

Special



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Summary

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thermocouple

Number of contacts Low Voltage	1
Nb of contacts Thermocouple	2
Wire Size/AWG	28 - 20
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	6.10 - 6.50 mm
Size	1K
Suggested matching part	EGG.1K.303.CYM
Series	K - Outdoor keyed

https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fgg-1k-303-cykc65e.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	1
Contact Termination Low voltage	Crimp
Nb of contacts Thermocouple	2
Contact Termination Thermocouple	Crimp
Insert configuration value	1K.303 - Thermocouple 1 Pair, 1 Low Voltage
Insulator	Y: PEEK for crimp contacts
Rated current	12 A
ThC. Materials (P+/N-)	Chromel / Alumel
Contact Dia.	1.3
Wire Size/AWG	28 - 20
Gender	Standard

Form & Material

Shell style / Model id	FG - Straight plug, cable collet, gasket and O-ring in EPDM
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	Gasket and O-ring in EPDM
Weight	24.8 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 (max. temperature valid for short periods of use.)
Climatic 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

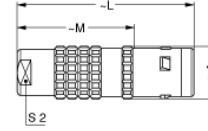
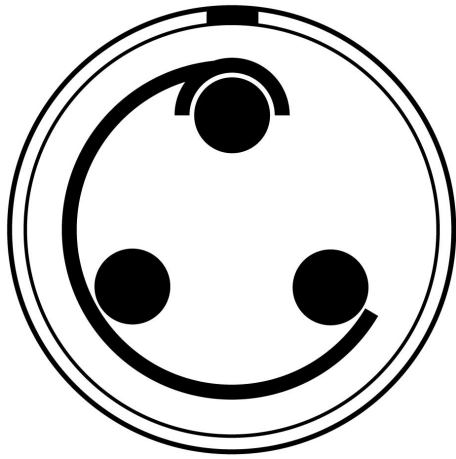
Cable fixation

Cable termination protection	Standard back nut (no additional protection)
Fixation type	Cable collet
Jacket cable outside diameter [mm]	6.10 - 6.50 mm

Drawings

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Contact 1: Chromel (+)
Contact 2: Alumel (-)

Dimensions

	M	A	L	S2
mm.	28	13	42	9
in.	1.1	0.51	1.65	0.35

Recommended By Lemo

Accessories

Replacement contact	FGG.1B.565.ZZK
Compatible cap	BFG.1K.100.NAS

Tools

Positionner	DCE.91.131.BVM
Extraction tool	DCC.13.15B.LAG
Spanner wrench	DCD.1E.ZZZ.PA090

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