



Image for illustrative purpose only

Summary

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Number of contacts Low Voltage	12
Number of contacts High Voltage	1
Wire Size/AWG	30 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Push-pull
Jacket cable outside diameter [mm]	4.30 - 5.20 mm
Size	3B
Suggested matching part	FGG.3B.712.CJAM52Z
Series	B - Indoor keyed

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phg-3b-712-cjlm52z.html

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Technical details

Electrical Configuration

Contact Termination Low voltage	Solder
Contact Termination High voltage	Solder
R (max)	4.8 mOhm
Insert configuration value	3B.712 - 1 High V. 12 Low V.
Insulator	J: PEEK/PEEK
Rated current	3 A
Rated current HV (A)	4
Rated current LV (A)	5
Test voltage HV Ue (kV dc)	12
Test voltage HV Ue (kV rms)	8.5
Test voltage LV cont-cont sold.(kV rms)	1.2
Test voltage LV cont-shell sold.(kV rms)	0.85
Contact Type	Solder
Max. Solid Conductor	0.34 mm ² (AWG 22)
Max. Stranded Conductor	0.34 mm ² (AWG 22)
Bucket Dia.	0.8 mm (0.035in)
Contact Dia.	0.9 mm (0.035in)
Number of contacts Low Voltage	12
Number of contacts High Voltage	1
Wire Size/AWG	30 - 22
Gender	Standard

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Form & Material

Shell style / Model id	PH - Free receptacle, cable collet and nut for fitting a bend relief
Socket / Receptacle	Free
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
Weight	65.07 g

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
Climatical Category	50/175/21
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

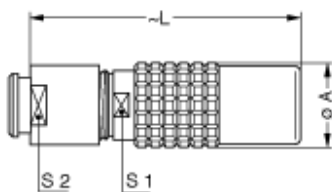
Cable fixation

Cable termination protection	For cable bend relief
Fixation type	Cable collet
Jacket cable outside diameter [mm]	4.30 - 5.20 mm

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Drawings



Dimensions

	A	S1	S2	L
mm.	19	15	15	54.5
in.	0.75	0.59	0.59	2.15

Recommended By Lemo

Accessories

Compatible cap

[BRF.3S.200.NAS](#)

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