

**HIGH PRESSURE
CONNECTORS
V SERIES**



Precision modular connectors to suit your application

Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

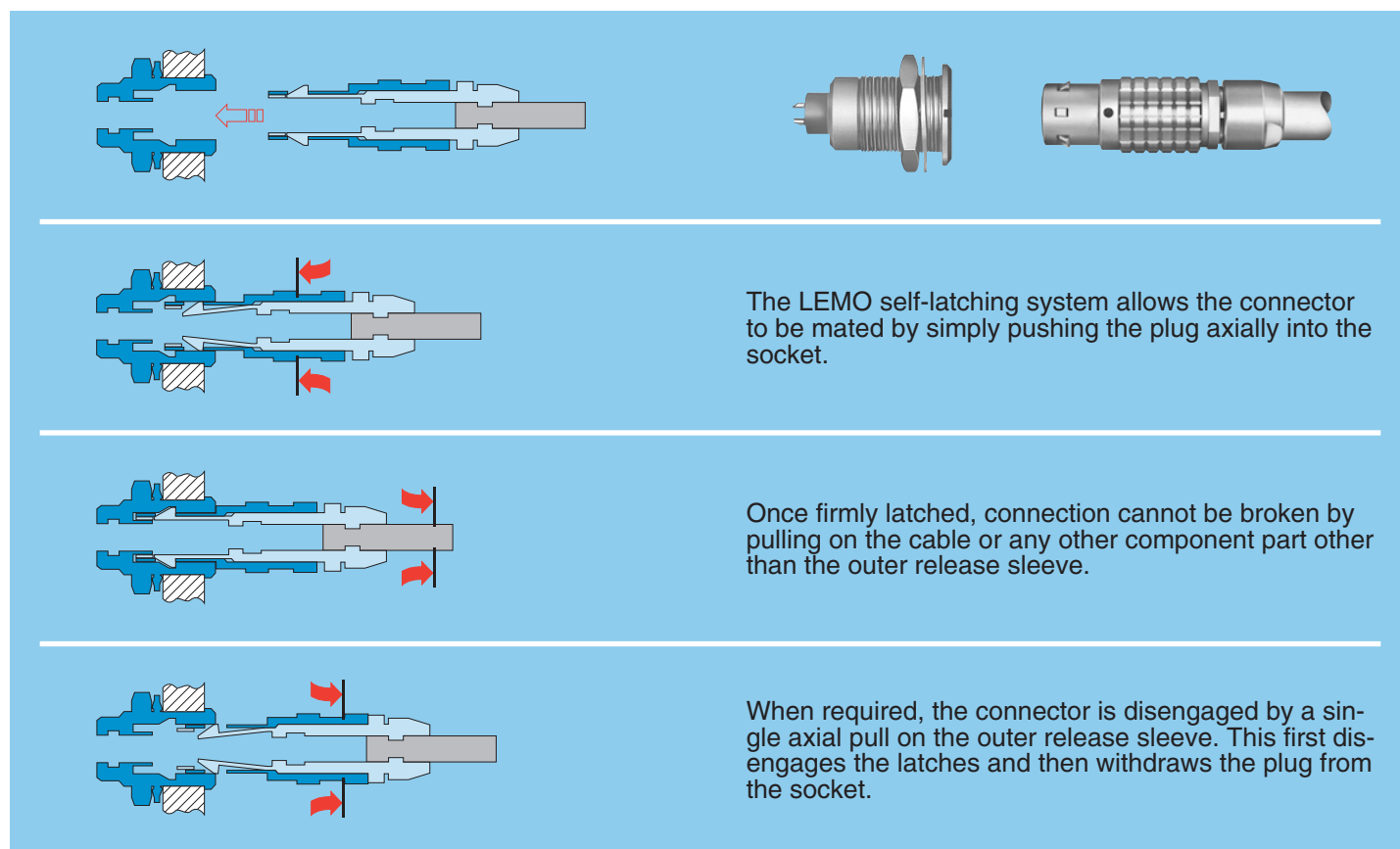
Over 50'000 connectors

The modular design of the LEMO range provides over 50'000 connectors from miniature $\varnothing$ 3 mm to $\varnothing$ 50 mm, capable of handling cable diameters up to 30 mm and for up to 114 contacts.

This vast portfolio enables you to select the ideal connector configuration to suit almost any specific requirement in most markets, including medical devices, test and measurement instruments, machinery, audio video broadcast, telecommunications and military.

LEMO's Push-Pull Self-Latching Connection System (not shown in this catalogue)

This self-latching system is renowned worldwide for its easy and quick mating and unmating features. It provides absolute security against vibration, shock or pull on the cable, and facilitates operation in a very limited space.



UL Recognition

LEMO connectors are recognized by the Underwriters Laboratories (UL). The approval of the complete system (LEMO connector, cable and your equipment) will be easier because LEMO connectors are approved.

CE marking

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives. CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

RoHS

LEMO connector specifications exceed the requirements of the RoHS directives (2002/95/EC) of the European Parliament and the latest amendments. This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe. LEMO guarantees that its connectors are free of mercury, cadmium, lead, hexavalent chromium and polybromide biphenyl (PBB), polybromide diphenyl ether (PBDE), or DecaBDE.

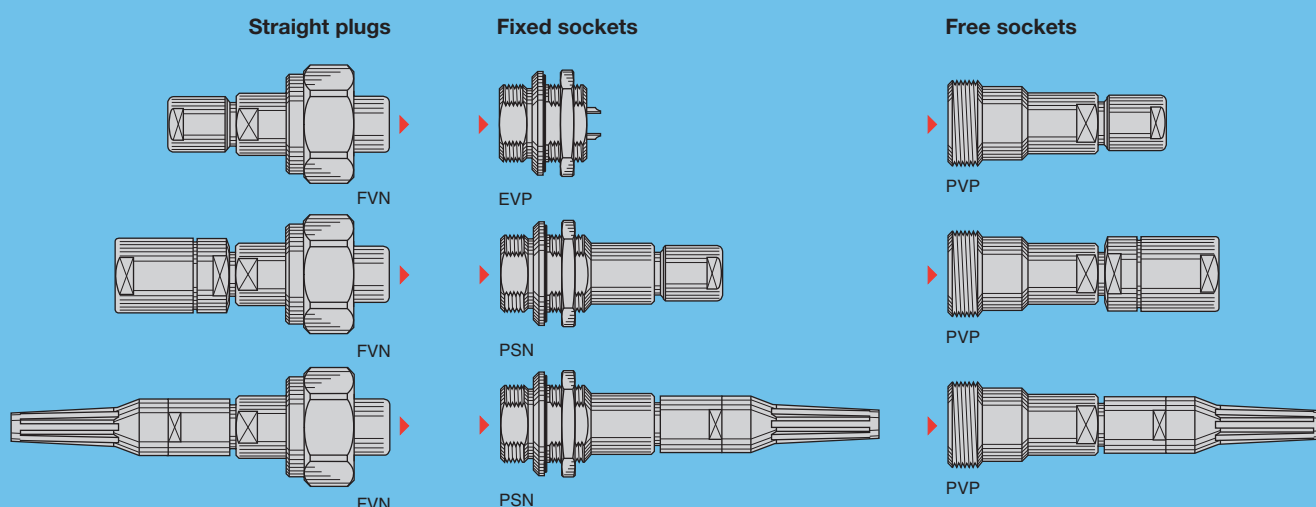
V Series

V series connectors have been developed for utilisation where protection must be guaranteed under high pressures of liquids. The basic elements, insulators, contacts and clamping system are from the S and E series. The push-pull latching system has been replaced by a screw coupling system with watertightness maintained by compression of an O-ring in FPM (Viton®) according to the triangular shaped cavity principle. There are multiple application possibilities, from nuclear physics to the petroleum industry. After cable assembly the rear part must be covered with an adhesive heatshrink boot in order to ensure watertightness on the cable side. V series connectors provide the following main features:

