



Image for illustrative purpose only

## Summary

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Nb of contacts Thermocouple	4
Wire Size/AWG	30 - 22
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Push-pull
Size	1S
Suggested matching part	<a href="#">FFA.1S.902.CLEG42</a>
Series	S - Indoor Stepped Insert

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/pca-1s-902-cleg42.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/pca-1s-902-cleg42.html)

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# Technical details

## Electrical Configuration

Nb of contacts Thermocouple	4
Contact Termination Thermocouple	Solder
Insert configuration value	1S.902/ThC - 2 Thermocouple Pairs
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	10 A
ThC. Materials (P+/N-)	Chromel / Constantan
Contact Dia.	0.9
Wire Size/AWG	30 - 22

## Form & Material

Shell style / Model id	PCA - 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	3 keys (alpha=42, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	20.49 g

## Environment

Technical domain	Audio Video, Energy and Industrial, Semiconductor, Test and Measurement
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

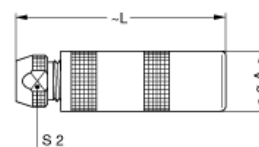
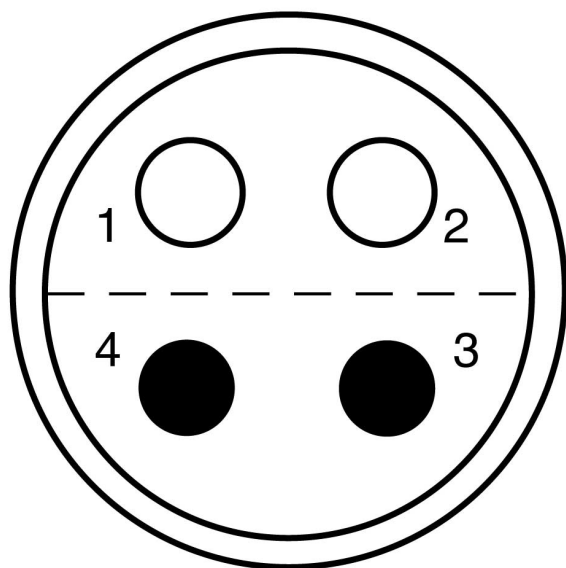
Cable termination protection

Standard back nut (no additional protection)

Fixation type

Cable collet

## Drawings



Contact 1, 3: Chromel (+)  
Contact 2, 4: Konstantan (-)

## Dimensions

	<b>A</b>	<b>L</b>	<b>S2</b>	<b>C</b>
mm.	11.9	40.5	8.5	6.2
in.	0.47	1.59	0.33	0.24

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# Recommended By Lemo

## Accessories

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Compatible cap

[BRF.1S.200.NAS](#)

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