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Summary

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Nb of contacts Thermocouple	6
Wire Size/AWG	30 - 22
Gender	Standard
Plug	Plug - Elbow
Locking system	Push-pull
Jacket cable outside diameter [mm]	4.60 - 5.00 mm
Size	1K
Suggested matching part	EGG.1K.306.CYK
Series	K - Outdoor keyed

https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fpg-1k-306-cykc50.html

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Technical details

Electrical Configuration

Nb of contacts Thermocouple	6
Contact Termination Thermocouple	Crimp
Insert configuration value	1K.306 - 3 Thermocouple Pairs
Insulator	Y: PEEK for crimp contacts
Rated current	7 A
ThC. Materials (P+/N-)	Chromel / Alumel
Contact Dia.	0.7
Wire Size/AWG	30 - 22
Gender	Standard

Form & Material

Shell style / Model id	FP - Elbow (90°) plug with cable collet
Plug	Elbow
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

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

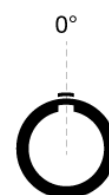
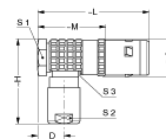
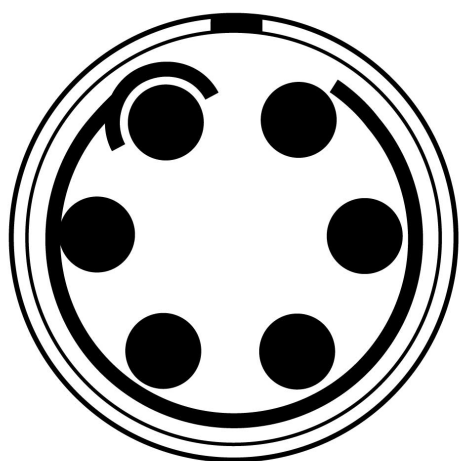
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Cable fixation

Cable termination protection	Standard back nut (no additional protection)
Fixation type	Cable collet
Jacket cable outside diameter [mm]	4.60 - 5.00 mm

Drawings



Contact 1, 3, 5: Chromel (+)
Contact 2, 4, 6: Alumel (-)

Dimensions

	A	D	H	L	M	S1	S2	S3
mm.	13	8.7	33	42	28	11	9	10
in.	0.51	0.34	1.3	1.65	1.1	0.43	0.35	0.39

Recommended By Lemo

Accessories

Replacement contact	FGG.1B.555.ZZK
Compatible cap	BFG.1K.100.NAS

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