

## Summary

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Thermocouple	2
Wire Size/AWG	24 - 16
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Push-pull
Jacket cable outside diameter [mm]	4.30 - 5.20 mm
Size	2S
Matching parts	<a href="#">FFA.2S.302.CLTC52</a>
Series	S - Indoor Stepped Insert

## Technical details

### Electrical Configuration

Thermocouple	2
Contact Termination Thermocouple	Solder
Insert configuration value	2S.302/ThC - 1 Thermocouple Pair
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	20 Amps
ThC. Materials (P+/N-)	Copper / Constantan
Contact Dia.	1.6
Wire Size/AWG	24 - 16

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/pca-2s-302-cltc52.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/pca-2s-302-cltc52.html)

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## 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)
Weight	34.17 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

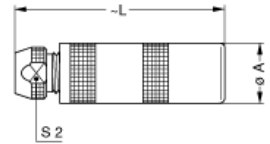
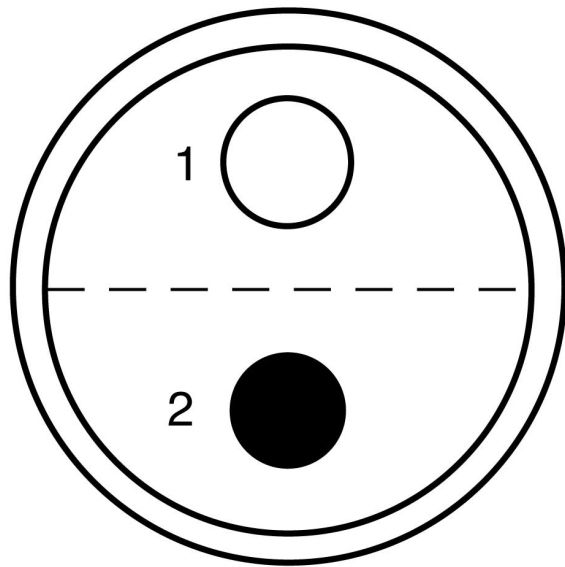
## Cable fixation

Cable termination protection	Standard back nut (no additional protection)
Fixation type	Cable collet
Jacket cable outside diameter [mm]	4.30 - 5.20 mm

# Drawings

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/pca-2s-302-cltc52.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/pca-2s-302-cltc52.html)

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Contact 1: Konstantan (-)  
Contact 2: Copper (+)

### Dimensions

	<b>A</b>	<b>L</b>	<b>S2</b>	<b>C</b>
mm.	14.8	50	11	8.5
in.	0.58	1.97	0.43	0.33

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