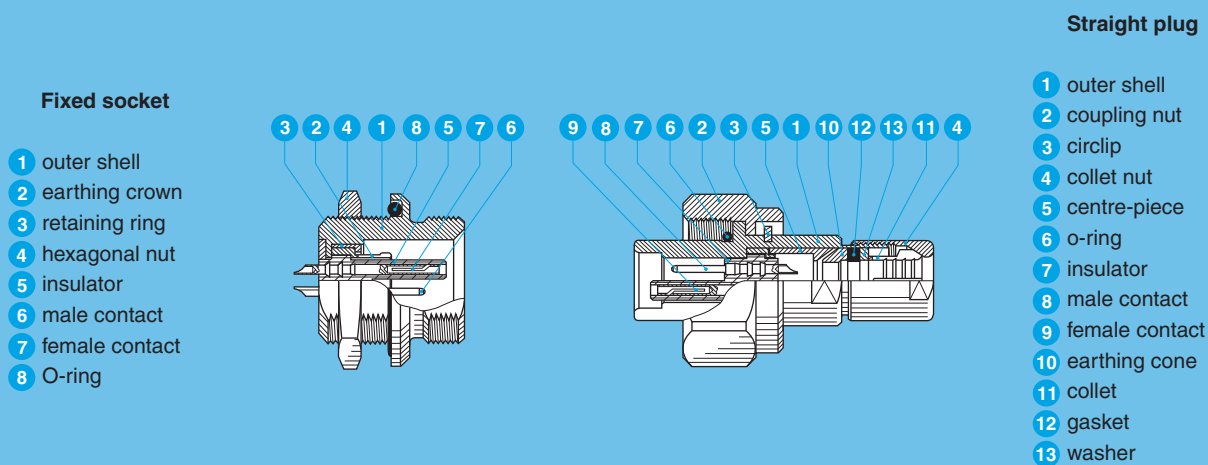
- unipole and multipole type
- coaxial, triaxial or mixed type available upon request
- polarisation by stepped insert (half moon)
- 360° screening for full EMC shielding
- rugged housing for extreme working conditions.

Interconnections

Models (page 3)

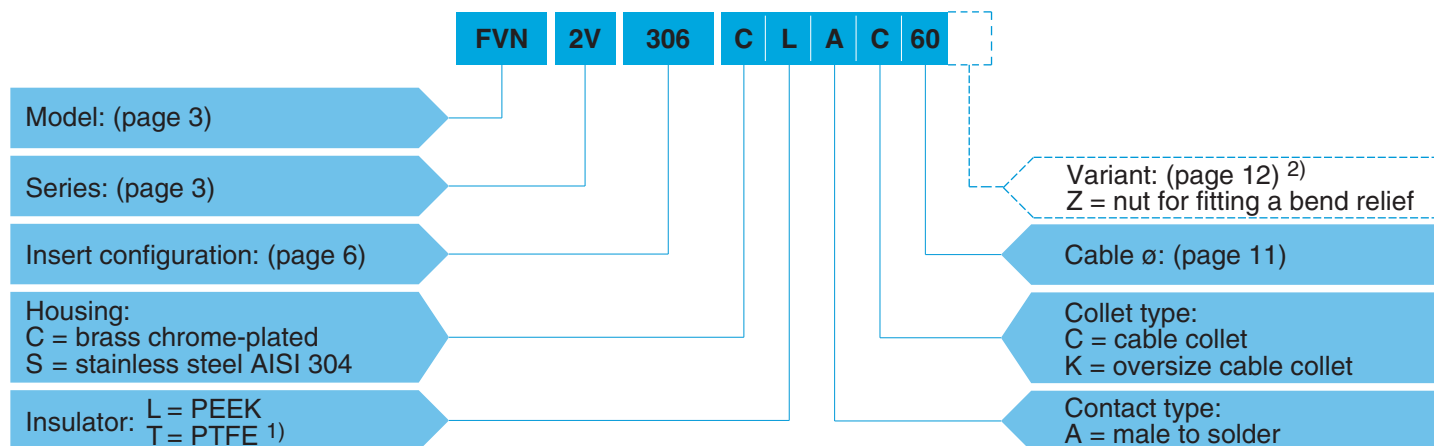


Part Section Showing Internal Components (multipole)



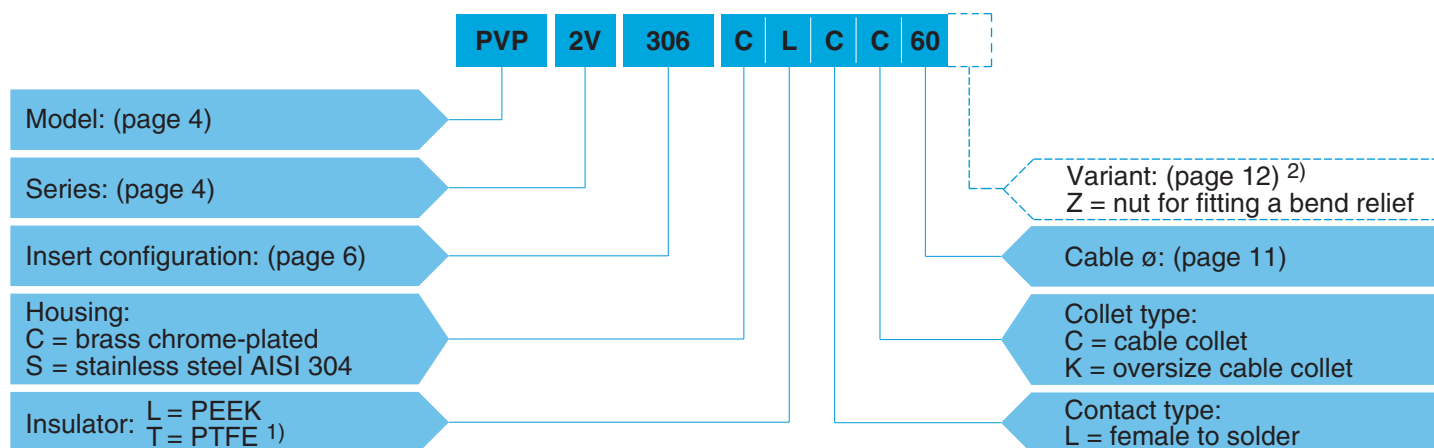
Part Number Example

Straight plug with cable collet



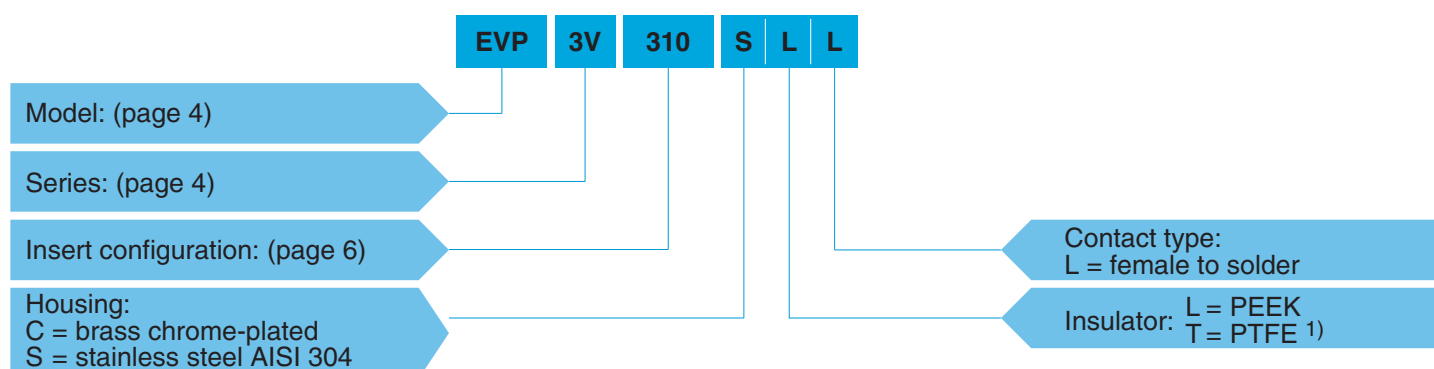
FVN.2V.306.CLAC60 = straight plug with cable collet, 2V series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 6 mm diameter cable.

Free socket with cable collet



PVP.2V.306.CLLC60 = free socket with cable collet, 2V series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts, C type collet for 6 mm diameter cable.

Fixed socket



EVP.3V.310.SLL = fixed socket, nut fixing, 3V series, multipole type with 10 contacts, outer shell in stainless steel, PEEK insulator, female solder contacts.

Note: ¹⁾ PTFE insulator for unipole type only.

²⁾ The «Variant» position in the reference is used to specify either the presence of a collet nut for fitting the bend relief.

For models with collet nut for fitting the bend relief, a «Z» should be indicated and a bend relief can be ordered separately. An order for a connector with bend relief should thus include two part numbers.



