of 0.8 from the base curve: the derating curve. For Phoenix Contact PCB terminal blocks, the base curve can be used for the current carrying capacity without the derating factor.

For the application-specific representation of the current carrying capacity of plug-in connectors, determining the derating curve based on various numbers of positions and conductor cross sections has proven itself beyond the method presented in the standard.

Tightening torque of terminal block screws

Tightening torque values have been determined in accordance with IEC 60999-1 for PCB terminal blocks and plug-in connectors with screw connection. The tightening torques provide a secure connection between the conductor and terminal block. They also take into account the stability of the soldering pin and soldering spot, the function of which must not be impaired during the clamping progress.

Anti-rotation protection

2 and 3-pos. terminal blocks in particular are often subjected to high tightening torques, which cannot be absorbed by a few solder pins. Usually these terminal blocks must be supported during conductor connection (held with one hand, housing support). If this is not possible, versions with additional anti-rotation pins are available for many terminal blocks.

Extract from IEC 60999, Table 4

The torque according to IEC and the recommended tightening torque for Phoenix Contact terminal blocks are specified.

Thread	Head screw with slot	
	Torque [Nm]	Recommended tightening torque [Nm]
M2.5 (M2.6)	0.4	0.4 - 0.5
M3	0.5	0.5 - 0.6
M3.5	0.8	0.8 - 1.0
M4	1.2	1.2 - 1.5

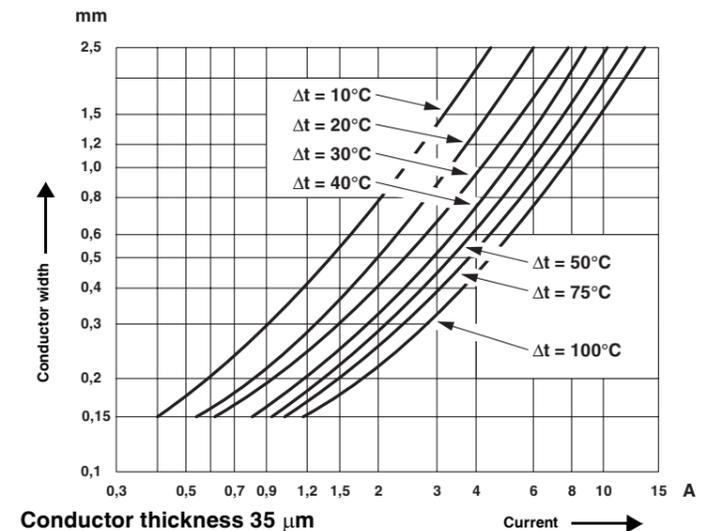
Current carrying capacity of conductive paths

The current carrying capacity of the conductive paths on the PCB is decisive for device safety and performance. The width and thickness of a conductive path depend to a large extent on the current strength, the resultant heat loss, the maximum temperature of the PCB, and the ambient temperature.

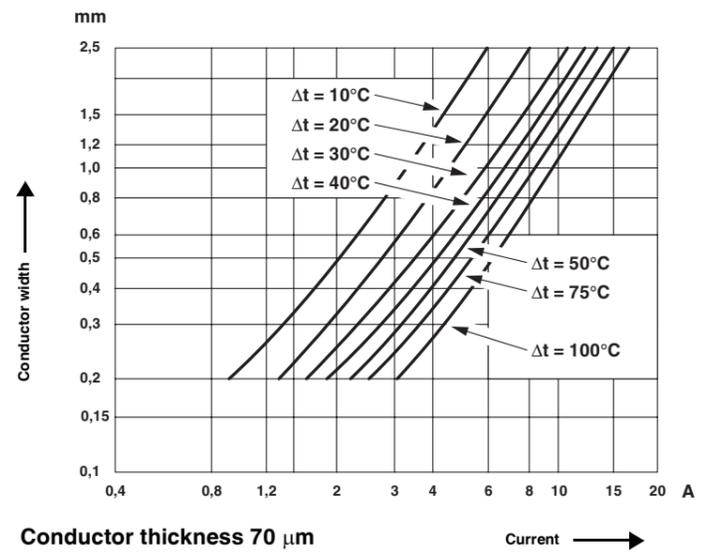
The conductive path dimensions are defined in IEC 60326-3/DIN IEC 60326-3 taking into consideration the above-mentioned factors based on current load curves. Both the conductive path width and thickness are taken into consideration in this representation. The following layer thickness values have become established for the conductive path thickness: 35 µm, 70 µm, and 105 µm, whereby 35 µm and 70 µm are recommended in industrial applications.

Regulations

- The international and national standards listed below are of particular relevance for the production of PCBs. Extracts from these standards have been included in various sections, but we recommend that you obtain copies of the standards quoted:
 - IEC 60664/IEC 60664A/DIN VDE 0110-1 – Insulation coordination for equipment within low-voltage systems; basic specifications
 - IEC 60664/IEC 60664A/VDE 0110-2 – Insulation coordination for equipment within low-voltage systems; dimensioning of air and creepage distances
 - IEC 60097/EN 60097/DIN EN 60097 – Grid systems for printed circuits
 - IEC 60249-1/EN 60249-1/DIN EN 60249-1 – Base materials for printed circuits - Part 1: Test methods (and other individual regulations)
 - IEC 60326-3/DIN IEC 60326-3 – PCBs - Part 3: Design and use of PCBs



Conductor thickness 35 µm



Conductor thickness 70 µm

Δt = Heating of the PCB as a result of the current

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	
A			AI 35 -25 RD	3200713	835	CC 2,5/8-GF-5,08-LR P26THR	1792685	299	CCDN 2,5/7-G1F-5,08 P26 THR	1753352	307	
	A 0,25-5	3202465	834	AI 50 -20 BU	3200454	835	CC 2,5/9-GF-5,08 P26THR	1954760	299	CCDN 2,5/8-G1 P26 THR	1734339	306
	A 0,25-7	3202478	834	AI 50 -25 BU	3200726	835	CC 2,5/9-GF-5,08 P26THR88	1954870	303	CCDN 2,5/8-G1-5,08 P26 THR	1753190	306
	A 0,34-7	3200221	834	AI 70 -20 YE	3201848	835	CC 2,5/9-GF-5,08-LR P26THR	1792698	299	CCDN 2,5/8-G1F P26 THR	1734504	307
	A 0,5-6	3200218	834									
A 0,5-8	3202481	834	AI 95 -25 RD	3201853	835	CC 2,5/10-GF-5,08 P26THR	1954773	299	CCDN 2,5/8-G1F-5,08 P26 THR	1753365	307	
A 0,5-10	3202494	834	AI120 -27 BU	3201822	835	CC 2,5/10-GF-5,08 P26THR88	1954883	303	CCDN 2,5/9-G1 P26 THR	1734342	306	
A 0,75-6	3200221	834	AP-ES	5022685	758	CC 2,5/10-GF-5,08-LR P26THR	1792708	299	CCDN 2,5/9-G1-5,08 P26 THR	1753200	306	
A 0,75-8	3202504	834				CC 2,5/11-GF-5,08 P26THR	1954786	299	CCDN 2,5/9-G1F P26 THR	1734517	307	
A 0,75-10	3200234	834	B-STIFT	1051993	728	CC 2,5/11-GF-5,08 P26THR88	1954896	303	CCDN 2,5/9-G1F-5,08 P26 THR	1753378	307	
A 1 -6	3200247	834	BC 107,6 DKL R KMGY	2896173	699	CC 2,5/11-GF-5,08-LR P26THR	1792711	299	CCDN 2,5/10-G1 P26 THR	1734355	306	
A 1 -8	3202517	834	BC 107,6 DKL S TRANS	2896131	699	CC 2,5/12-GF-5,08 P26THR	1954799	299	CCDN 2,5/10-G1-5,08 P26 THR	1753213	306	
A 1 -10	3200250	834	BC 107,6 OT U11 KMGY	2896076	699	CC 2,5/12-GF-5,08 P26THR88	1954906	303	CCDN 2,5/10-G1F P26 THR	1734520	307	
A 1,5-7	3200263	834	BC 107,6 OT U22 KMGY	2896089	699	CCA 2,5/2-G-5,08 RNP26THR32	1955277	303	CCDN 2,5/11-G1F-5,08 P26 THR	1753394	307	
A 1,5-10	3200276	834	BC 107,6 UT HBUS BK	2896270	699	CCA 2,5/2-G-5,08 P26THR	1954922	298	CCDN 2,5/11-G1 P26 THR	1734371	306	
A 1,5-12	3202588	834	BC 161,6 DKL R KMGY	2278539	700	CCA 2,5/3-G-5,08 P26THR32	1955044	302	CCDN 2,5/12-G1-5,08 P26 THR	1753239	306	
A 1,5-15	3202591	834	BC 161,6 DKL S TRANS	2278542	700	CCA 2,5/3-G-5,08 RNP26THR	1955170	299	CCDN 2,5/12-G1F P26 THR	1734546	307	
A 1,5-18	3202601	834	BC 161,6 OT 000020 KMGY	2201450	701	CCA 2,5/3-G-5,08 RNP26THR32	1955280	303	CCDN 2,5/12-G1F-5,08 P26 THR	1753404	307	
A 2,5-7	3200289	834	BC 161,6 OT 000022 KMGY	2201454	701	CCA 2,5/4-G-5,08 P26THR	1954935	298	CCDN 2,5/13-G1 P26 THR	1734384	306	
A 2,5-12	3200292	834	BC 161,6 OT 002000 KMGY	2201451	701	CCA 2,5/4-G-5,08 P26THR88	1955057	302	CCDN 2,5/13-G1-5,08 P26 THR	1753242	306	
A 2,5-18	3202821	834	BC 161,6 OT U11 KMGY	2278513	700	CCA 2,5/4-G-5,08 RNP26THR	1955183	299	CCDN 2,5/13-G1F P26 THR	1734559	307	
A 4 -9	3200302	834	BC 161,6 OT U22 KMGY	2278526	700	CCA 2,5/4-G-5,08 RNP26THR88	1955293	303	CCDN 2,5/13-G1F-5,08 P26 THR	1753417	307	
A 4 -12	3200315	834	BC 161,6 UT HBUS BK	2278500	700	CCA 2,5/5-G-5,08 P26THR	1954948	298	CCDN 2,5/14-G1 P26 THR	1734397	306	
A 4 -18	3202834	834	BC 17,6 BS U11 KMGY	2896186	698	CCA 2,5/5-G-5,08 P26THR88	1955060	302	CCDN 2,5/14-G1-5,08 P26 THR	1753255	306	
A 6 -10	3202520	834	BC 17,6 BS U22 KMGY	2896199	698	CCA 2,5/5-G-5,08 RNP26THR	1955196	299	CCDN 2,5/14-G1F P26 THR	1734562	307	
A 6 -12	3200328	834	BC 17,8 DKL R KMGY	2896144	698	CCA 2,5/5-G-5,08 RNP26THR88	1955303	303	CCDN 2,5/14-G1F-5,08 P26 THR	1753420	307	
A 10 -12	3200331	834	BC 17,8 DKL S TRANS	2896102	698	CCA 2,5/6-G-5,08 P26THR	1954951	298	CCDN 2,5/15-G1 P26 THR	1734407	306	
A 10 -18	3200344	834	BC 17,8 OTU MKDSO KMGY	2279732	698	CCA 2,5/6-G-5,08 P26THR88	1955073	302	CCDN 2,5/15-G1-5,08 P26 THR	1753268	306	
A 16 -12	3200425	834	BC 17,8 UT HBUS BK	2896241	698	CCA 2,5/6-G-5,08 RNP26THR	1955206	299	CCDN 2,5/15-G1F P26 THR	1734575	307	
A 25 -15	3200357	834	BC 35,6 BS U11 KMGY	2896209	698	CCA 2,5/6-G-5,08 RNP26THR88	1955316	303	CCDN 2,5/15-G1F-5,08 P26 THR	1753433	307	
A 25 -18	3200360	834	BC 35,6 BS U22 KMGY	2896212	698	CCA 2,5/7-G-5,08 P26THR	1954977	298	CCDN 2,5/16-G1 P26 THR	1734410	306	
A 25 -18	3200373	834	BC 35,6 DKL R KMGY	2896157	698	CCA 2,5/7-G-5,08 P26THR88	1955086	302	CCDN 2,5/16-G1-5,08 P26 THR	1753271	306	
A 25 -20	3200386	834	BC 35,6 DKL S TRANS	2896115	698	CCA 2,5/7-G-5,08 RNP26THR	1955219	299	CCDN 2,5/16-G1F P26 THR	1734588	307	
A 35 -18	3200399	834	BC 35,6 OT U11 KMGY	2896034	698	CCA 2,5/7-G-5,08 RNP26THR88	1955329	303	CCDN 2,5/16-G1F-5,08 P26 THR	1753446	307	
A 35 -20	3200409	834	BC 35,6 OT U22 KMGY	2896047	698	CCA 2,5/8-G-5,08 P26THR	1954980	298	CCV 2,5/2-GF-5,08 P26THR	1955633	305	
AI 0,25-6 YE	3200324	835	BC 35,6 UT HBUS BK	2896254	698	CCA 2,5/8-G-5,08 P26THR88	1955099	302	CCV 2,5/2-GF-5,08-LR P26THR32	1955743	305	
AI 0,25-8 YE	3200307	835	BC 53,6 BS U11 KMGY	2896225	699	CCA 2,5/8-G-5,08 RNP26THR	1955222	299	CCV 2,5/2-GF-5,08-LR P26THR	1952737	301	
AI 0,5-6 WH	3200687	835	BC 53,6 BS U22 KMGY	2896238	699	CCA 2,5/8-G-5,08 RNP26THR88	1955332	303	CCV 2,5/3-GF-5,08 P26THR	1955646	301	
AI 0,5-8 WH	3200014	835	BC 53,6 DKL R KMGY	2896432	699	CCA 2,5/9-G-5,08 P26THR	1954993	298	CCV 2,5/3-GF-5,08 P26THR88	1955756	305	
AI 0,5-8 WH-1000	3200881	835	BC 53,6 DKL S TRANS	2896445	699	CCA 2,5/9-G-5,08 P26THR88	1955109	302	CCV 2,5/3-GF-5,08-LR P26THR	1792740	301	
AI 0,5-10 WH	3201275	835	BC 53,6 OT U11 KMGY	2896416	699	CCA 2,5/9-G-5,08 RNP26THR	1955235	299	CCV 2,5/4-GF-5,08 P26THR	1955659	301	
AI 0,5-12 WH	3200506	835	BC 53,6 OT U22 KMGY	2896429	699	CCA 2,5/9-G-5,08 RNP26THR88	1955345	303	CCV 2,5/4-GF-5,08 P26THR88	1955769	305	
AI 0,75-6 GY	3200690	835	BC 53,6 UT HBUS BK	2896403	699	CCA 2,5/10-G-5,08 P26THR	1955002	298	CCV 2,5/4-GF-5,08-LR P26THR	1792753	301	
AI 0,75-8 GY	3200519	835	BC 71,6 DKL R KMGY	2896160	699	CCA 2,5/10-G-5,08 P26THR88	1955112	302	CCV 2,5/5-GF-5,08 P26THR	1955662	301	
AI 0,75-8 GY-1000	3200894	835	BC 71,6 DKL S TRANS	2896128	699	CCA 2,5/10-G-5,08 RNP26THR	1955248	299	CCV 2,5/5-GF-5,08 P26THR88	1955772	305	
AI 0,75-10 GY	3201288	835	BC 71,6 OT U11 KMGY	2896050	699	CCA 2,5/10-G-5,08 RNP26THR88	1955358	303	CCV 2,5/5-GF-5,08-LR P26THR	1792766	301	
AI 0,75-12 GY	3200849	835	BC 71,6 OT U22 KMGY	2896063	699	CCA 2,5/11-G-5,08 P26THR	1955015	298	CCV 2,5/6-GF-5,08 P26THR	1955675	301	
AI 1 -6 RD	3200742	835	BC 71,6 UT HBUS BK	2896267	699	CCA 2,5/11-G-5,08 P26THR88	1955125	302	CCV 2,5/6-GF-5,08-LR P26THR	1955785	305	
AI 1 -8 RD	3200030	835	BL2-2,54/16-ST	2896335	698	CCA 2,5/11-G-5,08 RNP26THR	1955251	299	CCV 2,5/6-GF-5,08-LR P26THR	1792779	301	
AI 1 -8 RD-1000	3200904	835	BMKLT 14X12 WH	0813789	685	CCA 2,5/11-G-5,08 RNP26THR88	1955361	303	CCV 2,5/7-GF-5,08 P26THR	1955688	301	
AI 1 -10 RD	3200182	835	BMKLT 19X12 WH	0813792	686	CCA 2,5/12-G-5,08 P26THR	1955028	298	CCV 2,5/7-GF-5,08 P26THR88	1955798	305	
AI 1 -12 RD	3200674	835	BMKLT 31,5X12 WH	0813802	687	CCA 2,5/12-G-5,08 P26THR88	1955138	302	CCV 2,5/7-GF-5,08-LR P26THR	1792782	301	
AI 1,5-6 BK	3200755	835	BMKLT 41,5X12 WH	0813815	688	CCA 2,5/12-G-5,08 RNP26THR	1955264	299	CCV 2,5/8-GF-5,08 P26THR	1955691	301	
AI 1,5-8 BK	3200043	835				CCA 2,5/12-G-5,08 RNP26THR88	1955374	303	CCV 2,5/8-GF-5,08 P26THR88	1955808	305	
AI 1,5-8 BK-1000	3200917	835				CCDN 2,5/2-G1 P26 THR	1734280	306	CCV 2,5/8-GF-5,08-LR P26THR	1792795	301	
AI 1,5-10 BK	3200195	835				CCDN 2,5/2-G1-5,08 P26 THR	1753132	306	CCV 2,5/9-GF-5,08 P26THR	1955701	301	
AI 1,5-12 BK	3201482	835				CCDN 2,5/2-G1F P26 THR	1734449	307	CCV 2,5/9-GF-5,08 P26THR88	1955811	305	
AI 1,5-18 BK	3200056	835	CC 2,5/2-GF-5,08 P26THR	1954692	299	CCDN 2,5/2-G1F-5,08 P26 THR	1753307	307	CCV 2,5/9-GF-5,08-LR P26THR	1792805	301	
AI 2,5-8 BU	3200522	835	CC 2,5/2-GF-5,08 P26THR88	1954809	303	CCDN 2,5/3-G1 P26 THR	1734287	306	CCV 2,5/10-GF-5,08 P26THR	1955714	301	
AI 2,5-8 BU-1000	3200920	835	CC 2,5/2-GF-5,08-LR P26THR	1792627	299	CCDN 2,5/3-G1-5,08 P26 THR	1753145	306	CCV 2,5/10-GF-5,08-LR P26THR	1955824	305	
AI 2,5-10 BU	3202533	835	CC 2,5/3-GF-5,08 P26THR	1954702	299	CCDN 2,5/3-G1F P26 THR	1734452	307	CCV 2,5/10-GF-5,08-LR P26THR	1792818	301	
AI 2,5-12 BU	3200962	835	CC 2,5/3-GF-5,08 P26THR88	1954812	303	CCDN 2,5/3-G1F-5,08 P26 THR	1753310	307	CCV 2,5/11-GF-5,08 P26THR	1955727	301	
AI 2,5-18 BU	3200580	835	CC 2,5/3-GF-5,08-LR P26THR	1792630	299	CCDN 2,5/4-G1 P26 THR	1734290	306	CCV 2,5/11-GF-5,08 P26THR88	1955837	305	
AI 4 -10 GY	3200535	835	CC 2,5/4-GF-5,08 P26THR	1954715	299	CCDN 2,5/4-G1-5,08 P26 THR	1753158	306	CCV 2,5/11-GF-5,08-LR P26THR	1792821	301	
AI 4 -12 GY	3200959	835	CC 2,5/4-GF-5,08 P26THR88	1954825	303	CCDN 2,5/4-G1F P26 THR	1734465	307	CCV 2,5/12-GF-5,08 P26THR	1955730	301	
AI 4 -18 GY	3200593	835	CC 2,5/4-GF-5,08-LR P26THR	1792643	299	CCDN 2,5/4-G1F-5,08 P26 THR	1753323	307	CCV 2,5/12-GF-5,08 P26THR88	1955840	305	
AI 6 -12 YE	3200548	835	CC 2,5/5-GF-5,08 P26THR	1954728	299	CCDN 2,5/5-G1 P26 THR	1734300	306	CCV 2,5/12-GF-5,08-LR P26THR	1792834	301	
AI 6 -18 YE	3200603	835	CC 2,5/5-GF-5,08 P26THR88	1954838	303	CCDN 2,5/5-G1-5,08 P26 THR	1753161	306	CCV 2,5/12-GF-5,08-LR P26THR	1955853	300	
AI 10 -12 RD	3200551	835	CC 2,5/5-GF-5,08-LR P26THR	1792656	299	CCDN 2,5/5-G1F P26 THR	1734478	307	CCV 2,5/12-GF-5,08-LR P26THR	1955963	304	
AI 10 -18 RD	3200616	835	CC 2,5/6-GF-5,08 P26THR	1954731	299	CCDN 2,5/5-G1F-5,08 P26 THR	1753336	307	CCV 2,5/12-GF-5,08-LR P26THR	195580		

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
DFK-MSTBVA 2,5/ 9-G-5,08	1899207	355	DFK-PC 5/ 4-G-7,62	1727605	544	DFK-PC 5/12-STF-SH-7,62	1716823	549	DFK-PCV 6-16/ 6-GF-10,16	1702293	577
DFK-MSTBVA 2,5/ 9-GF-5,08	1899359	355	DFK-PC 5/ 4-GF-7,62	1727715	545	DFK-PC 6-16/ 2-G-10,16	1701456	574	DFK-PCV 6-16/ 7-G-10,16	1702141	577
DFK-MSTBVA 2,5/10-G-5,08	1899210	355	DFK-PC 5/ 4-GF-SH-7,62	1716085	546	DFK-PC 6-16/ 2-GF-10,16	1701537	575	DFK-PCV 6-16/ 7-GF-10,16	1702303	577
DFK-MSTBVA 2,5/10-GF-5,08	1899362	355	DFK-PC 5/ 4-GF-SH-7,62	1727935	545	DFK-PC 6-16/ 2-GF-SH-10,16	1701935	576	DFK-PCV 6-16/ 8-G-10,16	1702154	577
DFK-MSTBVA 2,5/11-G-5,08	1899223	355	DFK-PC 5/ 4-GFU-SH-7,62	1716195	547	DFK-PC 6-16/ 2-GFU-10,16	1701692	575	DFK-PCV 6-16/ 8-GF-10,16	1702316	577
DFK-MSTBVA 2,5/11-GF-5,08	1899375	355	DFK-PC 5/ 4-GU-7,62	1727825	545	DFK-PC 6-16/ 2-GFU-SH-10,16	1702015	577	DFK-PCV 6-16/ 9-G-10,16	1702167	577
DFK-MSTBVA 2,5/12-G-5,08	1899236	355	DFK-PC 5/ 4-ST-7,62	1716522	548	DFK-PC 6-16/ 2-GU-10,16	1701618	575	DFK-PCV 6-16/ 9-GF-10,16	1702329	577
DFK-MSTBVA 2,5/12-GF-5,08	1899388	355	DFK-PC 5/ 4-STF-7,62	1716632	549	DFK-PC 6-16/ 3-GU-10,16	1701469	574	DFK-DP-4	0706616	639
DFK-MSTBVA 2,5/13-G-5,08	1899249	355	DFK-PC 5/ 4-STF-SH-7,62	1716742	549	DFK-PC 6-16/ 3-GF-10,16	1701540	575	DFMC 1,5/ 2-ST-3,5	1790108	184
DFK-MSTBVA 2,5/13-GF-5,08	1899391	355	DFK-PC 5/ 5-G-7,62	1727618	544	DFK-PC 6-16/ 3-GF-SH-10,16	1701948	576	DFMC 1,5/ 2-ST-3,5-LR	1790483	185
DFK-MSTBVA 2,5/14-G-5,08	1899252	355	DFK-PC 5/ 5-GF-7,62	1727728	545	DFK-PC 6-16/ 3-GFU-10,16	1701702	575	DFMC 1,5/ 2-STF-3,5	1790292	185
DFK-MSTBVA 2,5/14-GF-5,08	1899401	355	DFK-PC 5/ 5-GF-SH-7,62	1716098	546	DFK-PC 6-16/ 3-GFU-SH-10,16	1702028	577	DFMC 1,5/ 3-ST-3,5	1790111	184
DFK-MSTBVA 2,5/15-G-5,08	1899265	355	DFK-PC 5/ 5-GFU-7,62	1727948	545	DFK-PC 6-16/ 3-GU-10,16	1701621	575	DFMC 1,5/ 3-ST-3,5-LR	1790496	185
DFK-MSTBVA 2,5/15-GF-5,08	1899414	355	DFK-PC 5/ 5-GFU-SH-7,62	1716205	547	DFK-PC 6-16/ 4-G-10,16	1701472	574	DFMC 1,5/ 5-ST-3,5	1790302	185
DFK-MSTBVA 2,5/16-G-5,08	1899278	355	DFK-PC 5/ 5-GU-7,62	1727838	545	DFK-PC 6-16/ 4-GF-10,16	1701553	575	DFMC 1,5/ 4-ST-3,5	1790124	184
DFK-MSTBVA 2,5/16-GF-5,08	1899427	355	DFK-PC 5/ 5-ST-7,62	1716535	548	DFK-PC 6-16/ 4-GF-SH-10,16	1701951	576	DFMC 1,5/ 4-ST-3,5-LR	1790506	185
DFK-PC 16/ 2-ST-10,16	1703373	582	DFK-PC 5/ 5-STF-7,62	1716645	549	DFK-PC 6-16/ 4-GFU-10,16	1701715	575	DFMC 1,5/ 4-STF-3,5	1790315	185
DFK-PC 16/ 2-STF-10,16	1703454	583	DFK-PC 5/ 5-STF-SH-7,62	1716755	549	DFK-PC 6-16/ 4-GFU-SH-10,16	1702031	577	DFMC 1,5/ 5-ST-3,5	1790137	184
DFK-PC 16/ 2-STF-SH-10,16	1703616	583	DFK-PC 5/ 6-G-7,62	1727621	544	DFK-PC 6-16/ 4-GU-10,16	1701634	575	DFMC 1,5/ 5-ST-3,5-LR	1790519	185
DFK-PC 16/ 3-ST-10,16	1703386	582	DFK-PC 5/ 6-GF-7,62	1727731	545	DFK-PC 6-16/ 4-GU-10,16	1701485	574	DFMC 1,5/ 5-STF-3,5	1790328	185
DFK-PC 16/ 3-STF-10,16	1703467	583	DFK-PC 5/ 6-GF-SH-7,62	1716108	546	DFK-PC 6-16/ 5-GF-10,16	1701566	575	DFMC 1,5/ 6-ST-3,5	1790140	184
DFK-PC 16/ 3-STF-SH-10,16	1703629	583	DFK-PC 5/ 6-GFU-7,62	1727951	545	DFK-PC 6-16/ 5-GF-SH-10,16	1701964	576	DFMC 1,5/ 6-ST-3,5-LR	1790522	185
DFK-PC 16/ 4-ST-10,16	1703399	582	DFK-PC 5/ 6-GFU-SH-7,62	1716218	547	DFK-PC 6-16/ 5-GFU-10,16	1701728	575	DFMC 1,5/ 6-STF-3,5	1790331	185
DFK-PC 16/ 4-STF-10,16	1703470	583	DFK-PC 5/ 6-GU-7,62	1727841	545	DFK-PC 6-16/ 5-GFU-SH-10,16	1702044	577	DFMC 1,5/ 7-ST-3,5	1790153	184
DFK-PC 16/ 4-STF-SH-10,16	1703632	583	DFK-PC 5/ 6-ST-7,62	1716548	548	DFK-PC 6-16/ 5-GU-10,16	1701647	575	DFMC 1,5/ 7-ST-3,5-LR	1790535	185
DFK-PC 16/ 5-ST-10,16	1703409	582	DFK-PC 5/ 6-STF-7,62	1716658	549	DFK-PC 6-16/ 6-G-10,16	1701498	574	DFMC 1,5/ 7-STF-3,5	1790344	184
DFK-PC 16/ 5-STF-10,16	1703483	583	DFK-PC 5/ 6-STF-SH-7,62	1716768	549	DFK-PC 6-16/ 6-GF-10,16	1701579	575	DFMC 1,5/ 8-ST-3,5	1790166	184
DFK-PC 16/ 5-STF-SH-10,16	1703645	583	DFK-PC 5/ 7-G-7,62	1727634	544	DFK-PC 6-16/ 6-GF-SH-10,16	1701977	576	DFMC 1,5/ 8-ST-3,5-LR	1790548	185
DFK-PC 16/ 6-ST-10,16	1703412	582	DFK-PC 5/ 7-GF-7,62	1727744	545	DFK-PC 6-16/ 6-GFU-10,16	1701731	575	DFMC 1,5/ 8-STF-3,5	1790357	184
DFK-PC 16/ 6-STF-10,16	1703496	583	DFK-PC 5/ 7-GF-SH-7,62	1716111	546	DFK-PC 6-16/ 6-GFU-SH-10,16	1702057	577	DFMC 1,5/ 9-ST-3,5	1790179	185
DFK-PC 16/ 6-STF-SH-10,16	1703658	583	DFK-PC 5/ 7-GFU-7,62	1727964	545	DFK-PC 6-16/ 6-GU-10,16	1701650	575	DFMC 1,5/ 9-ST-3,5-LR	1790551	185
DFK-PC 16/ 7-ST-10,16	1703425	582	DFK-PC 5/ 7-GFU-SH-7,62	1716221	547	DFK-PC 6-16/ 7-G-10,16	1701508	574	DFMC 1,5/ 9-STF-3,5	1790360	184
DFK-PC 16/ 7-STF-10,16	1703506	583	DFK-PC 5/ 7-GU-7,62	1727854	548	DFK-PC 6-16/ 7-GF-10,16	1701582	575	DFMC 1,5/ 10-ST-3,5	1790182	184
DFK-PC 16/ 7-STF-SH-10,16	1703661	583	DFK-PC 5/ 7-ST-7,62	1716551	548	DFK-PC 6-16/ 7-GF-SH-10,16	1701980	576	DFMC 1,5/ 10-ST-3,5-LR	1790564	185
DFK-PC 16/ 8-ST-10,16	1703438	582	DFK-PC 5/ 7-STF-7,62	1716661	549	DFK-PC 6-16/ 7-GFU-10,16	1701744	575	DFMC 1,5/ 10-STF-3,5	1790373	184
DFK-PC 16/ 8-STF-10,16	1703519	583	DFK-PC 5/ 7-STF-SH-7,62	1716771	549	DFK-PC 6-16/ 7-GFU-SH-10,16	1702060	577	DFMC 1,5/ 11-ST-3,5	1790195	184
DFK-PC 16/ 8-STF-SH-10,16	1703674	583	DFK-PC 5/ 8-G-7,62	1727647	544	DFK-PC 6-16/ 7-GU-10,16	1701663	575	DFMC 1,5/ 11-ST-3,5-LR	1790577	185
DFK-PC 16/ 9-ST-10,16	1703441	582	DFK-PC 5/ 8-GF-7,62	1727757	545	DFK-PC 6-16/ 8-G-10,16	1701511	574	DFMC 1,5/ 11-STF-3,5	1790386	185
DFK-PC 16/ 9-STF-10,16	1703522	583	DFK-PC 5/ 8-GF-SH-7,62	1716124	546	DFK-PC 6-16/ 8-GF-10,16	1701595	575	DFMC 1,5/ 12-ST-3,5	1790205	184
DFK-PC 16/ 9-STF-SH-10,16	1703687	583	DFK-PC 5/ 8-GFU-7,62	1727977	545	DFK-PC 6-16/ 8-GF-SH-10,16	1701993	576	DFMC 1,5/ 12-ST-3,5-LR	1790580	185
DFK-PC 4/ 2-G-7,62-FS4,8	1861154	519	DFK-PC 5/ 8-GFU-SH-7,62	1716234	547	DFK-PC 6-16/ 8-GFU-10,16	1701757	575	DFMC 1,5/ 12-STF-3,5	1790399	185
DFK-PC 4/ 2-GF-7,62	1840557	518	DFK-PC 5/ 8-GU-7,62	1727867	545	DFK-PC 6-16/ 8-GFU-SH-10,16	1702073	577	DFMC 1,5/ 13-ST-3,5	1790218	184
DFK-PC 4/ 3-G-7,62-FS4,8	1861167	519	DFK-PC 5/ 8-ST-7,62	1716564	548	DFK-PC 6-16/ 8-GU-10,16	1701676	575	DFMC 1,5/ 13-ST-3,5-LR	1790593	185
DFK-PC 4/ 3-GF-7,62	1840560	518	DFK-PC 5/ 8-STF-7,62	1716674	549	DFK-PC 6-16/ 9-G-10,16	1701524	574	DFMC 1,5/ 13-STF-3,5	1790409	185
DFK-PC 4/ 4-G-7,62-FS4,8	1861170	519	DFK-PC 5/ 8-STF-SH-7,62	1716784	549	DFK-PC 6-16/ 9-GF-10,16	1701605	575	DFMC 1,5/ 14-ST-3,5	1790221	184
DFK-PC 4/ 4-GF-7,62	1840573	518	DFK-PC 5/ 9-G-7,62	1727650	548	DFK-PC 6-16/ 9-GF-SH-10,16	1702002	576	DFMC 1,5/ 14-ST-3,5-LR	1790603	185
DFK-PC 4/ 5-G-7,62-FS4,8	1861183	519	DFK-PC 5/ 9-GF-7,62	1727760	545	DFK-PC 6-16/ 9-GFU-10,16	1701760	575	DFMC 1,5/ 14-STF-3,5	1790412	185
DFK-PC 4/ 5-GF-7,62	1840586	518	DFK-PC 5/ 9-GF-SH-7,62	1716137	546	DFK-PC 6-16/ 9-GFU-SH-10,16	1702086	577	DFMC 1,5/ 15-ST-3,5	1790234	184
DFK-PC 4/ 6-G-7,62-FS4,8	1861196	519	DFK-PC 5/ 9-GFU-7,62	1727980	545	DFK-PC 6-16/ 9-GU-10,16	1701689	575	DFMC 1,5/ 15-ST-3,5-LR	1790616	185
DFK-PC 4/ 6-GF-7,62	1840599	518	DFK-PC 5/ 9-GFU-SH-7,62	1716247	547	DFK-PCV 5/ 2-G-7,62	1716289	547	DFMC 1,5/ 15-STF-3,5	1790425	185
DFK-PC 4/ 7-G-7,62-FS4,8	1861206	519	DFK-PC 5/ 9-GU-7,62	1727870	545	DFK-PCV 5/ 2-GF-7,62	1716399	547	DFMC 1,5/ 16-ST-3,5	1790247	184
DFK-PC 4/ 7-GF-7,62	1840609	518	DFK-PC 5/ 9-ST-7,62	1716577	548	DFK-PCV 5/ 3-G-7,62	1716292	547	DFMC 1,5/ 16-ST-3,5-LR	1790629	185
DFK-PC 4/ 8-G-7,62-FS4,8	1861219	519	DFK-PC 5/ 9-STF-7,62	1716687	549	DFK-PCV 5/ 3-GF-7,62	1716409	547	DFMC 1,5/ 16-STF-3,5	1790438	185
DFK-PC 4/ 8-GF-7,62	1840612	518	DFK-PC 5/ 9-STF-SH-7,62	1716797	549	DFK-PCV 5/ 4-G-7,62	1716302	547	DMC 1,5/ 2-G1-3,5 P20THR	1786837	186
DFK-PC 4/ 9-G-7,62-FS4,8	1861222	519	DFK-PC 5/ 10-G-7,62	1727663	548	DFK-PCV 5/ 4-GF-7,62	1716412	547	DMC 1,5/ 2-G1-3,5-LR P20THR R24-1	1816137	186
DFK-PC 4/ 9-GF-7,62	1840625	518	DFK-PC 5/ 10-GF-7,62	1727773	545	DFK-PCV 5/ 5-G-7,62	1716315	547	DMC 1,5/ 2-G1F-3,5-LR P20THR	1787014	187
DFK-PC 4/ 10-G-7,62-FS4,8	1861235	519	DFK-PC 5/ 10-GF-SH-7,62	1716140	546	DFK-PCV 5/ 5-GF-7,62	1716425	547	DMC 1,5/ 2-G1F-3,5-LRP20THRR44	1818504	189
DFK-PC 4/ 10-GF-7,62	1840638	518	DFK-PC 5/ 10-GFU-7,62	1727993	545	DFK-PCV 5/ 6-G-7,62	1716328	547	DMC 1,5/ 3-G1-3,5 P20THR	1786840	186
DFK-PC 4/ 11-G-7,62-FS4,8	1861248	519	DFK-PC 5/ 10-GFU-SH-7,62	1716250	547	DFK-PCV 5/ 6-GF-7,62	1716438	547	DMC 1,5/ 3-G1-3,5 P20THR R24-2	1816140	188
DFK-PC 4/ 11-GF-7,62	1840641	518	DFK-PC 5/ 10-GU-7,62	1727883	545	DFK-PCV 5/ 7-G-7,62	1716331	547	DMC 1,5/ 3-G1F-3,5-LR P20THR	1787027	187
DFK-PC 4/ 12-G-7,62-FS4,8	1861251	519	DFK-PC 5/ 10-ST-7,62	1716580	548	DFK-PCV 5/ 7-GF-7,62	1716441	547	DMC 1,5/ 3-G1F-3,5-LRP20THRR44	1818517	189
DFK-PC 4/ 12-GF-7,62	1840654	518	DFK-PC 5/ 10-STF-7,62	1716690	549	DFK-PCV 5/ 8-G-7,62	1716344	547	DMC 1,5/ 4-G1-3,5 P20THR	1786853	186
DFK-PC 5/ 2-G-7,62	1727582	544	DFK-PC 5/ 10-STF-SH-7,62	1716807	549	DFK-PCV 5/ 8-GF-7,62	1716454	547	DMC 1,5/ 4-G1-3,5 P20THR R44	1816153	188
DFK-PC 5/ 2-GF-7,62	1727692	545	DFK-PC 5/ 11-G-7,62	1727676	548	DFK-PCV 5/ 9-G-7,62	1716357	547	DMC 1,5/ 4-G1F-3,5-LR P20THR		

