

Standard



*Image for illustrative purpose only*

## Summary

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[BKT series](#)

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[See video assembly instructions](#)

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[Customer Drawing](#)

Number of contacts Low Voltage	12
Wire Size/AWG	30 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	6.30 - 7.70 mm
Size	3B
Suggested matching part	<a href="#">EGG.3B.312.CLL</a>

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-3b-312-clad72z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-3b-312-clad72z.html)

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# Technical details

## Electrical Configuration

Number of contacts Low Voltage	12
Contact Termination Low voltage	Solder
R (max)	4.8 mOhm
Insert configuration value	3B.312 - 12 Low Voltage
Footprint IPC Class3 compatibility	No
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	9 A
Vtest (contact-contact)	2 kV (DC)
Vtest (contact-shell)	1.4 kV (DC)
Max. Solid Conductor	0.34 mm <sup>2</sup> (AWG 22)
Max. Stranded Conductor	0.34 mm <sup>2</sup> (AWG 22)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.9 mm (0.035in)
Wire Size/AWG	30 - 22
Gender	Standard

## Form & Material

Shell style / Model id	FG - Straight plug, cable adapter 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	48.01 g

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## Environment

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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.)
Climatic 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

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Cable termination protection	For cable bend relief
Fixation type	Cable collet
Jacket cable outside diameter [mm]	6.30 - 7.70 mm

## Recommended By Lemo

### Accessories

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Compatible cap	<a href="#">BFG.3B.112.NAS</a>
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### Tools

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Spanner	<a href="#">DCP.91.023.TN</a>
Spanner wrench	<a href="#">DCD.3B.ZZZ.PA150</a>

## CAD

### Documents

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

Cable PartNumber	Material	Colour	Cable image
CMN.12.T22.070QGZE	TPR (medical)	Grey	
112240	PTFE	White	
124080	PVC	Grey	
124084	PVC	Black	
212240	PVC	Black	
212250	PVC	Grey	
212260	PVC	Black	

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