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Summary

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Number of contacts Low Voltage	8
Wire Size/AWG	30 - 22
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Push-pull
Jacket cable outside diameter [mm]	1.00 - 10.60 mm
Size	1B
Suggested matching part	FGJ.1B.308.CLLD42
Series	B - Indoor keyed

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

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Technical details

Electrical Configuration

Number of contacts Low Voltage	8
Contact Termination Low voltage	Solder
R (max)	6.1 mOhm
Insert configuration value	1B.308 - 8 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	5 A
Vtest (contact-contact)	1.1 kV (DC)
Vtest (contact-shell)	1 kV (DC)
Max. Conductor	0.34 mm ² (AWG 22)
Max. Stranded Conductor	0.34 mm ² (AWG 22)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Number of differentiated pairs (High speed)	4
Wire Size/AWG	30 - 22
Gender	Reverse Gender

Form & Material

Shell style / Model id	HG - Fixed receptacle, nut fixing, watertight or vacuum-tight
Socket / Receptacle	Fixed Panel Front Mounted
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	2 keys (gamma=45, plug: female contacts, receptacle: male contacts)
Colour	Grey
Variant	Watertight / Vacuum-tested unmated (connector to device)
Weight	13.04 g

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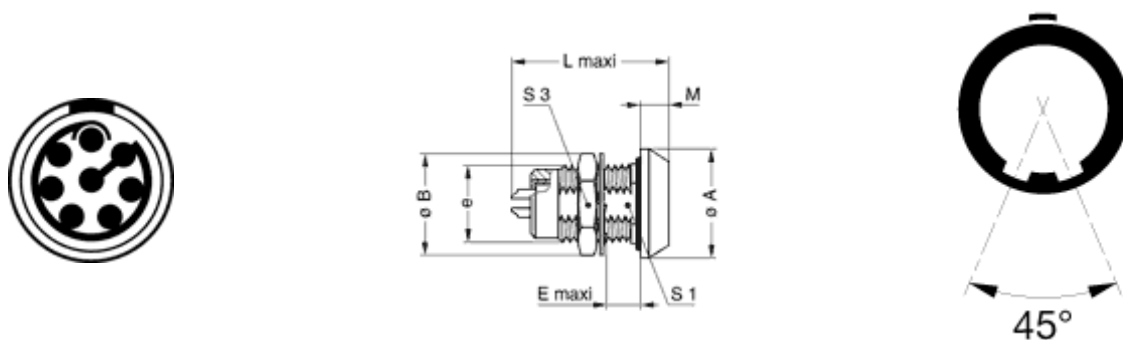
Environment

Technical domain	Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	Hermetic unmated
Endurance	5000 mating cycles
Temperature range	-20°C / +100°C
Climatical Category	20/80/21
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]
Pressure	60 bars
R leak (He) (max)	0.0000001 mbar*l/s (if vacuum-tested)
Salt Spray Corrosion	>1000 hr

Cable fixation

Jacket cable outside diameter [mm]	1.00 - 10.60 mm
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Drawings



Dimensions

	e	A	B	E	L	M	S1	S3
mm.	M12x1.0	18	16	7	26.6	4.5	10.5	14
in.		0.71	0.63	0.28	1.05	0.18	0.41	0.55

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Recommended By Lemo

Accessories

Compatible cap

[BRE.1S.200.NAS](#)

Cables

Cable PartNumber	Material	Colour	Cable image
CMN.08.T22.059QGC	TPR	Grey	
CMN.08.T22.059QGZE	TPR (medical)	Grey	
CMN.08.T26.042QGZE	TPR (medical)	Grey	
108220	PVC	Black	
108240	PTFE	White	
108260	PTFE	White	
16080	PVC	Grey	
180240	PVC	Black	
180260	PVC	Black	
280250	PVC	Grey	
335990	PVC	Black	
335991	PVC	Black	
42265	PVC	Yellow	
80140	PVC	Grey	
8050	PVC	Black	
8280	PVC	Black	

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