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
EMG 45-H 7,5MM KLAR	2946214	712	EML (20X8)R	0816786	808	EML-ESD (8X8)RL-T	0830576	813	EMLS (26,5X12)R SR	0800353	816
EMG 45-H 15MM KLAR	2946227	712	EML (20X8)R YE	0816799	809	EML-HT (15X15)R	0800341	810	EMLS (26,5X12)R SR CUS	0830179	817
EMG 45-H 35MM KLAR	2942140	712	EML (21,5X21,5)R SR	0816812	809	EML-HT (15X15)R CUS	0830170	811	EMLS (38,1X19)R SR	0800354	816
EMG 45-H 52MM GN	2946230	712	EML (25,4X12,7)R	0816825	808	EML-HT (15X15)RL-T	0830653	811	EMLS (38,1X19)R SR CUS	0830180	817
EMG 45-LG	2946191	712	EML (25,4X12,7)R YE	0816838	809	EML-HT (15X6)R	0830644	810	EMLS (40X15)R SR	0800345	816
EMG 45-LG/O	2942315	712	EML (26,5X12)R SR	0816854	809	EML-HT (15X6)R CUS	0830663	811	EMLS (40X15)R SR CUS	0830173	817
EMG 45-LG/SET	2940032	712	EML (26,5X17,5)R SR	0816883	809	EML-HT (15X6)RL-T	0830652	811	EMLS (40X8)R SR	0800348	816
EMG 45-ZE	2941811	712	EML (26,5X17,5)R YE	0816896	809	EML-HT (20X7)R	0830645	810	EMLS (40X8)R SR CUS	0830176	817
EMG 50-B9	2947268	713	EML (26,5X18,5)R SR	0816906	809	EML-HT (20X7)R CUS	0830664	811	EMLS (60X30)R SR	0800355	816
EMG 50-H 7,5MM KLAR	2947925	713	EML (26,5X26,5)R SR	0816919	809	EML-HT (20X7)RL-T	0830654	811	EMLS (60X30)R SR CUS	0830181	817
EMG 50-H 15MM KLAR	2947938	713	EML (26,5X7,5)R SR	0816841	809	EML-HT (24X4)R	0830646	810	EMLS (70X150)R SR	0800351	816
EMG 50-H 52MM GN	2947941	713	EML (30X20)R	0816922	808	EML-HT (24X4)R CUS	0830665	811	EMLS (70X150)R SR CUS	0830178	817
EMG 50-LG	2947242	713	EML (30X20)R YE	0816935	809	EML-HT (24X4)RL-T	0830655	811	EMLS (70X32)R SR	0800346	816
EMG 50-LG/O	2940870	713	EML (37XE)RL TR	0815716	808	EML-HT (25,4X12,7)R	0830648	810	EMLS (70X32)R SR CUS	0830174	817
EMG 50-LG/SET	2940045	713	EML (38,1X19)RL	0816171	808	EML-HT (25,4X12,7)R CUS	0830667	811	EMLS (76X51)R SR	0800350	816
EMG 75-B14	2947381	713	EML (38X17)R	0816951	808	EML-HT (25,4X12,7)RL-T	0830657	811	EMLS (76X51)R SR CUS	0830177	817
EMG 75-H 7,5MM KLAR	2947954	713	EML (40X15)R SR	0815729	809	EML-HT (25X8)R	0830647	810	EMLS (85X32)R SR	0800356	816
EMG 75-H 15MM KLAR	2947967	713	EML (40X25)R	0818027	808	EML-HT (25X8)R CUS	0830666	811	EMLS (85X32)R SR CUS	0830182	817
EMG 75-H 52MM GN	2947970	713	EML (40X25)R YE	0816977	809	EML-HT (25X8)RL-T	0830656	811	EMSTB 2,5-SH	1877203	826
EMG 75-LG	2947378	713	EML (40X8)R	0816980	808	EML-HT (25X10)R	0830649	810	EMSTB 2,5/2-GF	1900773	311
EMG 75-LG/O	2941879	713	EML (50,8X25,4)RL	0816184	808	EML-HT (32X10)R CUS	0830668	811	EMSTB 2,5/2-GF-5,08	1899618	311
EMG 75-LG/SET	2940058	713	EML (51X25)R	0817028	808	EML-HT (32X10)RL-T	0830658	811	EMSTB 2,5/3-GF	1900086	311
EMG 90-B17	2946269	713	EML (51X25)R SR	0817002	809	EML-HT (35X6,5)R	0830650	810	EMSTB 2,5/3-GF-5,08	1899621	311
EMG 90-H 7,5MM KLAR	2945396	713	EML (51X25)R YE	0817031	809	EML-HT (35X6,5)R CUS	0830669	811	EMSTB 2,5/4-GF	1900099	311
EMG 90-H 15MM KLAR	2945406	713	EML (69,8X31,8)RL	0816197	808	EML-HT (35X6,5)RL-T	0830659	811	EMSTB 2,5/4-GF-5,08	1899634	311
EMG 90-H 52MM GN	2944300	713	EML (70X32)R	0817060	808	EML-HT (40X15)R	0800339	810	EMSTB 2,5/5-GF	1900109	311
EMG 90-LG	2946256	713	EML (70X32)R SR	0817057	809	EML-HT (40X15)R CUS	0830168	811	EMSTB 2,5/5-GF-5,08	1899647	311
EMG 90-LG/O	2941581	713	EML (70X32)R YE	0817073	809	EML-HT (40X15)RL-T	0830660	811	EMSTB 2,5/6-GF	1900112	311
EMG 90-LG/SET	2907884	713	EML (70X50)R	0817099	808	EML-HT (45X5)R	0800337	810	EMSTB 2,5/6-GF-5,08	1899650	311
EMG 90-ZE	2941824	713	EML (70X50)R SR	0817086	809	EML-HT (45X5)R CUS	0830166	811	EMSTB 2,5/7-GF	1900125	311
EMG-GKS 12	2947035	709	EML (76,2X6,5)RL YE	0816207	809	EML-HT (45X5)RL-T	0830661	811	EMSTB 2,5/7-GF-5,08	1899663	311
EMG-GKS 22	2941594	710	EML (90X5)R	0817109	808	EML-HT (50X10)R	0800338	810	EMSTB 2,5/8-GF	1900138	311
EMG-KA	2941510	708	EML (D17,5)R	0815774	808	EML-HT (50X10)R CUS	0830167	811	EMSTB 2,5/8-GF-5,08	1899676	311
EMG-SGKS 10	2947585	708	EML (100X40)R	0800286	808	EML-HT (50X10)RL-T	0830662	811	EMSTB 2,5/9-GF	1900141	311
EMG100-B19	2947093	714	EML (100X40)R SR	0802697	809	EML-HT (8X8)R	0800340	810	EMSTB 2,5/9-GF-5,08	1899689	311
EMG100-H 7,5MM KLAR	2944193	714	EML (15X6) R YE	0819288	809	EML-HT (8X8)R CUS	0830169	811	EMSTB 2,5/10-GF	1900154	311
EMG100-H 15MM KLAR	2943152	714	EML (18X7)RL YE	0802733	809	EML-HT (8X8)RL-T	0830651	811	EMSTB 2,5/10-GF-5,08	1899692	311
EMG100-H 35MM KLAR	2942218	714	EML (25,4X12,7)R	0816087	808	EML-HT (D12)R	0801376	810	EMSTB 2,5/11-GF	1900167	311
EMG100-H 52MM GN	2944724	714	EML (29X29)R-ME	0828172	674	EML-RM (15X15)R	0830530	814	EMSTB 2,5/11-GF-5,08	1899702	311
EMG100-LG	2947080	714	EML (44X42)R-ME	0828279	674	EML-RM (15X15)R CUS	0830554	815	EMSTB 2,5/12-GF	1900170	311
EMG100-LG/MSTB	2907570	714	EML (44X49)R-ME	0828169	674	EML-RM (15X15)RL-T	0830542	815	EMSTB 2,5/12-GF-5,08	1899715	311
EMG100-LG/O	2907567	714	EML (44X53)R-ME	0828156	674	EML-RM (15X6)R	0830529	814	EMSTB 2,5/13-GF	1900183	311
EMG100-LG/SET	2906283	714	EML (44X64)R-ME	0828266	674	EML-RM (15X6)R CUS	0830553	815	EMSTB 2,5/13-GF-5,08	1899728	311
EMG125-B24	2947996	715	EML (44X72)R-ME	0828143	674	EML-RM (15X6)RL-T	0830541	815	EMSTB 2,5/14-GF	1900196	311
EMG125-H 7,5MM KLAR	2943194	715	EML (44X76)R-ME	0828130	674	EML-RM (20X7)R	0830531	814	EMSTB 2,5/14-GF-5,08	1899731	311
EMG125-H 15MM KLAR	2943181	715	EML-ESD (15X15)R	0830566	812	EML-RM (20X7)R CUS	0830555	815	EMSTB 2,5/15-GF	1900206	311
EMG125-H 52MM GN	2943518	715	EML-ESD (15X15)R CUS	0830590	813	EML-RM (20X7)RL-T	0830543	815	EMSTB 2,5/15-GF-5,08	1899744	311
EMG125-LG	2947983	715	EML-ESD (15X15)RL-T	0830578	812	EML-RM (24X4)R	0830532	814	EMSTB 2,5/16-GF	1900219	311
EMG125-LG/MSTB	2943288	715	EML-ESD (15X6)R	0830565	813	EML-RM (24X4)R CUS	0830556	815	EMSTB 2,5/16-GF-5,08	1899757	311
EMG150-B29	2946036	715	EML-ESD (15X6)R CUS	0830589	813	EML-RM (25,4X12,7)R	0830544	815	EMSTBA 2,5/2-G	1899841	310
EMG150-H 7,5MM KLAR	2943178	715	EML-ESD (15X6)RL-T	0830577	813	EML-RM (25,4X12,7)R	0830534	814	EMSTBA 2,5/2-G-5,08	1880300	310
EMG150-H 15MM KLAR	2943165	715	EML-ESD (20X7)R	0830567	812	EML-RM (25,4X12,7)R CUS	0830558	815	EMSTBA 2,5/3-G	1899854	310
EMG150-H 52MM GN	2943521	715	EML-ESD (20X7)R CUS	0830591	813	EML-RM (25,4X12,7)RL-T	0830546	815	EMSTBA 2,5/3-G-5,08	1880313	310
EMG150-LG	2946023	715	EML-ESD (20X7)RL-T	0830579	813	EML-RM (25X8)R	0830533	814	EMSTBA 2,5/4-G	1899867	310
EMG150-LG/MSTB	2907596	715	EML-ESD (24X4)R	0830568	812	EML-RM (25X8)R CUS	0830557	815	EMSTBA 2,5/4-G-5,08	1880326	310
EMG150-LG/O	2906571	715	EML-ESD (24X4)R CUS	0830592	813	EML-RM (25X8)RL-T	0830545	815	EMSTBA 2,5/5-G	1899870	310
EML (100X73)R	0817125	808	EML-ESD (24X4)RL-T	0830580	813	EML-RM (32X10)R	0830535	814	EMSTBA 2,5/5-G-5,08	1880339	310
EML (100X73)R SR	0817112	809	EML-ESD (25,4X12,7)R	0830570	812	EML-RM (32X10)R CUS	0830559	815	EMSTBA 2,5/6-G	1899883	310
EML (100X73)R YE	0817138	809	EML-ESD (25,4X12,7)R CUS	0830594	813	EML-RM (32X10)RL-T	0830547	815	EMSTBA 2,5/6-G-5,08	1880342	310
EML (100X90)R	0817154	808	EML-ESD (25,4X12,7)RL-T	0830582	813	EML-RM (35X6,5)R	0830536	814	EMSTBA 2,5/7-G	1899896	310
EML (100X90)R SR	0817141	809	EML-ESD (25X8)R	0830569	812	EML-RM (35X6,5)R CUS	0830560	815	EMSTBA 2,5/7-G-5,08	1880355	310
EML (100XE)RL SR	0815787	809	EML-ESD (25X8)R CUS	0830593	813	EML-RM (35X6,5)RL-T	0830548	815	EMSTBA 2,5/8-G	1899906	310
EML (101,6X25,4)RL SR	0815790	809	EML-ESD (25X8)RL-T	0830581	813	EML-RM (40X15)R	0830537	814	EMSTBA 2,5/8-G-5,08	1880368	310
EML (10X4)R	0815583	808	EML-ESD (32X10)R	0830571	812	EML-RM (40X15)R CUS	0830561	815	EMSTBA 2,5/9-G	1899919	310
EML (10X7)R	0816663	808	EML-ESD (32X10)R CUS	0830595	813	EML-RM (40X15)RL-T	0830549	815	EMSTBA 2,5/9-G-5,08	1880371	310
EML (10X7)R YE	0816676	809	EML-ESD (32X10)RL-T	0830583	813	EML-RM (45X5)R	0830538	814	EMSTBA 2,5/10-G	1899922	310
EML (15X9)R	0815677	808	EML-ESD (35X6,5)R	0830572	812	EML-RM (45X5)R CUS	0830562	815	EMSTBA 2,5/10-G-5,08	1880384	310
EML (15X9)R SR	0816032	809	EML-ESD (35X6,5)R CUS	0830595	813	EML-ESD (35X6,5)RL-T	0830550	815	EMSTBA 2,5/11-G	1899935	310
EML (15X9)R YE	0816045	809	EML-ESD (35X6,5)RL-T	0830584	813	EML-RM (50X10)R	0830539	814	EMSTBA 2,5/11-G-5,08	1880397	310
EML (16,5X5)R	0816702	808	EML-ESD (40X15)R	0830573	812	EML-RM (50X10)R CUS	0830563	815	EMSTBA 2,5/12-G	1899948	310
EML (16,5X5)R YE	0816728	809	EML-ESD (40X15)R CUS	0830597	813	EML-RM (50X10)RL-T	0830551	815	EMSTBA 2,5/12-G-5,08	1880407	310
EML (16,5X5)RL	0816113	808	EML-ESD (40X15)RL-T	0830585	813	EML-RM (8X8)R	0830528	814	EMSTBA 2,5/13-G	1899951	310
EML (16,5X5)RL YE	0816126	809	EML-ESD (45X5)R	0830574	812	EML-RM (8X8)R CUS	0830552	815	EMSTBA 2,5/13-G-5,08	1880410	310
EML (16X7)R	0818001	808	EML-ESD (45X5)R CUS	0830598	813	EML-RM (8X8)RL-T	0830540	815	EMSTBA 2,5/14-G	1899964	310
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FKC 2,5 HC/12-ST-5,08	1942471	494	FKC 2,5/10-ST-RF	1947133	275	FKCN 2,5/9-STF	1733039	279	FKCS 2,5/14-STF	1975040	277
FKC 2,5 HC/12-STF	1942361	495	FKC 2,5/10-STF	1910607	275	FKCN 2,5/9-STF-5,08	1754869	279	FKCS 2,5/14-STF-5,08	1975383	277
FKC 2,5 HC/12-STF-5,08	1942581	495	FKC 2,5/10-STF-5,08	1873281	275	FKCN 2,5/10-ST	1732823	278	FKCS 2,5/14-STF	1974863	276
FKC 2,5/2-ST	1910351	274	FKC 2,5/10-STF-5,08 EX	1796076	371	FKCN 2,5/10-ST-5,08	1754649	278	FKCS 2,5/15-ST-5,08	1975202	276
FKC 2,5/2-ST-5,08	1873058	274	FKC 2,5/11-ST	1910445	274	FKCN 2,5/10-STF	1733042	279	FKCS 2,5/15-STF	1975053	277
FKC 2,5/2-ST-5,08-LR	1792517	275	FKC 2,5/11-ST-5,08	1873142	274	FKCN 2,5/10-STF-5,08	1754872	279	FKCS 2,5/15-STF-5,08	1975396	277
FKC 2,5/2-ST-5,08-RF	1925692	275	FKC 2,5/11-ST-5,08-LR	1792601	275	FKCN 2,5/11-ST	1732833	278	FKCS 2,5/16-ST	1974876	276
FKC 2,5/2-ST-5,08-RF EX	1796102	371	FKC 2,5/11-ST-5,08-RF	1925786	275	FKCN 2,5/11-ST-5,08	1754652	278	FKCS 2,5/16-ST-5,08	1975215	276
FKC 2,5/2-ST-RF	1947052	275	FKC 2,5/11-ST-5,08-RF EX	1796199	371	FKCN 2,5/11-STF	1733050	279	FKCS 2,5/16-STF	1975066	277
FKC 2,5/2-STF	1910526	275	FKC 2,5/11-ST-RF	1947146	275	FKCN 2,5/11-STF-5,08	1754885	279	FKCS 2,5/16-STF-5,08	1975406	277
FKC 2,5/2-STF-5,08	1873207	275	FKC 2,5/11-STF	1910610	275	FKCN 2,5/12-ST	1732836	278	FKCT 2,5/2-ST	1909210	277
FKC 2,5/2-STF-5,08 EX	1795996	371	FKC 2,5/11-STF-5,08	1873294	275	FKCN 2,5/12-ST-5,08	1754665	278	FKCT 2,5/2-ST-5,08	1902110	277
FKC 2,5/3-ST	1910364	274	FKC 2,5/11-STF-5,08 EX	1910364	274	FKCN 2,5/12-STF	1733055	279	FKCT 2,5/2-STF	1909401	277
FKC 2,5/3-ST-5,08	1873061	274	FKC 2,5/12-ST	1910458	274	FKCN 2,5/12-STF-5,08	1754898	279	FKCT 2,5/2-STF-5,08	1902301	277
FKC 2,5/3-ST-5,08-LR	1792520	275	FKC 2,5/12-ST-5,08	1873155	274	FKCN 2,5/13-ST	1732849	278	FKCT 2,5/3-ST	1909223	277
FKC 2,5/3-ST-5,08-RF	1925702	275	FKC 2,5/12-ST-5,08-LR	1792614	275	FKCN 2,5/13-ST-5,08	1754678	278	FKCT 2,5/3-ST-5,08	1902123	277
FKC 2,5/3-ST-5,08-RF EX	1796115	371	FKC 2,5/12-ST-5,08-RF	1925799	275	FKCN 2,5/13-STF	1733068	279	FKCT 2,5/3-STF	1909414	277
FKC 2,5/3-ST-RF	1947065	275	FKC 2,5/12-ST-5,08-RF EX	1796209	371	FKCN 2,5/13-STF-5,08	1754908	279	FKCT 2,5/3-STF-5,08	1902314	277
FKC 2,5/3-STF	1910539	275	FKC 2,5/12-ST-RF	1947159	275	FKCN 2,5/14-ST	1732852	278	FKCT 2,5/4-ST	1909236	277
FKC 2,5/3-STF-5,08	1873210	275	FKC 2,5/12-STF	1910623	275	FKCN 2,5/14-ST-5,08	1754681	278	FKCT 2,5/4-ST-5,08	1902136	277
FKC 2,5/3-STF-5,08 EX	1796005	371	FKC 2,5/12-STF-5,08	1873304	275	FKCN 2,5/14-STF	1733071	279	FKCT 2,5/4-STF	1909427	277
FKC 2,5/4-ST	1910377	274	FKC 2,5/12-STF-5,08 EX	1796092	371	FKCN 2,5/14-STF-5,08	1754911	279	FKCT 2,5/4-STF-5,08	1902327	277
FKC 2,5/4-ST-5,08	1873074	274	FKC 2,5/13-ST	1910461	274	FKCN 2,5/15-ST	1732865	278	FKCT 2,5/5-ST	1909249	277
FKC 2,5/4-ST-5,08-LR	1792533	275	FKC 2,5/13-ST-5,08	1873168	274	FKCN 2,5/15-ST-5,08	1754694	278	FKCT 2,5/5-ST-5,08	1902149	277
FKC 2,5/4-ST-5,08-RF	1925715	275	FKC 2,5/13-ST-5,08-LR	1810300	275	FKCN 2,5/15-STF	1733084	279	FKCT 2,5/5-STF	1909430	277
FKC 2,5/4-ST-5,08-RF EX	1796128	371	FKC 2,5/13-ST-5,08-RF	1925809	275	FKCN 2,5/15-STF-5,08	1754924	279	FKCT 2,5/5-STF-5,08	1902330	277
FKC 2,5/4-ST-RF	1947078	275	FKC 2,5/13-ST-RF	1947162	275	FKCN 2,5/16-ST	1732878	278	FKCT 2,5/6-ST	1909252	277
FKC 2,5/4-STF	1910542	275	FKC 2,5/13-STF	1910636	275	FKCN 2,5/16-ST-5,08	1754704	278	FKCT 2,5/6-ST-5,08	1902152	277
FKC 2,5/4-STF-5,08	1873223	275	FKC 2,5/13-STF-5,08	1873317	275	FKCN 2,5/16-STF	1733097	279	FKCT 2,5/6-STF	1909443	277
FKC 2,5/4-STF-5,08 EX	1796018	371	FKC 2,5/14-ST	1910474	274	FKCN 2,5/16-STF-5,08	1754937	279	FKCT 2,5/6-STF-5,08	1902343	277
FKC 2,5/5-ST	1910380	274	FKC 2,5/14-ST-5,08	1873171	274	FKCS 2,5/2-ST	1974737	276	FKCT 2,5/7-ST	1909265	277
FKC 2,5/5-ST-5,08	1873087	274	FKC 2,5/14-ST-5,08-LR	1810913	275	FKCS 2,5/2-ST-5,08	1975079	276	FKCT 2,5/7-ST-5,08	1902165	277
FKC 2,5/5-ST-5,08-LR	1792546	275	FKC 2,5/14-ST-5,08-RF	1925812	275	FKCS 2,5/2-STF	1974928	277	FKCS 2,5/7-STF	1909456	277
FKC 2,5/5-ST-5,08-RF	1925728	275	FKC 2,5/14-ST-RF	1947175	275	FKCS 2,5/2-STF-5,08	1975260	277	FKCT 2,5/7-STF-5,08	1902356	277
FKC 2,5/5-ST-5,08-RF EX	1796131	371	FKC 2,5/14-STF	1910649	275	FKCS 2,5/3-ST	1974740	276	FKCS 2,5/8-ST	1909278	277
FKC 2,5/5-ST-RF	1947081	275	FKC 2,5/14-STF-5,08	1873320	275	FKCS 2,5/3-ST-5,08	1975082	276	FKCT 2,5/8-ST-5,08	1902178	277
FKC 2,5/5-STF	1910555	275	FKC 2,5/15-ST	1910487	274	FKCS 2,5/3-STF	1974931	277	FKCT 2,5/8-STF	1909469	277
FKC 2,5/5-STF-5,08	1873236	275	FKC 2,5/15-ST-5,08	1873184	274	FKCS 2,5/3-STF-5,08	1975273	277	FKCT 2,5/8-STF-5,08	1902369	277
FKC 2,5/5-STF-5,08 EX	1796021	371	FKC 2,5/15-ST-5,08-LR	1810926	275	FKCS 2,5/4-ST	1974753	276	FKCT 2,5/9-ST	1909281	277
FKC 2,5/6-ST	1910393	274	FKC 2,5/15-ST-5,08-RF	1925825	275	FKCS 2,5/4-ST-5,08	1975095	276	FKCT 2,5/9-ST-5,08	1902181	277
FKC 2,5/6-ST-5,08	1873090	274	FKC 2,5/15-ST-RF	1947188	275	FKCS 2,5/4-STF	1974944	277	FKCT 2,5/9-STF	1909472	277
FKC 2,5/6-ST-5,08-LR	1792528	275	FKC 2,5/15-STF	1910652	275	FKCS 2,5/4-STF-5,08	1975286	277	FKCT 2,5/9-STF-5,08	1902372	277
FKC 2,5/6-ST-5,08-RF	1925731	275	FKC 2,5/15-STF-5,08	1873333	275	FKCS 2,5/5-ST	1974766	276	FKCT 2,5/10-ST	1909294	277
FKC 2,5/6-ST-5,08-RF EX	1796144	371	FKC 2,5/16-ST	1910490	274	FKCS 2,5/5-ST-5,08	1975105	276	FKCT 2,5/10-ST-5,08	1902194	277
FKC 2,5/6-ST-RF	1947094	275	FKC 2,5/16-ST-5,08	1873197	274	FKCS 2,5/5-STF	1974957	277	FKCT 2,5/10-STF	1909485	277
FKC 2,5/6-STF	1910568	275	FKC 2,5/16-ST-5,08-LR	1810939	275	FKCS 2,5/5-STF-5,08	1975299	277	FKCT 2,5/10-STF-5,08	1902385	277
FKC 2,5/6-STF-5,08	1873249	275	FKC 2,5/16-ST-5,08-RF	1925838	275	FKCS 2,5/6-ST	1974779	276	FKCT 2,5/11-ST	1909304	277
FKC 2,5/6-STF-5,08 EX	1796034	371	FKC 2,5/16-ST-RF	1947191	275	FKCS 2,5/6-ST-5,08	1975118	276	FKCT 2,5/11-ST-5,08	1902204	277
FKC 2,5/7-ST	1910403	274	FKC 2,5/16-STF	1910665	275	FKCS 2,5/6-STF	1974960	277	FKCT 2,5/11-STF	1909498	277
FKC 2,5/7-ST-5,08	1873100	274	FKC 2,5/16-STF-5,08	1873346	275	FKCS 2,5/6-STF-5,08	1975309	277	FKCT 2,5/11-STF-5,08	1902398	277
FKC 2,5/7-ST-5,08-LR	1792562	275	FKCN 2,5/2-ST	1732742	278	FKCS 2,5/7-ST	1974782	276	FKCT 2,5/12-ST	1909317	277
FKC 2,5/7-ST-5,08-RF	1925744	275	FKCN 2,5/2-ST-5,08	1754568	278	FKCS 2,5/7-ST-5,08	1975121	276	FKCT 2,5/12-ST-5,08	1902217	277
FKC 2,5/7-ST-5,08-RF EX	1796157	371	FKCN 2,5/2-STF	1732962	279	FKCS 2,5/7-STF	1974973	277	FKCT 2,5/12-STF	1909508	277
FKC 2,5/7-ST-RF	1947104	275	FKCN 2,5/2-STF-5,08	1754791	279	FKCS 2,5/7-STF-5,08	1975312	277	FKCT 2,5/12-STF-5,08	1902408	277
FKC 2,5/7-STF	1910571	275	FKCN 2,5/3-ST	1732755	278	FKCS 2,5/8-ST	1974795	276	FKCT 2,5/13-ST	1909320	277
FKC 2,5/7-STF-5,08	1873252	275	FKCN 2,5/3-ST-5,08	1754571	278	FKCS 2,5/8-ST-5,08	1975134	276	FKCT 2,5/13-ST-5,08	1902220	277
FKC 2,5/7-STF-5,08 EX	1796047	371	FKCN 2,5/3-STF	1732975	279	FKCS 2,5/8-STF	1974986	277	FKCT 2,5/13-STF	1909511	277
FKC 2,5/8-ST	1910416	274	FKCN 2,5/3-STF-5,08	1754801	279	FKCS 2,5/8-STF-5,08	1975325	277	FKCT 2,5/13-STF-5,08	1902411	277
FKC 2,5/8-ST-5,08	1873113	274	FKCN 2,5/4-ST	1732768	278	FKCS 2,5/9-ST	1974805	276	FKCT 2,5/14-ST	1909333	277
FKC 2,5/8-ST-5,08-LR	1792575	275	FKCN 2,5/4-ST-5,08	1754584	278	FKCS 2,5/9-ST-5,08	1975147	276	FKCT 2,5/14-ST-5,08	1902233	277
FKC 2,5/8-ST-5,08-RF	1925757	275	FKCN 2,5/4-STF	1732988	279	FKCS 2,5/9-STF	1974999	277	FKCT 2,5/14-STF	1909524	277
FKC 2,5/8-ST-5,08-RF EX	1796160	371	FKCN 2,5/4-STF-5,08	1754814	279	FKCS 2,5/9-STF-5,08	1975338	277	FKCT 2,5/14-STF-5,08	1902424	277
FKC 2,5/8-ST-RF	1947117	275	FKCN 2,5/5-ST	1732771	278	FKCS 2,5/10-ST	1974818	276	FKCT 2,5/15-ST	1909346	277
FKC 2,5/8-STF	1910584	275	FKCN 2,5/5-ST-5,08	1754597	278	FKCS 2,5/10-ST-5,08	1975150	276	FKCT 2,5/15-ST-5,08	1902246	277
FKC 2,5/8-STF-5,08	1873265	275	FKCN 2,5/5-STF	1732991	279	FKCS 2,5/10-STF	1975008	277	FKCT 2,5/15-STF	1909537	277
FKC 2,5/8-STF-5,08 EX	1796050	371	FKCN 2,5/5-STF-5,08	1754827	279	FKCS 2,5/10-STF-5,08	1975341	277	FKCT 2,5/15-STF-5,08	1902437	277
FKC 2,5/9-ST	1910429	274	FKCN 2,5/6-ST	1732784	278	FKCS 2,5/11-ST	1974821	276	FKCT 2,5/16-ST	1909359	277
FKC 2,5/9-ST-5,08	1873126	274	FKCN 2,5/6-ST-5,08	1754607	278	FKCS 2,5/11-ST-5,08	1975163	276	FKCT 2,5/16-ST-5,08	1902259	277
FKC 2,5/9-ST-5,08-LR	1792588	275	FKCN 2,5/6-STF	1733000	279	FKCS 2,5/11-STF	1975011	277	FKCT 2,5/16-STF	1909540	277
FKC 2,5/9-ST-5,08-RF	1925760	275	FKCN 2,5/6-STF-5,08	1754830	279	FKCS 2,5/11-STF-5,08	1975354	277	FKCT 2,5/16-STF-5,08	1902440	277