Models

Technical Characteristics

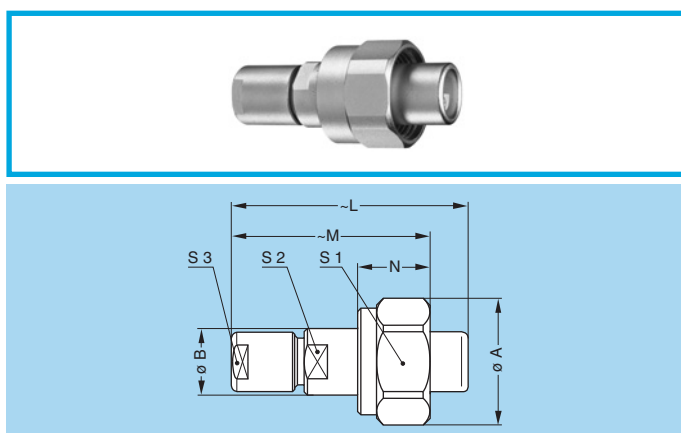
Mechanical and Climatical

Characteristics	Value	Standard
Endurance	> 1000 cycles	IEC 60512-5 test 9a
Temperature range	-20° C, +200° C	
Salt spray corrosion test	> 144h	IEC 60512-6 test 11f
Protection index (mated)	> IP 68	IEC 60529
Resistance to hydrostatic pressure (mated)	~ 30 bars ¹⁾	IEC 60512-7 test 14d
Climatical category	20/200/21	IEC 60068-1

Electrical

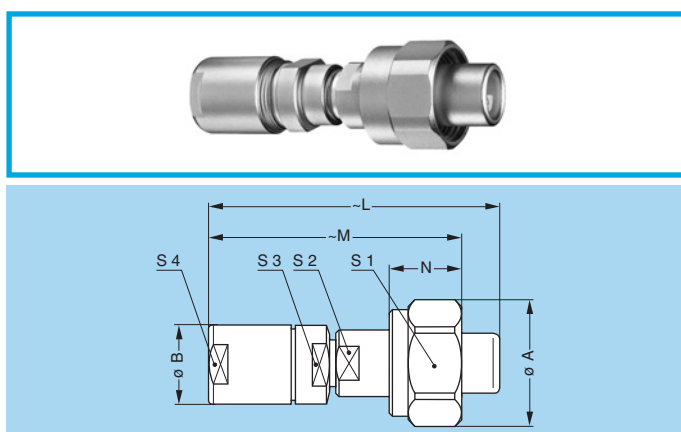
Characteristics	Value	Standard
Shielding efficiency	at 10 MHz	> 95 dB
	at 1 GHz	> 80 dB
		IEC 60169-1-3

Note: ¹⁾ in order to perform correctly and withstand the pressure, cable assembly shall be made according to instruction we recommend. See page 15.



FVN Straight plug with cable collet

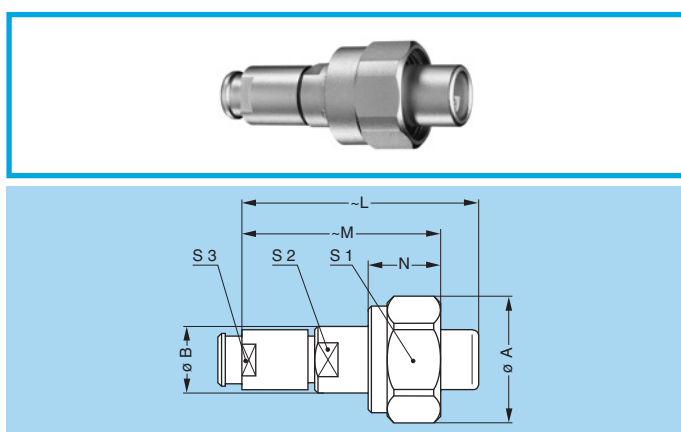
Reference		Dimensions (mm)							
Model	Series	A	B	L	M	N	S1	S2	S3
FVN	0V	17.2	10	34	29	13.5	16	9	8
FVN	1V	19.3	12	43	35	14.0	18	10	9
FVN	2V	23.5	16	52.5	42	15.5	22	14	12
FVN	3V	27.8	18	61	47	16.5	26	16	15
FVN	4V	34.3	24	71	57	17.5	32	22	19
FVN	5V	50.0	38	94	78	21.0	47	34	30



FVN Straight plug with oversize cable collet ¹⁾

Reference		Dimensions (mm)							
Model	Series	A	B	L	M	N	S1	S2	S3
FVN	1V	19.3	14.5	55	47	14.0	18	10	12
FVN	2V	23.5	17.0	65	55	15.5	22	14	15
FVN	3V	27.8	22.0	80	66	16.5	26	16	19
FVN	4V	34.3	36.0	105	91	17.5	32	22	30

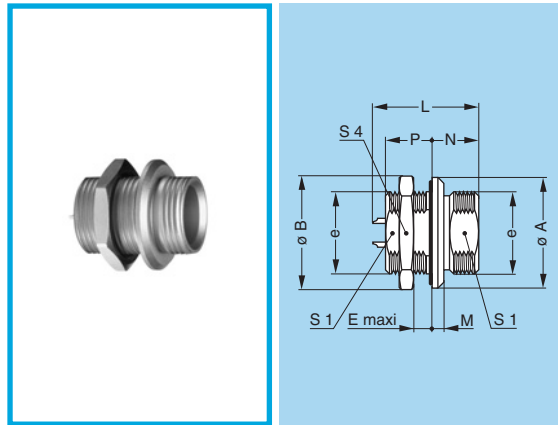
Note: ¹⁾ correspond to K type of collet, the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up (see page 11).



FVN Straight plug, cable collet and nut for fitting a bend relief ¹⁾

Reference		Dimensions (mm)							
Model	Series	A	B	L	M	N	S1	S2	S3
FVN	0V	17.2	10	34	29	13.5	16	9	7
FVN	1V	19.3	12	43	35	14.0	18	10	9
FVN	2V	23.5	16	52	42	15.5	22	14	12
FVN	3V	27.8	18	60	47	16.5	26	16	15
FVN	4V	34.3	24	71	57	17.5	32	22	19

Note: ¹⁾ to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see pages 141 and 142 of the unipole/multipole catalog).

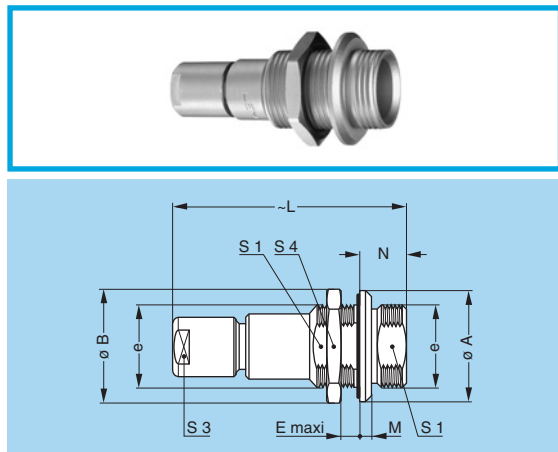


EVP Fixed socket, nut fixing

Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	M	N	P	S1	S4
EVP	0V	19	19.2	M14x1.0	5.5	19.0	2.0	8.0	8.0	12.5	17
EVP	1V	21	21.5	M16x1.0	10.5	26.0	2.0	8.0	13.5	14.5	19
EVP	2V	26	27.0	M20x1.0	11.0	29.0	2.5	9.0	15.0	18.5	24
EVP	3V	31	34.0	M24x1.0	15.0	34.5	3.0	9.5	20.0	22.5	30
EVP	4V	38	40.5	M30x1.0	14.5	35.0	3.5	10.0	21.5	28.5	36
EVP	5V	55	54.0	M45x1.5	15.5	44.5	4.5	12.5	24.5	42.5	–

Panel cut-out (page 13)

Note: the 5V series is delivered with a round nut.

