

HARSH ENVIRONMENT CONNECTORS LF SERIES



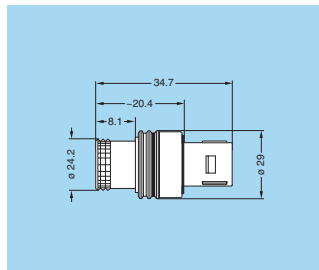
LF is a new size to complete the F Series connector range

LEMO F Series connectors are now available with a new connector size. The LF Series can accommodate 68 contacts and have been specially developed to meet the requirements of the automotive industry. This very compact solution provides a rugged connector with a high contact density. The connector is sealed with fuel resistant elastomer to meet IP 67.

The entire range of connector can accommodate cables from 2.2 mm to 34 mm. Contact configurations for the F Series are available from 2 to 68 contacts. These connectors are made of aluminium alloy that enable weight savings and high mechanical strength for high shock and vibration resistance.

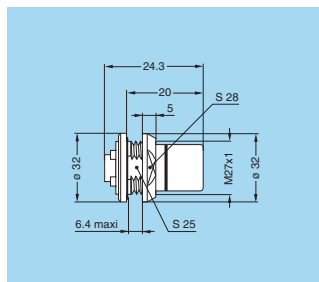


Models



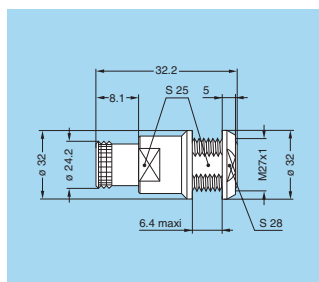
FG• Straight plug, keys (W and X)

Part number
FGW.LF.368.XLC
FGX.LF.368.XLM



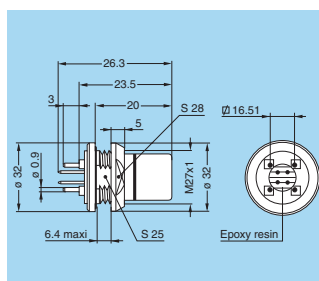
EH• Fixed socket, nut fixing, keys (W and X) (back panel mounting)

Part number
EHW.LF.368.XLM
EHX.LF.368.XLC



PE• Fixed socket, nut fixing, keys (W and X) (back panel mounting)

Part number
PEW.LF.368.XLM
PEX.LF.368.XLC



HE• Fixed socket, nut fixing, keys (W and X), for printed circuit, watertight (back panel mounting)

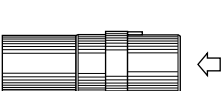
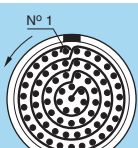
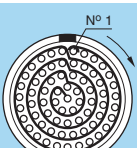
Part number
HEW.LF.368.XLNP
HEX.LF.368.XLDP

Note: protection index: IP68, temperature range: -15°, + 100°C.
All dimensions are in millimetres.

Technical characteristics

Are the same as 4F series, consult F series catalog N° 9.

Insert configuration and electrical characteristics

 Male crimp contacts	 Female crimp contacts	Reference	Number of contacts	ø A (mm)	Contact type		AWG ²⁾	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Rated current (A)
	Crimp		Print (straight)							
		368	68	0.7	●	●	22 24 26	1.5	1.5	2.5

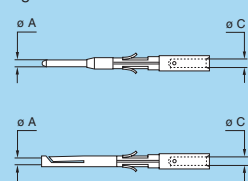
Note:

1) Test voltage according to IEC 60512-2 test 4a.

2) the mentioned AWG range apply to the standard crimp contact of fig. 1. Contacts with reduced crimp barrel are available for smaller conductor.

Accessories

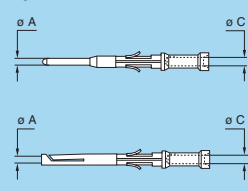
Fig. 1



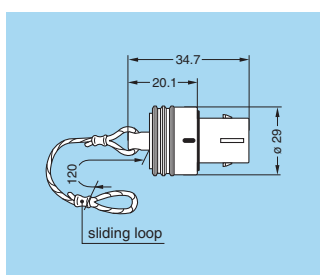
FGG-EGG Crimp contacts 0.7 mm

Part		Conductor				Part number			
		AWG		Section (mm ²)		male for plug	female for socket	male for socket	female for plug
ø A	ø C	min	max	min.	max				
0.7	0.80	26	22	0.140	0.34	FGG.3B.555.ZZC	EGG.2B.655.ZZM	FGG.0B.555.ZZC	EGG.3B.655.ZZM

