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## Summary

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Number of contacts Low Voltage	16
Wire Size/AWG	34 - 28
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	8.10 - 8.50 mm
Size	1K
Suggested matching part	<a href="#">EGG.1K.316.CLL</a>
Series	K - Outdoor keyed

[https://www.lemo.com/int\\_en/solutions/originals/k-outdoor-keyed/fgg-1k-316-clak85z.html](https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fgg-1k-316-clak85z.html)

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# Technical details

## Electrical Configuration

Contact Termination Low voltage	Solder
R (max)	8.7 mOhm
Insert configuration value	1K.316 - 16 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	1.5 A
Vtest (contact-contact)	800 V (AC), 1130 V (DC)
Vtest (contact-shell)	1250 V (AC), 1770 V (DC)
Contact Type	Solder
Max. Solid Conductor	0.09 mm <sup>2</sup> (AWG 28)
Max. Stranded Conductor	0.09 mm <sup>2</sup> (AWG 28)
Bucket Dia.	0.45 mm (0.018in)
Contact Dia.	0.5 mm (0.02in)
Number of contacts Low Voltage	16
Wire Size/AWG	34 - 28
Gender	Standard

## Form & Material

Shell style / Model id	FG - Straight plug with oversize cable collet and nut for fitting a bend relief
Plug	Straight
Housing material	Brass (chrome plated [SAE AMS 2460]) shell, collet nut and latch sleeve, nickel plated [SAE AMS QQ N 290] brass 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	34.76 g

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## Environment

Technical domain	Audio Video, Energy and Industrial, Medical, Test and Measurement
Environmental sealing (IP rating)	IP68
Endurance	5000 mating cycles
Temperature range	-55°C / +200°C
Climatical Category	50/175/21
Humidity (max)	<=95% [at 60 deg C /140 F]
Shielding (min)	95 dB (10 MHz)
Shielding (min)	80 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]	8.10 - 8.50 mm

# Recommended By Lemo

## Accessories

Compatible cap	<a href="#">BFG.1K.100.NAS</a>
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## Tools

Spanner	<a href="#">DCP.91.023.TN</a>
Spanner wrench	<a href="#">DCD.1E.ZZZ.PA090</a>

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