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Summary

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Number of contacts Low Voltage	3
Wire Size/AWG	20 - 18
Gender	Standard
Plug	Plug - Elbow
Locking system	Push-pull
Jacket cable outside diameter [mm]	6.30 - 7.20 mm
Size	1B
Suggested matching part	EGG.1B.303.CLL
Series	B - Indoor keyed

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fhg-1b-303-cycd72.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	3
Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	1B.303 - 3 Low Voltage
Insulator	Y: PEEK for crimp contacts
Rated current	12 A
Vtest (contact-contact)	2.3 kV (DC)
Vtest (contact-shell)	2.6 kV (DC)
Contact retention	40 N
Max. Conductor	1 mm ² (AWG 18)
Min. Conductor	0.5 mm ² (AWG 20)
Bucket Dia.	1.4 mm (0.055in)
Contact Dia.	1.3 mm (0.051in)
Wire Size/AWG	20 - 18
Gender	Standard

Form & Material

Shell style / Model id	FH - Elbow plug, cable collet
Plug	Elbow
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces
Locking system	Push-pull
Keying	G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)
Colour	Grey

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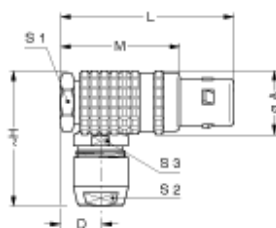
Environment

Technical domain	Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP50
Endurance	5000 mating cycles
Temperature range	-55°C / +250°C (max. temperature valid for short periods of use.)
Climatical Category	55/175/21
Humidity (max)	<=95% [at 60 deg C /140 F]
Shielding (min)	75 dB (10 MHz)
Shielding (min)	40 dB (1 GHz)
Shock Resistance	100 g [6 ms]
Vibration	15 g [10 Hz - 2000 Hz]
Salt Spray Corrosion	>1000 hr

Cable fixation

Cable termination protection	Standard back nut (no additional protection)
Fixation type	Cable collet
Jacket cable outside diameter [mm]	6.30 - 7.20 mm

Drawings



Dimensions

	A	D	H	L	M	S1	S2	S3
mm.	13.5	8	30.5	36	25	11	9	10
in.	0.53	0.31	1.2	1.42	0.98	0.43	0.35	0.39

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Recommended By Lemo

Accessories	
Replacement contact	FGG.1B.565.ZZC
Compatible cap	BFG.1B.100.PCZG
Tools	
Positionner	DCE.91.131.BVC
Extraction tool	DCC.13.15B.LAG
Crimp tool	DPC.91.701.V
Spanner wrench	DCD.1B.ZZZ.PA090