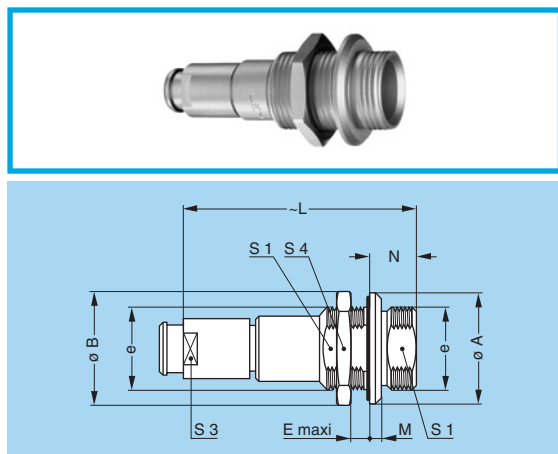


PSN Fixed socket, cable collet, nut fixing

Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	M	N	S1	S3	S4
PSN	0V	19	19.2	M14x1.0	5.5	34.0	2.0	8.0	12.5	8	17
PSN	1V	21	21.5	M16x1.0	10.5	46.0	2.0	8.0	14.5	9	19
PSN	2V	26	27.0	M20x1.0	11.0	54.0	2.5	9.0	18.5	12	24
PSN	3V	31	34.0	M24x1.0	15.0	65.0	3.0	9.5	22.5	15	30
PSN	4V	38	40.5	M30x1.0	14.5	75.5	3.5	10.0	28.5	19	36
PSN	5V	56	54.0	M45x1.5	15.5	95.0	4.5	12.5	42.5	30	–

Panel cut-out (page 13)

Note: the 5V series is delivered with a round nut.

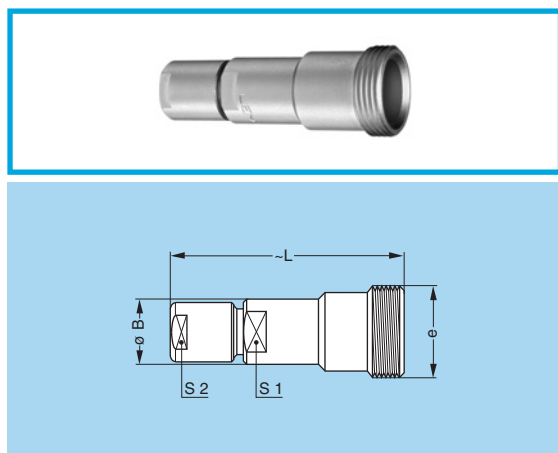


PSN Fixed socket, cable collet, nut fixing and nut for fitting a bend relief ¹⁾

Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	M	N	S1	S3	S4
PSN	0V	19	19.2	M14x1.0	5.5	34.0	2.0	8.0	12.5	7	17
PSN	1V	21	21.5	M16x1.0	10.5	46.0	2.0	8.0	14.5	9	19
PSN	2V	26	27.0	M20x1.0	11.0	54.0	2.5	9.0	18.5	12	24
PSN	3V	31	34.0	M24x1.0	15.0	64.0	3.0	9.5	22.5	15	30
PSN	4V	38	40.5	M30x1.0	14.5	75.5	3.5	10.0	28.5	19	36

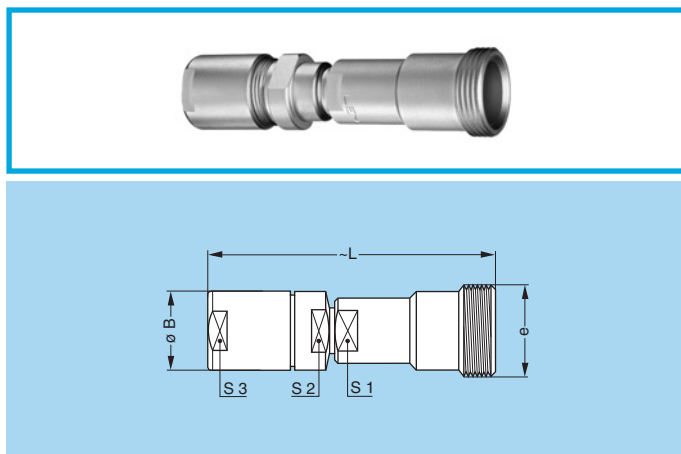
Panel cut-out (page 13)

Note: ¹⁾ to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see pages 141 and 142 of the unipole/multipole catalog).



PVP Free socket with cable collet

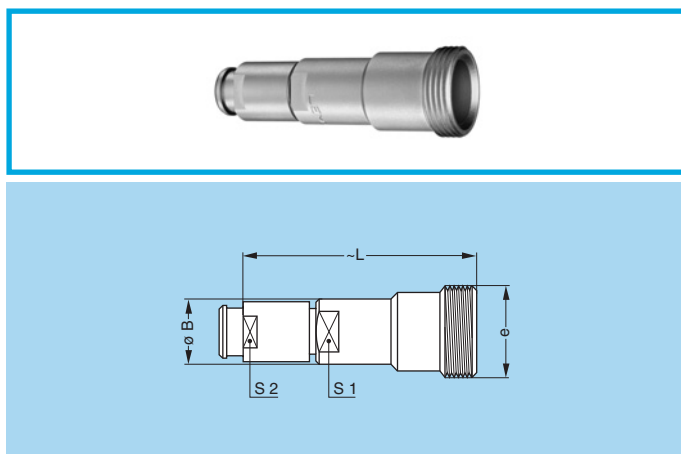
Reference		Dimensions (mm)				
Model	Series	B	e	L	S1	S2
PVP	0V	10	M14x1.0	34.0	9	8
PVP	1V	12	M16x1.0	45.0	10	9
PVP	2V	16	M20x1.0	54.0	14	12
PVP	3V	19	M24x1.0	65.0	16	15
PVP	4V	24	M30x1.0	75.5	22	19
PVP	5V	38	M45x1.5	95.0	34	30



PVP Free socket with oversize cable collet ¹⁾

Reference		Dimensions (mm)					
Model	Series	B	e	L	S1	S2	S3
PVP	1V	14.5	M16x1.0	58	10	12	12
PVP	2V	17.0	M20x1.0	67	14	15	15
PVP	3V	22.0	M24x1.0	84	16	19	19
PVP	4V	36.0	M30x1.0	109	22	30	32

Note: ¹⁾ correspond to K type of collet, the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up (see page 12).



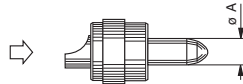
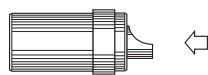
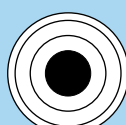
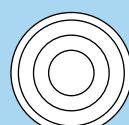
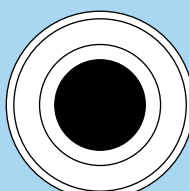
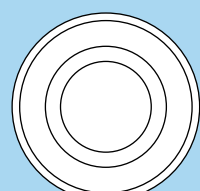
PVP Free socket, cable collet and nut for fitting a bend relief ¹⁾

Reference		Dimensions (mm)				
Model	Series	B	e	L	S1	S2
PVP	0V	10	M14x1.0	34.0	9	7
PVP	1V	12	M16x1.0	46.0	10	9
PVP	2V	16	M20x1.0	54.0	14	12
PVP	3V	19	M24x1.0	64.0	16	15
PVP	4V	24	M30x1.0	75.5	22	19

Note: ¹⁾ to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see pages 141 and 142 of the unipole/multipole catalog).

Insert configuration

Unipole

	 Male solder contacts	 Female solder contacts	Reference	ø A (mm) Contact type Solder Crimp Test voltage (kV rms¹⁾) Test voltage (kV dc¹⁾) Rated current (A¹⁾)					
0V			116	1.6	● ²⁾	–	1.5	2.1	12
1V			120	2.0	● ²⁾	–	1.7	2.4	18
			130	3.0	●	–	1.5	2.1	25
2V			130	3.0	●	–	2.1	3.0	30
			140	4.0	●	–	1.7	2.4	40
3V			140	4.0	●	–	2.3	3.3	43
			160	6.0	●	–	1.7	2.4	65
4V			160	6.0	●	–	2.7	3.9	70
5V			112	12.0	●	–	1.5	2.1	230

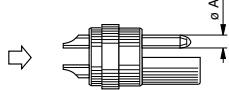
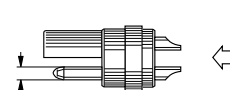
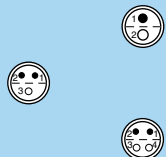
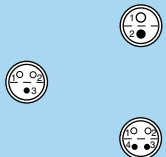
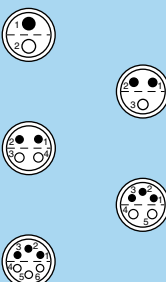
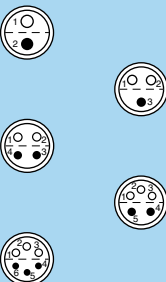
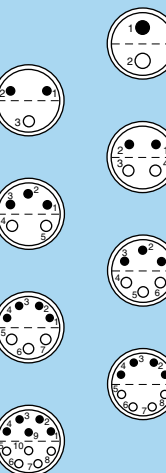
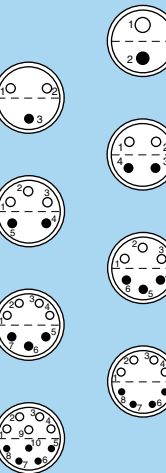
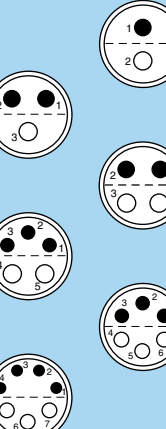
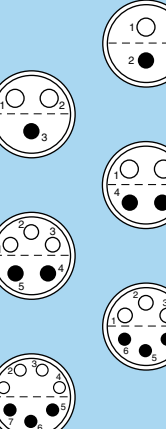
Note: ¹⁾ see calculation method, caution and suggested standard.
²⁾ also available with inversed contacts: plug = female, socket = male.

