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Summary

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Number of contacts Low Voltage	8
Protocol	1000 Base-T4 (1Gb/s)
Wire Size/AWG	32 - 28
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.10 - 4.20 mm
Size	1B
Suggested matching part	EGG.1B.308.CLL
Series	B - Indoor keyed

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-1b-308-cybd42z.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	8
Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	1B.308 - 8 Low Voltage
Insulator	Y: PEEK for crimp contacts
Rated current	5 A
Vtest (contact-contact)	2 kV (DC)
Vtest (contact-shell)	1.9 kV (DC)
Contact retention	22 N
Max. Conductor	0.09 mm ² (AWG 28)
Min. Conductor	0.035 mm ² (AWG 32)
Bucket Dia.	0.45 mm (0.018in)
Contact Dia.	0.7 mm (0.028in)
Number of differentiated pairs (High speed)	4
Protocol	1000 Base-T4 (1Gb/s)
Wire Size/AWG	32 - 28
Gender	Standard

Form & Material

Shell style / Model id	FG - Straight plug, cable collet and nut for fitting a bend relief
Plug	Straight
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
Variant	Nut for fitting a bend relief

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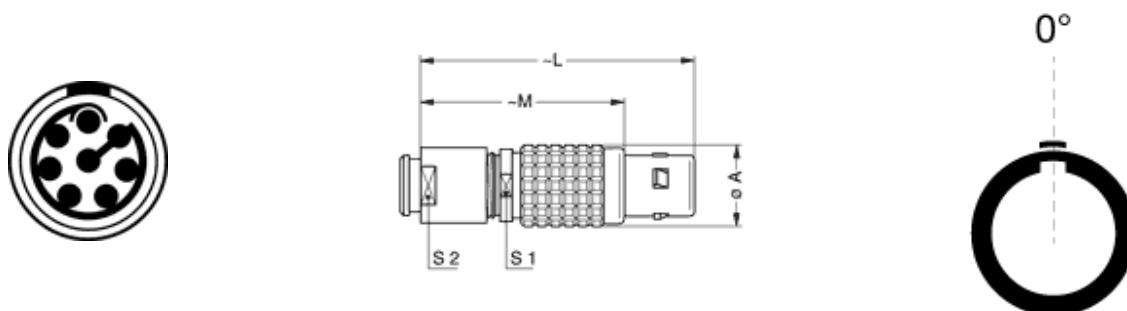
Environment

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	For cable bend relief
Fixation type	Cable collet
Jacket cable outside diameter [mm]	3.10 - 4.20 mm

Drawings



Dimensions

	A	L	M	S1	S2
mm.	12	42	31	10	9
in.	0.47	1.65	1.22	0.39	0.35

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Recommended By Lemo

Accessories		
Replacement contact		FGG.1B.556.ZZC
Compatible cap		BFG.1B.100.PCZG
Tools		
Spanner		DCP.91.001.TN
Positionner		DCE.91.071.BVC
Extraction tool		DCC.07.04B.LAG
Crimp tool		DPC.91.701.V
Spanner wrench		DCD.1B.ZZZ.PA090

Cables

Cable PartNumber	Material	Colour	Cable image
8050	PVC	Black	