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page			
FMC 0,5/9-ST-2,54	1821164	174	FMC 1,5/13-ST-3,5-RF	1952131	201	FRONT 2,5-V/SA10/9	1704907	115	FRONT-MSTB 2,5/7-ST	1779466	269	GFKC 2,5/9-ST-7,5	1939484	340	GIC 2,5/8-GF-7,62	1859043	347	GMKDSP 3/3-7,62	1732733	123	GMSTB 2,5/9-GF-7,62	1806290	343
FMC 0,5/9-ST-2,54 C1	1706254	175	FMC 1,5/13-ST-3,81	1748082	200	FRONT 2,5-V/SA10/10	1700778	115	FRONT-MSTB 2,5/7-ST-5,08	1777332	269	GFKC 2,5/9-ST-7,62	1939701	340	GIC 2,5/8-ST-7,62	1828867	338	GMKDSB 2,5 HCV/2-ST-7,62	1714278	502	GMSTB 2,5/9-GF-7,62 EX	1795954	383
FMC 0,5/9-ST-2,54 C2	1706236	175	FMC 1,5/13-STF-3,5	1966208	201	FRONT 2,5-V/SA10/11	1773293	115	FRONT-MSTB 2,5/7-STF	1779699	269	GFKC 2,5/9-STF-7,62	1939811	341	GIC 2,5/8-STF-7,62	1858934	339	GMSTB 2,5 HCV/2-ST-7,62-LR	1812759	503	GMSTB 2,5/9-ST	1766958	334
FMC 0,5/10-ST-2,54	1821177	174	FMC 1,5/13-STF-3,81	1748464	201	FRONT 2,5-V/SA10/12	1931741	115	FRONT-MSTB 2,5/7-STF-5,08	1777853	269	GFKC 2,5/9-STF-7,62 EX	1796283	381	GIC 2,5/8-STF-7,62	1849943	339	GMSTB 2,5 HCV/3-ST-7,62	1714281	502	GMSTB 2,5/9-ST	1767700	334
FMC 0,5/10-ST-2,54 C1	1706253	175	FMC 1,5/14-ST-3,5	1952380	200	FRONT 4-H-6,35	1703050	459	FRONT-MSTB 2,5/8-ST	1779479	269	GFKC 2,5/10-ST-7,5	1939497	340	GIC 2,5/9-G-7,62	1828744	346	GMSTB 2,5 HCV/3-ST-7,62-LR	1812762	503	GMSTB 2,5/9-STF-7,62	1858837	335
FMC 0,5/10-ST-2,54 C2	1706234	175	FMC 1,5/14-ST-3,5-RF	1952144	201	FRONT 4-H-7,32	1703034	461	FRONT-MSTB 2,5/8-ST-5,08	1777345	269	GFKC 2,5/10-ST-7,62	1939714	340	GIC 2,5/9-GF-7,62	1859056	347	GMSTB 2,5 HCV/4-ST-7,62	1714294	502	GMSTB 2,5/9-STF-7,62 EX	1795844	379
FMC 0,5/11-ST-2,54	1821180	174	FMC 1,5/14-ST-3,81	1748095	200	FRONT 4-V-6,35	1703063	459	FRONT-MSTB 2,5/8-STF	1779709	269	GFKC 2,5/10-STF-7,62	1939824	341	GIC 2,5/9-ST-7,62	1828870	338	GMSTB 2,5 HCV/4-ST-7,62-LR	1812775	503	GMSTB 2,5/10-G	1766087	342
FMC 0,5/11-ST-2,54 C1	1706252	175	FMC 1,5/14-STF-3,5	1966211	201	FRONT 4-V-7,62	1703021	461	FRONT-MSTB 2,5/8-STF-5,08	1777798	269	GFKC 2,5/10-STF-7,62 EX	1796296	381	GIC 2,5/9-STF-7,62	1858947	339	GMSTB 2,5 HCV/5-ST-7,62	1714304	502	GMSTB 2,5/10-G-7,62	1766204	342
FMC 0,5/11-ST-2,54 C2	1706233	175	FMC 1,5/14-STF-3,81	1748477	201	FRONT-GMSTB 2,5/2-ST-7,62	1806119	335	FRONT-MSTB 2,5/9-ST	1779482	269	GFKC 2,5/11-ST-7,5	1939507	340	GIC 2,5/9-STGF-7,62	1849956	339	GMSTB 2,5 HCV/5-ST-7,62-LR	1812788	503	GMSTB 2,5/10-GF-7,62	1806300	343
FMC 0,5/12-ST-2,54	1821193	174	FMC 1,5/15-ST-3,5	1952393	200	FRONT-GMSTB 2,5/2-STF-7,62	1805987	335	FRONT-MSTB 2,5/9-ST-5,08	1777358	269	GFKC 2,5/11-ST-7,62	1939727	340	GIC 2,5/10-G-7,62	1828757	346	GMSTB 2,5 HCV/6-ST-7,62	1714317	502	GMSTB 2,5/10-GF-7,62 EX	1795967	383
FMC 0,5/12-ST-2,54 C1	1706250	175	FMC 1,5/15-ST-3,5-RF	1952157	201	FRONT-GMSTB 2,5/2-STF-7,62	1806122	335	FRONT-MSTB 2,5/9-STF	1779712	269	GFKC 2,5/11-STF-7,62	1939837	341	GIC 2,5/10-GF-7,62	1859069	347	GMSTB 2,5 HCV/6-ST-7,62-LR	1812791	503	GMSTB 2,5/10-ST	1766961	334
FMC 0,5/12-ST-2,54 C2	1706232	175	FMC 1,5/15-ST-3,81	1748105	200	FRONT-GMSTB 2,5/3-STF-7,62	1805990	335	FRONT-MSTB 2,5/9-STF-5,08	1777866	269	GFKC 2,5/11-STF-7,62 EX	1796306	381	GIC 2,5/10-ST-7,62	1828883	338	GMSTB 2,5 HCV/7-ST-7,62	1714320	502	GMSTB 2,5/10-ST-7,62	1767083	334
FMC 0,5/13-ST-2,54	1821203	174	FMC 1,5/15-STF-3,5	1966224	201	FRONT-GMSTB 2,5/4-ST-7,62	1806135	335	FRONT-MSTB 2,5/10-ST	1779495	269	GFKC 2,5/12-ST-7,5	1939510	340	GIC 2,5/10-STF-7,62	1858950	339	GMSTB 2,5 HCV/7-ST-7,62-LR	1812801	503	GMSTB 2,5/10-STF-7,62	1858840	335
FMC 0,5/13-ST-2,54 C1	1706249	175	FMC 1,5/15-STF-3,81	1748480	201	FRONT-GMSTB 2,5/4-STF-7,62	1806009	335	FRONT-MSTB 2,5/10-ST-5,08	1777361	269	GFKC 2,5/12-ST-7,62	1939730	340	GIC 2,5/10-STGF-7,62	1849969	339	GMSTB 2,5 HCV/8-ST-7,62	1714333	502	GMSTB 2,5/10-STF-7,62 EX	1795857	379
FMC 0,5/13-ST-2,54 C2	1706230	175	FMC 1,5/16-ST-3,5	1952403	200	FRONT-GMSTB 2,5/5-ST-7,62	1806148	335	FRONT-MSTB 2,5/10-STF	1779725	269	GFKC 2,5/12-STF-7,62	1939840	341	GIC 2,5/11-G-7,62	1828760	346	GMSTB 2,5 HCV/8-ST-7,62-LR	1812814	503	GMSTB 2,5/11-G	1766107	342
FMC 0,5/14-ST-2,54	1821216	174	FMC 1,5/16-ST-3,5-RF	1952160	201	FRONT-GMSTB 2,5/5-STF-7,62	1806038	335	FRONT-MSTB 2,5/10-STF-5,08	1777879	269	GFKC 2,5/12-STF-7,62 EX	1796319	381	GIC 2,5/11-GF-7,62	1859072	347	GMSTB 2,5 HCV/9-ST-7,62	1714346	502	GMSTB 2,5/11-G-7,62	1766217	342
FMC 0,5/14-ST-2,54 C1	1706247	175	FMC 1,5/16-ST-3,81	1748118	200	FRONT-GMSTB 2,5/6-ST-7,62	1806151	335	FRONT-MSTB 2,5/11-ST	1779505	269	GFKC 2,5/12-ST-7,5	1761603	341	GIC 2,5/11-ST-7,62	1828896	338	GMSTB 2,5 HCV/10-ST-7,62	1714359	502	GMSTB 2,5/11-GF-7,62	1806313	343
FMC 0,5/14-ST-2,54 C2	1706229	175	FMC 1,5/16-STF-3,5	1966237	201	FRONT-GMSTB 2,5/6-STF-7,62	1806041	335	FRONT-MSTB 2,5/11-ST-5,08	1777374	269	GFKC 2,5/12-ST-7,62	1761616	341	GIC 2,5/11-STF-7,62	1858963	339	GMSTB 2,5 HCV/10-ST-7,62-LR	1812830	503	GMSTB 2,5/11-GF-7,62 EX	1795970	383
FMC 0,5/15-ST-2,54	1821229	174	FMC 1,5/16-ST-3,81	1748493	201	FRONT-GMSTB 2,5/7-ST-7,62	1806164	335	FRONT-MSTB 2,5/11-STF	1779738	269	GFKC 2,5/12-ST-7,62	1761629	341	GIC 2,5/11-STGF-7,62	1849972	339	GMSTB 2,5 HCV/11-ST-7,62	1714362	502	GMSTB 2,5/11-ST	1766974	334
FMC 0,5/15-ST-2,54 C1	1706246	175	FMCD 1,5/3-ST-3,5	1730814	201	FRONT-GMSTB 2,5/7-STF-7,62	1806054	335	FRONT-MSTB 2,5/11-STF-5,08	1777882	269	GFKC 2,5/12-ST-7,62	1761632	341	GIC 2,5/12-G-7,62	1828773	346	GMSTB 2,5 HCV/11-ST-7,62-LR	1812843	503	GMSTB 2,5/11-ST-7,62	1767096	334
FMC 0,5/15-ST-2,54 C2	1706227	175	FMCD 1,5/4-ST-3,5	1738827	201	FRONT-GMSTB 2,5/8-ST-7,62	1806177	335	FRONT-MSTB 2,5/12-ST	1779518	269	GFKC 2,5/12-ST-7,5	1761645	341	GIC 2,5/12-GF-7,62	1859085	347	GMSTB 2,5 HCV/12-ST-7,62	1714375	502	GMSTB 2,5/11-STF-7,62	1858853	335
FMC 0,5/16-ST-2,54	1821232	174	FMCD 1,5/5-ST-3,5	1738830	201	FRONT-GMSTB 2,5/8-STF-7,62	1806067	335	FRONT-MSTB 2,5/12-ST-5,08	1777387	269	GFKC 2,5/12-ST-7,62	1761658	341	GIC 2,5/12-ST-7,62	1828906	338	GMSTB 2,5 HCV/12-ST-7,62-LR	1812856	503	GMSTB 2,5/11-STF-7,62 EX	1795860	379
FMC 0,5/16-ST-2,54 C1	1706245	175	FMCD 1,5/6-ST-3,5	1738843	201	FRONT-GMSTB 2,5/9-ST-7,62	1806180	335	FRONT-MSTB 2,5/12-STF	1779741	269	GFKC 2,5/12-ST-7,62	1761661	341	GIC 2,5/12-STF-7,62	1858976	339	GMSTB 2,5/2-G	1766013	342	GMSTB 2,5/12-G	1766110	342
FMC 0,5/16-ST-2,54 C2	1706226	175	FMCD 1,5/7-ST-3,5	1738856	201	FRONT-GMSTB 2,5/9-STF-7,62	1806070	335	FRONT-MSTB 2,5/12-STF-5,08	1777895	269	GFKC 2,5/9-ST-7,62	1761674	341	GIC 2,5/12-STGF-7,62	1849985	339	GMSTB 2,5/2-G-7,62	1766123	342	GMSTB 2,5/12-G-7,62	1766220	342
FMC 1,5/2-ST-3,5	1952267	200	FMCD 1,5/8-ST-3,5	1738869	201	FRONT-GMSTB 2,5/10-ST-7,62	1806193	335	FRONT-MSTB 2,5/13-ST	1779521	269	GFKC 2,5/10-ST-7,62	1761687	341	GICV 2,5 HC/2-G-7,62	1756485	507	GMSTB 2,5/2-GF-7,62	1806229	343	GMSTB 2,5/12-GF-7,62	1806326	343
FMC 1,5/2-ST-3,5-RF	1952021	201	FMCD 1,5/9-ST-3,5	1738872	201	FRONT-GMSTB 2,5/10-STF-7,62	1806083	335	FRONT-MSTB 2,5/13-ST-5,08	1777390	269	GFKC 2,5/11-ST-7,62	1761690	341	GICV 2,5 HC/3-G-7,62	1756498	507	GMSTB 2,5/2-GF-7,62 EX	1795886	383	GMSTB 2,5/12-GF-7,62 EX	1795983	383
FMC 1,5/2-ST-3,81	1745894	200	FMCD 1,5/10-ST-3,5	1738885	201	FRONT-GMSTB 2,5/11-ST-7,62	1806203	335	FRONT-MSTB 2,5/13-STF	1779754	269	GFKC 2,5/11-ST-7,62	1761700	341	GICV 2,5 HC/4-G-7,62	1756508	507	GMSTB 2,5/2-ST	1766880	334	GMSTB 2,5/12-ST	1766987	334
FMC 1,5/2-STF-3,5	1966091	201	FMCD 1,5/11-ST-3,5	1738898	201	FRONT-GMSTB 2,5/11-STF-7,62	1806096	335	FRONT-MSTB 2,5/13-STF-5,08	1777905	269	GIC 2,5 HC/2-G-7,62	1745784	506	GICV 2,5 HC/5-G-7,62	1756511	507	GMSTB 2,5/2-ST-7,62	1766990	334	GMSTB 2,5/12-ST-7,62	1767106	334
FMC 1,5/2-STF-3,81	1748354	201	FMCD 1,5/12-ST-3,5	1738908	201	FRONT-GMSTB 2,5/12-ST-7,62	1806216	335	FRONT-MSTB 2,5/14-ST	1779534	269	GIC 2,5 HC/3-G-7,62	1745797	506	GICV 2,5 HC/6-G-7,62	1756524	507	GMSTB 2,5/2-STF-7,62	1858769	335	GMSTB 2,5/12-STF-7,62	1858866	335
FMC 1,5/3-ST-3,5	1952270	200	FMCD 1,5/13-ST-3,5	1738911	201	FRONT-GMSTB 2,5/12-STF-7,62	1806106	335	FRONT-MSTB 2,5/14-ST-5,08	1777400	269	GIC 2,5 HC/4-G-7,62	1745807	506	GICV 2,5 HC/7-G-7,62	1756537	507	GMSTB 2,5/2-STF-7,62 EX	1795776	379	GMSTB 2,5/12-STF-7,62 EX	1795873	379
FMC 1,5/3-ST-3,5-RF	1952034	201	FMCD 1,5/14-ST-3,5	1738924	201	FRONT-MC 1,5/2-ST-3,81	1850660	194	FRONT-MSTB 2,5/14-STF	1779767	269	GIC 2,5 HC/5-G-7,62	1745810	506	GICV 2,5 HC/8-G-7,62	1756540	507	GMSTB 2,5/3-G	1766026	342	GMSTBA 2,5 HC/2-G-7,62	1728853	504
FMC 1,5/3-ST-3,81	1745904	200	FMCD 1,5/15-ST-3,5	1738937	201	FRONT-MC 1,5/2-STF-3,81	1850851	195	FRONT-MSTB 2,5/14-STF-5,08	1777918	269	GIC 2,5 HC/6-G-7,62	1745823	506	GICV 2,5 HC/9-G-7,62	1756553	507	GMSTB 2,5/3-G-7,62	1766136	342	GMSTBA 2,5 HC/2-G-7,62-LR	1812869	505
FMC 1,5/3-STF-3,5	1966101	201	FMCD 1,5/16-ST-3,5	1738940	201	FRONT-MC 1,5/3-ST-3,81	1850673	194	FRONT-MSTB 2,5/15-ST	1779547	269	GIC 2,5 HC/7-G-7,62	1745836	506	GICV 2,5 HC/10-G-7,62	1756566	507	GMSTB 2,5/3-GF-7,62	1806232	343	GMSTBA 2,5 HC/3-G-7,62	1728866	504
FMC 1,5/3-STF-3,81	1748367	201	FOPT 2,2-R	1907924	436	FRONT-MC 1,5/3-STF-3,81	1850864	195	FRONT-MSTB 2,5/15-ST-5,08	1777413	269	GIC 2,5 HC/8-G-7,62	1745849	506	GICV 2,5 HC/11-G-7,62	1756579	507	GMSTB 2,5/3-GF-7,62 EX	1795899	383	GMSTBA 2,5 HC/3-G-7,62-LR	1812872	505
FMC 1,5/4-ST-3,5	1952283	200	FOPT 2,2-T	1907911	437	FRONT-MC 1,5/4-ST-3,81</																	