Coaxial, Triaxial, Mixed

A wide choice of those types is available, please consult us.



Multipole

	 Male solder contacts	 Female solder contacts	Reference	Number of contacts	ø A (mm)	Contact type				Test voltage (kV rms) ^{1) 2)}	Test voltage (kV dc) ^{1) 2)}	Rated current (A) ¹⁾
						Solder	Crimp	Print (straight)	Print (elbow)			
0V			302	2	0.9	●	●	●	●	1.5	2.1	10 ³⁾
			303	3	0.7	●	○	●	●	1.0	1.5	7 ³⁾
			304	4	0.7	●	●	●	●	1.0	1.5	7 ³⁾
1V			302	2	1.3	●	●	●	●	1.2	1.8	15 ³⁾
			303	3	0.9	●	○	●	●	1.2	1.8	10 ³⁾
			304	4	0.9	●	●	●	●	1.2	1.8	10 ³⁾
			305	2 3	0.9 0.7	●	○	●	●	1.5 1.5	2.1 2.1	10 ³⁾ 7 ³⁾
			306	6	0.7	●	○	●	●	1.5	2.1	7 ³⁾
2V			302	2	1.6	●	○	○	○	1.7	2.4	20 ⁴⁾
			303	3	1.3	●	○	●	○	1.5	2.1	15 ⁴⁾
			304	4	1.3	●	○	●	●	1.7	2.4	15 ⁴⁾
			305	5	1.3	●	○	●	●	1.5	2.1	13 ⁴⁾
			306	6	1.3	●	○	●	●	1.5	2.1	12
			307	3 4	1.3 0.9	●	○	●	●	0.8 0.8	1.2 1.2	12 ³⁾ 9 ³⁾
			308	8	0.9	●	○	●	●	0.8	1.2	9 ³⁾
			310	10	0.9	●	○	●	●	0.8	1.2	7 ³⁾
3V			302	2	2.0	●	–	○	–	3.0	4.2	23
			303	3	2.0	●	–	○	–	1.5	2.1	20
			304	4	2.0	●	–	○	–	1.5	2.1	18
			305	2 3	2.0 1.3	●	–	○	–	1.5 1.5	2.1 2.1	18 14
			306	6	1.3	●	–	●	–	2.1	3.0	14
			307	7	1.3	●	–	●	–	1.0	1.5	12

Note:

1) see calculation method, caution and suggested standard.

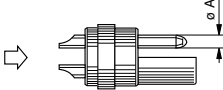
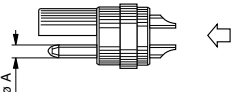
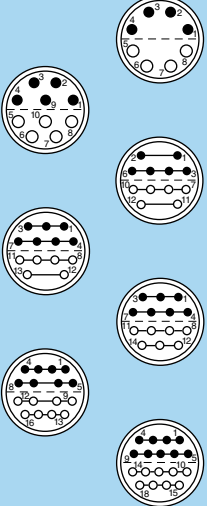
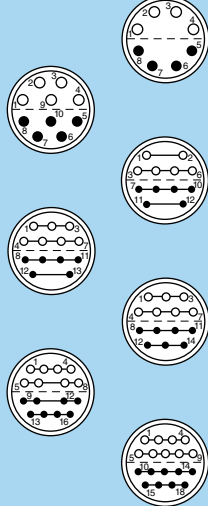
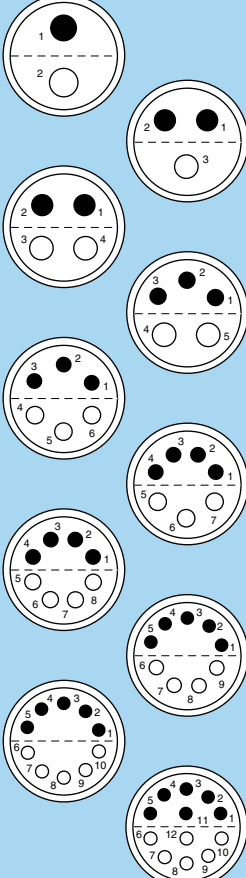
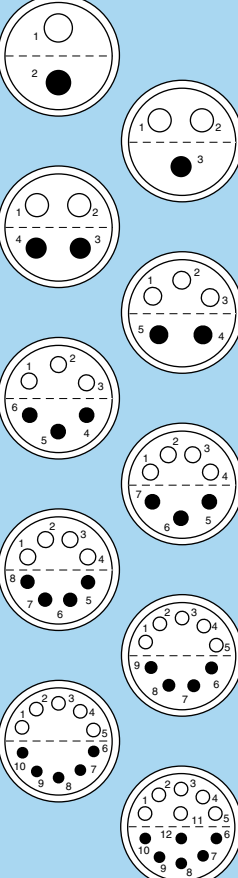
2) lowest measured value; contact to contact or contact to shell.

3) rated current = 6A for socket with elbow (90°) contacts for printed circuit.

4) rated current = 12A for socket with elbow (90°) contacts for printed circuit.

● First choice alternative ○ Special order alternative

Multipole

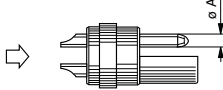
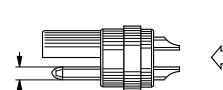
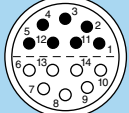
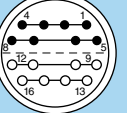
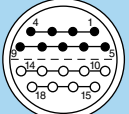
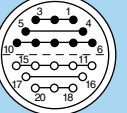
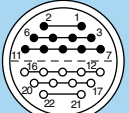
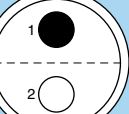
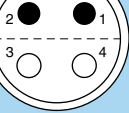
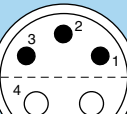
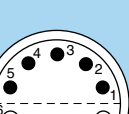
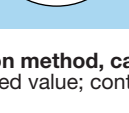
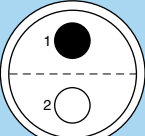
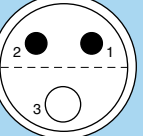
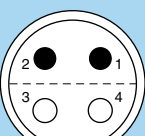
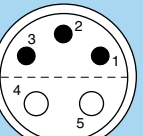
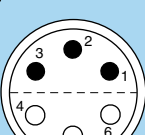
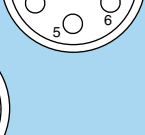
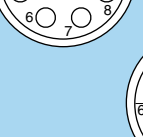
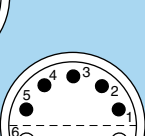
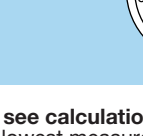
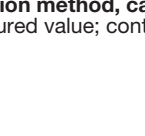
	 Male solder contacts	 Female solder contacts	Reference	Number of contacts	ø A (mm)	Contact type				Test voltage (kV rms) ^{1) 2)}	Test voltage (kV dc) ^{1) 2)}	Rated current (A) ¹⁾
						Solder	Crimp	Print (straight)	Print (elbow)			
3V			308	8	1.3	●	○	●	○	1.0	1.5	10
			310	10	1.3	●	○	●	●	1.0	1.5	9
			312	12	0.9	●	○	●	●	1.5	2.1	8
			313	13	0.9	●	○	●	○	1.5	2.1	8
			314	14	0.9	●	○	●	●	1.5	2.1	7
			316	16	0.9	●	○	●	●	1.0	1.5	7
			318	18	0.9	●	○	●	○	1.0	1.5	6
4V			302	2	4.0	●	–	○	–	2.1	3.0	35
			303	3	3.0	●	–	○	–	2.1	3.0	25
			304	4	3.0	●	–	○	–	2.1	3.0	22
			305	2 3	3.0 2.0	●	–	○	–	2.1 2.1	3.0 3.0	22 16
			306	6	2.0	●	–	○	–	2.1	3.0	16
			307	3 4	2.0 1.3	●	–	○	–	2.1 2.1	3.0 3.0	16 13
			308	8	1.3	●	–	○	–	2.7	3.9	13
			309	9	1.3	●	–	○	–	2.1	3.0	12
			310	10	1.3	●	–	○	–	2.1	3.0	11
			312	12	1.3	●	–	○	–	2.1	3.0	9

Note: 1) see calculation method, caution and suggested standard.
2) lowest measured value; contact to contact or contact to shell.