Fig. 2



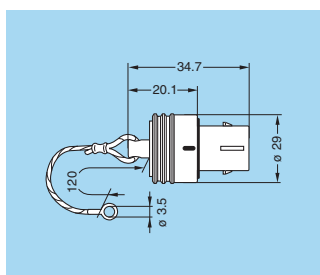
Part		Conductor				Part number			
		AWG		Section (mm ²)		male for plug	female for socket	male for socket	female for plug
ø A	ø C	min	max	min.	max				
0.7	0.45	32	28	0.035	0.09	FGG.3B.556.ZZC	EGG.2B.656.ZZM	FGG.0B.556.ZZC	EGG.3B.656.ZZM



BRF Blanking caps, with latching for free sockets

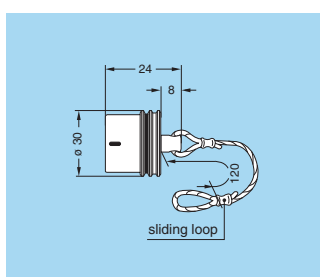
Part number
BRF.LF.200.XAV

Note: this cap is suitable for use with any alignment key configuration.



BRE Blanking caps, with latching for fixed sockets

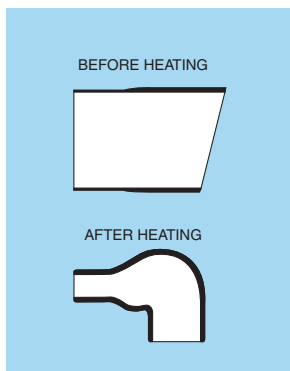
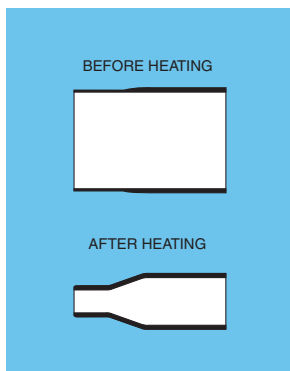
Part number
BRE.LF.200.XAV



BFG Plug caps

Part number
BFG.LF.100.XAZ

Note: this cap is suitable for use with any alignment key configuration.



Heatshrink boot

Supplier	Series	Part number		cable range ø (mm)	
		Straight	Elbow 90°	min.	max
Raychem®	LF-4F-5F	202 A 142-25/86	222 A 142-25/86	7.4	34

Note: modified elastomer resistant to fluids with hot melt sealant.



DCE Positioners for crimp contacts

Connector + Contact					Positioners part number			
Type	ø A	ø C	Fig.	Conductor AWG	For male contacts into plug	For female contacts into socket	For male contacts into socket	For female contacts into plug
368	0.7	0.80	1	22-24-26	DCE.91.073.BVC	DCE.91.072.BVM	DCE.91.070.BVC	DCE.91.073.BVM
	0.7	0.45	2	28-30-32				

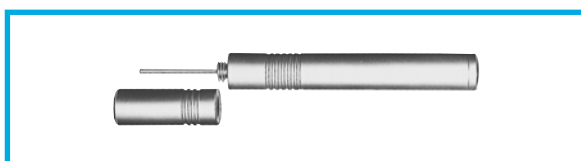
Note: These positioners are suitable for use with both manual and pneumatic crimping tools according to the MIL-C-22520/7-01 standard.



DPC Manual crimping tool

Part number
DPC.91.701.V

According to specification MIL-C-22520/7-01.
For LEMO contacts ø 0.5-0.7-0.9-1.3 mm



DCF Extractor for crimp contact 0.7 mm

Part number
DCF.91.070.2LT

Note: this model is used for male and female contacts.



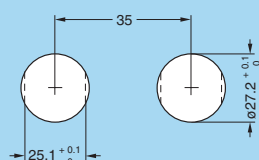
Banding tool

	Part number		
	GLEN-AIR®	TIE-DEX®	AXON®
Banding tool	600-061	A30199	ACDBS100
Tie wrap	600-057	A31189	AXCL0Z

Note: the banding tool is to be used with screened cables to ensure a good ground contact.

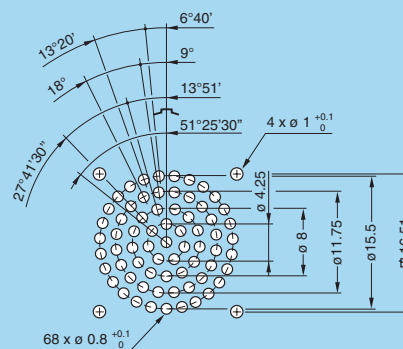
Panel cut-outs

EH●-HE●-PE●

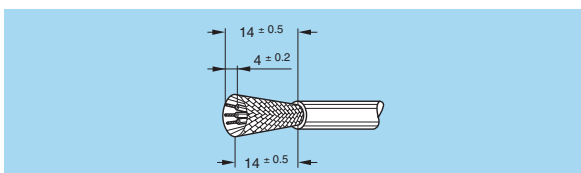


PCB drilling pattern

HE●



Cable stripping lengths



Mounting nut torque

Torque (Nm)
6.0

Note: all dimensions are in millimetres.

LEMO HEADQUARTERS

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