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page						
GMSTBO 2,5 HV/3-GL-7,25 THRR44	2200263	511	GMSTBVA 2,5/ 7-G	1766712	345	GMVSTBW 2,5/ 6-STF-7,62	1848038	337	HC-ALU 6-53,5 COVER GY	2200891	768	IC 2,5/ 4-ST-5,08	1786190	272	IC-DFR 2	1852024	350	ICV 2,5/ 5-G-5,08	1785971	333	IMC 1,5/13-G-3,81	1862687	238
GMSTBO 2,5 HV/3-GR-7,25 THRR44	2200262	511	GMSTBVA 2,5/ 7-G-7,62	1766822	345	GMVSTBW 2,5/ 6-STF-7,62 EX	1810049	379	HC-ALU 6-53,5 DKL-COVER GY	2201121	768	IC 2,5/ 4-STF-5,08	1825336	273	IC-DFR 3	1852037	350	ICV 2,5/ 5-GF-5,08	1825721	333	IMC 1,5/13-ST-3,81	1857993	196
GMSTBT 2,5 HV/2-ST-7,25 GY7035	2199757	508	GMSTBVA 2,5/ 8-G	1766725	345	GMVSTBW 2,5/ 7-ST	1737864	337	HC-ALU 6-53,5 PROFILE 100	2200887	768	IC 2,5/ 4-STF-5,08 EX	1810133	373	IC-DFR 4	1852040	350	ICV 2,5/ 5-GF-5,08 EX	1810476	377	IMC 1,5/13-STGF-3,81	1858141	197
GMSTBT 2,5 HV/3-ST-7,25 GY7035	2199553	508	GMSTBVA 2,5/ 8-G-7,62	1766835	345	GMVSTBW 2,5/ 7-ST-7,62	1832468	337	HC-ALU 6-53,5 PROFILE 1000	2200890	768	IC 2,5/ 4-STF-5,08	1825527	273	IC-DFR 5	1852053	350	ICV 2,5/ 6-G-5,08	1785984	333	IMC 1,5/14-G-3,81	1862690	238
GMSTBV 2,5/ 2-G	1766453	344	GMSTBVA 2,5/ 9-G	1766738	345	GMVSTBW 2,5/ 7-STF-7,62	1848041	337	HC-ALU 6-53,5 PROFILE 150	2200888	768	IC 2,5/ 5-G-5,08	1786433	332	IC-DFR 6	1852066	350	ICV 2,5/ 6-GF-5,08	1825734	333	IMC 1,5/14-ST-3,81	1858002	196
GMSTBV 2,5/ 2-G-7,62	1766563	344	GMSTBVA 2,5/ 9-G-7,62	1766848	345	GMVSTBW 2,5/ 7-STF-7,62 EX	1810052	379	HC-ALU 6-53,5 PROFILE 200	2200889	768	IC 2,5/ 5-GF-5,08	1825158	333	IC-DFR 7	1852079	350	ICV 2,5/ 6-GF-5,08 EX	1810489	377	IMC 1,5/14-STGF-3,81	1858154	197
GMSTBV 2,5/ 2-GF-7,62	1829154	345	GMSTBVA 2,5/10-G	1766741	345	GMVSTBW 2,5/ 8-ST	1737877	337	HC-ALU 6-53,5 SEAL EMC	2200907	768	IC 2,5/ 5-GF-5,08 EX	1810366	377	IC-DFR 8	1852082	350	ICV 2,5/ 7-G-5,08	1785997	333	IMC 1,5/15-G-3,81	1862700	238
GMSTBV 2,5/ 2-GF-7,62 EX	1796665	383	GMSTBVA 2,5/10-G-7,62	1766851	345	GMVSTBW 2,5/ 8-ST-7,62	1832471	337	HC-ALU 6-78 COVER GY	2200896	768	IC 2,5/ 5-ST-5,08	1786200	272	IC-DFR 9	1852095	350	ICV 2,5/ 7-GF-5,08	1825747	333	IMC 1,5/15-ST-3,81	1858015	196
GMSTBV 2,5/ 3-G	1766466	344	GMSTBVA 2,5/11-G	1766754	345	GMVSTBW 2,5/ 8-STF-7,62	1848054	337	HC-ALU 6-78 DKL-COVER GY	2201122	768	IC 2,5/ 5-STF-5,08	1825349	273	IC-DFR 10	1852105	350	ICV 2,5/ 7-GF-5,08 EX	1810492	377	IMC 1,5/15-STGF-3,81	1858167	197
GMSTBV 2,5/ 3-G-7,62	1766576	344	GMSTBVA 2,5/11-G-7,62	1766864	345	GMVSTBW 2,5/ 8-STF-7,62 EX	1810065	379	HC-ALU 6-78 PROFILE 100	2200892	768	IC 2,5/ 5-STF-5,08 EX	1810146	373	IC-DFR 11	1852118	350	ICV 2,5/ 8-G-5,08	1786006	333	IMC 1,5/16-G-3,81	1862713	238
GMSTBV 2,5/ 3-GF-7,62	1829167	345	GMSTBVA 2,5/12-G	1766767	345	GMVSTBW 2,5/ 9-ST	1737880	337	HC-ALU 6-78 PROFILE 1000	2200895	768	IC 2,5/ 5-STGF-5,08	1825530	273	IC-DFR 12	1852121	350	ICV 2,5/ 8-GF-5,08	1825750	333	IMC 1,5/16-ST-3,81	1858028	196
GMSTBV 2,5/ 3-GF-7,62 EX	1796678	383	GMSTBVA 2,5/12-G-7,62	1766877	345	GMVSTBW 2,5/ 9-ST-7,62	1832484	337	HC-ALU 6-78 PROFILE 150	2200893	768	IC 2,5/ 6-G-5,08	1786446	332	IC-DFR 13	1852134	350	ICV 2,5/ 8-GF-5,08 EX	1810502	377	IMC 1,5/16-STGF-3,81	1858170	197
GMSTBV 2,5/ 4-G	1766479	344	GMVSTBR 2,5 HV/ 2-ST-7,62	1774454	500	GMVSTBW 2,5/ 9-STF-7,62	1848067	337	HC-ALU 6-78 PROFILE 200	2200894	768	IC 2,5/ 6-GF-5,08	1825161	333	IC-DFR 14	1852147	350	ICV 2,5/ 9-G-5,08	1786019	333	IMCV 1,5/ 2-G-3,81	1875425	239
GMSTBV 2,5/ 4-G-7,62	1766589	344	GMVSTBR 2,5 HV/ 3-ST-7,62	1993954	500	GMVSTBW 2,5/ 9-STF-7,62 EX	1810078	379	HC-ALU 6-78 SEAL EMC	2200908	768	IC 2,5/ 6-GF-5,08 EX	1810379	377	IC-DFR 15	1852150	350	ICV 2,5/ 9-GF-5,08	1825763	333	IMCV 1,5/ 3-G-3,81	1875438	239
GMSTBV 2,5/ 4-GF-7,62	1829170	345	GMVSTBR 2,5 HV/ 4-ST-7,62	1774467	500	GMVSTBW 2,5/10-ST	1737893	337	HDFK 95-F/Z	0714037	621	IC 2,5/ 6-ST-5,08	1786213	272	IC-DFR 16	1852163	350	ICV 2,5/ 9-GF-5,08 EX	1810515	377	IMCV 1,5/ 4-G-3,81	1875441	239
GMSTBV 2,5/ 4-GF-7,62 EX	1796681	383	GMVSTBR 2,5/ 2-ST	1737709	336	GMVSTBW 2,5/10-ST-7,62	1832497	337	HDFK 50	0708739	617	IC 2,5/ 6-STF-5,08	1825352	273	ICC 2,5/ 2-STZ-5,08	1823846	296	ICV 2,5/ 10-G-5,08	1786022	333	IMCV 1,5/ 5-G-3,81	1875454	239
GMSTBV 2,5/ 5-G	1766482	344	GMVSTBR 2,5/ 2-ST-7,62	1832523	336	GMVSTBW 2,5/10-STF-7,62	1848070	337	HDFK 50-VP	0709123	619	IC 2,5/ 6-STF-5,08 EX	1810159	373	ICC 2,5/ 2-STZF-5,08	1823383	297	ICV 2,5/ 10-GF-5,08	1825776	333	IMCV 1,5/ 6-G-3,81	1875467	239
GMSTBV 2,5/ 5-G-7,62	1766592	344	GMVSTBR 2,5/ 2-STF-7,62	1847880	337	GMVSTBW 2,5/10-STF-7,62 EX	1810081	379	HDFK 50-VP/Z	0711218	619	IC 2,5/ 6-STGF-5,08	1825543	273	ICC 2,5/ 3-STZ-5,08	1823859	296	ICV 2,5/ 10-GF-5,08 EX	1810528	377	IMCV 1,5/ 7-G-3,81	1875470	239
GMSTBV 2,5/ 5-GF-7,62	1829183	345	GMVSTBR 2,5/ 2-STF-7,62 EX	1809898	379	GMVSTBW 2,5/11-ST	1737903	337	HDFK 50/Z	0705017	617	IC 2,5/ 7-G-5,08	1786459	332	ICC 2,5/ 3-STZF-5,08	1823396	297	ICV 2,5/ 11-1-5,08	1786035	333	IMCV 1,5/ 8-G-3,81	1875483	239
GMSTBV 2,5/ 5-GF-7,62 EX	1796694	383	GMVSTBR 2,5/ 3-ST	1737712	336	GMVSTBW 2,5/11-ST-7,62	1832507	337	HDFK 95	0709534	620	IC 2,5/ 7-GF-5,08	1825374	333	ICC 2,5/ 4-STZ-5,08	1823862	296	ICV 2,5/ 11-GF-5,08	1825789	333	IMCV 1,5/ 9-G-3,81	1875496	239
GMSTBV 2,5/ 6-G	1766495	344	GMVSTBR 2,5/ 3-ST-7,62	1832536	336	GMVSTBW 2,5/11-STF-7,62	1848083	337	HDFK 95-F	0709644	621	IC 2,5/ 7-ST-5,08	1810382	377	ICC 2,5/ 4-STZF-5,08	1823406	297	ICV 2,5/ 11-GF-5,08 EX	1810531	377	IMCV 1,5/ 10-G-3,81	1875506	239
GMSTBV 2,5/ 6-G-7,62	1766602	344	GMVSTBR 2,5/ 3-STF-7,62	1847893	337	GMVSTBW 2,5/11-STF-7,62 EX	1810094	379	HDFK 95-F-VP	0709816	619	IC 2,5/ 7-ST-5,08	1786226	272	ICC 2,5/ 5-STZ-5,08	1823875	296	ICV 2,5/ 12-G-5,08	1786048	333	IMCV 1,5/ 11-G-3,81	1875519	239
GMSTBV 2,5/ 6-GF-7,62	1829196	345	GMVSTBR 2,5/ 3-STF-7,62 EX	1809908	379	GMVSTBW 2,5/12-ST	1737916	337	HDFK 95-F-VP/Z	0710706	619	IC 2,5/ 7-STF-5,08	1825365	273	ICC 2,5/ 5-STZF-5,08	1823419	297	ICV 2,5/ 12-GF-5,08	1825792	333	IMCV 1,5/ 12-G-3,81	1875522	239
GMSTBV 2,5/ 6-GF-7,62 EX	1796704	383	GMVSTBR 2,5/ 4-ST	1737725	336	GMVSTBW 2,5/12-ST-7,62	1832510	337	HDFK 95/Z	0717364	620	IC 2,5/ 7-STF-5,08 EX	1810162	373	ICC 2,5/ 6-STZ-5,08	1823888	296	ICV 2,5/ 12-GF-5,08 EX	1810544	377	IMCV 1,5/ 13-G-3,81	1875535	239
GMSTBV 2,5/ 7-G	1766505	344	GMVSTBR 2,5/ 4-ST-7,62	1832549	336	GMVSTBW 2,5/12-STF-7,62	1848096	337	HDFK 50/Z	0714095	617	IC 2,5/ 7-STGF-5,08	1825556	273	ICC 2,5/ 6-STZF-5,08	1823422	297	ICV 2,5/ 13-G-5,08	1786051	333	IMCV 1,5/ 14-G-3,81	1875548	239
GMSTBV 2,5/ 7-G-7,62	1766615	344	GMVSTBR 2,5/ 4-STF-7,62	1847903	337	GMVSTBW 2,5/12-STF-7,62 EX	1810104	379	HDFK 95-F/Z	0714118	621	IC 2,5/ 8-G-5,08	1786462	332	ICC 2,5/ 7-STZ-5,08	1823891	296	ICV 2,5/ 13-GF-5,08	1825802	333	IMCV 1,5/ 15-G-3,81	1875551	239
GMSTBV 2,5/ 7-GF-7,62	1829206	345	GMVSTBR 2,5/ 4-STF-7,62 EX	1809911	379	GSMKDS 3/ 2	1733020	123	HDFK 95/Z	0714105	621	IC 2,5/ 8-GF-5,08	1825187	333	ICC 2,5/ 7-STZF-5,08	1823435	297	ICV 2,5/ 14-G-5,08	1786064	333	IMCV 1,5/ 16-G-3,81	1875564	239
GMSTBV 2,5/ 7-GF-7,62 EX	1796717	383	GMVSTBR 2,5/ 5-ST	1737738	336	GSMKDS 3/ 2-7,62	1733729	123	HDFK 10-TWIN	0709550	623	IC 2,5/ 8-GF-5,08 EX	1810395	377	ICC 2,5/ 8-STZ-5,08	1823901	296	ICV 2,5/ 14-GF-5,08	1825815	333	IPC 16/ 2-G-10,16	1969535	570
GMSTBV 2,5/ 8-G	1766518	344	GMVSTBR 2,5/ 5-ST-7,62	1832556	336	GSMKDS 3/ 3	1733033	123	HDFK 25-TWIN	0709563	623	IC 2,5/ 8-ST-5,08	1786239	272	ICC 2,5/ 8-STZF-5,08	1823448	297	ICV 2,5/ 15-G-5,08	1786077	333	IPC 16/ 2-GF-10,16	1969616	571
GMSTBV 2,5/ 8-G-7,62	1766628	344	GMVSTBR 2,5/ 5-STF-7,62	1847932	337	GSMKDS 3/ 3-7,62	1733732	123	HDFK 50	0708522	621	IC 2,5/ 8-STF-5,08	1825378	273	ICC 2,5/ 9-STZ-5,08	1823914	296	ICV 2,5/ 15-GF-5,08	1825828	333	IPC 16/ 2-GFU-10,16	1969933	571
GMSTBV 2,5/ 8-GF-7,62	1829219	345	GMVSTBR 2,5/ 5-STF-7,62 EX	1809924	379	GSMKDSN 1,5/ 2-7,62	1718605	119	HDFK 50-VP	0708580	619	IC 2,5/ 8-STF-5,08 EX	1810175	373	ICC 2,5/ 9-STZF-5,08	1823451	297	ICV 2,5/ 16-G-5,08	1786080	333	IPC 16/ 2-GU-10,16	1969852	571
GMSTBV 2,5/ 8-GF-7,62 EX	1796720	383	GMVSTBR 2,5/ 6-ST	1737741	336	GSMKDSN 1,5/ 3-7,62	1718618	119	HDFK 50-VP/Z	0717212	619	IC 2,5/ 8-STGF-5,08	1825569	273	ICC 2,5/ 10-STZ-5,08	1823927	296	ICV 2,5/ 16-GF-5,08	1825831	333	IPC 16/ 2-ST-10,16	1969373	558
GMSTBV 2,5/ 9-G	1766521	344	GMVSTBR 2,5/ 6-ST-7,62	1832565	336	GSMKDSN 1,5/ 4-7,62	1718621	119	HDFK 95	0709547	621	IC 2,5/ 9-G-5,08	1786475	332	ICC 2,5/ 10-STZF-5,08	1823464	297	ICV 2,5/ 16-GF-5,08	1786017	154	IPC 16/ 2-STF-10,16	1969454	559
GMSTBV 2,5/ 9-G-7,62	1766631	344	GMVSTBR 2,5/ 6-STF-7,62	1847929	337	GSMKDSN 1,5/ 5-7,62	1718634	119	HDFK 95-F	0709673	621	IC 2,5/ 9-GF-5,08	1825190	333	ICC 2,5/ 11-STZ-5,08	1823930	296	ICV 2,5/ 16-GF-5,08	1786183	154	IPC 16/ 2-STGF-10,16	1969517	560
GMSTBV 2,5/ 9-GF-7,62	1829222	345	GMVSTBR 2,5/ 6-STF-7,62 EX	1809937	379	GSMKDSN 1,5/ 6-7,62	1718647	119				IC 2,5/ 9-GF-5,08 EX	1810405	377	ICC 2,5/ 11-STZF-5,08	1823477	297	ICV 2,5/ 16-GF-5,08	1786196	154	IPC 16/ 3-G-10,16	1969548	570
GMSTBV 2,5/ 9-GF																							

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IPC 16/ 9-G-10,16	1969603	570	IPC 5/ 8-STGCL-7,62	1718326	527	ISPC 16/ 3-ST-10,16	1748558	564	KGG-MC 1,5/12	1834440	243
IPC 16/ 9-GF-10,16	1969687	571	IPC 5/ 8-STGF-7,62	1709322	527	IPC 16/ 3-STF-10,16	1748639	565	KGG-MC 1,5/13	1834453	243
IPC 16/ 9-GFU-10,16	1970003	571	IPC 5/ 9-G-7,62	1708459	540	IPC 16/ 3-STGF-10,16	1748710	565	KGG-MC 1,5/14	1834466	243
IPC 16/ 9-GU-10,16	1969920	571	IPC 5/ 9-GF-7,62	1708569	541	IPC 16/ 4-ST-10,16	1748561	564	KGG-MC 1,5/15	1834479	243
IPC 16/ 9-ST-10,16	1969441	558	IPC 5/ 9-GFU-7,62	1708789	541	IPC 16/ 4-STF-10,16	1748642	565	KGG-MC 1,5/16	1834482	243
IPC 16/ 9-STF-10,16	1969522	559	IPC 5/ 9-GU-7,62	1708679	541	IPC 16/ 4-STGF-10,16	1748723	565	KGG-MSTB 2,5/ 2	1803934	348
IPC 16/ 9-STGF-10,16	1975888	560	IPC 5/ 9-ST-7,62	1709115	526	IPC 16/ 5-ST-10,16	1748574	564	KGG-MSTB 2,5/ 3	1803947	348
IPC 35 HC/ 2-GF-15,00	1784910	592	IPC 5/ 9-STF-7,62	1709225	527	IPC 16/ 5-STF-10,16	1748655	565	KGG-MSTB 2,5/ 4	1803882	349
IPC 35 HC/ 2-STF-15,00	1784790	588	IPC 5/ 9-STGCL-7,62	1718339	527	IPC 16/ 5-STGF-10,16	1748736	565	KGG-MSTB 2,5/ 5	1803895	349
IPC 35 HC/ 2-STGF-15,00	1784855	589	IPC 5/ 9-STGF-7,62	1709335	527	IPC 16/ 6-ST-10,16	1748587	564	KGG-MSTB 2,5/ 6	1803905	349
IPC 35 HC/ 3-GF-15,00	1784923	592	IPC 5/10-G-7,62	1708462	540	IPC 16/ 6-STF-10,16	1748668	565	KGG-MSTB 2,5/ 7	1803918	349
IPC 35 HC/ 3-STF-15,00	1784800	588	IPC 5/10-GF-7,62	1708572	541	IPC 16/ 6-STGF-10,16	1748749	565	KGG-MSTB 2,5/ 8	1803921	349
IPC 35 HC/ 3-STGF-15,00	1784868	589	IPC 5/10-GFU-7,62	1708792	541	IPC 16/ 7-ST-10,16	1748590	564	KGG-PC 4/ 3	1837227	522
IPC 35 HC/ 4-GF-15,00	1784907	589	IPC 5/10-GU-7,62	1708882	541	IPC 16/ 7-STF-10,16	1748671	565	KGG-PC 4/ 3-F	1837324	523
IPC 35 HC/ 4-STF-15,00	1784813	588	IPC 5/10-ST-7,62	1709128	526	IPC 16/ 7-STGF-10,16	1748752	565	KGG-PC 4/ 4	1837230	522
IPC 35 HC/ 4-STF-SH-15,00	1784842	589	IPC 5/10-STF-7,62	1709238	527	IPC 16/ 8-ST-10,16	1748600	564	KGG-PC 4/ 4-F	1837337	523
IPC 35 HC/ 4-STGF-15,00	1784871	589	IPC 5/10-STGCL-7,62	1718342	527	IPC 16/ 8-STF-10,16	1748684	565	KGG-PC 4/ 5	1837243	522
IPC 35 HC/ 5-GF-15,00	1784949	592	IPC 5/11-G-7,62	1708475	540	IPC 16/ 8-STGF-10,16	1748765	565	KGG-PC 4/ 5-F	1837340	523
IPC 35 HC/ 5-STF-15,00	1784826	588	IPC 5/11-GF-7,62	1708585	541	IPC 16/ 9-ST-10,16	1748613	564	KGS-MSTB 2,5/ 8	1783779	349
IPC 35 HC/ 5-STGF-15,00	1784884	589	IPC 5/11-GFU-7,62	1708802	541	IPC 16/ 9-STF-10,16	1748697	565	KGS-MSTB 2,5/ 9	1783782	349
IPC 35 HC/ 6-GF-15,00	1784952	592	IPC 5/11-GU-7,62	1708895	541	IPC 5/ 2-STF-7,62	1748972	535	KGS-MSTB 2,5/10	1783805	349
IPC 35 HC/ 6-STF-15,00	1784839	588	IPC 5/11-ST-7,62	1709131	526	IPC 5/ 2-STGF-7,62	1748862	534	KGS-MSTB 2,5/12	1783818	349
IPC 35 HC/ 6-STGF-15,00	1784897	589	IPC 5/11-STF-7,62	1709241	527	IPC 5/ 2-STGF-7,62	1749201	535	KGS-MSTB 2,5/13	1783821	349
IPC 5/ 2-G-7,62	1708381	540	IPC 5/11-STGCL-7,62	1718355	527	IPC 5/ 3-STF-7,62	1748985	535	KGS-MSTB 2,5/14	1783834	349
IPC 5/ 2-GF-7,62	1708491	541	IPC 5/12-GF-7,62	1708351	527	IPC 5/ 3-STGCL-7,62	1748875	534	KGS-MSTB 2,5/15	1783847	349
IPC 5/ 2-GFU-7,62	1708718	541	IPC 5/12-GU-7,62	1708488	540	IPC 5/ 3-STGF-7,62	1749214	535	KGS-MSTB 2,5/16	1783850	349
IPC 5/ 2-GU-7,62	1708608	541	IPC 5/12-GF-7,62	1708598	541	IPC 5/ 4-STF-7,62	1748998	535	KGS-PC 4/ 6	1837256	523
IPC 5/ 2-ST-7,62	1709047	526	IPC 5/12-GFU-7,62	1708815	541	IPC 5/ 4-STGCL-7,62	1748888	534	KGS-PC 4/ 6-F	1837353	523
IPC 5/ 2-STF-7,62	1709157	527	IPC 5/12-GU-7,62	1708705	541	IPC 5/ 4-STGF-7,62	1749227	535	KGS-PC 4/ 7	1837269	523
IPC 5/ 2-STGCL-7,62	1718261	527	IPC 5/12-ST-7,62	1709144	526	IPC 5/ 5-STF-7,62	1749007	535	KGS-PC 4/ 7-F	1837366	523
IPC 5/ 2-STGF-7,62	1709267	527	IPC 5/12-STF-7,62	1709254	527	IPC 5/ 5-STGCL-7,62	1748891	534	KGS-PC 4/ 8	1837272	523
IPC 5/ 3-G-7,62	1708394	540	IPC 5/12-STGCL-7,62	1718368	527	IPC 5/ 5-STGF-7,62	1749230	535	KGS-PC 4/ 8-F	1837379	523
IPC 5/ 3-GF-7,62	1708501	541	IPC 5/12-STGF-7,62	1708705	541	IPC 5/ 6-STF-7,62	1749010	535	KGS-PC 4/ 9	1837285	523
IPC 5/ 3-GFU-7,62	1708721	541	IPC 16/ 2-G-10,16	1969690	572	IPC 5/ 6-STGCL-7,62	1748901	534	KGS-PC 4/ 9-F	1837382	523
IPC 5/ 3-GU-7,62	1708611	541	IPC 16/ 2-GF-10,16	1969771	573	IPC 5/ 6-STGF-7,62	1749243	535	KGS-PC 4/10	1837298	523
IPC 5/ 3-ST-7,62	1709050	526	IPC 16/ 3-G-10,16	1969700	572	IPC 5/ 7-STF-7,62	1749023	535	KGS-PC 4/10-F	1837395	523
IPC 5/ 3-STF-7,62	1709160	527	IPC 16/ 3-GF-10,16	1969784	573	IPC 5/ 7-STGCL-7,62	1748914	534	KGS-PC 4/11	1837308	523
IPC 5/ 3-STGCL-7,62	1718274	527	IPC 16/ 4-G-10,16	1969713	572	IPC 5/ 7-STGF-7,62	1749256	535	KGS-PC 4/11-F	1837405	523
IPC 5/ 3-STGF-7,62	1709270	527	IPC 16/ 4-GF-10,16	1969797	573	IPC 5/ 8-STF-7,62	1749036	535	KGS-PC 4/12	1837311	523
IPC 5/ 4-G-7,62	1708404	540	IPC 16/ 5-G-10,16	1969726	572	IPC 5/ 8-STGCL-7,62	1748927	534	KGS-PC 4/12-F	1837418	523
IPC 5/ 4-GF-7,62	1708514	541	IPC 16/ 5-GF-10,16	1969807	573	IPC 5/ 8-STGF-7,62	1749269	535	KST-POF	1933011	436
IPC 5/ 4-GFU-7,62	1708734	541	IPC 16/ 6-G-10,16	1969739	572	IPC 5/ 9-STF-7,62	1749049	535			
IPC 5/ 4-GU-7,62	1708624	541	IPC 16/ 6-GF-10,16	1969810	573	IPC 5/ 9-STGCL-7,62	1748930	534			
IPC 5/ 4-ST-7,62	1709063	526	IPC 16/ 7-G-10,16	1969742	572	IPC 5/ 9-STGF-7,62	1749272	535			
IPC 5/ 4-STF-7,62	1709173	527	IPC 16/ 7-GF-10,16	1969823	573	IPC 5/10-STF-7,62	1749052	535			
IPC 5/ 4-STF-SH-7,62	1709380	528	IPC 16/ 8-G-10,16	1969755	572	IPC 5/10-STGCL-7,62	1748943	534			
IPC 5/ 4-STGCL-7,62	1718287	527	IPC 16/ 8-GF-10,16	1969836	573	IPC 5/10-STGF-7,62	1749285	535			
IPC 5/ 4-STGF-7,62	1709283	527	IPC 16/ 9-G-10,16	1969768	572	IPC 5/11-STF-7,62	1749065	535			
IPC 5/ 4-STGF-SH-7,62	1709377	529	IPC 16/ 9-GF-10,16	1969849	573	IPC 5/11-STGCL-7,62	1748956	534			
IPC 5/ 5-G-7,62	1708417	540	IPC 35 HC/ 2-GF-15,00	1793558	593	IPC 5/11-STGF-7,62	1749298	535			
IPC 5/ 5-GF-7,62	1708527	541	IPC 35 HC/ 3-GF-15,00	1793561	593	IPC 5/12-STF-7,62	1749078	535			
IPC 5/ 5-GFU-7,62	1708747	541	IPC 35 HC/ 4-GF-15,00	1793574	593	IPC 5/12-STGCL-7,62	1748969	534			
IPC 5/ 5-GU-7,62	1708637	541	IPC 35 HC/ 5-GF-15,00	1793587	593	IPC 5/12-STGF-7,62	1749308	535			
IPC 5/ 5-ST-7,62	1709076	526	IPC 35 HC/ 6-GF-15,00	1793590	593						
IPC 5/ 5-STF-7,62	1709186	527	IPC 35 HC/ 7-GF-15,00	1793593	593						
IPC 5/ 5-STGF-7,62	1718290	527	IPC 35 HC/ 8-GF-15,00	1793596	593						
IPC 5/ 5-STGCL-7,62	1709296	527	IPC 5/ 2-GF-7,62	1708938	543						
IPC 5/ 5-STGF-7,62	1708420	540	IPC 5/ 3-G-7,62	1708831	542						
IPC 5/ 6-G-7,62	1708530	541	IPC 5/ 3-GF-7,62	1708941	543						
IPC 5/ 6-GF-7,62	1708530	541	IPC 5/ 4-G-7,62	1708844	542						
IPC 5/ 6-GFU-7,62	1708750	541	IPC 5/ 4-GF-7,62	1708954	543						
IPC 5/ 6-GU-7,62	1708640	541	IPC 5/ 5-G-7,62	1708857	542						
IPC 5/ 6-ST-7,62	1709089	526	IPC 5/ 5-GF-7,62	1708967	543						
IPC 5/ 6-STF-7,62	1709199	527	IPC 5/ 6-G-7,62	1708860	542						
IPC 5/ 6-STGCL-7,62	1718300	527	IPC 5/ 6-GF-7,62	1708970	543						
IPC 5/ 6-STGF-7,62	1709306	527	IPC 5/ 7-G-7,62	1708873	542						
IPC 5/ 7-G-7,62	1708433	540	IPC 5/ 7-GF-7,62	1708983	543						
IPC 5/ 7-GF-7,62	1708543	541	IPC 5/ 8-G-7,62	1708886	542						
IPC 5/ 7-GFU-7,62	1708763	541	IPC 5/ 8-GF-7,62	1708996	543						
IPC 5/ 7-GU-7,62	1708653	541	IPC 5/ 9-G-7,62	1708899	542						
IPC 5/ 7-ST-7,62	1709092	526	IPC 5/ 9-GF-7,62	1709005	543						
IPC 5/ 7-STF-7,62	1709209	527	IPC 5/10-G-7,62	1708909	542						
IPC 5/ 7-STGCL-7,62	1718313	527	IPC 5/10-GF-7,62	1709018	543						
IPC 5/ 7-STGF-7,62	1709319	527	IPC 5/11-G-7,62	1708912	542						
IPC 5/ 8-G-7,62	1708446	540	IPC 5/11-GF-7,62	1709021	543						
IPC 5/ 8-GF-7,62	1708556	541	IPC 5/12-G-7,62	1708925	542						
IPC 5/ 8-GFU-7,62	1708776	541	IPC 5/12-GF-7,62	1709034	543						
IPC 5/ 8-GU-7,62	1708666	541	ISPC 16/ 2-ST-10,16	1748545	564						
IPC 5/ 8-ST-7,62	1709102	526	ISPC 16/ 2-STF-10,16	1748626	565						
IPC 5/ 8-STF-7,62	1709212	527	ISPC 16/ 2-STGF-10,16	1748707	565						