● First choice alternative ○ Special order alternative



Multipole

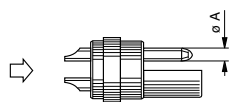
		 Male solder contacts		 Female solder contacts		Reference	Number of contacts	ø A (mm)	Contact type			Test voltage (kV rms) ^{1) 2)}	Test voltage (kV dc) ^{1) 2)}	Rated current (A) ¹⁾
									Solder	Print (straight)	Print (elbow)			
4V						314	14	1.3	●	○	–	2.1	3.0	9
						316	16	0.9	●	○	–	2.1	3.0	7
						318	18	0.9	●	○	–	2.1	3.0	7
						320	20	0.9	●	○	–	2.1	3.0	7
						322	22	0.9	●	○	–	2.1	3.0	7
						324	24	0.9	●	○	–	2.1	3.0	7
5V						302	2	6.0	●	–	–	3.7	5.2	50
						303	1 2	6.0 4.0	●	–	–	3.7 3.7	5.2 5.2	50 35
						304	4	4.0	●	–	–	3.7	5.2	35
						305	2 3	4.0 3.0	●	–	–	3.0 3.0	4.2 4.2	35 25
						306	6	3.0	●	–	–	3.0	4.2	25
						308	8	3.0	●	–	–	2.1	3.0	22
						310	10	2.0	●	–	–	2.1	3.0	18

Note: ¹⁾ see calculation method, caution and suggested standard.

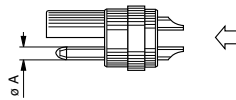
²⁾ lowest measured value; contact to contact or contact to shell.

Multipole

5V



Male solder contacts



Female solder contacts

Reference

Number of contacts	ø A (mm)	Contact type			Test voltage (kV rms) ^{1) 2)}	Test voltage (kV dc) ^{1) 2)}	Rated current (A) ¹⁾
		Solder	Print (straight)	Print (elbow)			
312	12	2.0	●	-	2.1	3.0	18
314	2	3.0	●	-	1.8	2.4	20
	12				1.8	2.4	15
316	16	2.0	●	-	1.8	2.4	15
318	2	3.0	●	-	1.8	2.4	18
	16				1.8	2.4	11
320	20	1.6	●	-	1.8	2.4	11
322	2	3.0	●	-	1.8	2.4	16
	20				1.8	2.4	9
324	24	1.6	●	-	2.7	3.9	9
330	30	1.3	●	-	1.8	2.4	8
336	36	1.3	●	-	1.8	2.4	7
340	40	1.3	●	-	1.2	1.8	7
344	44	1.3	●	-	1.2	1.8	6
348	48	1.3	●	-	1.2	1.8	6

Note: 1) see calculation method, caution and suggested standard.
2) lowest measured value; contact to contact or contact to shell.



Collets

C and K type collets



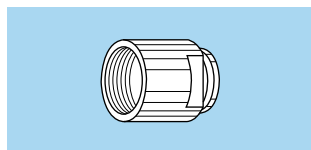
	Reference		Cable ø	
	Type	Code	max.	min.
0V	C	40	4.2	> 3.2
	C	50	5.2	> 4.2
1V	C	40	4.2	> 3.2
	C	50	5.2	> 4.2
	C	60	6.2	> 5.2
	C	65	7.2	> 6.2
	K	70	7.2	> 6.2
	K	75	8.2	> 7.2
	K	80	8.2	> 7.2
	K	85	9.2	> 8.2
2V	C	70	7.2	> 6.2
	C	80	8.2	> 7.2
	C	85	9.2	> 8.2
	K	90	10.2	> 8.7
	K	95	10.2	> 8.7
	K	10	10.2	> 8.7
	K	11	11.2	> 10.2
3V	C	70	7.2	> 5.7
	C	80	8.7	> 7.2
	C	10	10.2	> 8.7
	C	11	11.2	> 10.2
	K	11	12.0	10.6
	K	12	12.8	12.1
	K	13	13.5	12.9
	K	14	14.0	13.6
	K	15	15.0	14.1

Note: all dimensions are in millimetres.

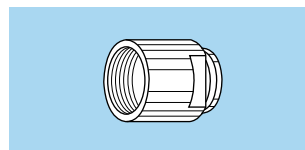
	Reference		Cable ø	
	Type	Code	max.	min.
4V	C	65	6.5	6.1
	C	70	7.0	6.6
	C	75	7.5	7.1
	C	80	8.0	7.6
	C	85	8.5	8.1
	C	90	9.0	8.6
	C	95	9.5	9.1
	C	10	10.5	9.6
	C	11	12.0	10.6
	C	12	12.8	12.1
	C	13	13.5	12.9
	C	14	14.0	13.6
	C	15	15.0	14.1
	K	16	16.5	15.6
	K	17	17.5	16.6
5V	K	18	18.5	17.6
	K	19	19.5	18.6
	K	20	20.5	19.6
	K	21	21.5	20.6
	K	22	22.5	21.6
	K	23	23.5	22.6
	C	14	14.5	13.6
	C	15	15.5	14.6
	C	16	16.5	15.6
	C	17	17.5	16.6
	C	18	18.5	17.6
	C	19	19.5	18.6
	C	20	20.5	19.6
	C	21	21.5	20.6
	C	22	22.5	21.6
	C	23	23.5	22.6

Variant

Bend relief for models with collet



	Ref.	Collet	
		Type	Code
0V	Z	C	40 to 50
1V	Z	C	40 to 65
		K	70 to 85
2V	Z	C	70 to 85
		K	90 to 10



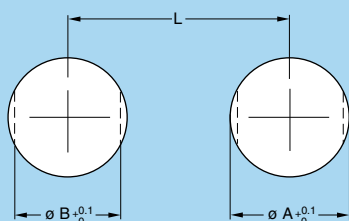
	Ref.	Collet	
		Type	Code
3V	Z	C	70 to 10
		K	11 to 15
4V	Z	C	65 to 15

Note: The bend relief must be ordered separately (see pages 141 and 142 of the unipole/multipole catalog). All dimensions are in millimetres.

Panel cut-outs

Panel Cut-outs

EVP, PSN



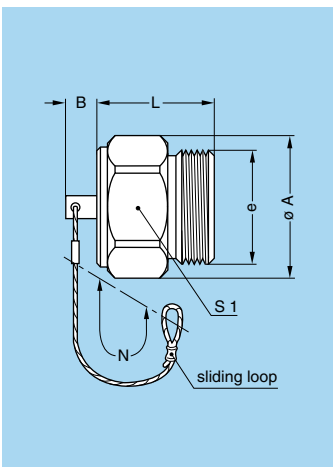
Series	Dimensions (mm)		
	A	B	L
0V	14.1	12.6	19.0
1V	16.1	14.6	21.0
2V	20.2	18.6	25.5
3V	24.2	22.6	30.0
4V	30.2	28.6	37.0
5V	45.2	42.6	53.0

Mounting nuts torque

Component	Torque (Nm)					
	0V	1V	2V	3V	4V	5V
Collet nut for F●● and P●●	0.7	0.8	2	3	5	8
Mounting hex nut for sockets	5	7	9	12	17	22
Coupling nut	5	7	9	12	17	22

