



*Image for illustrative purpose only*

## Summary

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Number of contacts Low Voltage	3
Wire Size/AWG	24 - 20
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.10 - 4.20 mm
Size	1B
Suggested matching part	<a href="#">EGG.1B.303.CLL</a>
Series	B - Indoor keyed

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-1b-303-cybd42z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-1b-303-cybd42z.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	0.5 mm <sup>2</sup> (AWG 20)
Max. Solid Conductor	0.5 mm <sup>2</sup> (AWG 20)
Max. Stranded Conductor	0.5 mm <sup>2</sup> (AWG 20)
Min. Conductor	0.25 mm <sup>2</sup> (AWG 24)
Bucket Dia.	1.1 mm (0.043in)
Contact Dia.	1.3 mm (0.051in)
Wire Size/AWG	24 - 20
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
Weight	13.7 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)	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

# Recommended By Lemo

## Accessories

Replacement contact	<a href="#">FGG.1B.566.ZZC</a>
Compatible cap	<a href="#">BFG.1B.100.PCZG</a>

## Tools

Spanner	<a href="#">DCP.91.001.TN</a>
Positionner	<a href="#">DCE.91.131.BVC</a>
Extraction tool	<a href="#">DCC.13.15B.LAG</a>
Crimp tool	<a href="#">DPC.91.701.V</a>
Spanner wrench	<a href="#">DCD.1B.ZZZ.PA090</a>







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Documents

Eplan	<a href="#">Download</a>
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Cables

Cable PartNumber	Material	Colour	Cable image
CMN.03.T28.031PGCE	PVC	GREY	
CMN.03.T28.031PGZE		grey	
CMN.03.T28.031PNCE	PVC	Black	
CMN.03.T28.031PNZE			
30110	PVC	Grey	
30141	PVC	Grey	
3081	PVC	Black	
3280	PVC	Black	