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MC 1,5/7-GF-3,81 P14 THRR56	1782187	209	MC 1,5/9-GF-3,81	1827936	225	MC 1,5/11-G-3,81 P26 THRR56	1782556	212	MC 1,5/13-STF-3,5	1847233	191
MC 1,5/7-GF-3,81 P20 THRR56	1782077	211	MC 1,5/9-GF-3,81 P14 THR	1781874	215	MC 1,5/11-G-5,08	1836273	248	MC 1,5/13-STF-3,81	1827813	191
MC 1,5/7-GF-3,81 P26 THR	1722215	217	MC 1,5/9-GF-3,81 P14 THRR72	1782200	209	MC 1,5/11-GF-3,5	1843884	225	MC 1,5/13-STZ4-3,81	1765557	191
MC 1,5/7-GF-3,81 P26 THRR56	1781968	213	MC 1,5/9-GF-3,81 P20 THRR72	1782093	211	MC 1,5/11-GF-3,5 P14 THR	1789782	215	MC 1,5/14-G-3,5	1844333	224
MC 1,5/7-GF-3,81-LR	1817851	225	MC 1,5/9-GF-3,81 P26 THR	1722231	217	MC 1,5/11-GF-3,5 P14 THRR72	1789795	209	MC 1,5/14-G-3,5-RN	1731798	225
MC 1,5/7-GF-5,08	1847518	249	MC 1,5/9-GF-3,81 P26 THRR72	1781984	213	MC 1,5/11-GF-3,5 P20 THRR72	1789575	211	MC 1,5/14-G-3,81	1803390	224
MC 1,5/7-ST-3,5	1840418	190	MC 1,5/9-GF-3,81-LR	1817877	225	MC 1,5/11-GF-3,5 P26 THR	1789342	217	MC 1,5/14-GF-3,5	1843910	225
MC 1,5/7-ST-3,5-LR	1816904	191	MC 1,5/9-GF-5,08	1847534	249	MC 1,5/11-GF-3,5 P26 THRR72	1789355	213	MC 1,5/14-GF-3,5-LR	1817738	225
MC 1,5/7-ST-3,81	1803620	190	MC 1,5/9-ST-3,5	1840434	190	MC 1,5/11-GF-3,5-LR	1817709	225	MC 1,5/14-GF-3,81	1827981	225
MC 1,5/7-ST-3,81-LR	1817097	191	MC 1,5/9-ST-3,5-LR	1816920	191	MC 1,5/11-GF-3,81	1827952	225	MC 1,5/14-GF-3,81-LR	1817929	225
MC 1,5/7-ST-5,08	1836121	247	MC 1,5/9-ST-3,81	1803646	190	MC 1,5/11-GF-3,81 P14 THR	1781890	215	MC 1,5/14-GF-3,81	1840489	190
MC 1,5/7-ST-5,08-LR	1900824	246	MC 1,5/9-ST-3,81-LR	1817110	191	MC 1,5/11-GF-3,81 P14 THRR72	1782226	209	MC 1,5/14-GF-3,81-LR	1816975	191
MC 1,5/7-ST-5,08	1900934	247	MC 1,5/9-ST-5,08	1836147	247	MC 1,5/11-GF-3,81 P20 THRR72	1782116	211	MC 1,5/14-GF-3,81-LR	1803691	190
MC 1,5/7-STF-3,5	1847107	191	MC 1,5/9-STF-5,08	1900840	246	MC 1,5/11-GF-3,81 P26 THRR72	1722257	217	MC 1,5/14-GF-3,81-LR	1817165	191
MC 1,5/7-STF-3,81	1827758	191	MC 1,5/9-STF-5,08	1900950	247	MC 1,5/11-GF-3,81 P26 THRR72	1782006	213	MC 1,5/14-GF-3,81-LR	1847246	191
MC 1,5/7-STF-5,08	1847408	247	MC 1,5/9-STF-3,5	1847194	191	MC 1,5/11-GF-3,81-LR	1817893	225	MC 1,5/14-GF-3,81-LR	1827826	191
MC 1,5/7-STZ2-3,5	1768884	191	MC 1,5/9-STF-3,81	1827774	191	MC 1,5/11-GF-5,08	1847550	249	MC 1,5/15-G-3,5	1844346	224
MC 1,5/7-STZ2-3,81	1768949	191	MC 1,5/9-STF-5,08	1847424	247	MC 1,5/9-STF-5,08	1840450	190	MC 1,5/15-G-3,5-RN	1731808	225
MC 1,5/8-G-3,5	1844278	224	MC 1,5/9-STZ3-3,5	1768897	191	MC 1,5/11-ST-3,5-LR	1816946	191	MC 1,5/15-G-3,81	1830240	224
MC 1,5/8-G-3,5 P14 THR	1789672	214	MC 1,5/9-STZ3-3,81	1767665	191	MC 1,5/11-ST-3,81	1803662	190	MC 1,5/15-G-3,81	1843923	225
MC 1,5/8-G-3,5 P14 THRR56	1789070	208	MC 1,5/10-G-3,5	1844294	224	MC 1,5/11-ST-3,81-LR	1817136	191	MC 1,5/15-GF-3,5-LR	1817741	225
MC 1,5/8-G-3,5 P20 THRR56	1788851	210	MC 1,5/10-G-3,5 P14 THR	1789106	214	MC 1,5/11-ST-5,08	1836163	247	MC 1,5/15-GF-3,81	1827994	225
MC 1,5/8-G-3,5 P26 THR	1788628	216	MC 1,5/10-G-3,5 P14 THRR56	1789119	208	MC 1,5/11-ST-5,08	1900866	246	MC 1,5/15-GF-3,81-LR	1817932	225
MC 1,5/8-G-3,5 P26 THRR56	1788631	212	MC 1,5/10-G-3,5 P20 THRR56	1788893	210	MC 1,5/11-STIF-5,08	1900976	247	MC 1,5/15-GF-3,81-LR	1840492	190
MC 1,5/8-G-3,5-RN	1731730	225	MC 1,5/10-G-3,5 P26 THR	1788660	216	MC 1,5/11-STIF-3,5	1847217	191	MC 1,5/15-GF-3,5-LR	1816988	191
MC 1,5/8-G-3,81	1803332	224	MC 1,5/10-G-3,5 P26 THRR56	1788673	212	MC 1,5/11-STF-3,81	1827790	191	MC 1,5/15-GF-3,81	1803701	190
MC 1,5/8-G-3,81 P14 THR	1782417	214	MC 1,5/10-G-3,5-RN	1731756	225	MC 1,5/11-STF-5,08	1847440	247	MC 1,5/15-GF-3,81-LR	1817178	191
MC 1,5/8-G-3,81 P14 THRR56	1702665	208	MC 1,5/10-G-3,81	1803358	224	MC 1,5/11-STZ4-3,5	1768907	191	MC 1,5/15-GF-3,5	1847259	191
MC 1,5/8-G-3,81 P20 THRR56	1782637	210	MC 1,5/10-G-3,81 P14 THR	1782433	214	MC 1,5/11-STZ4-3,81	1768965	191	MC 1,5/15-STF-3,81	1827839	191
MC 1,5/8-G-3,81 P20 THRR56	1722040	216	MC 1,5/10-G-3,81 P14 THRR56	1702667	208	MC 1,5/12-G-3,5	1844317	224	MC 1,5/15-STF-3,81	1844359	224
MC 1,5/8-G-3,81 P26 THRR56	1782527	212	MC 1,5/10-G-3,81 P20 THRR56	1782653	210	MC 1,5/12-G-3,5 P14 THR	1789148	214	MC 1,5/16-G-3,5-RN	1731811	225
MC 1,5/8-G-5,08	1836244	248	MC 1,5/10-G-3,81 P26 THR	1722066	216	MC 1,5/12-G-3,5 P14 THRR72	1789151	208	MC 1,5/16-G-3,81	1803413	224
MC 1,5/8-GF-3,5	1843855	225	MC 1,5/10-G-3,81 P26 THRR56	1782543	212	MC 1,5/12-G-3,5 P20 THRR72	1788932	210	MC 1,5/16-GF-3,5	1843936	225
MC 1,5/8-GF-3,5 P14 THR	1789724	215	MC 1,5/10-G-3,81 P26 THR	1836260	248	MC 1,5/12-G-3,5 P26 THR	1788709	216	MC 1,5/16-GF-3,5-LR	1817754	225
MC 1,5/8-GF-3,5 P14 THRR56	1789737	209	MC 1,5/10-GF-3,5	1843871	215	MC 1,5/12-G-3,5 P26 THRR72	1788712	212	MC 1,5/16-GF-3,81	1828003	225
MC 1,5/8-GF-3,5 P20 THRR56	1789517	211	MC 1,5/10-GF-3,5 P14 THR	1789766	225	MC 1,5/12-G-3,5-RN	1731772	225	MC 1,5/16-GF-3,81-LR	1817945	225
MC 1,5/8-GF-3,5 P26 THR	1789267	217	MC 1,5/10-GF-3,5 P14 THRR72	1789779	209	MC 1,5/12-G-3,81	1803374	224	MC 1,5/16-GF-3,81	1840502	190
MC 1,5/8-GF-3,5 P26 THRR56	1789290	213	MC 1,5/10-GF-3,5 P20 THRR72	1789559	211	MC 1,5/12-G-3,81 P14 THR	1782459	214	MC 1,5/16-GF-3,81-LR	1816991	191
MC 1,5/8-GF-3,5-LR	1817673	225	MC 1,5/10-GF-3,5 P26 THR	1789326	217	MC 1,5/12-G-3,81 P14 THRR72	1702669	208	MC 1,5/16-GF-3,81-LR	1803714	190
MC 1,5/8-GF-3,81	1827923	225	MC 1,5/10-GF-3,5 P26 THRR72	1789339	213	MC 1,5/12-G-3,81 P20 THRR72	1782679	210	MC 1,5/16-GF-3,81-LR	1817181	191
MC 1,5/8-GF-3,81 P14 THR	1781861	215	MC 1,5/10-GF-3,5-LR	1817699	225	MC 1,5/12-G-3,81 P26 THR	1722082	216	MC 1,5/16-GF-3,81-LR	1847262	191
MC 1,5/8-GF-3,81 P14 THRR56	1782190	209	MC 1,5/10-GF-3,81	1827949	225	MC 1,5/12-G-3,81 P26 THRR72	1782569	212	MC 1,5/16-GF-3,81-LR	1827842	191
MC 1,5/8-GF-3,81 P20 THRR56	1782080	211	MC 1,5/10-GF-3,81 P14 THR	1781887	215	MC 1,5/12-G-5,08	1836286	248	MC 1,5/16-GF-3,81-LR	1852176	206
MC 1,5/8-GF-3,81 P26 THR	1722228	217	MC 1,5/10-GF-3,81 P14 THRR72	1782213	209	MC 1,5/12-GF-3,5	1843897	225	MC 1,5/16-GF-3,81-LR	1852367	207
MC 1,5/8-GF-3,81 P26 THRR56	1781971	213	MC 1,5/10-GF-3,81 P20 THRR72	1782103	211	MC 1,5/12-GF-3,5 P14 THRR72	1789818	209	MCC 1/3-STZ-3,81	1852189	206
MC 1,5/8-GF-3,81-LR	1817864	225	MC 1,5/10-GF-3,81 P26 THR	1722244	217	MC 1,5/12-GF-3,5 P20 THRR72	1789591	211	MC 1,5/12-GF-3,81	1852370	207
MC 1,5/8-GF-5,08	1847521	249	MC 1,5/10-GF-3,81 P26 THRR72	1781997	213	MC 1,5/12-GF-3,5 P26 THR	1789368	215	MCC 1/4-STZ-3,81	1852192	206
MC 1,5/8-ST-3,5	1840421	190	MC 1,5/10-GF-3,81-LR	1817880	225	MC 1,5/12-GF-3,5 P26 THRR72	1789371	213	MCC 1/4-STZF-3,81	1852383	207
MC 1,5/8-ST-3,5-LR	1816917	191	MC 1,5/10-GF-5,08	1847547	249	MC 1,5/12-GF-3,5-LR	1817712	225	MCC 1/5-STZ-3,81	1852202	206
MC 1,5/8-ST-3,81	1803633	190	MC 1,5/10-LWL 1,5-3,5	1841161	244	MC 1,5/12-GF-3,5-LR	1827965	225	MCC 1/5-STZF-3,81	1852396	207
MC 1,5/8-ST-3,81-LR	1817107	191	MC 1,5/10-LWL 1,5-3,81	1841174	245	MC 1,5/12-GF-3,81 P14 THR	1781900	215	MCC 1/6-STZ-3,81	1852215	206
MC 1,5/8-ST-3,81-LR	1836134	247	MC 1,5/10-LWL 2,3-3,5	1841187	244	MC 1,5/12-GF-3,81 P14 THRR72	1782239	209	MCC 1/6-STZF-3,81	1852406	207
MC 1,5/8-ST1-5,08	1900837	246	MC 1,5/10-LWL 2,3-3,81	1841190	245	MC 1,5/12-GF-3,81 P20 THRR72	1782129	211	MCC 1/7-STZ-3,81	1852228	206
MC 1,5/8-STF-3,5	1900947	247	MC 1,5/10-LWL 4-3,5	1841200	244	MC 1,5/12-GF-3,81 P26 THR	1722260	217	MCC 1/7-STZF-3,81	1852419	207
MC 1,5/8-STF-5,08	1847181	191	MC 1,5/10-LWL 4-3,81	1841213	245	MC 1,5/12-GF-3,81 P26 THRR72	1782019	213	MCC 1/8-STZ-3,81	1852231	206
MC 1,5/8-STF-3,81	1827761	191	MC 1,5/10-ST-3,5	1840447	190	MC 1,5/12-GF-3,81-LR	1817903	225	MCC 1/8-STZF-3,81	1852422	207
MC 1,5/8-STF-5,08	1847411	247	MC 1,5/10-ST-3,5-LR	1816933	191	MC 1,5/12-GF-5,08	1847563	249	MCC 1/9-STZ-3,81	1852244	206
MC 1,5/8-STZ-3,5	1765599	191	MC 1,5/10-ST-3,81	1803659	190	MC 1,5/12-ST-3,5	1840463	190	MCC 1/9-STZF-3,81	1852435	207
MC 1,5/8-STZ-3,81	1768952	191	MC 1,5/10-ST-3,81 AU	1879599	692	MC 1,5/12-ST-3,5-LR	1816959	191	MCC 1/10-STZ-3,81	1852257	206
MC 1,5/9-G-3,5	1844281	224	MC 1,5/10-ST-3,81-LR	1817123	191	MC 1,5/12-ST-3,81	1803675	190	MCC 1/10-STZF-3,81	1852448	207
MC 1,5/9-G-3,5 P14 THR	1789083	214	MC 1,5/10-ST-5,08	1836150	246	MC 1,5/12-ST-3,81-LR	1817149	191	MCC 1/11-STZ-3,81	1852260	206
MC 1,5/9-G-3,5 P14 THRR56	1789096	208	MC 1,5/10-ST1-5,08	1900853	247	MC 1,5/12-ST-5,08	1836176	247	MCC 1/11-STZF-3,81	1852451	207
MC 1,5/9-G-3,5 P20 THRR56	1788877	210	MC 1,5/10-ST1F-5,08	1900963	247	MC 1,5/12-ST1-5,08	1900879	246	MCC 1/12-STZ-3,81	1852273	206
MC 1,5/9-G-3,5 P26 THR	1788644	216	MC 1,5/10-STF-3,5	1847204	211	MC 1,5/12-ST1F-5,08	1900989	247	MCC 1/12-STZF-3,81	1852464	207
MC 1,5/9-G-3,5 P26 THRR56	1788657	212	MC 1,5/10-STF-3,81	1827787	191	MC 1,5/12-STF-3,5	1847220	217	MCC 1/13-STZ-3,81	1852286	206
MC 1,5/9-G-3,5-RN	1731743	225	MC 1,5/10-STF-5,08	1847437	247	MC 1,5/12-STF-3,81	1827800	191	MCC 1/13-STZF-3,81	1852477	207
MC 1,5/9-G-3,81	1803345	214	MC 1,5/10-STZ4-3,5	1766255	191	MC 1,5/12-STF-5,08	1847453	247	MCC 1/14-STZ-3,81	1852299	206
MC 1,5/9-G-3,81 P14 THR	1782420	224	MC 1,5/10-STZ4-3,81	1767209	191	MC 1,5/12-STZ4-3,5	1768910	191	MCC 1/14-STZF-3,81	1852480	207
MC 1,5/9-G-3,81 P14 THRR56	1702666	208	MC 1,5/11-G-3,5	1844304	224	MC 1,5/12-STZ4-3,81	1768978	191	MCC 1/15-STZ-3,81	1852309	206
MC 1,5/9-G-3,81 P20 THRR56	1782640	210	MC 1,5/11-G-3,5 P14 THR	1789122	214	MC 1,5/13-G-3,5	1844320	224	MCC 1/15-STZF-3,81	1852493	207
MC 1,5/9-G-3,81 P26 THR	1722053	216	MC 1,5/11-G-3,5 P14 THRR56	1789135	208	MC 1,5/13-G-3,5-RN	1731785	225	MCC 1/16-STZ-3,81	1852312	206
MC 1,5/9-G-3,81 P26 THRR56	1782530	212	MC 1,5/11-G-3,5 P20 THRR56	1789916	210	MC 1,5/13-G-3,81	1803387	224	MCC 1/16-STZF-3,81		

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MCO 1,5/ 3-GL-3,81	1861730	230	MCV 0,5/ 8-G-2,54 SMD R44	1821601	177	MCV 1,5/ 2-GF-3,5 P20 THRR32	1780668	211	MCV 1,5/ 5-GF-3,5	1843253	227	MCV 1,5/11-G-3,81 P14 THR	1707094	215	MCVR 1,5/ 3-ST-3,81	1827130	192	MCVW 1,5/ 3-STF-3,5	1863013	193
MCO 1,5/ 4-GR-3,81	1861659	231	MCV 0,5/ 8-G-2,54 SMDR44C1	1706104	179	MCV 1,5/ 2-GF-3,5 P26 THR	1779064	217	MCV 1,5/ 5-GF-3,5 P14 THR	1779966	215	MCV 1,5/11-G-3,81 P20 THRR72	1825759	211	MCVR 1,5/ 3-STF-3,5	1863314	193	MCVW 1,5/ 3-STF-3,81	1828508	193
MCO 1,5/ 4-G1L-3,5 KMGY	2278364	232	MCV 0,5/ 8-G-2,54 SMDR44C2	1706087	179	MCV 1,5/ 2-GF-3,5 P26 THRR32	1779077	213	MCV 1,5/ 5-GF-3,5 P14 THRR56	1780008	209	MCV 1,5/11-G-3,81 P26 THR	1707515	217	MCVR 1,5/ 3-STF-3,81	1828359	193	MCVW 1,5/ 4-ST-3,5	1862878	193
MCO 1,5/ 4-G1R-3,5 KMGY	2278377	233	MCV 0,5/ 9-G-2,5	1881626	173	MCV 1,5/ 2-GF-3,5-LR	1817990	227	MCV 1,5/ 5-GF-3,5 P20 THRR56	1780723	211	MCV 1,5/11-G-3,81 P26 THRR72	1714003	213	MCVR 1,5/ 4-ST-3,81	1863178	192	MCVW 1,5/ 4-ST-3,81	1862895	193
MCO 1,5/ 4-GL-3,81	1861743	230	MCV 0,5/ 9-G-2,5 THT	1963609	171	MCV 1,5/ 2-GF-3,81	1830596	227	MCV 1,5/ 5-GF-3,5 P26 THR	1779129	217	MCV 1,5/11-G-5,08	1836383	249	MCVR 1,5/ 4-ST-3,81	1827143	192	MCVW 1,5/ 4-STF-3,5	1863026	193
MCO 1,5/ 4-GR-3,81	1861662	231	MCV 0,5/ 9-G-2,5 THT R44	1963829	171	MCV 1,5/ 2-GF-3,81 P14 THR	1707214	215	MCV 1,5/ 5-GF-3,5 P26 THRR56	1779132	213	MCV 1,5/11-GF-3,5	1843318	227	MCVR 1,5/ 4-STF-3,5	1863327	193	MCVW 1,5/ 4-STF-3,81	1828511	193
MCO 1,5/ 5-G1L-3,5 KMGY	2278380	232	MCV 0,5/ 9-G-2,54 P20 THR R44	1821465	177	MCV 1,5/ 2-GF-3,81 P20 THRR32	1825775	215	MCV 1,5/ 5-GF-3,5-LR	1818025	227	MCV 1,5/11-GF-3,5 P14 THR	1780134	215	MCVR 1,5/ 4-STF-3,81	1828362	193	MCVW 1,5/ 5-ST-3,5	1862881	193
MCO 1,5/ 5-G1R-3,5 KMGY	2278351	233	MCV 0,5/ 9-G-2,54 P20 THRR56C1	1706179	179	MCV 1,5/ 2-GF-3,81 P26 THR	1707638	217	MCV 1,5/ 5-GF-3,5	1830622	227	MCV 1,5/11-GF-3,5 P14 THRR72	1780147	209	MCVR 1,5/ 5-ST-3,81	1863181	192	MCVW 1,5/ 5-ST-3,81	1827004	193
MCO 1,5/ 5-GL-3,81	1861756	230	MCV 0,5/ 9-G-2,54 P20 THRR56C2	1706160	179	MCV 1,5/ 2-GF-3,81 P26 THRR32	1713347	213	MCV 1,5/ 5-GF-3,81 P14 THR	1707243	215	MCV 1,5/11-GF-3,5 P20 THRR72	1780846	211	MCVR 1,5/ 5-ST-3,81	1827156	192	MCVW 1,5/ 5-STF-3,5	1863039	193
MCO 1,5/ 5-GR-3,81	1861675	231	MCV 0,5/ 9-G-2,54 SMD R44	1821614	177	MCV 1,5/ 2-GF-3,81-LR	1818180	227	MCV 1,5/ 5-GF-3,81 P26 THRR56	1825801	211	MCV 1,5/11-GF-3,5 P26 THR	1780118	217	MCVR 1,5/ 5-ST-3,81 AU	1893203	692	MCVW 1,5/ 5-STF-3,81	1828524	193
MCO 1,5/ 6-GR-3,81	1861769	230	MCV 0,5/ 9-G-2,54 SMDR56C1	1706103	179	MCV 1,5/ 2-GF-5,08	1847615	249	MCV 1,5/ 5-GF-3,81 P26 THR	1707667	217	MCV 1,5/11-GF-3,5 P26 THRR72	1780121	213	MCVR 1,5/ 5-ST-3,81	1719684	692	MCVW 1,5/ 6-ST-3,5	1862894	193
MCO 1,5/ 6-GR-3,81	1861688	231	MCV 0,5/ 9-G-2,54 SMDR56C2	1706085	179	MCV 1,5/ 3-G-3,5	1843619	226	MCV 1,5/ 5-GF-3,81 P26 THRR56	1713376	213	MCV 1,5/11-GF-3,5-LR	1818083	227	MCVR 1,5/ 5-STF-3,5	1863330	193	MCVW 1,5/ 6-ST-3,81	1827017	193
MCO 1,5/ 7-GL-3,81	1861772	230	MCV 0,5/ 10-G-2,5	1881639	173	MCV 1,5/ 3-G-3,5 P14 THR	1780215	215	MCV 1,5/ 5-GF-3,81-LR	1818216	227	MCV 1,5/11-GF-3,81	1830680	227	MCVR 1,5/ 5-STF-3,81	1828375	193	MCVW 1,5/ 6-STF-3,5	1863042	193
MCO 1,5/ 7-GR-3,81	1861691	231	MCV 0,5/ 10-G-2,5 THT	1963612	171	MCV 1,5/ 3-G-3,5 P14 THRR32	1780228	209	MCV 1,5/ 5-GF-5,08	1847644	249	MCV 1,5/11-GF-3,81 P14 THR	1707308	215	MCVR 1,5/ 5-STF-3,5	1863194	192	MCVW 1,5/ 7-STF-3,81	1828537	193
MCO 1,5/ 8-GL-3,81	1861785	230	MCV 0,5/ 10-G-2,5 THT R44	1963845	171	MCV 1,5/ 3-G-3,5 P20 THRR32	1780901	211	MCV 1,5/ 6-G-3,5	1843648	226	MCV 1,5/11-GF-3,81 P20 THRR72	1825869	211	MCVR 1,5/ 6-ST-3,81	1827169	192	MCVW 1,5/ 7-ST-3,5	1862904	193
MCO 1,5/ 8-GR-3,81	1861701	231	MCV 0,5/ 10-G-2,54 P20 THR R56	1821478	177	MCV 1,5/ 3-G-3,5 P26 THR	1779381	217	MCV 1,5/ 6-G-3,5 P14 THR	1780273	215	MCV 1,5/11-GF-3,81 P26 THR	1707722	217	MCVR 1,5/ 6-STF-3,5	1863343	193	MCVW 1,5/ 7-ST-3,81	1827200	193
MCO 1,5/ 9-GL-3,81	1861798	230	MCV 0,5/ 10-G-2,54 P20 THRR56C1	1706178	179	MCV 1,5/ 3-G-3,5 P26 THRR32	1779394	213	MCV 1,5/ 6-G-3,5 P14 THRR56	1780286	209	MCV 1,5/11-GF-3,81 P26 THRR72	1713431	213	MCVR 1,5/ 6-STF-3,81	1828388	193	MCVW 1,5/ 7-STF-3,5	1863055	193
MCO 1,5/ 9-GR-3,81	1861714	231	MCV 0,5/ 10-G-2,54 P20 THRR56C2	1706159	179	MCV 1,5/ 3-G-3,5-RN	1731484	227	MCV 1,5/ 6-G-3,5 P20 THRR56	1780969	211	MCV 1,5/11-GF-3,81-LR	1818274	227	MCVR 1,5/ 7-ST-3,5	1863204	192	MCVW 1,5/ 7-STF-3,81	1828540	193
MCO 1,5/ 10-GL-3,81	1861808	230	MCV 0,5/ 10-G-2,54 SMD R56	1821627	177	MCV 1,5/ 3-G-3,81	1803439	226	MCV 1,5/ 6-G-3,5 P26 THR	1779446	217	MCV 1,5/11-GF-3,5,08	1847709	249	MCVR 1,5/ 7-ST-3,81	1827172	192	MCVW 1,5/ 8-ST-3,5	1862917	193
MCO 1,5/ 10-GR-3,81	1861727	231	MCV 0,5/ 10-G-2,54 SMDR56C1	1706102	179	MCV 1,5/ 3-G-3,81 P14 THR	1707010	215	MCV 1,5/ 6-G-3,5 P26 THRR56	1779459	213	MCV 1,5/11-GF-3,5	1843703	226	MCVR 1,5/ 7-STF-3,5	1863356	193	MCVW 1,5/ 8-ST-3,81	1827033	193
MCV 0,5/ 2-G-2,5	1881558	173	MCV 0,5/ 10-G-2,54 SMDR56C2	1706084	179	MCV 1,5/ 3-G-3,81 P14 THR R32	1728374	209	MCV 1,5/ 6-G-3,5-RN	1731523	227	MCV 1,5/12-G-3,5 P14 THR	1780096	215	MCVR 1,5/ 7-STF-3,81	1828391	193	MCVW 1,5/ 8-STF-3,5	1863068	193
MCV 0,5/ 2-G-2,5 THT	1963531	171	MCV 0,5/ 11-G-2,5 THT	1963612	173	MCV 1,5/ 3-G-3,81 P20 THRR32	1825678	211	MCV 1,5/ 6-G-3,81	1803468	226	MCV 1,5/12-G-3,5 P14 THRR72	1780406	209	MCVR 1,5/ 8-ST-3,5	1863217	192	MCVW 1,5/ 8-STF-3,81	1828553	193
MCV 0,5/ 2-G-2,5 THT R44	1963751	171	MCV 0,5/ 11-G-2,5 THT R44	1963825	173	MCV 1,5/ 3-G-3,81 P26 THR	1707434	217	MCV 1,5/ 6-G-3,81 P14 THR	1707049	215	MCV 1,5/12-G-3,5 P20 THRR72	1781081	211	MCVR 1,5/ 8-ST-3,81	1827185	192	MCVW 1,5/ 9-ST-3,5	1862920	193
MCV 0,5/ 2-G-2,54 P20 THR R24	1821397	177	MCV 0,5/ 11-G-2,5 THT R44	1963858	171	MCV 1,5/ 3-G-3,81 P26 THRR32	1712843	213	MCV 1,5/ 6-G-3,81 P20 THRR56	1825704	211	MCV 1,5/12-G-3,5 P26 THR	1779569	217	MCVR 1,5/ 8-STF-3,5	1863369	193	MCVW 1,5/ 9-ST-3,81	1827046	193
MCV 0,5/ 2-G-2,54 P20 THRR24C1	1706187	179	MCV 0,5/ 11-G-2,54 P20 THR R56	1821481	177	MCV 1,5/ 3-G-5,08	1836309	249	MCV 1,5/ 6-G-3,81 P26 THR	1707463	217	MCV 1,5/12-G-3,5 P26 THRR72	1779572	213	MCVR 1,5/ 8-STF-3,81	1828401	193	MCVW 1,5/ 9-STF-3,5	1863071	193
MCV 0,5/ 2-G-2,54 P20 THRR24C2	1706169	179	MCV 0,5/ 11-G-2,54 P20 THRR56C1	1706177	179	MCV 1,5/ 3-GF-3,5	1843237	227	MCV 1,5/ 6-G-3,81 P26 THRR56	1712911	213	MCV 1,5/12-G-3,5-RN	1731581	227	MCVR 1,5/ 9-ST-3,5	1863220	192	MCVW 1,5/ 9-STF-3,81	1828566	193
MCV 0,5/ 2-G-2,54 SMD R24	1821546	177	MCV 0,5/ 11-G-2,54 P20 THRR56C2	1706158	179	MCV 1,5/ 3-GF-3,5 P14 THR	1779954	215	MCV 1,5/ 6-G-5,08	1836338	249	MCV 1,5/12-G-3,81	1803523	226	MCVR 1,5/ 9-ST-3,81	1827198	192	MCVW 1,5/ 10-ST-3,5	1862933	193
MCV 0,5/ 2-G-2,54 SMDR24C1	1706113	179	MCV 0,5/ 11-G-2,54 SMD R56	1821630	177	MCV 1,5/ 3-GF-3,5 P14 THRR56	1779967	209	MCV 1,5/ 6-GF-3,5	1843266	227	MCV 1,5/12-G-3,81 P14 THR	1707104	215	MCVR 1,5/ 9-STF-3,5	1863372	193	MCVW 1,5/ 10-ST-3,81	1827059	193
MCV 0,5/ 2-G-2,54 SMDR24C2	1706093	179	MCV 0,5/ 11-G-2,54 SMDR56C1	1706101	179	MCV 1,5/ 3-GF-3,5 P20 THRR56	1780684	211	MCV 1,5/ 6-GF-3,5 P14 THR	1780011	215	MCV 1,5/12-G-3,81 P20 THRR72	1825762	211	MCVR 1,5/ 9-STF-3,81	1828414	192	MCVW 1,5/ 10-STF-3,5	1863084	193
MCV 0,5/ 3-G-2,5	1881561	173	MCV 0,5/ 11-G-2,54 SMDR56C2	1706083	179	MCV 1,5/ 3-GF-3,5 P26 THR	1779800	217	MCV 1,5/ 6-GF-3,5 P14 THRR56	1780024	209	MCV 1,5/12-G-3,5 P26 THR	1707528	217	MCVR 1,5/ 10-STF-3,5	1863233	192	MCVW 1,5/ 10-STF-3,81	1828579	193
MCV 0,5/ 3-G-2,5 THT	1963544	171	MCV 0,5/ 12-G-2,5	1881655	173	MCV 1,5/ 3-GF-3,5 P26 THRR56	1779093	213	MCV 1,5/ 6-GF-3,5 P20 THRR56	1780749	211	MCV 1,5/12-G-3,81 P26 THRR72	1712982	213	MCVR 1,5/ 10-ST-3,81	1827208	192	MCVW 1,5/ 11-ST-3,5	1862946	193
MCV 0,5/ 3-G-2,5 THT R44	1963764	171	MCV 0,5/ 12-G-2,5 THT	1963638	171	MCV 1,5/ 3-GF-3,5-LR	1818009	227	MCV 1,5/ 6-GF-3,5 P26 THR	1779145	217	MCV 1,5/12-G-5,08	1836396	249	MCVR 1,5/ 10-ST-3,81 AU	1893216	692	MCVW 1,5/ 11-ST-3,81	1827062	193
MCV 0,5/ 3-G-2,54 P20 THR R24	1821407	177	MCV 0,5/ 12-G-2,5 THT R44	1963861	171	MCV 1,5/ 3-GF-3,81	1830606	227	MCV 1,5/ 6-GF-3,5 P26 THRR56	1779158	213	MCV 1,5/12-GF-3,5	1843321	227	MCVR 1,5/ 10-ST-3,81 KMGY AU	1936186	692	MCVW 1,5/ 11-STF-3,5	1863097	193
MCV 0,5/ 3-G-2,54 P20 THRR24C1	1706186	179	MCV 0,5/ 12-G-2,54 P20 THR R56	1821494	177	MCV 1,5/ 3-GF-3,81 P14 THR	1707227	215	MCV 1,5/ 6-GF-3,5 P26 THR	1818038	227	MCV 1,5/12-GF-3,5 P14 THR	1780176	215	MCVR 1,5/ 10-STF-3,5	1863385	193	MCVW 1,5/ 11-STF-3,81	1828582	193
MCV 0,5/ 3-G-2,54 P20 THRR24C2	1706168	179	MCV 0,5/ 12-G-2,54 P20 THRR56C1	1706175	179	MCV 1,5/ 3-GF-3,81 P20 THRR56	1825788	211	MCV 1,5/ 6-GF-3,81	1830635	227	MCV 1,5/12-GF-3,5 P14 THRR72	1780189	209	MCVR 1,5/ 10-STF-3,81	1828427	193	MCVW 1,5/ 12-ST-3,5	1862959	193
MCV 0,5/ 3-G-2,54 SMD R24	1821559	177	MCV 0,5/ 12-G-2,54 P20 THRR56C2	1706157	179	MCV 1,5/ 3-GF-3,81 P26 THR	1707641	217	MCV 1,5/ 6-GF-3,81 P14 THR	1707256	215	MCV 1,5/12-GF-3,5-LR	1808627	213	MCVR 1,5/ 11-ST-3,81	1863246	192	MCVW 1,5/ 12-ST-3,81	1827075	193
MCV 0,5/ 3-G-2,54 SMDR24C1	1706111	179	MCV 0,5/ 12-G-2,54 SMD R56	1821643	177	MCV 1,5/ 3-GF-3,81 P26 THRR56	1713350	213	MCV 1,5/ 6-GF-3,81 P20 THRR56	1825814	211	MCV 1,5/12-GF-3,5 P26 THR</								