1N = 0.102 kg

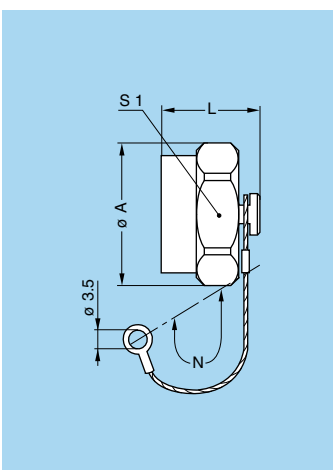
Accessories



BFA Plug caps

Part number	Series	Dimensions (mm)					
		A	B	e	L	N	S1
BFA.0V.100.●AZ	0V	17.2	6	M14x1.0	12.5	85	16
BFA.1V.100.●AZ	1V	19.3	6	M16x1.0	15.5	85	18
BFA.2V.100.●AZ	2V	23.5	6	M20x1.0	17.5	85	22
BFA.3V.100.●AZ	3V	27.8	6	M24x1.0	22.0	120	26
BFA.4V.100.●AZ	4V	34.3	10	M30x1.0	22.5	120	32
BFA.5V.100.●AZ	5V	50.0	10	M45x1.5	27.0	120	47

- Body material: ● = N, nickel-plated brass (Ni 3µm)
● = S, stainless steel
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass

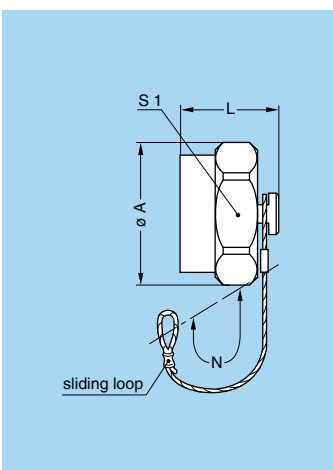


BRE Blanking caps for fixed sockets

This cap is only IP68 when installed

Part number	Series	Dimensions (mm)			
		A	L	N	S1
BRE.0V.200.●AV	0V	17.2	13.7	85	16
BRE.1V.200.●AV	1V	19.3	13.7	85	18
BRE.2V.200.●AV	2V	23.5	14.7	85	22
BRE.3V.200.●AV	3V	27.8	14.7	120	26
BRE.4V.200.●AV	4V	34.3	14.7	120	32
BRE.5V.200.●AV	5V	50.0	16.2	120	47

- Body material: ● = N, nickel-plated brass (Ni 3µm)
● = S, stainless steel
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass
- O-ring: FPM (Viton®)

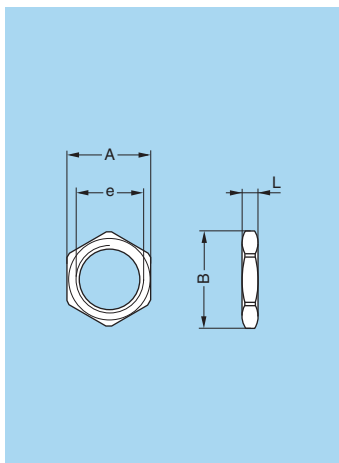


BRF Blanking caps for free sockets

This cap is only IP68 when installed

Part number	Series	Dimensions (mm)			
		A	L	N	S1
BRF.0V.200.●AV	0V	17.2	13.7	85	16
BRF.1V.200.●AV	1V	19.3	13.7	85	18
BRF.2V.200.●AV	2V	23.5	14.7	85	22
BRF.3V.200.●AV	3V	27.8	14.7	120	26
BRF.4V.200.●AV	4V	34.3	14.7	120	32
BRF.5V.200.●AV	5V	50.0	16.2	120	47

- Body material: ● = N, nickel-plated brass (Ni 3µm)
● = S, stainless steel
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass
- O-ring: FPM (Viton®)

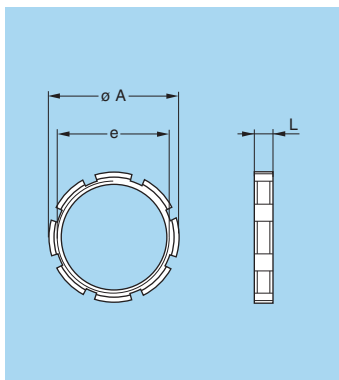


GEA Hexagonal nuts

Part number	Series	Dimensions (mm)			
		A	B	e	L
GEA.0E.240.LN	0V	17	19.2	M14 x 1.00	2.5
GEA.1E.240.LN	1V	19	21.5	M16 x 1.00	3.0
GEA.2E.240.LN	2V	24	27.0	M20 x 1.00	4.0
GEA.3E.240.LN	3V	30	34.0	M24 x 1.00	5.0
GEA.4E.240.LN	4V	36	40.5	M30 x 1.00	7.0

Note: to order this part separately, use the above part numbers. The last letters «LN» of the part number refer to the nut material and treatment. If a nut in stainless steel is desired, replace the last letters of the part number by «AZ».

- Material:
 - Nickel-plated brass (3 µm)
 - Stainless steel

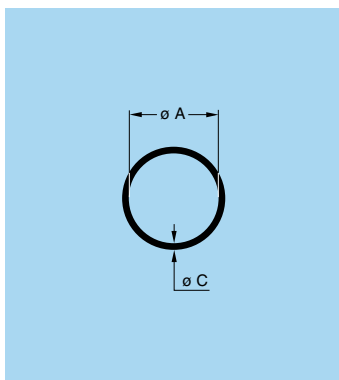
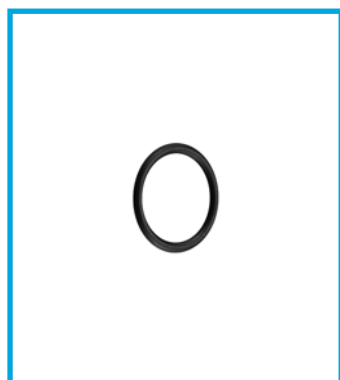


GEB Round nuts

Part number	Series	Dimensions (mm)		
		A	e	L
GEB.5E.240.LN	5V	54	M45 x 1.5	8.0

Note: to order this part separately, use the above part numbers. The last letters «LN» of the part number refer to the nut material and treatment. If a nut in stainless steel is desired, replace the last letters of the part number by «AZ».

- Material:
 - Nickel-plated brass (3 µm)
 - Stainless steel



GDA O-ring for plug

Part number	Series	Dim. (mm)	
		A	C
GDA.99.080.100VK	0V	8.0	1.0
GDA.99.100.100VK	1V	10.0	1.0
GDA.99.130.150VK	2V	13.0	1.5
GDA.99.165.150VK	3V	16.5	1.5
GDA.99.210.200VK	4V	21.0	2.0
GDA.99.330.250VK	5V	33.0	2.5

- Material: FPM (Viton®)

Cable assembly

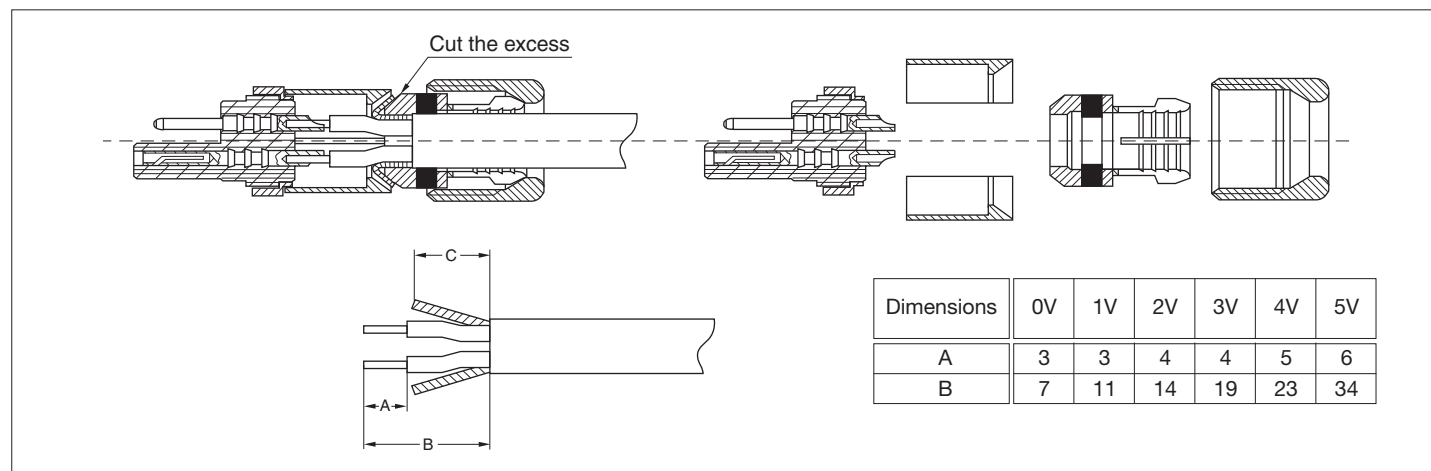
Assembly instructions

In order to ensure the sealing of plugs and sockets on the cable side, it is imperatively necessary to complete their assembly by realizing it with an adapted technique.

