

## Summary

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Thermocouple	2
Wire Size/AWG	28 - 20
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.10 - 4.20 mm
Size	1B
Matching parts	<a href="#">FGG.1B.302.CYKD42</a>
Series	B - Indoor keyed

## Technical details

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/phg-1b-302-cykd42.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phg-1b-302-cykd42.html)

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## Electrical Configuration

Thermocouple	2
Contact Termination Thermocouple	Crimp
Insert configuration value	1B.302/ThC - 1 Thermocouple Pair
Insulator	Y: PEEK for crimp contacts
Rated current	15 Amps
ThC. Materials (P+/N-)	Chromel / Alumel
Contact Dia.	1.3
Wire Size/AWG	28 - 20
Gender	Standard

## Form & Material

Shell style / Model id	PH - Free receptacle, cable collet
Socket / Receptacle	Free
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	1 key (alpha=0, plug: male contacts, receptacle: female contacts)
Weight	22.2 g

## 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
Climatical Category	50/175/21
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

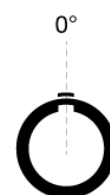
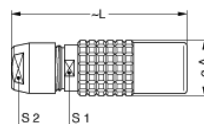
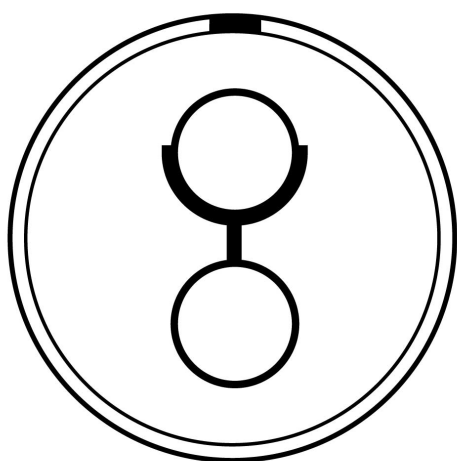
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## Cable fixation

Cable termination protection	Standard back nut (no additional protection)
Fixation type	Cable collet
Jacket cable outside diameter [mm]	3.10 - 4.20 mm

## Drawings



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

## Dimensions

	<b>S1</b>	<b>L</b>	<b>A</b>	<b>S2</b>
mm.	10	40.5	12.5	9
in.	0.39	1.59	0.49	0.35

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