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MDSTB 2,5/7-G	1846412	326	MDSTBV 2,5/4-GF	1846108	331	MDSTBW 2,5/3-G	1802427	329
MDSTB 2,5/7-G-5,08	1842568	326	MDSTBV 2,5/4-GF-5,08	1845659	331	MDSTBW 2,5/3-G-5,08	1802414	329
MDSTB 2,5/7-G1	1762745	329	MDSTBV 2,5/5-G	1845963	330	MDSTBW 2,5/4-G	1846836	329
MDSTB 2,5/7-G1-5,08	1762428	329	MDSTBV 2,5/5-G-5,08	1762004	330	MDSTBW 2,5/4-G-5,08	1842238	329
MDSTB 2,5/7-GF	1846742	327	MDSTBV 2,5/5-GF	1846111	331	MDSTBW 2,5/5-G	1846849	329
MDSTB 2,5/7-GF-5,08	1842416	327	MDSTBV 2,5/5-GF-5,08	1845662	331	MDSTBW 2,5/5-G-5,08	1840010	329
MDSTB 2,5/8-G	1846425	326	MDSTBV 2,5/5-GF-5,08	1845976	330	MDSTBW 2,5/6-G	1846852	329
MDSTB 2,5/8-G-5,08	1840052	326	MDSTBV 2,5/6-G-5,08	1845523	330	MDSTBW 2,5/6-G-5,08	1842254	329
MDSTB 2,5/8-G1	1762758	329	MDSTBV 2,5/6-G1	1762884	329	MDSTBW 2,5/7-G	1846865	329
MDSTB 2,5/8-G1-5,08	1762431	329	MDSTBV 2,5/6-G1-5,08	1762541	329	MDSTBW 2,5/7-G-5,08	1842267	329
MDSTB 2,5/8-GF	1846755	327	MDSTBV 2,5/6-GF	1846124	331	MDSTBW 2,5/8-G	1846878	329
MDSTB 2,5/8-GF-5,08	1842429	327	MDSTBV 2,5/6-GF-5,08	1845675	331	MDSTBW 2,5/8-G-5,08	1842270	329
MDSTB 2,5/9-G	1846438	326	MDSTBV 2,5/9-G	1845989	330	MDSTBW 2,5/11-G	1846881	329
MDSTB 2,5/9-G-5,08	1842584	326	MDSTBV 2,5/9-G-5,08	1845536	330	MDSTBW 2,5/9-G-5,08	1842283	329
MDSTB 2,5/9-G1	1762761	329	MDSTBV 2,5/9-G1	1762897	329	MDSTBW 2,5/10-G	1846894	329
MDSTB 2,5/9-G1-5,08	1762444	329	MDSTBV 2,5/9-G1-5,08	1762554	329	MDSTBW 2,5/10-G-5,08	1842296	329
MDSTB 2,5/9-GF	1846768	327	MDSTBV 2,5/9-GF	1846137	331	MDSTBW 2,5/11-G	1846904	329
MDSTB 2,5/9-GF-5,08	1842432	327	MDSTBV 2,5/9-GF-5,08	1845688	331	MDSTBW 2,5/11-G-5,08	1842306	329
MDSTB 2,5/10-G	1846441	326	MDSTBV 2,5/9-G	1845992	330	MDSTBW 2,5/12-G	1846917	329
MDSTB 2,5/10-G-5,08	1842597	326	MDSTBV 2,5/8-G-5,08	1845549	330	MDSTBW 2,5/12-G-5,08	1842319	329
MDSTB 2,5/10-G1	1762774	329	MDSTBV 2,5/8-G1	1762907	329	ME 12,5 OT-MKDSO SET	2907457	670
MDSTB 2,5/10-G1-5,08	1762457	329	MDSTBV 2,5/8-G1-5,08	1762567	329	ME 12,5 OT-MSTBO GN	2906814	670
MDSTB 2,5/10-GF	1846771	327	MDSTBV 2,5/8-GF	1846140	331	ME 12,5 OT-MSTBO SET	2907428	670
MDSTB 2,5/10-GF-5,08	1842445	327	MDSTBV 2,5/8-GF-5,08	1845691	331	ME 12,5 OTU-MKDSO GN	2278856	670
MDSTB 2,5/11-G	1846454	326	MDSTBV 2,5/9-G	1846001	330	ME 12,5 UT GN	2906759	658
MDSTB 2,5/11-G-5,08	1842607	326	MDSTBV 2,5/9-G-5,08	1845552	330	ME 12,5 UT/FE GN	2906791	658
MDSTB 2,5/11-G1	1762787	329	MDSTBV 2,5/9-G1	1762910	329	ME 12,5 UTG GN	2906762	658
MDSTB 2,5/11-G1-5,08	1762460	329	MDSTBV 2,5/9-G1-5,08	1762570	329	ME 12,5 UTG/FE GN	2906801	658
MDSTB 2,5/11-GF	1846784	327	MDSTBV 2,5/9-GF	1846153	331	ME 17,5 OT-MSTBO SET	2200322	670
MDSTB 2,5/11-GF-5,08	1842458	327	MDSTBV 2,5/9-GF-5,08	1845701	331	ME 17,5 OT-MKDSO SET	2907460	670
MDSTB 2,5/12-G	1846467	326	MDSTBV 2,5/10-G	1846014	330	ME 17,5 OT-MSTBO GN	2906827	670
MDSTB 2,5/12-G-5,08	1842610	326	MDSTBV 2,5/10-G-5,08	1845565	330	ME 17,5 OT-MSTBO KMGY	2853747	670
MDSTB 2,5/12-G1	1762790	329	MDSTBV 2,5/10-G1	1762923	329	ME 17,5 OT-MSTBO SET	2907431	670
MDSTB 2,5/12-G1-5,08	1762703	329	MDSTBV 2,5/10-G1-5,08	1762583	329	ME 17,5 OTU-MSTBO PS KMGY	2279253	670
MDSTB 2,5/12-GF	1846797	327	MDSTBV 2,5/10-GF	1846166	331	ME 17,5 OTU-MKDSO GN	2278872	670
MDSTB 2,5/12-GF-5,08	1842461	327	MDSTBV 2,5/10-GF-5,08	1845714	331	ME 17,5 OTU-MKDSO KMGY	2278940	670
MDSTB 2,5/13-G1	1762800	329	MDSTBV 2,5/11-G	1846027	330	ME 17,5 PLATE-MSTBO KMGY	2279266	670
MDSTB 2,5/13-G1-5,08	1762473	329	MDSTBV 2,5/11-G-5,08	1845578	330	ME 17,5 TBUS 1,5/5-ST-3,81 KMGY	2713645	666
MDSTB 2,5/14-G1	1762813	329	MDSTBV 2,5/11-G1	1762936	329	ME 17,5 UT GN	2906775	658
MDSTB 2,5/14-G1-5,08	1762486	329	MDSTBV 2,5/11-G1-5,08	1762596	329	ME 17,5 UT TBUS KMGY	2914783	666
MDSTB 2,5/15-G1	1762829	329	MDSTBV 2,5/11-GF	1846179	331	ME 17,5 UT/FE BUS/5 GN	2908728	662
MDSTB 2,5/15-G1-5,08	1762499	329	MDSTBV 2,5/11-GF-5,08	1845727	331	ME 17,5 UT/FE BUS/5+2 GN	2854186	662
MDSTB 2,5/16-G1	1762839	329	MDSTBV 2,5/12-G	1846030	330	ME 17,5 UT/FE BUS/10 GN	2908731	662
MDSTB 2,5/16-G1-5,08	1762509	329	MDSTBV 2,5/12-G-5,08	1845581	330	ME 17,5 UT/FE BUS/10+2 GN	2854199	662
MDSTBA 2,5/2-G	1846519	327	MDSTBA 2,5/12-G1	1762949	329	ME 17,5 UT/FE GN	2906924	658
MDSTBA 2,5/2-G-5,08	1842063	327	MDSTBA 2,5/12-G1-5,08	1762606	329	ME 17,5 UTG GN	2906788	658
MDSTBA 2,5/3-G	1846522	327	MDSTBA 2,5/12-GF	1846182	331	ME 17,5 UTG TBUS KMGY	2914796	666
MDSTBA 2,5/3-G-5,08	1842076	327	MDSTBA 2,5/12-GF-5,08	1845730	331	ME 17,5 UTG/FE GN	2906937	658
MDSTBA 2,5/4-G	1846535	327	MDSTBA 2,5/13-G1	1762952	329	ME 22,5 F-UT/FE BUS/5 GN	2735975	663
MDSTBA 2,5/4-G-5,08	1842089	327	MDSTBA 2,5/13-G1-5,08	1762619	329	ME 22,5 F-UT BUS/5+2 GN	2706014	663
MDSTBA 2,5/5-G	1846548	327	MDSTBA 2,5/14-G1	1762965	329	ME 22,5 F-UT BUS/10 GN	2735991	663
MDSTBA 2,5/5-G-5,08	1842092	327	MDSTBA 2,5/14-G1-5,08	1762622	329	ME 22,5 F-UT BUS/10+2 GN	2706030	663
MDSTBA 2,5/6-G	1846551	327	MDSTBA 2,5/15-G1	1762978	329	ME 22,5 F-UT GN	2854131	659
MDSTBA 2,5/6-G-5,08	1842102	327	MDSTBA 2,5/15-G1-5,08	1762635	329	ME 22,5 F-UT TBUS KMGY	2914835	667
MDSTBA 2,5/7-G	1846564	327	MDSTBA 2,5/16-G1	1762981	329	ME 22,5 F-UT/FE GN	2854160	659
MDSTBA 2,5/7-G-5,08	1842115	327	MDSTBA 2,5/16-G1-5,08	1762648	329	ME 22,5 F-UTG BUS/5 GN	2735988	663
MDSTBA 2,5/8-G	1846577	327	MDSTBA 2,5/2-G	1845785	331	ME 22,5 F-UTG BUS/5+2 GN	2706027	663
MDSTBA 2,5/8-G-5,08	1842128	327	MDSTBA 2,5/2-G-5,08	1845332	331	ME 22,5 F-UTG BUS/10 GN	2736000	663
MDSTBA 2,5/9-G	1846580	327	MDSTBA 2,5/3-G	1845798	331	ME 22,5 F-UTG BUS/10+2 GN	2706043	663
MDSTBA 2,5/9-G-5,08	1842131	327	MDSTBA 2,5/3-G-5,08	1845345	331	ME 22,5 F-UTG GN	2854144	659
MDSTBA 2,5/10-G	1846593	327	MDSTBA 2,5/4-G	1845808	331	ME 22,5 F-UTG TBUS KMGY	2914851	667
MDSTBA 2,5/10-G-5,08	1842144	327	MDSTBA 2,5/4-G-5,08	1845358	331	ME 22,5 F-UTG/FE GN	2854157	659
MDSTBA 2,5/11-G	1846603	327	MDSTBA 2,5/5-G	1845811	331	ME 22,5 OT-1MSTBO GN	2709558	671
MDSTBA 2,5/11-G-5,08	1842157	327	MDSTBA 2,5/5-G-5,08	1845361	331	ME 22,5 OT-1MSTBO KMGY	2914877	671
MDSTBA 2,5/12-G	1846616	327	MDSTBA 2,5/6-G	1845824	331	ME 22,5 OT-1MSTBO SET	2707741	671
MDSTBA 2,5/12-G-5,08	1842160	327	MDSTBA 2,5/6-G-5,08	1845374	331	ME 22,5 OT-3MSTBO GN	2735962	671
MDSTBV 2,5/2-G	1763032	330	MDSTBA 2,5/7-G	1845837	331	ME 22,5 OT-3MSTBO KMGY	2914880	671
MDSTBV 2,5/2-G-5,08	1763074	330	MDSTBA 2,5/7-G-5,08	1845387	331	ME 22,5 OT-3MSTBO SET	2707767	671
MDSTBV 2,5/2-GF	1846085	331	MDSTBA 2,5/8-G	1845840	331	ME 22,5 OT-FKDSO KMGY	2200323	671
MDSTBV 2,5/2-GF-5,08	1845633	331	MDSTBA 2,5/8-G-5,08	1845390	331	ME 22,5 OT-MKDSO SET	2907473	671
MDSTBV 2,5/3-G	1763045	330	MDSTBA 2,5/9-G	1845853	331	ME 22,5 OT-MSTBO GN	2907169	671
MDSTBV 2,5/3-G-5,08	1763087	330	MDSTBA 2,5/9-G-5,08	1845400	331	ME 22,5 OT-MSTBO KMGY	2907761	671
MDSTBV 2,5/3-G1	1736726	329	MDSTBA 2,5/10-G	1845866	331	ME 22,5 OT-MSTBO SET	2907444	671
MDSTBV 2,5/3-G1-5,08	1736742	329	MDSTBA 2,5/10-G-5,08	1845413	331	ME 22,5 OTP-MSTBO PS KMGY	2279282	671
MDSTBV 2,5/3-GF	1846098	331	MDSTBA 2,5/11-G	1845879	331	ME 22,5 OTU-MKDSO GN	2278966	671
MDSTBV 2,5/3-GF-5,08	1845646	331	MDSTBA 2,5/11-G-5,08	1845426	331	ME 22,5 OTU-MKDSO KMGY	2278953	671
MDSTBV 2,5/4-G	1845950	330	MDSTBA 2,5/12-G	1845882	331	ME 22,5 PLATE-MSTBO KMGY	2279279	671
MDSTBV 2,5/4-G-5,08	1845507	330	MDSTBA 2,5/12-G-5,08	1845439	331	ME 22,5 SF-UT GN	2708009	659
MDSTBV 2,5/4-G1	1736739	329	MDSTBW 2,5/2-G	1802443	329	ME 22,5 TBUS 1,5/5-ST-3,81 KMGY	2713722	667

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ME BUS FE CONTACT	2278076	685	ME PS-22,5 FMC TRANS	2279648	675	MKDS 1,5/12-5,08	1715828	95
ME DH 27 NS 35 KMGY	2706289	692	ME PS-22,5 MC TRANS	2279745	675	MKDS 1/2-3,5	1712488	85
ME DH 36 NS 35 KMGY	2706292	692	ME PS-22,5 MSTBT TRANS	2279062	675	MKDS 1/2-3,5 HT BK	1985807	75
ME DH27 NS 35	2908760	692	ME PS-22,5 TVFKC TRANS	2279075	675	MKDS 1/2-3,81	1727010	85
ME DH36 NS 35	2908985	692	ME PS-22,5 TVFKCL TRANS	2279088	675	MKDS 1/2-3,81 HT BK	1985823	75
ME LP	2906908	658	ME TBUS PST 1,5/5-3,81	2279033	684	MKDS 1/2-3,81 SMD BK	1727230	82
ME MAX 12,5 3-3 TBUS KMGY	2279020	684	METBUS PST 1,5/5-3,81 THRR32	2914369	684	MKDS 1/3-3,5	1751251	85
ME MAX 12,5 G 3-3 TBUS KMGY	2279017	684	ME-SAS	2853899	674	MKDS 1/3-3,5 HT BK	1984950	75
ME MAX 17,5 2-2 KMGY	2713599	685	MICROFOX-E	1212494	823	MKDS 1/3-3,81	1727023	85
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MSTBP 2,5/11-ST-5,08	1769104	264	MSTBT 2,5/15-STF-5,08	1805424	265	MSTBV 2,5/ 8-GEH+5,08	1808528	317	MSTBVA 2,5/ 3-G-5,08-RN	1936021	316	MSTBVK 2,5/ 3-GF-5,08	1788965	361	MVSTBR 2,5 HC/ 7-STF-5,08	1912676	493	MVSTBR 2,5/14-ST	1792139	266	MVSTBW 2,5 HC/11-STF	1913044	493
MSTBP 2,5/12-ST	1765878	264	MSTBT 2,5/16-ST	1779974	265	MSTBV 2,5/ 8-GF	1776948	317	MSTBVA 2,5/ 3-G-5,08-RN EX	1796568	375	MSTBVK 2,5/ 4-G-5,08	1788745	360	MVSTBR 2,5 HC/ 8-ST	1912359	492	MVSTBR 2,5/14-ST-5,08	1792362	266	MVSTBW 2,5 HC/11-STF-5,08	1913154	493
MSTBP 2,5/12-ST-5,08	1769117	264	MSTBT 2,5/16-ST-5,08	1781124	265	MSTBV 2,5/ 8-GF-5,08	1777138	317	MSTBVA 2,5/ 4-G-5,08	1944602	316	MSTBVK 2,5/ 4-GF-5,08	1788978	361	MVSTBR 2,5 HC/ 8-ST-5,08	1912469	492	MVSTBR 2,5/14-STF	1835951	267	MVSTBW 2,5 HC/12-ST	1912838	493
MSTBP 2,5/13-ST	1765881	264	MSTBT 2,5/16-STF	1919857	265	MSTBV 2,5/ 8-GF-5,08 EX	1796380	375	MSTBVA 2,5/ 4-G	1755532	315	MSTBVK 2,5/ 5-G-5,08	1788758	360	MVSTBR 2,5 HC/ 8-STF	1912579	493	MVSTBR 2,5/14-STF-5,08	1835216	267	MVSTBW 2,5 HC/12-ST-5,08	1912948	493
MSTBP 2,5/13-ST-5,08	1769120	264	MSTBT 2,5/16-STF-5,08	1805437	265	MSTBV 2,5/ 9-G	1753576	315	MSTBVA 2,5/ 4-G-5,08	1755752	317	MSTBVK 2,5/ 5-GF-5,08	1788981	361	MVSTBR 2,5 HC/ 8-STF-5,08	1912689	493	MVSTBR 2,5/15-ST	1792142	266	MVSTBW 2,5 HC/12-STF	1913057	493
MSTBP 2,5/14-ST	1765894	264	MSTBT 2,5/2-STD-5,08	1824120	356	MSTBV 2,5/ 9-G-5,08	1758089	315	MSTBVA 2,5/ 4-G-5,08-LR	1809283	317	MSTBVK 2,5/ 6-G-5,08	1788761	360	MVSTBR 2,5 HC/ 9-ST	1912362	492	MVSTBR 2,5/15-ST-5,08	1792375	266	MVSTBW 2,5 HC/12-STF-5,08	1913167	493
MSTBP 2,5/14-ST-5,08	1769133	264	MSTBT 2,5/3-STD-5,08	1824133	356	MSTBV 2,5/ 9-GEH-5,08	1808531	317	MSTBVA 2,5/ 4-G-5,08-RN	1936034	316	MSTBVK 2,5/ 6-GF-5,08	1788994	361	MVSTBR 2,5 HC/ 9-ST-5,08	1912472	492	MVSTBR 2,5/15-STF	1835601	267	MVSTBW 2,5 HC/12-STF-5,08	1913057	493
MSTBP 2,5/15-ST	1765904	264	MSTBT 2,5/4-STD-5,08	1824146	356	MSTBV 2,5/ 9-GF	1776951	317	MSTBVA 2,5/ 4-G-5,08-RN EX	1796571	375	MSTBVK 2,5/ 7-G-5,08	1788774	360	MVSTBR 2,5 HC/ 9-STF	1912582	493	MVSTBR 2,5/15-STF-5,08	1835229	267	MVSTBW 2,5/ 2-ST-5,08	1792757	267
MSTBP 2,5/15-ST-5,08	1769146	264	MSTBT 2,5/5-STD-5,08	1824159	356	MSTBV 2,5/ 9-GF-5,08	1777141	317	MSTBVA 2,5/ 4-G-RN	1944615	316	MSTBVK 2,5/ 7-GF-5,08	1789003	361	MVSTBR 2,5 HC/ 9-STF-5,08	1912692	493	MVSTBR 2,5/16-ST	1792155	266	MVSTBW 2,5/ 2-STF	1835287	267
MSTBP 2,5/16-ST	1765917	264	MSTBT 2,5/6-STD-5,08	1824162	356	MSTBV 2,5/ 9-GF-5,08 EX	1796393	375	MSTBVA 2,5/ 5-G	1755545	315	MSTBVK 2,5/ 8-G-5,08	1788787	360	MVSTBR 2,5 HC/ 10-ST	1912375	492	MVSTBR 2,5/16-ST-5,08	1792388	266	MVSTBW 2,5/ 2-STF-5,08	1834903	267
MSTBP 2,5/16-ST-5,08	1769159	264	MSTBT 2,5/7-STD-5,08	1824175	356	MSTBV 2,5/10-G	1753592	315	MSTBVA 2,5/ 5-G-5,08	1755765	315	MSTBVK 2,5/ 8-GF-5,08	1803015	361	MVSTBR 2,5 HC/ 10-ST-5,08	1912485	492	MVSTBR 2,5/16-STF	1835614	267	MVSTBW 2,5/ 2-STF-5,08 EX	1809788	369
MSTBT 2,5 HC/ 2-ST	1926358	491	MSTBU 2,5/ 8-STD-5,08	1824188	356	MSTBV 2,5/10-G-5,08	1758092	315	MSTBVA 2,5/ 5-G-5,08-LR	1809296	317	MSTBVK 2,5/ 9-G-5,08	1788790	360	MVSTBR 2,5 HC/ 10-STF	1912595	493	MVSTBR 2,5/16-STF-5,08	1835232	267	MVSTBW 2,5/ 3-ST	1792537	267
MSTBT 2,5 HC/ 2-STP GY7035	2200334	325	MSTBU 2,5/ 9-STD-5,08	1824191	356	MSTBV 2,5/10-GEH+5,08	1808544	317	MSTBVA 2,5/ 5-G-5,08-RN	1936047	316	MSTBVK 2,5/ 9-GF-5,08	1803044	361	MVSTBR 2,5 HC/ 10-STF-5,08	1912702	493	MVSTBU 2,5/ 2-GB-5,08	1788538	357	MVSTBW 2,5/ 3-ST-5,08	1792760	267
MSTBT 2,5 HC/ 3-ST	1926248	491	MSTBU 2,5/10-STD-5,08	1824201	356	MSTBV 2,5/10-GF	1776964	317	MSTBVA 2,5/ 5-G-5,08-RN EX	1796584	375	MSTBVK 2,5/ 10-G-5,08	1798800	360	MVSTBR 2,5 HC/ 11-ST	1912388	492	MVSTBU 2,5/ 2-GFB-5,08	1788347	357	MVSTBW 2,5/ 3-STF	1835290	267
MSTBT 2,5 HC/ 3-STP GY7035	2200333	325	MSTBU 2,5/11-STD-5,08	1824214	356	MSTBV 2,5/10-GF-5,08	1777154	317	MSTBVA 2,5/ 5-G-RN	1944628	316	MSTBVK 2,5/ 10-GF-5,08	1803031	361	MVSTBR 2,5 HC/ 11-ST-5,08	1912498	492	MVSTBU 2,5/ 3-GB-5,08	1788541	357	MVSTBW 2,5/ 3-STF-5,08	1834916	267
MSTBT 2,5 HC/ 4-ST	1926251	491	MSTBU 2,5/12-STD-5,08	1824227	356	MSTBV 2,5/10-GF-5,08 EX	1796403	375	MSTBVA 2,5/ 6-G	1755558	315	MSTBVK 2,5/ 11-G-5,08	1788813	360	MVSTBR 2,5 HC/ 11-STF	1912605	493	MVSTBU 2,5/ 3-GFB-5,08	1788350	357	MVSTBW 2,5/ 3-STF-5,08 EX	1809791	369
MSTBT 2,5 HC/ 4-STP GY7035	2200332	325	MSTBU 2,5/13-STD-5,08	1824230	356	MSTBV 2,5/11-G	1753615	315	MSTBVA 2,5/ 6-G-5,08	1755778	315	MSTBVK 2,5/ 11-GF-5,08	1803044	361	MVSTBR 2,5 HC/ 11-STF-5,08	1912715	493	MVSTBU 2,5/ 4-GFB-5,08	1788554	357	MVSTBW 2,5/ 4-ST	1792540	267
MSTBT 2,5 HC/ 5-ST	1926264	491	MSTBU 2,5/14-STD-5,08	1824243	356	MSTBV 2,5/11-G-5,08	1758102	315	MSTBVA 2,5/ 6-G-5,08-LR	1809306	317	MSTBVK 2,5/ 12-G-5,08	1788826	360	MVSTBR 2,5 HC/ 12-ST	1912391	492	MVSTBU 2,5/ 4-GFB-5,08	1788363	357	MVSTBW 2,5/ 4-ST-5,08	1792773	267
MSTBT 2,5 HC/ 6-ST	1926277	491	MSTBU 2,5/15-STD-5,08	1826256	356	MSTBV 2,5/11-GEH+5,08	1808557	317	MSTBVA 2,5/ 6-G-5,08-RN	1936050	316	MSTBVK 2,5/ 12-GF-5,08	1803057	361	MVSTBR 2,5 HC/ 12-ST-5,08	1912508	492	MVSTBU 2,5/ 5-GFB-5,08	1788567	357	MVSTBW 2,5/ 4-STEH	1784299	718
MSTBT 2,5 HC/ 7-ST	1926280	491	MSTBU 2,5/16-STD-5,08	1824269	356	MSTBV 2,5/11-GF	1776977	317	MSTBVA 2,5/ 6-G-5,08-RN EX	1796597	375	MSTBVK 2,5/ 13-G-5,08	1788839	360	MVSTBR 2,5 HC/ 12-STF	1912618	493	MVSTBU 2,5/ 5-GFB-5,08	1788376	357	MVSTBW 2,5/ 4-STEH-5,08	1851850	718
MSTBT 2,5 HC/ 8-ST	1926293	491	MSTBU 2,5 HC/ 2-GF	1924415	497	MSTBV 2,5/11-GF-5,08	1777167	317	MSTBVA 2,5/ 6-G-RN	1944631	316	MSTBVK 2,5/ 13-GF-5,08	1803060	361	MVSTBR 2,5 HC/ 12-STF-5,08	1912728	493	MVSTBU 2,5/ 6-GB-5,08	1788570	357	MVSTBW 2,5/ 4-STF	1835300	267
MSTBT 2,5 HC/ 9-ST	1926303	491	MSTBU 2,5 HC/ 2-GF-5,08	1924525	497	MSTBV 2,5/11-GF-5,08 EX	1796416	375	MSTBVA 2,5/ 7-G	1755561	315	MSTBVK 2,5/ 14-G-5,08	1788842	360	MVSTBR 2,5/ 3-STF	1792016	266	MVSTBU 2,5/ 6-GB-5,08	1788389	357	MVSTBW 2,5/ 4-STF-5,08	1834929	267
MSTBT 2,5 HC/ 10-ST	1926316	491	MSTBU 2,5 HC/ 3-GF	1924428	497	MSTBV 2,5/12-G	1753631	315	MSTBVA 2,5/ 7-G-5,08	1755781	315	MSTBVK 2,5/ 14-GF-5,08	1803073	361	MVSTBR 2,5/ 2-ST-5,08	1792249	266	MVSTBU 2,5/ 7-GB-5,08	1788583	357	MVSTBW 2,5/ 4-STF-5,08 EX	1809801	369
MSTBT 2,5 HC/ 11-ST	1926329	491	MSTBU 2,5 HC/ 3-GF-5,08	1924538	497	MSTBV 2,5/12-G-5,08	1758115	315	MSTBVA 2,5/ 7-G-5,08-LR	1809319	317	MSTBVK 2,5/ 15-G-5,08	1788855	360	MVSTBR 2,5/ 2-STF	1835478	267	MVSTBU 2,5/ 7-GFB-5,08	1788392	357	MVSTBW 2,5/ 5-ST	1792553	267
MSTBT 2,5 HC/ 12-ST	1926332	491	MSTBU 2,5 HC/ 4-GF	1924431	497	MSTBV 2,5/12-GEH+5,08	1808560	317	MSTBVA 2,5/ 7-G-5,08-RN	1936063	316	MSTBVK 2,5/ 15-GF-5,08	1803086	361	MVSTBR 2,5/ 2-STF-5,08	1835096	267	MVSTBU 2,5/ 8-GB-5,08	1788596	357	MVSTBW 2,5/ 5-ST-5,08	1792786	267
MSTBT 2,5/ 2-ST	1779835	265	MSTBU 2,5 HC/ 4-GF-5,08	1924541	497	MSTBV 2,5/12-GF-5,08	1776980	317	MSTBVA 2,5/ 7-G-5,08-RN EX	1796607	375	MSTBVK 2,5/ 16-GF-5,08	1788868	360	MVSTBR 2,5/ 2-STF-5,08 EX	1809678	369	MVSTBU 2,5/ 8-GFB-5,08	1788402	357	MVSTBW 2,5/ 5-STF	1835313	267
MSTBT 2,5/ 2-ST-5,08	1779987	265	MSTBU 2,5 HC/ 5-GF	1924444	497	MSTBV 2,5/12-GF-5,08	1777170	317	MSTBVA 2,5/ 7-G-RN	1944644	316	MSTBVK 2,5/ 16-GF-5,08	1803099	361	MVSTBR 2,5/ 3-ST	1792029	266	MVSTBU 2,5/ 9-GB-5,08	1788606	357	MVSTBW 2,5/ 5-STF-5,08	1834932	267
MSTBT 2,5/ 2-STF	1919718	265	MSTBU 2,5 HC/ 5-GF-5,08	1924554	497	MSTBV 2,5/12-GF-5,08 EX	1796429	375	MSTBVA 2,5/ 8-G	1755574	315	MSTBVK 2,5/ 17-G-5,08	1736111	313	MVSTBR 2,5/ 3-ST-5,08	1792252	266	MVSTBU 2,5/ 9-GFB-5,08	1788415	357	MVSTBW 2,5/ 5-STF-5,08 EX	1809814	369
MSTBT 2,5/ 2-STF-5,08	1805301	265	MSTBU 2,5 HC/ 6-GF	1924457	497	MSTBV 2,5/13-G	1753657	315	MSTBVA 2,5/ 8-G-5,08	1755794	315	MSTBVK 2,5/ 18-G-5,08	1735882	313	MVSTBR 2,5/ 3-STF	1835481	267	MVSTBU 2,5/ 10-GB-5,08	1788619	357	MVSTBW 2,5/ 5-STF-5,08 EX	1792566	267
MSTBT 2,5/ 3-ST	1779848	265	MSTBU 2,5 HC/ 6-GF-5,08	1924567	497	MSTBV 2,5/13-G-5,08	1758128	315	MSTBVA 2,5/ 8-G-5,08-LR	1809322	317	MSTBVK 2,5/ 19-G-5,08	1736108	313	MVSTBR 2,5/ 3-STF-5,08	1835106	267	MVSTBU 2,5/ 10-GFB-5,08	1788428	357	MVSTBW 2,5/ 6-ST-5,08	1792799	267
MSTBT 2,5/ 3-ST-5,08	1779990	265	MSTBU 2,5 HC/ 7-GF	1924460	497	MSTBV 2,5/13-GEH+5,08	1808573	317	MSTBVA 2,5/ 8-G-5,08-RN	1936076	316	MSTBVK 2,5/ 20-G-5,08	1735879	313	MVSTBR 2,5/ 3-STF-5,08 EX	1809681	269	MVSTBU 2,5/ 11-GB-5,08	1788622	357	MVSTBW 2,5/ 6-STF	1835326	267
MSTBT 2,5/ 3-STF	1919721	265	MSTBU 2,5 HC/ 7-GF-5,08	1924570	497	MSTBV 2,5/13-GF	1776993	317	MSTBVA 2,5/ 8-G-5,08-RN EX	1796610	375	MSTBVK 2,5/ 21-G-5,08	1736098	313	MVSTBR 2,5/ 4-ST	1792032	266	MVSTBU 2,5/ 11-GFB-5,08	1788431	357	MVSTBW 2,5/ 6-STF-5,08	1834945	267
MSTBT 2,5/ 3-STF-5,08	1805314	265	MSTBU 2,5 HC/ 8-GF	1924473	497	MSTBV 2,5/13-GEH+5,08	1777183	317	MSTBVA 2,5/ 8-G-RN	1944657	316	MSTBVK 2,5/ 22-G-5,08	1735866	313	MVSTBR 2,5/ 4-ST-5,08	1792265	266	MVSTBU 2,5/ 12-GB-5,08	1788635	357	MVSTBW 2,5/ 6-STF-5,08 EX	1809827	369
MSTBT 2,5/ 4-ST	1779851	265	MSTBU 2,5 HC/ 8-GF-5,08	1924583	497	MSTBV 2,5/14-G	1753673	315	MSTBVA 2,5/ 9-G	175585													