We recommend the fitting of an heatshrink boot with inner melting coating of type ATUM (manufactured by the RAY-CHEM company) or similar.

This heatshrink boot is not provided with the connector.

For multiconductors cables, the assembly instructions are the followings:



- 1) Preparation and stripping of cable (see above).
- 2) Slide the heatshrink boot over the cable; types and dimensions to have are:

Series	0V	1V	2V	3V	4V	5V
Type of heatshrink boot	12/3-0	12/3-0	19/6-0	19/6-0	24/6-0	40/13-0
Length of the boot	30	35	40	45	50	65
Oversize collet	—	16/4-0	19/6-0	24/8-0	40/13-0	—
Length of the boot for oversize collet	—	—	70	—	—	—

- 3) After having soldered the conductors on the contacts of the plug/socket insulator, bring the earthing cone against the centre-piece. Cut the excess of screen.
- 4) Locate the insulator, the centre-piece, the earthing cone, the gland, the compression ring and the collet in the plug/socket shell.
- 5) Screw the collet nut at the recommended torque value.
- 6) Remove all grease left on plug/socket shells with acetone.
- 7) Place the heatshrink boot of the correct dimensions onto the rear end of the plug/socket against the coupling nut.
- 8) Heat the heatshrink boot until the melting coating totally melts and adheres perfectly onto the cable jacket.

LEMO complete product range

	B	S	K	E	F	00	01	0A	3T	4A	4M	3K.93C	1D	Y	05	5G	2G	2C	L	H	R	N	03	V	W	U	F	P	D	K/S	01	DIN
Unipole																																
Multipole																																
Coaxial 50 Ω																																
Coaxial 75 Ω																																
Multi Coaxial																																
Mixed Coax + LV																																
Triaxial 50 Ω																																
Triaxial 75 Ω																																
Mixed Triax + LV																																
Quadrax																																
High Voltage																																
Multi High Voltage																																
Mixed HV + LV																																
Fibre Optic																																
Multi Fibre Optic																																
Mixed FO + LV																																
Thermocouple																																
Fluidic																																
Multi Fluidic																																
Mixed Fluidic + LV																																

Most frequently used in darker colour

• included in this catalogue

B Series Keyed	S Series	K Series Keyed	E Series	F Series Keyed	00 Series	01 Series
0A Series	3T Series	4A Series	4M Series Keyed	3K.93C Series Keyed	1D Series	Y Series
05 Series	5G Series Keyed	2G Series Keyed	2C Series	L Series Keyed	H Series	R Series Keyed
N Series Keyed	03 Series Keyed	V Series	W Series Keyed	U Series Keyed	Cable assembly	K/S Series Keyed
REDEL F Series	REDEL P Series Keyed	REDEL D Series	01 Series Keyed	VAA Series	SAA Series	TAA Series

No reproduction or use without express permission of editorial or pictorial content, in any manner.
LEMO SA reserves the right to modify and improve specifications, at all times, without any notification.

LEMO HEADQUARTERS

SWITZERLAND

LEMO SA

Chemin des Champs-Courbes 28 - P.O. Box 194 - CH-1024 Ecublens
Tel. (+41 21) 695 16 00 - Fax (+41 21) 695 16 02 - e-mail: info@lemo.com

LEMO SUBSIDIARIES

AUSTRIA

LEMO Elektronik GesmbH

Lemböckgasse 49/E6-3
1230 Wien
Tel: (+43 1) 914 23 20 0
Fax: (+43 1) 914 23 20 11
sales@lemo.at

CHINA

LEMO Trading (Shanghai) Co., Ltd

LEMO Electronics (Shanghai) Co., Ltd

5th Floor, Block 6, City of ELITE,
1000 Jinhai Road, Pudong
Shanghai, China 201206
Tel: (+86 21) 5899 7721
Fax: (+86 21) 5899 7727
cn.sales@lemo.com

DENMARK

LEMO Denmark A/S

Gammel Mosevej 46
2820 Gentofte
Tel: (+45) 45 20 44 00
Fax: (+45) 45 20 44 01
info-dk@lemo.com

FRANCE

LEMO France Sàrl

24/28 Avenue Graham Bell
Bâtiment Balthus 4
Bussy Saint Georges
77607 Marne la Vallée Cedex 3
Tel: (+33 1) 60 94 60 94
Fax: (+33 1) 60 94 60 90
info-fr@lemo.com

GERMANY

LEMO Elektronik GmbH

Hanns-Schwindt-Str. 6
81829 München
Tel: (+49 89) 42 77 03
Fax: (+49 89) 420 21 92
info@lemo.de

HONG KONG

LEMO Hong Kong Ltd

Unit 1207, 12/F, Corporation Square,
8 Lam Lok Street, Kowloon Bay,
Kowloon - Hong Kong
Tel: (+852) 2174 0468
Fax: (+852) 2174 0492
hk.sales@lemo.com

HUNGARY

REDEL Elektronika Kft

Nagysándor József u. 6-12
1201 Budapest
Tel: (+36 1) 421 47 10
Fax: (+36 1) 421 47 57
redelemo@lemo.hu

ITALY

LEMO Italia srl

Viale Lunigiana 25
20125 Milano
Tel: (+39 02) 66 71 10 46
Fax: (+39 02) 66 71 10 66
sales.it@lemo.com

JAPAN

LEMO Japan Ltd

4-10-3, Takaido Higashi,
Suginami-ku, Tokyo, 168-0072
Tel: (+81 3) 53 44 39 33
Fax: (+81 3) 53 44 39 35
lemoinfo@lemo.co.jp

NETHERLANDS / BELGIUM

LEMO Connectors Benelux

De Trompet 2108
1967 DC Heemskerk
Tel: (+31) 251 25 78 20
Fax: (+31) 251 25 78 21
info@lemo.nl

NORWAY / ICELAND

LEMO Norway A/S

Stanseveien 6B
0975 Oslo
Tel: (+47) 22 91 70 40
Fax: (+47) 22 91 70 41
info-no@lemo.com

SINGAPORE

LEMO Asia Pte Ltd

4 Leng Kee Road,
#06-09 SiS Building
Singapore 159088
Tel: (+65) 6476 0672
Fax: (+65) 6474 0672
sg.sales@lemo.com

SPAIN / PORTUGAL

IBERLEMO S.A.

Brasil, 45, 08402 Granollers
Barcelona
Tel: (+34 93) 860 44 20
Fax: (+34 93) 879 10 77
info-es@lemo.com

Madrid Office
Antonio López, 96, 28019 Madrid
Tel: (+34 91) 469 99 19
Fax: (+34 91) 469 99 59

SWEDEN / FINLAND

LEMO Nordic AB

Mariehällsvägen 39A
168 65 Bromma
Tel: (+46 8) 635 60 60
Fax: (+46 8) 635 60 61
info-se@lemo.com

SWITZERLAND

LEMO Verkauf AG

Grundstrasse 22 B
6343 Rotkreuz
Tel: (+41 41) 790 49 40
Fax: (+41 41) 790 49 43
ch.sales@lemo.com

UNITED KINGDOM

LEMO UK Ltd

12-20 North Street
Worthing
West Sussex, BN11 1DU
Tel: (+44 1903) 23 45 43
Fax: (+44 1903) 20 62 31
lemouk@lemo.com

USA

LEMO USA Inc

P.O. Box 2408
Rohnert Park, CA 94927-2408
Tel: (+1 707) 578 88 11
(+1 800) 444 53 66
Fax: (+1 707) 578 08 69
info@lemousa.com

LEMO DISTRIBUTORS

AUSTRALIA, BRAZIL, CANADA, CZECH REPUBLIC, GREECE, INDIA, ISRAEL,
NEW ZEALAND, PAKISTAN, POLAND, RUSSIA, SOUTH AFRICA, SOUTH KOREA,
TAIWAN, TURKEY, UKRAINE

www.lemo.com