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
MVSTBW 2,5/16-STF	1835423	267	PC 4/ 7-G-7,62	1804849	516	PC 5/10-GFU-7,62	1721096	537	PCU 6/ 4-STD-10,16	1922653	552
MVSTBW 2,5/16-STF-5,08	1835041	267	PC 4/ 7-ST-7,62	1804959	512	PC 5/10-GU-7,62	1720767	537	PCU 6/ 5-STD-10,16	1922666	552
MVSTBW 2,5/17-ST	1792676	719	PC 4/ 7-STF-7,62	1828294	513	PC 5/10-ST1-7,62	1777804	524	PCU 6/ 6-STD-10,16	1922679	552
			PC 4/ 8-G-7,62	1804852	516	PC 5/10-STCL1-7,62	1778146	525	PCU 6/ 7-STD-10,16	1922682	552
			PC 4/ 8-ST-7,62	1804962	512	PC 5/10-STF1-7,62	1777914	525	PCU 6/ 8-STD-10,16	1922695	552
			PC 4/ 8-STF-7,62	1828304	513	PC 5/11-G-7,62	1720550	536	PCU 6/ 9-STD-10,16	1922705	552
			PC 4/ 9-G-7,62	1804865	516	PC 5/11-GF-7,62	1720880	537	PCV 35 HC/ 2-GF-15,00	1762796	591
			PC 4/ 9-ST-7,62	1804975	512	PC 5/11-GFU-7,62	1721106	537	PCV 35 HC/ 3-GF-15,00	1762806	591
NS 105/20 UNPERF	2201508	733	PC 4/ 9-STF-7,62	1828317	513	PC 5/11-GU-7,62	1720770	537	PCV 35 HC/ 4-GF-15,00	1762819	591
			PC 4/10-G-7,62	1804878	516	PC 5/11-ST1-7,62	1777817	524	PCV 35 HC/ 5-GF-15,00	1762822	591
			PC 4/10-ST-7,62	1804988	512	PC 5/11-STCL1-7,62	1778159	525	PCV 35 HC/ 6-GF-15,00	1762835	591
			PC 4/10-STF-7,62	1828320	513	PC 5/11-STF1-7,62	1777927	525	PCV 4/ 2-G-7,62	1804687	517
			PC 4/11-G-7,62	1804881	516	PC 5/12-G-7,62	1720563	536	PCV 4/ 3-G-7,62	1804690	517
			PC 4/11-ST-7,62	1804991	512	PC 5/12-GF-7,62	1720893	537	PCV 4/ 4-G-7,62	1804700	517
			PC 4/11-STF-7,62	1828333	513	PC 5/12-GFU-7,62	1721119	537	PCV 4/ 5-G-7,62	1804713	517
			PC 4/12-G-7,62	1804894	516	PC 5/12-GU-7,62	1720783	537	PCV 4/ 6-G-7,62	1804726	517
P 1-EMG 10	2947792	708	PC 4/12-ST-7,62	1805000	512	PC 5/12-ST1-7,62	1777820	524	PCV 4/ 7-G-7,62	1804739	517
P 1-EMG 12	2947187	709	PC 4/12-STF-7,62	1827583	513	PC 5/12-STCL1-7,62	1778162	525	PCV 4/ 8-G-7,62	1804742	517
P 1-EMG 15	2947857	709	PC 5/ 2-G-7,62	1720466	536	PC 5/12-STF1-7,62	1777930	525	PCV 4/ 9-G-7,62	1804755	517
P 1-EMG 17	2946120	709	PC 5/ 2-GF-7,62	1720796	537	PC 5/12-2-G1-10,16	1998933	566	PCV 4/10-G-7,62	1804768	517
P 1-EMG 22	2946188	710	PC 5/ 2-GFU-7,62	1721012	537	PC 6-16/ 2-G1F-10,16	1999000	567	PCV 4/11-G-7,62	1804771	517
P 1-EMG 25	2947190	711	PC 5/ 2-GU-7,62	1720886	537	PC 6-16/ 2-G1FU-10,16	1996317	567	PCV 4/12-G-7,62	1804784	517
P 1-EMG 30	2947912	711	PC 5/ 2-ST1-7,62	1777723	524	PC 6-16/ 2-G1U-10,16	1996236	567	PCV 5/ 2-G-7,62	1720576	538
P 1-EMG 37	2947077	711	PC 5/ 2-STCL1-7,62	1778065	525	PC 6-16/ 3-G1-10,16	1998946	566	PCV 5/ 2-GF-7,62	1720903	539
P 1-EMG 45	2946243	712	PC 5/ 2-STF-SH1-7,62	1778175	525	PC 6-16/ 3-G1F-10,16	1999013	567	PCV 5/ 3-G-7,62	1720589	538
P 1-EMG 50	2947255	713	PC 5/ 2-STF1-7,62	1777833	525	PC 6-16/ 3-G1FU-10,16	1996320	567	PCV 5/ 3-GF-7,62	1720916	539
P 1-EMG 75	2947394	713	PC 5/ 3-G-7,62	1720479	536	PC 6-16/ 3-G1U-10,16	1996249	567	PCV 5/ 4-G-7,62	1720952	538
P 1-EMG 90	2946272	713	PC 5/ 3-GF-7,62	1720806	537	PC 6-16/ 4-G1-10,16	1998959	566	PCV 5/ 4-GF-7,62	1720929	539
P 1-EMG100	2947103	714	PC 5/ 3-GFU-7,62	1721025	537	PC 6-16/ 4-G1F-10,16	1999026	567	PCV 5/ 5-G-7,62	1720602	538
P 1-EMG125	2946010	715	PC 5/ 3-GU-7,62	1720699	537	PC 6-16/ 4-G1FU-10,16	1996333	567	PCV 5/ 5-GF-7,62	1720932	539
P 1-EMG150	2946049	715	PC 5/ 3-ST1-7,62	1777736	524	PC 6-16/ 4-G1U-10,16	1996252	567	PCV 5/ 6-G-7,62	1720615	538
P 1-UEG	2790224	722	PC 5/ 3-STCL1-7,62	1778078	525	PC 6-16/ 5-G1-10,16	1998962	566	PCV 5/ 6-GF-7,62	1720945	539
P 1-UEG-FS/FS	2790428	723	PC 5/ 3-STF-SH1-7,62	1778188	525	PC 6-16/ 5-G1F-10,16	1999039	567	PCV 5/ 7-G-7,62	1720628	538
P 1-UEGH	2757335	726	PC 5/ 3-STF1-7,62	1777846	525	PC 6-16/ 5-G1FU-10,16	1996346	567	PCV 5/ 7-GF-7,62	1720958	539
P 1-UEGM	2792109	724	PC 5/ 4-G-7,62	1720482	536	PC 6-16/ 5-G1U-10,16	1996265	567	PCV 5/ 8-G-7,62	1720631	538
PC 16/ 2-ST-10,16	1967375	554	PC 5/ 4-GF-7,62	1720819	537	PC 6-16/ 6-G1-10,16	1998975	566	PCV 5/ 8-GF-7,62	1720961	539
PC 16/ 2-STF-10,16	1967456	555	PC 5/ 4-GFU-7,62	1721038	537	PC 6-16/ 6-G1F-10,16	1999042	567	PCV 5/ 9-G-7,62	1720644	538
PC 16/ 3-ST-10,16	1967388	554	PC 5/ 4-GU-7,62	1720709	537	PC 6-16/ 6-G1FU-10,16	1996359	567	PCV 5/ 9-GF-7,62	1720974	539
PC 16/ 3-STF-10,16	1967469	555	PC 5/ 4-ST1-7,62	1777749	524	PC 6-16/ 6-G1U-10,16	1996278	567	PCV 5/10-G-7,62	1720657	538
PC 16/ 3-STF-SH-10,16	1737530	555	PC 5/ 4-STCL1-7,62	1778081	525	PC 6-16/ 7-G1-10,16	1998988	566	PCV 5/10-GF-7,62	1720987	539
PC 16/ 4-ST-10,16	1967391	554	PC 5/ 4-STF-SH1-7,62	1778191	525	PC 6-16/ 7-G1F-10,16	1999055	567	PCV 5/11-G-7,62	1720660	538
PC 16/ 4-STF-10,16	1967472	555	PC 5/ 4-STF1-7,62	1777859	525	PC 6-16/ 7-G1FU-10,16	1996362	567	PCV 5/11-GF-7,62	1720990	539
PC 16/ 4-STF-SH-10,16	1970359	555	PC 5/ 5-G-7,62	1720495	536	PC 6-16/ 7-G1U-10,16	1996281	567	PCV 5/12-G-7,62	1720932	539
PC 16/ 5-ST-10,16	1967401	554	PC 5/ 5-GF-7,62	1720822	537	PC 6-16/ 8-G1-10,16	1998991	566	PCV 5/12-GF-7,62	1721009	539
PC 16/ 5-STF-10,16	1967485	555	PC 5/ 5-GFU-7,62	1721041	537	PC 6-16/ 8-G1F-10,16	1999068	567	PCV 6-16/ 2-G1-10,16	1998784	568
PC 16/ 6-ST-10,16	1967414	554	PC 5/ 5-GU-7,62	1720712	537	PC 6-16/ 8-G1FU-10,16	1996375	567	PCV 6-16/ 2-G1F-10,16	1998865	569
PC 16/ 6-STF-10,16	1967498	555	PC 5/ 5-ST1-7,62	1777752	524	PC 6-16/ 8-G1U-10,16	1996294	567	PCV 6-16/ 3-G1-10,16	1998797	568
PC 16/ 7-ST-10,16	1967427	554	PC 5/ 5-STCL1-7,62	1778094	525	PC 6-16/ 9-G1-10,16	1996391	566	PCV 6-16/ 3-G1F-10,16	1998878	569
PC 16/ 7-STF-10,16	1967508	555	PC 5/ 5-STF1-7,62	1777862	525	PC 6-16/ 9-G1F-10,16	1996401	567	PCV 6-16/ 4-G1-10,16	1998807	568
PC 16/ 8-ST-10,16	1967430	554	PC 5/ 6-G-7,62	1720505	536	PC 6-16/ 9-G1FU-10,16	1996388	567	PCV 6-16/ 4-G1F-10,16	1998881	569
PC 16/ 8-STF-10,16	1967511	555	PC 5/ 6-GF-7,62	1720835	537	PC 6-16/ 9-G1U-10,16	1996304	567	PCV 6-16/ 5-G1-10,16	1998810	568
PC 16/ 9-ST-10,16	1967443	554	PC 5/ 6-GFU-7,62	1721054	537	PC 6-16/ 2-ST-10,16	1913507	550	PCV 6-16/ 5-G1F-10,16	1998894	569
PC 16/ 9-STF-10,16	1967524	555	PC 5/ 6-GU-7,62	1720725	537	PC 6/ 2-STF-10,16	1913578	551	PCV 6-16/ 6-G1-10,16	1998823	568
PC 35 HC/ 2-STF-15,00	1762741	590	PC 5/ 6-ST1-7,62	1777765	524	PC 6/ 3-ST-10,16	1913510	550	PCV 6-16/ 6-G1F-10,16	1998904	569
PC 35 HC/ 2-STF-15,00	1762592	586	PC 5/ 6-STCL1-7,62	1778104	525	PC 6/ 3-STF-10,16	1913581	551	PCV 6-16/ 7-G1-10,16	1998836	568
PC 35 HC/ 3-GF-15,00	1762754	590	PC 5/ 6-STF1-7,62	1777875	525	PC 6/ 3-STF-SH-10,16	1973042	551	PCV 6-16/ 7-G1F-10,16	1998917	569
PC 35 HC/ 3-STF-15,00	1762602	586	PC 5/ 7-G-7,62	1720518	536	PC 6/ 4-ST-10,16	1913523	550	PCV 6-16/ 8-G1-10,16	1998849	568
PC 35 HC/ 4-GF-15,00	1762767	590	PC 5/ 7-GF-7,62	1720848	537	PC 6/ 4-STF-10,16	1913594	551	PCV 6-16/ 8-G1F-10,16	1998920	569
PC 35 HC/ 4-GF-SH-15,00	1762851	591	PC 5/ 7-GFU-7,62	1721067	537	PC 6/ 4-STF-SH-10,16	1966431	551	PCV 6-16/ 9-G1-10,16	1998852	568
PC 35 HC/ 4-STF-15,00	1762615	586	PC 5/ 7-GU-7,62	1720738	537	PC 6/ 5-ST-10,16	1913536	550	PCV 6-16/ 9-G1F-10,16	1996414	569
PC 35 HC/ 4-STF-SH-15,00	1762848	587	PC 5/ 7-ST1-7,62	1777778	524	PC 6/ 5-STF-10,16	1913604	551	PCVK 4-7,62	1849998	521
PC 35 HC/ 5-GF-15,00	1762770	590	PC 5/ 7-STCL1-7,62	1778117	525	PC 6/ 6-ST-10,16	1913549	550	PCVK 4,7,62-F	1850000	521
PC 35 HC/ 5-STF-15,00	1762628	586	PC 5/ 7-STF-SH1-7,62	1778201	525	PC 6/ 6-STF-10,16	1913617	551	PCVK 4,7,62-PE	1876246	521
PC 35 HC/ 6-GF-15,00	1762783	590	PC 5/ 7-STF1-7,62	1777888	525	PC 6/ 7-ST-10,16	1913552	550	PLA 5/ 1-7,5	1792216	471
PC 35 HC/ 6-STF-15,00	1762631	586	PC 5/ 8-G-7,62	1720521	536	PC 6/ 7-STF-10,16	1913620	551	PLA 5/ 2-7,5-ZF	1792229	471
PC 4/ 2-G-7,62	1804797	516	PC 5/ 8-GF-7,62	1720851	537	PC 6/ 8-ST-10,16	1913565	550	PLA 5/ 3-7,5-ZF	1792232	471
PC 4/ 2-ST-7,62	1804904	512	PC 5/ 8-GFU-7,62	1721070	537	PC 6/ 8-STF-10,16	1913633	551	PLA 5/ 4-7,5-ZF	1792245	471
PC 4/ 2-STF-7,62	1828249	513	PC 5/ 8-GU-7,62	1720741	537	PC 6/ 8-STF-10,16	1840191	514	PLA 5/ 5-7,5-ZF	1792258	471
PC 4/ 3-G-7,62	1804807	516	PC 5/ 8-ST1-7,62	1777781	524	PCC 4/ 3-ST-7,62	1840188	514	PLA 5/ 6-7,5-ZF	1792261	471
PC 4/ 3-ST-7,62	1804917	512	PC 5/ 8-STCL1-7,62	1778120	525	PCC 4/ 4-ST-7,62	1840175	514	PLA 5/ 7-7,5-ZF	1792274	471
PC 4/ 3-STF-7,62	1828252	513	PC 5/ 8-STF1-7,62	1777891	525	PCC 4/ 5-ST-7,62	1840162	514	PLA 5/ 8-7,5-ZF	1792287	471
PC 4/ 4-G-7,62	1804810	516	PC 5/ 9-G-7,62	1720534	536	PCC 4/ 6-ST-7					

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PT 2,5/10-5,0-H	1935857	427	PTDA 1,5/16-3,5	1725094	407	PTS 1,5/12-PH-5,0	1805614	417	PTSM 0,5/2-P-2,5	1778832	55
PT 2,5/10-5,0-V	1987805	427	PTDA 1,5/16-PH-3,5	1725289	407	PTS-5,08	1876521	164	PTSM 0,5/2-P-2,5 WH	1704853	395
PT 2,5/10-7,5-H	1988189	429	PTDA 2,5/2-5,0	1725302	409	PTSA 0,5/2-2,5-F	1989748	411	PTSM 0,5/3-2,5-H SMD R44	1771033	53
PT 2,5/10-7,5-V	1988037	429	PTDA 2,5/2-2,5-H	1725497	409	PTSA 0,5/2-2,5-Z	1990009	411	PTSM 0,5/3-2,5-H SMD WH R44	1814647	393
PT 2,5/11-5,0-H	1935860	427	PTDA 2,5/3-5,0	1725315	409	PTSA 0,5/3-2,5-F	1989751	411	PTSM 0,5/3-2,5-H THR R32	1770898	51
PT 2,5/11-5,0-V	1987818	427	PTDA 2,5/3-PH-5,0	1725510	409	PTSA 0,5/3-2,5-Z	1990012	411	PTSM 0,5/3-2,5-H THR WH R32	1814508	391
PT 2,5/11-7,5-H	1988192	429	PTDA 2,5/4-5,0	1725328	409	PTSA 0,5/4-2,5-F	1989764	411	PTSM 0,5/3-2,5-V SMD R44	1771101	53
PT 2,5/11-7,5-V	1988040	429	PTDA 2,5/4-PH-5,0	1725523	409	PTSA 0,5/4-2,5-Z	1990025	411	PTSM 0,5/3-2,5-V SMD WH R44	1814715	393
PT 2,5/12-5,0-H	1935873	427	PTDA 2,5/5-5,0	1725341	409	PTSA 0,5/5-2,5-F	1989777	411	PTSM 0,5/3-2,5-V THR R44	1770966	51
PT 2,5/12-5,0-V	1987821	427	PTDA 2,5/5-PH-5,0	1725536	409	PTSA 0,5/5-2,5-Z	1990038	411	PTSM 0,5/3-2,5-V THR WH R44	1814579	391
PT 2,5/12-7,5-H	1988202	429	PTDA 2,5/6-5,0	1725354	409	PTSA 0,5/6-2,5-F	1989780	411	PTSM 0,5/3-HH-2,5-THR R32	1778638	59
PT 2,5/12-7,5-V	1988053	429	PTDA 2,5/6-PH-5,0	1725549	409	PTSA 0,5/6-2,5-Z	1990041	411	PTSM 0,5/3-HH-2,5-THR WH R32	1814854	397
PT 2,5/13-5,0-H	1935886	427	PTDA 2,5/7-5,0	1725367	409	PTSA 0,5/7-2,5-F	1989793	411	PTSM 0,5/3-HH-2,5-SMD R32	1808200	59
PT 2,5/13-5,0-V	1987834	427	PTDA 2,5/7-PH-5,0	1725623	409	PTSA 0,5/7-2,5-Z	1990054	411	PTSM 0,5/3-HH-2,5-SMD WH R32	1814922	397
PT 2,5/14-5,0-H	1935899	427	PTDA 2,5/8-5,0	1725380	409	PTSA 0,5/8-2,5-F	1989803	411	PTSM 0,5/3-HH-2,5-THR R32	1815060	61
PT 2,5/14-5,0-V	1987847	427	PTDA 2,5/8-PH-5,0	1725636	409	PTSA 0,5/8-2,5-Z	1990067	411	PTSM 0,5/3-HH-2,5-THR WH R32	1814993	399
PT 2,5/15-5,0-H	1935909	427	PTDA 2,5/9-5,0	1725393	409	PTSA 0,5/9-2,5-F	1989816	411	PTSM 0,5/3-HH-2,5-SMD R44	1815138	61
PT 2,5/15-5,0-V	1987850	427	PTDA 2,5/9-PH-5,0	1725649	409	PTSA 0,5/9-2,5-Z	1990070	411	PTSM 0,5/3-HH-2,5-SMD WHR44	1815206	399
PT 2,5/16-5,0-H	1935912	427	PTDA 2,5/10-5,0	1725406	409	PTSA 0,5/10-2,5-F	1989829	411	PTSM 0,5/3-HV-2,5-THR R32	1778560	59
PT 2,5/16-5,0-V	1987863	427	PTDA 2,5/10-PH-5,0	1725652	409	PTSA 0,5/10-2,5-Z	1990083	411	PTSM 0,5/3-HV-2,5-THR WH R32	1815277	397
PT/FS 2,8	1406700	723	PTDA 2,5/11-5,0	1725419	409	PTSA 0,5/11-2,5-F	1989832	411	PTSM 0,5/3-P-2,5	1778845	55
PT/FS 6,3	0604707	723	PTDA 2,5/11-PH-5,0	1725665	409	PTSA 0,5/11-2,5-Z	1990096	411	PTSM 0,5/3-P-2,5 WH	1704854	395
PTA 1,5/2-3,5	1988956	419	PTDA 2,5/12-5,0	1725432	409	PTSA 0,5/12-2,5-F	1989845	411	PTSM 0,5/4-2,5-H SMD R24	1702474	53
PTA 1,5/2-5,0	1988804	421	PTDA 2,5/12-PH-5,0	1725678	409	PTSA 0,5/12-2,5-Z	1990106	411	PTSM 0,5/4-2,5-H SMD WH R24	1814650	393
PTA 1,5/3-3,5	1988969	419	PTDA 2,5/13-5,0	1725445	409	PTSA 0,5/13-2,5-F	1989858	411	PTSM 0,5/4-2,5-H THR R32	1770908	51
PTA 1,5/3-5,0	1988817	421	PTDA 2,5/13-PH-5,0	1725640	409	PTSA 0,5/13-2,5-Z	1990119	411	PTSM 0,5/4-2,5-H THR WH R32	1814511	591
PTA 1,5/4-3,5	1988972	419	PTDA 2,5/14-5,0	1725458	409	PTSA 0,5/14-2,5-F	1989861	411	PTSM 0,5/4-2,5-V SMD R44	1771154	393
PTA 1,5/4-5,0	1988820	421	PTDA 2,5/14-PH-5,0	1725653	409	PTSA 0,5/14-2,5-Z	1990122	411	PTSM 0,5/4-2,5-V SMD WH R44	1814728	393
PTA 1,5/5-3,5	1988985	419	PTDA 2,5/15-5,0	1725471	409	PTSA 0,5/15-2,5-F	1989874	411	PTSM 0,5/4-2,5-V THR R44	1770979	51
PTA 1,5/5-5,0	1988833	421	PTDA 2,5/15-PH-5,0	1725666	409	PTSA 0,5/15-2,5-Z	1990135	411	PTSM 0,5/4-2,5-V THR WH R44	1814582	391
PTA 1,5/6-3,5	1988998	419	PTDA 2,5/16-5,0	1725484	409	PTSA 0,5/16-2,5-F	1989887	411	PTSM 0,5/4-HH-2,5-THR R32	1778641	59
PTA 1,5/6-5,0	1988846	421	PTDA 2,5/16-PH-5,0	1725679	409	PTSA 0,5/16-2,5-Z	1990148	411	PTSM 0,5/4-HH-2,5-THR WH R32	1814867	397
PTA 1,5/7-3,5	1989007	419	PTF 0,3/2-WB-1,8-H	1826091	401	PTSA 1,5/2-3,5-F	1984963	413	PTSM 0,5/4-HH-2,5-SMD R32	1808213	59
PTA 1,5/7-5,0	1988859	421	PTF 0,3/4-BB-1,8-H	1826101	401	PTSA 1,5/2-3,5-Z	1985195	413	PTSM 0,5/4-HH-2,5-SMD WH R32	1814935	397
PTA 1,5/8-3,5	1989010	419	PTF 0,3/4-WB-1,8-H	1826114	401	PTSA 1,5/3-3,5-F	1984976	413	PTSM 0,5/4-HH-2,5-THR R32	1815073	61
PTA 1,5/8-5,0	1988862	421	PTPM 0,2/2-P-2,5	1780477	55	PTSA 1,5/3-3,5-Z	1985205	413	PTSM 0,5/4-HH-2,5-THR WH R32	1815002	399
PTA 1,5/9-3,5	1989023	419	PTPM 0,2/4-P-2,5	1780480	55	PTSA 1,5/4-3,5-F	1984989	413	PTSM 0,5/4-HH-2,5-SMD R44	1815141	61
PTA 1,5/9-5,0	1988875	421	PTPM 0,2/5-P-2,5 PA CAT5	1811161	57	PTSA 1,5/4-3,5-Z	1985218	413	PTSM 0,5/4-HH-2,5-SMD WHR44	1815219	399
PTA 1,5/10-3,5	1989036	419	PTPM 0,2/6-P-2,5	1780493	55	PTSA 1,5/5-3,5-F	1984992	413	PTSM 0,5/4-HV-2,5-THR R32	1778573	59
PTA 1,5/10-5,0	1988888	421	PTPM 0,2/8-P-2,5	1780503	55	PTSA 1,5/5-3,5-Z	1985221	413	PTSM 0,5/4-HV-2,5-THR WH R32	1815280	397
PTA 1,5/11-3,5	1989049	419	PTPM 0,2/10-P-2,5	1780516	55	PTSA 1,5/6-3,5-F	1985001	413	PTSM 0,5/4-P-2,5	1778858	55
PTA 1,5/11-5,0	1988891	421	PTPM 0,4/2-P-2,5	1780529	55	PTSA 1,5/6-3,5-Z	1985234	413	PTSM 0,5/4-P-2,5 WH	1704857	395
PTA 1,5/12-3,5	1989052	419	PTPM 0,4/4-P-2,5	1780532	55	PTSA 1,5/7-3,5-F	1985014	413	PTSM 0,5/5-2,5-H SMD R44	1771059	53
PTA 1,5/12-5,0	1988901	421	PTPM 0,4/5-P-2,5 PA CAT5	1811145	57	PTSA 1,5/7-3,5-Z	1985247	413	PTSM 0,5/5-2,5-H SMD WH R44	1814663	393
PTA 1,5/13-3,5	1989065	419	PTPM 0,4/6-P-2,5	1780545	55	PTSA 1,5/8-3,5-F	1985027	413	PTSM 0,5/5-2,5-H THR R32	1770911	51
PTA 1,5/13-5,0	1988914	421	PTPM 0,4/8-P-2,5	1780558	55	PTSA 1,5/8-3,5-Z	1985250	413	PTSM 0,5/5-2,5-H THR WH R32	1814524	391
PTA 1,5/14-3,5	1989078	419	PTPM 0,4/10-P-2,5	1780561	55	PTSA 1,5/9-3,5-F	1985030	413	PTSM 0,5/5-2,5-V SMD R44	1771127	53
PTA 1,5/14-5,0	1988927	421	PTQ 0,3/2-2,5 THR R32	1702610	63	PTSA 1,5/9-3,5-Z	1985263	413	PTSM 0,5/5-2,5-V SMD WH R44	1814731	393
PTA 1,5/15-3,5	1989081	419	PTS 1,5/2-5,0-H	1792863	415	PTSA 1,5/10-3,5-F	1985043	413	PTSM 0,5/5-2,5-V THR R44	1770982	51
PTA 1,5/15-5,0	1988930	421	PTS 1,5/2-7,5-H	1703083	415	PTSA 1,5/10-3,5-Z	1985276	413	PTSM 0,5/5-2,5-V THR WH R44	1814595	391
PTA 1,5/16-3,5	1989094	419	PTS 1,5/2-PH-5,0	1805517	417	PTSA 1,5/11-3,5-F	1985056	413	PTSM 0,5/5-HH-2,5-THR R32	1778654	59
PTA 1,5/16-5,0	1988943	421	PTS 1,5/3-5,0-H	1792876	415	PTSA 1,5/11-3,5-Z	1985289	413	PTSM 0,5/5-HH-2,5-THR WH R32	1814870	397
PTDA 1,5/2-3,5	1724912	407	PTS 1,5/3-7,5-H	1703084	415	PTSA 1,5/12-3,5-F	1985069	413	PTSM 0,5/5-HH-2,5-SMD R32	1808226	59
PTDA 1,5/2-PH-3,5	1725107	407	PTS 1,5/3-PH-5,0	1805520	417	PTSA 1,5/12-3,5-Z	1985292	413	PTSM 0,5/5-HH-2,5-SMD WH R32	1814948	397
PTDA 1,5/3-3,5	1724925	407	PTS 1,5/4-5,0-H	1792889	415	PTSA 1,5/13-3,5-F	1985072	413	PTSM 0,5/5-HH-2,5-THR R32	1815086	61
PTDA 1,5/3-PH-3,5	1725120	407	PTS 1,5/4-7,5-H	1703086	415	PTSA 1,5/13-3,5-Z	1985302	413	PTSM 0,5/5-HH-2,5-THR WH R32	1815015	399
PTDA 1,5/4-3,5	1724938	407	PTS 1,5/4-PH-5,0	1805533	417	PTSA 1,5/14-3,5-F	1985085	413	PTSM 0,5/5-HH-2,5-SMD R44	1815154	61
PTDA 1,5/4-PH-3,5	1725133	407	PTS 1,5/5-5,0-H	1792892	415	PTSA 1,5/14-3,5-Z	1985315	413	PTSM 0,5/5-HH-2,5-SMD WHR44	1815222	399
PTDA 1,5/5-3,5	1724951	407	PTS 1,5/5-7,5-H	1703087	415	PTSA 1,5/15-3,5-F	1985098	413	PTSM 0,5/5-HV-2,5-THR R32	1778586	59
PTDA 1,5/5-PH-3,5	1725146	407	PTS 1,5/5-PH-5,0	1805546	417	PTSA 1,5/15-3,5-Z	1985328	413	PTSM 0,5/5-HV-2,5-THR WH R32	1815293	397
PTDA 1,5/6-3,5	1724964	407	PTS 1,5/6-5,0-H	1792902	415	PTSA 1,5/16-3,5-F	1985108	413	PTSM 0,5/5-P-2,5	1778861	55
PTDA 1,5/6-PH-3,5	1725159	407	PTS 1,5/6-7,5-H	1703088	415	PTSA 1,5/16-3,5-Z	1985331	413	PTSM 0,5/5-P-2,5 WH	1704858	395
PTDA 1,5/7-3,5	1724977	407	PTS 1,5/6-PH-5,0	1805559	417	PTSM 0,5/2-2,5-H SMD R24	1702473	53	PTSM 0,5/6-2,5-H SMD R44	1771062	53
PTDA 1,5/7-PH-3,5	1725172	407	PTS 1,5/7-5,0-H	1792915	415	PTSM 0,5/2-2,5-H SMD WH R24	1814634	393	PTSM 0,5/6-2,5-H SMD WH R44	1814676	393
PTDA 1,5/8-3,5	1724996	407	PTS 1,5/7-7,5-H	1703090	415	PTSM 0,5/2-2,5-V THR R24	1770885	51	PTSM 0,5/6-2,5-H THR R32	1770924	51
PTDA 1,5/8-PH-3,5	1725185	407	PTS 1,5/7-PH-5,0	1805562	417	PTSM 0,5/2-2,5-H THR WH R24	1814498	391	PTSM 0,5/6-2,5-H THR WH R32	1814537	391
PTDA 1,5/9-3,5	1725003	407	PTS 1,5/8-5,0-H	1792928	415	PTSM 0,5/2-2,5-V SMD R44	1771091	53	PTSM 0,5/6-2,5-V SMD R44	1771130	53
PTDA 1,5/9-PH-3,5	1725198	407	PTS 1,5/8-7,5-H	1703091	415	PTSM 0,5/2-2,5-V SMD WH R44	1814702	393	PTSM 0,5/6-2,5-V SMD WH R44	1814744	393
PTDA 1,5/10-3,5	1725016	407	PTS 1,5/8-PH-5,0	1805575	417	PTSM 0,5/2-2,5-V THR R44	1770953	51	PTSM 0,5/6-2,5-V THR R44	1770995	51
PTDA 1,5/10-PH-3,5	1725211</										

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SMC 1,5/15-GF-3,81	1827554	229	SMKDSN 1,5/15	1869198	91	SMSTB 2,5/11-G	1769324	318	SPC 16/ 7-ST-10,16	1711310	562	SPT 16/ 9-V-10,0-ZB	1735943	469	SPT-THR 1,5/2-V-3,81 P26	1822422	79	SPT-THR 1,5/7-V-3,81 P26	1822477	79	SPT-THR 1,5/12-V-3,81 P26	1822529	79
SMC 1,5/16-G-3,81	1827415	228	SMKDSN 1,5/15-5,08	1869347	91	SMSTB 2,5/11-G-5,08	1769557	318	SPC 16/ 7-STF-10,16	1711420	563	SPT 2,5/ 2-H-5,0	1909073	143	SPT-THR 1,5/2-V-5,0 P20 R24	1823418	81	SPT-THR 1,5/7-V-5,0 P20 R56	1823463	81	SPT-THR 1,5/12-V-5,0 P20 R88	1823515	81
SMC 1,5/16-GF-3,81	1827567	229	SMKDSN 1,5/16	1869208	91	SMSTB 2,5/11-ST	1768846	268	SPC 16/ 8-ST-10,16	1711323	562	SPT 2,5/ 3-H-5,0-EX	1732386	163	SPT-THR 1,5/2-V-5,0 P26	1822532	81	SPT-THR 1,5/7-V-5,0 P26	1822587	81	SPT-THR 1,5/12-V-5,0 P26	1822639	81
SMKDS 1,5/ 2-3,5	1931770	87	SMKDSN 1,5/16-5,08	1869350	91	SMSTB 2,5/11-ST-5,08	1826377	268	SPC 16/ 8-STF-10,16	1711433	563	SPT 2,5/ 2-V-5,0	1991095	143	SPT-THR 1,5/2-V-5,08 P20 R24	1823528	81	SPT-THR 1,5/7-V-5,08 P20 R56	1823573	81	SPT-THR 1,5/12-V-5,08 P20 R88	1823625	81
SMKDS 1,5/ 3-3,5	1931783	87	SMKDSN 1,5/ 2	1733415	95	SMSTB 2,5/11-STF	1970964	269	SPC 16/ 9-ST-10,16	1711336	562	SPT 2,5/ 2-V-5,0-EX	1732496	163	SPT-THR 1,5/2-V-5,08 P26	1822642	81	SPT-THR 1,5/7-V-5,08 P26	1822697	81	SPT-THR 1,5/12-V-5,08 P26	1822747	81
SMKDS 1/ 2-3,5	1751099	85	SMKDSN 1,5/ 2-5,08	1733570	95	SMSTB 2,5/11-STF-5,08	1971154	269	SPC 16/ 9-STF-10,16	1711446	563	SPT 2,5/ 3-H-5,0	1990986	143	SPT-THR 1,5/3-H-3,5 P20 R32	1823641	79	SPT-THR 1,5/8-H-3,5 P20 R44	1823686	79	SPT-THR 1,5/12-V-3,81	1821479	139
SMKDS 1/ 2-3,81	1728284	85	SMKDSN 1,5/ 3	1733428	95	SMSTB 2,5/12-G	1769337	318	SPC 5/ 2-ST-7,62	1996016	530	SPT 2,5/ 3-H-5,0-EX	1732399	163	SPT-THR 1,5/3-H-3,5 P26	1822765	78	SPT-THR 1,5/8-H-3,5 P26	1822817	78	SPTA 1,5/2-5,08	1751163	139
SMKDS 1/ 3-3,5	1751109	85	SMKDSN 1,5/ 3-5,08	1733583	95	SMSTB 2,5/12-G-5,08	1769560	318	SPC 5/ 2-STCL-7,62	1718481	531	SPT 2,5/ 3-V-5,0	1991105	143	SPT-THR 1,5/3-H-3,81 P20 R32	1823751	79	SPT-THR 1,5/8-H-3,81 P20 R44	1823803	79	SPTA 1,5/3-3,81	1751480	139
SMKDS 1/ 3-3,81	1728297	85	SMKDSN 1,5/ 4	1733431	95	SMSTB 2,5/12-ST	1768859	268	SPC 5/ 2-STF-7,62	1996126	531	SPT 2,5/ 3-V-5,0-EX	1732506	163	SPT-THR 1,5/3-H-3,81 P26	1822875	78	SPT-THR 1,5/8-H-3,81 P26	1822927	78	SPTA 1,5/3-5,08	1744442	139
SMKDS 1/ 4-3,5	1751112	85	SMKDSN 1,5/ 4-5,08	1733596	95	SMSTB 2,5/12-STF-5,08	1826380	268	SPC 5/ 3-ST-7,62	1996029	530	SPT 2,5/ 4-H-5,0	1990999	143	SPT-THR 1,5/3-H-5,0 P20 R32	1823861	81	SPT-THR 1,5/8-H-5,0 P20 R56	1823913	81	SPTA 1,5/4-3,81	1751493	139
SMKDS 1/ 4-3,81	1728307	85	SMKDSN 1,5/ 5	1733444	95	SMSTB 2,5/12-STF	1970977	269	SPC 5/ 3-STCL-7,62	1718494	531	SPT 2,5/ 4-H-5,0-EX	1732409	163	SPT-THR 1,5/3-H-5,0 P26	1822985	80	SPT-THR 1,5/8-H-5,0 P26	1823036	80	SPTA 1,5/4-5,08	1751189	139
SMKDS 1/ 5-3,5	1751125	85	SMKDSN 1,5/ 5-5,08	1733606	95	SMSTB 2,5/12-STF-5,08	1971167	269	SPC 5/ 3-STF-7,62	1996139	531	SPT 2,5/ 4-V-5,0	1991118	143	SPT-THR 1,5/3-H-5,08 P20 R32	1823971	81	SPT-THR 1,5/8-H-5,08 P20 R56	1824022	81	SPTA 1,5/5-3,81	1751503	139
SMKDS 1/ 5-3,81	1728310	85	SMKDSN 1,5/ 6	1733457	95	SMSTB 2,5/13-G	1769340	318	SPC 5/ 4-ST-7,62	1996045	530	SPT 2,5/ 4-V-5,0-EX	1732512	163	SPT-THR 1,5/3-H-5,08 P26	1823094	80	SPT-THR 1,5/8-H-5,08 P26	1823146	80	SPTA 1,5/5-5,08	1751192	139
SMKDS 1/ 6-3,5	1751138	85	SMKDSN 1,5/ 6-5,08	1733619	95	SMSTB 2,5/13-G-5,08	1769573	318	SPC 5/ 4-STCL-7,62	1718504	531	SPT 2,5/ 5-H-5,0	1991008	143	SPT-THR 1,5/3-V-3,5 P20 R24	1823201	79	SPT-THR 1,5/8-V-3,5 P20 R72	1823256	79	SPTA 1,5/6-3,81	1751516	139
SMKDS 1/ 6-3,81	1728323	85	SMKDSN 1,5/ 7	1733460	95	SMSTB 2,5/13-ST	1768862	268	SPC 5/ 4-STF-7,62	1996142	531	SPT 2,5/ 5-H-5,0-EX	1732412	163	SPT-THR 1,5/3-V-3,5 P26	1822325	79	SPT-THR 1,5/8-V-3,5 P26	1822370	79	SPTA 1,5/6-5,08	1751202	139
SMKDS 1/ 7-3,5	1751141	85	SMKDSN 1,5/ 7-5,08	1733622	95	SMSTB 2,5/13-ST-5,08	1826393	268	SPC 5/ 4-STF-SH-7,62	1704071	531	SPT 2,5/ 5-V-5,0	1991121	143	SPT-THR 1,5/3-V-3,81 P20 R24	1823311	79	SPT-THR 1,5/8-V-3,81 P20 R72	1823366	79	SPTA 1,5/7-3,81	1743184	139
SMKDS 1/ 7-3,81	1728336	85	SMKDSN 1,5/ 8	1733473	95	SMSTB 2,5/13-STF	1970980	269	SPC 5/ 5-ST-7,62	1996045	530	SPT 2,5/ 5-V-5,0-EX	1732522	163	SPT-THR 1,5/3-V-3,81 P26	1822435	79	SPT-THR 1,5/8-V-3,81 P26	1822480	79	SPTA 1,5/7-5,08	1751215	139
SMKDS 1/ 8-3,5	1751154	85	SMKDSN 1,5/ 8-5,08	1733635	95	SMSTB 2,5/13-STF-5,08	1971170	269	SPC 5/ 5-STCL-7,62	1718517	531	SPT 2,5/ 6-H-5,0	1991011	143	SPT-THR 1,5/3-V-5,0 P20 R32	1823421	81	SPT-THR 1,5/8-V-5,0 P20 R88	1823476	81	SPTA 1,5/8-3,81	1751299	139
SMKDS 1/ 8-3,81	1728349	85	SMKDSN 1,5/ 9	1733486	95	SMSTB 2,5/14-G	1769353	318	SPC 5/ 5-STF-7,62	1996155	531	SPT 2,5/ 6-H-5,0-EX	1732425	163	SPT-THR 1,5/3-V-5,0 P26	1822545	81	SPT-THR 1,5/8-V-5,0 P26	1822590	81	SPTA 1,5/8-5,08	1751528	139
SMKDS 1/ 9-3,5	1751167	85	SMKDSN 1,5/ 9-5,08	1733648	95	SMSTB 2,5/14-G-5,08	1769586	318	SPC 5/ 6-ST-7,62	1996058	530	SPT 2,5/ 6-V-5,0	1991134	143	SPT-THR 1,5/3-V-5,08 P20 R32	1823531	81	SPT-THR 1,5/8-V-5,08 P20 R88	1823586	81	SPTA 1,5/9-3,81	1751532	139
SMKDS 1/ 9-3,81	1728352	85	SMKDSN 1,5/10	1733499	95	SMSTB 2,5/14-ST	1768875	268	SPC 5/ 6-STCL-7,62	1718520	531	SPT 2,5/ 6-V-5,0-EX	1732535	163	SPT-THR 1,5/3-V-5,08 P26	1822655	81	SPT-THR 1,5/8-V-5,08 P26	1822707	81	SPTA 1,5/9-5,08	1751231	139
SMKDS 1/10-3,5	1751170	85	SMKDSN 1,5/10-5,08	1733651	95	SMSTB 2,5/14-STF-5,08	1826403	268	SPC 5/ 6-STF-7,62	1996168	531	SPT 2,5/ 7-H-5,0	1991024	143	SPT-THR 1,5/4-H-3,5 P20 R24	1823654	79	SPT-THR 1,5/9-H-3,5 P20 R72	1823706	79	SPTA 1,5/10-3,81	1751545	139
SMKDS 1/10-3,81	1728365	85	SMKDSN 1,5/11	1733509	95	SMSTB 2,5/14-STF	1970993	269	SPC 5/ 7-ST-7,62	1996061	530	SPT 2,5/ 7-H-5,0-EX	1732438	163	SPT-THR 1,5/4-H-3,5 P26	1822778	78	SPT-THR 1,5/9-H-3,5 P26	1822820	78	SPTA 1,5/10-5,08	1751244	139
SMKDS 1/11-3,5	1751183	85	SMKDSN 1,5/11-5,08	1733664	95	SMSTB 2,5/14-STF-5,08	1971183	269	SPC 5/ 7-STCL-7,62	1718533	531	SPT 2,5/ 7-V-5,0	1991147	143	SPT-THR 1,5/4-H-3,81 P20 R32	1823764	79	SPT-THR 1,5/9-H-3,81 P20 R72	1823816	79	SPTA 1,5/11-3,81	1743197	139
SMKDS 1/11-3,81	1728378	85	SMKDSN 1,5/12	1733512	95	SMSTB 2,5/15-G	1769366	318	SPC 5/ 7-STF-7,62	1996171	531	SPT 2,5/ 7-V-5,0-EX	1732548	163	SPT-THR 1,5/4-H-3,81 P26	1822888	78	SPT-THR 1,5/9-H-3,81 P26	1822930	78	SPTA 1,5/11-5,08	1751257	139
SMKDS 1/12-3,5	1751196	85	SMKDSN 1,5/12-5,08	1733677	95	SMSTB 2,5/15-G-5,08	1769599	318	SPC 5/ 8-ST-7,62	1996074	530	SPT 2,5/ 8-H-5,0	1991037	143	SPT-THR 1,5/4-H-5,0 P20 R32	1823874	81	SPT-THR 1,5/9-H-5,0 P20 R88	1823926	81	SPTA 1,5/12-3,81	1751558	139
SMKDS 1/12-3,81	1728381	85	SMSTB 2,5/ 2-G	1769230	318	SMSTB 2,5/15-ST	1768888	268	SPC 5/ 8-STCL-7,62	1718546	531	SPT 2,5/ 8-H-5,0-EX	1732441	163	SPT-THR 1,5/4-H-5,0 P26	1822998	80	SPT-THR 1,5/9-H-5,0 P26	1823049	80	SPTA 1,5/12-5,08	1751464	139
SMKDS 1/13-3,5	1751206	85	SMSTB 2,5/ 2-G-5,08	1769463	318	SMSTB 2,5/15-ST-5,08	1826416	268	SPC 5/ 8-STF-7,62	1996184	531	SPT 2,5/ 8-V-5,0	1991150	143	SPT-THR 1,5/4-H-5,08 P20 R32	1823984	81	SPT-THR 1,5/9-H-5,08 P20 R88	1824035	81	SPTA 1/ 2-3,5	1752104	137
SMKDS 1/14-3,5	1751219	85	SMSTB 2,5/ 2-ST	1769243	318	SMSTB 2,5/15-STF	1971002	269	SPC 5/ 9-ST-7,62	1996087	530	SPT 2,5/ 8-V-5,0-EX	1732551	163	SPT-THR 1,5/4-H-5,08 P26	1823104	80	SPT-THR 1,5/9-H-5,08 P26	1823159	80	SPTA 1/ 2-5,0	1752214	137
SMKDS 1/15-3,5	1751222	85	SMSTB 2,5/ 2-ST-5,08	1826283	268	SMSTB 2,5/15-STF-5,08	1971196	269	SPC 5/ 9-STCL-7,62	1718559	531	SPT 2,5/ 9-H-5,0	1991040	143	SPT-THR 1,5/4-V-3,5 P20 R44	1823214	79	SPT-THR 1,5/9-V-3,5 P20 R72	1823269	79	SPTA 1/ 3-3,5	1752117	137
SMKDS 1/16-3,5	1751235	85	SMSTB 2,5/ 2-STF	1970870	269	SMSTB 2,5/16-G	1769379	318	SPC 5/ 9-STF-7,62	1996197	531	SPT 2,5/ 9-H-5,0-EX	1732454	163	SPT-THR 1,5/4-V-3,5 P26	1822338	79	SPT-THR 1,5/9-V-3,5 P26	1822383	79	SPTA 1/ 3-5,0	1752227	137
SMKDS 2,5/ 2-5,08	1705469	103	SMSTB 2,5/ 2-STF-5,08	1971060	269	SMSTB 2,5/16-G-5,08	1769609	318	SPC 5/10-ST-7,62	1996090	530	SPT 2,5/ 9-V-5,0	1991163	143	SPT-THR 1,5/4-V-3,81 P20 R44	1823324	79	SPT-THR 1,5/9-V-3,81 P20 R72	1823379	79	SPTA 1/ 4-3,5	1752120	137
SMKDS 2,5/ 3-5,08	1705472	103	SMSTB 2,5/ 3-G	1769243	318	SMSTB 2,5/16-ST	1768891	268	SPC 5/10-STCL-7,62	1718562	531	SPT 2,5/ 9-V-5,0-EX	1732564	163	SPT-THR 1,5/4-V-3,81 P26	1822448	79	SPT-THR 1,5/9-V-3,81 P26	1822493	79	SPTA 1/ 4-5,0	1752230	137
SMKDS 2,5/ 4-5,08	1995664	103	SMSTB 2,5/ 3-G-5,08	1769476	318	SMSTB 2,5/16-ST-5,08	1826429	268	SPC 5/10-STF-7,62	1996207	531	SPT 2,5/10-H-5,0	1991053	143	SPT-THR 1,5/4-V-5,0 P20 R56	1823434	81	SPT-THR 1,5/9-V-5,0 P20 R88	1823489	8			

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TFKC 2,5/ 4-ST-5,08	1962626	284	TMSTBP 2,5/ 9-STF-5,08	1853175	271	TVMSTB 2,5/ 7-ST-5,08	1719053	271	UM-ALU 4 FOOT	2200974	744
TFKC 2,5/ 4-STF-5,08	1962710	285	TMSTBP 2,5/10-ST-5,08	1853094	270	TVMSTB 2,5/ 7-STF-5,08	1719147	271	UM-ALU 4 LID45 PA BK	2200971	745
TFKC 2,5/ 5-ST-5,08	1962639	284	TMSTBP 2,5/10-STF-5,08	1853188	271	TVMSTB 2,5/ 8-ST-5,08	1719066	271	UM-ALU 4 LID75 PA BK	2200972	744
TFKC 2,5/ 5-ST-5,08 AU	1965461	284	TPC 16/ 4-ST-10,16	1715170	556	TVMSTB 2,5/ 8-STF-5,08	1719150	271	UM-ALU 4 PE CONTACT	2200973	744
TFKC 2,5/ 5-STF-5,08	1962723	285	TPC 16/ 2-STF-10,16	1715251	557	TVMSTB 2,5/ 9-ST-5,08	1719079	271	UM-ALU 4-100,5 COVER AL	2200951	744
TFKC 2,5/ 5-STF-5,08 AU	1962590	285	TPC 16/ 3-ST-10,16	1715183	556	TVMSTB 2,5/ 9-STF-5,08	1719163	271	UM-ALU 4-100,5 COVER PA BK	2200952	744
TFKC 2,5/ 6-ST-5,08	1962642	284	TPC 16/ 3-STF-10,16	1715264	557	TVMSTB 2,5/10-ST-5,08	1719082	271	UM-ALU 4-100,5 FRONT 130	2200946	744
TFKC 2,5/ 6-STF-5,08	1962736	285	TPC 16/ 4-ST-10,16	1715196	556	TVMSTB 2,5/10-STF-5,08	1719176	271	UM-ALU 4-100,5 FRONT 165	2200947	744
TFKC 2,5/ 7-ST-5,08	1962655	284	TPC 16/ 4-STF-10,16	1715277	557				UM-ALU 4-100,5 FRONT 200	2200948	744
TFKC 2,5/ 7-STF-5,08	1962749	285	TPC 16/ 5-ST-10,16	1715206	556				UM-ALU 4-100,5 FRONT 235	2200949	744
TFKC 2,5/ 7-STF-5,08 AU	1765748	285	TPC 16/ 5-STF-10,16	1715280	557				UM-ALU 4-100,5 FRONT 242,5	2200943	744
TFKC 2,5/ 8-ST-5,08	1962668	284	TPC 16/ 6-ST-10,16	1715219	556				UM-ALU 4-100,5 FRONT 60	2200944	744
TFKC 2,5/ 8-STF-5,08	1962752	285	TPC 16/ 6-STF-10,16	1715293	557	UEG 20	2790211	722	UM-ALU 4-100,5 FRONT 95	2200945	744
TFKC 2,5/ 8-STF-5,08 AU	1710272	285	TPC 16/ 7-ST-10,16	1715224	556	UEG 20-FS/FS	2790266	723	UM-ALU 4-100,5 FRONT 990	2200950	744
TFKC 2,5/ 9-ST-5,08	1962671	284	TPC 16/ 7-STF-10,16	1715303	557	UEG 30/1	2790871	723	UM-ALU 4-100,5 PROFILE 130	2200938	744
TFKC 2,5/ 9-STF-5,08	1962765	285	TPC 16/ 8-ST-10,16	1715235	556	UEG 30/1-FS/FS	2790884	723	UM-ALU 4-100,5 PROFILE 165	2200939	744
TFKC 2,5/10-ST-5,08	1962684	284	TPC 16/ 8-STF-10,16	1715316	557	UEG 30/2	2790240	723	UM-ALU 4-100,5 PROFILE 200	2200940	744
TFKC 2,5/10-STF-5,08	1962778	285	TPC 16/ 9-ST-10,16	1715248	556	UEG 30/2-FS/FS	2790279	723	UM-ALU 4-100,5 PROFILE 235	2200941	744
TFMC 1,5/ 2-ST-3,5	1772618	202	TPC 16/ 9-STF-10,16	1715329	557	UEG-EU-BE	2956819	739	UM-ALU 4-100,5 PROFILE 42,5	2200935	744
TFMC 1,5/ 2-ST-3,5	1772702	203	TPC 16/ 4-ST-10,16	1715245	557	UEG-EU-SE	2956822	739	UM-ALU 4-100,5 PROFILE 60	2200936	744
TFMC 1,5/ 3-ST-3,5	1772621	202	TSPC 5/ 2-STCL-7,62	1765418	533	UEG-EU-VS	5028883	739	UM-ALU 4-100,5 PROFILE 95	2200937	744
TFMC 1,5/ 3-STF-3,5	1772715	203	TSPC 5/ 2-STF-7,62	1728206	533	UEG-MT-FS	2790389	724	UM-ALU 4-100,5 PROFILE 990	2200942	744
TFMC 1,5/ 4-ST-3,5	1772834	202	TSPC 5/ 3-ST-7,62	1728468	532	UEGH 22,5	2757102	726	UM-ALU 4-72 COVER AL	2200933	744
TFMC 1,5/ 4-STF-3,5	1772728	203	TSPC 5/ 3-STCL-7,62	1765421	533	UEGH 25	2757115	726	UM-ALU 4-72 COVER PA BK	2200934	744
TFMC 1,5/ 5-ST-3,5	1772647	202	TSPC 5/ 3-STF-7,62	1728219	533	UEGH 27,5-SMD	2757128	726	UM-ALU 4-72 FRONT 130	2200928	744
TFMC 1,5/ 5-STF-3,5	1772731	203	TSPC 5/ 4-ST-7,62	1728471	532	UEGH 40/1	2757144	727	UM-ALU 4-72 FRONT 165	2200929	744
TFMC 1,5/ 6-ST-3,5	1772650	202	TSPC 5/ 4-STCL-7,62	1765434	533	UEGH 40/2	2757131	727	UM-ALU 4-72 FRONT 200	2200930	744
TFMC 1,5/ 6-STF-3,5	1772744	203	TSPC 5/ 4-STF-7,62	1728222	533	UEGH 42,5/1-SMD	2757157	727	UM-ALU 4-72 FRONT 235	2200931	744
TFMC 1,5/ 7-ST-3,5	1772663	202	TSPC 5/ 5-ST-7,62	1728484	532	UEGH 42,5/2-SMD	2757160	727	UM-ALU 4-72 FRONT 42,5	2200925	744
TFMC 1,5/ 7-STF-3,5	1772757	203	TSPC 5/ 5-STCL-7,62	1765447	533	UEGH 45/2-SMD	2757173	727	UM-ALU 4-72 FRONT 60	2200926	744
TFMC 1,5/ 8-ST-3,5	1772676	202	TSPC 5/ 5-STF-7,62	1728235	533	UEGM 22,5	2792002	724	UM-ALU 4-72 FRONT 95	2200927	744
TFMC 1,5/ 8-STF-3,5	1772760	203	TSPC 5/ 6-ST-7,62	1728497	532	UEGM 22,5-FS/FS	2792073	725	UM-ALU 4-72 FRONT 990	2200932	744
TFMC 1,5/ 9-ST-3,5	1772689	202	TSPC 5/ 6-STCL-7,62	1765450	533	UEGM 25	2792015	724	UM-ALU 4-72 PROFILE 130	2200920	744
TFMC 1,5/ 9-STF-3,5	1772773	203	TSPC 5/ 6-STF-7,62	1728248	533	UEGM 25-FS/FS	2792086	725	UM-ALU 4-72 PROFILE 165	2200921	744
TFMC 1,5/10-ST-3,5	1772692	202	TSPC 5/ 7-ST-7,62	1728507	533	UEGM 27,5-SMD	2757063	724	UM-ALU 4-72 PROFILE 200	2200922	744
TFMC 1,5/10-STF-3,5	1772786	203	TSPC 5/ 7-STCL-7,62	1765463	533	UEGM 40/1	2792112	725	UM-ALU 4-72 PROFILE 235	2200923	744
THERMOMARK ROLL	5146477	820	TSPC 5/ 7-STF-7,62	1728251	533	UEGM 40/1-FS/FS	2792125	725	UM-ALU 4-72 PROFILE 42,5	2200917	744
THERMOMARK ROLL X1	5146723	821	TSPC 5/ 8-ST-7,62	1728510	532	UEGM 40/2	2792028	725	UM-ALU 4-72 PROFILE 60	2200918	744
THERMOMARK ROLL X1 CUTTER	5146765	821	TSPC 5/ 8-STCL-7,62	1765476	533	UEGM 40/2-FS/FS	2792099	725	UM-ALU 4-72 PROFILE 95	2200919	744
THERMOMARK ROLL X1 CUTTER/P	5146766	821	TSPC 5/ 8-STF-7,62	1728264	533	UEGM-MSTB	2781453	728	UM-ALU 4-72 PROFILE 990	2200924	744
THERMOMARK ROLL X1-CASE	5146724	821	TSPC 5/ 9-ST-7,62	1728523	532	UEGM-MSTB-BS	2781466	728	UM-ALU 6-161 MOUNT 150 GY	2201332	769
THERMOMARK ROLL-CUTTER	5146422	820	TSPC 5/ 9-STCL-7,62	1765489	533	UM-PROFIL	2952020	754	UM-ALU 6-161 MOUNT 200 GY	2201334	769
THERMOMARK ROLL-CUTTER/P	5146435	820	TSPC 5/ 9-STF-7,62	1728277	533	UM 25-PROFIL 100CM	2951795	754	UM-BASIC PROFILE	2200149	748
THERMOMARK ROLL-ERH	5146448	820	TSPC 5/10-ST-7,62	1728536	532	UM 25-SEK	2959298	754	UM-BE 16,5	2956903	762
THERMOMARK-ERH 500	5146309	820	TSPC 5/10-STCL-7,62	1765492	533	UM 25-SES	2959285	754	UM-BE 16,5-1	2958053	763
THERMOMARK-RIBBON 110	5145384	814	TSPC 5/10-STF-7,62	1728280	533	UM 25/45-FEO 200	2959434	754	UM-BE 35	2955577	762
THERMOMARK-RIBBON 110 BU	0829544	820	TSPC 5/11-ST-7,62	1728549	532	UM 45-PROFIL 100CM	2914550	755	UM-BE 35-1	2956657	763
THERMOMARK-RIBBON 110 GN	0829542	820	TSPC 5/11-STCL-7,62	1765502	533	UM 45-SE	2906131	755	UM-BEFE 35	2955564	762
THERMOMARK-RIBBON 110 RD	0829543	820	TSPC 5/11-STF-7,62	1728293	533	UM 45-SEAS	2907554	755	UM-BEFE 35-1	2956660	763
THERMOMARK-RIBBON 110-EMIL-HT0800342	0801360	810	TSPC 5/12-ST-7,62	1728552	532	UM 45-SEFE	2907826	755	UM-H	2955441	762
THERMOMARK-RIBBON 110-WMSU	0801358	820	TSPC 5/12-STCL-7,62	1765515	533	UM 45-SEFE O.N.	2959793	755	UM-PRO 108 COVER-L BK	2200155	749
THERMOMARK-RIBBON 110-WMSU WH0801359	0801359	820	TSPC 5/12-STF-7,62	1728303	533	UM 45-SEK	2959311	755	UM-PRO 108 COVER-R BK	2200156	749
THERMOMARK-RIBBON 110-WMTB HFS148007	0801361	820	TVFKC 1,5/ 2-ST	1713839	282	UM 45-SES	2959308	755	UM-PRO 108 FOOT BK	2200157	749
THERMOMARK-RIBBON 64-WMSU	0801360	820	TVFKC 1,5/ 3-ST	1713842	282	UM 72-FE	2959382	756	UM-PRO 122 COVER-L BK	2200158	749
THERMOMARK-RIBBON 64-WMSU WH0801361	0801361	820	TVFKC 1,5/ 4-ST	1713855	282	UM 72-LG 10	2959366	756	UM-PRO 122 COVER-R BK	2200159	749
TL CASE	0800613	820	TVFKC 1,5/ 5-ST	1713868	282	UM 72-PROFIL 100CM	2907583	756	UM-PRO 122 FOOT BK	2200160	749
TML (104X10)R	0801835	802	TVFKC 1,5/ 6-ST	1713871	282	UM 72-SE	2959337	756	UM-PRO 72 COVER-L BK	2200151	748
TML (104X2,8)R	0801832	802	TVFKC 1,5/ 7-ST	1713884	282	UM 72-SEFE/L	2959340	756	UM-PRO 72 COVER-R BK	2200152	748
TML (104X3,8)R	0801833	802	TVFKC 1,5/ 8-ST	1713897	282	UM 72-SEFE/R	2959353	756	UM-PRO 72 FOOT BK	2200153	748
TML (104X5)R	0801834	802	TVFKC 1,5/ 9-ST	1713907	282	UM 72-SEPEF/L	2906487	756	UM-PRO A/U 73 CM	2200311	748
TML (EX10)R	0801839	803	TVFKC 1,5/10-ST	1713910	282	UM-A/U 73-HT CM	2853310	762	UM-PRO A/U 92 CM	2200312	748
TML (EX2,8)R	0801836	803	TVFKCL 1,5/ 2-ST	1715921	283	UM-A/U CM	2854885	762	UM-PRO A/U N 73 CM	2200310	748
TML (EX3,8)R	0801837	803	TVFKCL 1,5/ 3-ST	1715934	283	UM-A/U N 73 CM	2706852	757	UM-PRO LID-73 BK	2200173	748
TML (EX5)R	0801838	803	TVFKCL 1,5/ 4-ST	1715947	283	UM-ALU 4 AU45 L130	2200957	745	UM-PRO LID-73N BK	2200174	748
TML (EX7)R	0830837	803	TVFKCL 1,5/ 5-ST	1715950	283	UM-ALU 4 AU45 L165	2200958	745	UM-PRO LID-92 BK	2200172	748
TMSTBP 2,5/ 2-ST-5,08	1853010	270	TVFKCL 1,5/ 6-ST	1715963	283	UM-ALU 4 AU45 L200	2200959	745	UM-PRO MOUNT BK	2200171	748
TMSTBP 2,5/ 2-STF-5,08	1853104	271	TVFKCL 1,5/ 7-ST	1715976	283	UM-ALU 4 AU45 L235	2200960	745	UM-PRO PCB C-LOCK L1 BK	2200164	748
TMSTBP 2,5/ 3-ST-5,08	1853023	270	TVFKCL 1,5/ 8-ST	1715989	283	UM-ALU 4 AU45 L25	2200953	745	UM-PRO PCB C-LOCK L2 BK	2200165	748
TMSTBP 2,5/ 3-STF-5,08	1853117	271	TVFKCL 1,5/ 9-ST	1715992	283	UM-ALU 4 AU45 L42,5	2200954	745	UM-PRO PCB C-LOCK L3 BK	2200166	748
TMSTBP 2,5/ 4-ST-5,08	1853036	270	TVFKCL 1,5/10-ST	1716001	283	UM-ALU 4 AU45 L60	2200955	745	UM-PRO PCB S-LOCK BK	2200168	748
TMSTBP 2,5/ 4-STF-5,08	1853120	271	TVMSTB 2,5/ 2-ST-5,08	1719008	271	UM-ALU 4 AU45 L95	2200956	745	UM-PRO PE CONTACT L1	2200161	748
TMSTBP 2,5/ 5-ST-5,08	1853049	270	TVMSTB 2,5/ 2-STF-5,08	1719095	271	UM-ALU 4 AU75 L130	2200966	745	UM-PRO PE CONTACT L2	2200162	748
TMSTBP 2,5/ 5-STF-5,08	1853133	271	TVMSTB 2,5/ 3-ST-5,08	1719011	271	UM-ALU 4 AU75 L165	2200967	745	UM-PRO PE CONTACT L3	2200163	748

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