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Summary

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| | |
|------------------------------------|-----------------------------------|
| Nb of contacts Thermocouple | 2 |
| Wire Size/AWG | 28 - 20 |
| Socket / Receptacle | Socket / Receptacle - Free |
| Locking system | Push-pull |
| Jacket cable outside diameter [mm] | 2.20 - 3.20 mm |
| Size | 1S |
| Suggested matching part | FFA.1S.302.CLJC32 |
| Series | S - Indoor Stepped Insert |

https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/pca-1s-302-cljc32.html

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Technical details

Electrical Configuration

| | |
|----------------------------------|----------------------------------|
| Nb of contacts Thermocouple | 2 |
| Contact Termination Thermocouple | Solder |
| Insert configuration value | 1S.302/ThC - 1 Thermocouple Pair |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated current | 15 A |
| ThC. Materials (P+/N-) | Iron (magnetic) / Constantan |
| Contact Dia. | 1.3 |
| Wire Size/AWG | 28 - 20 |

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 | Hermaphroditic keying (half moon insert) with female pin 1 |
| Colour | Grey |

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 |

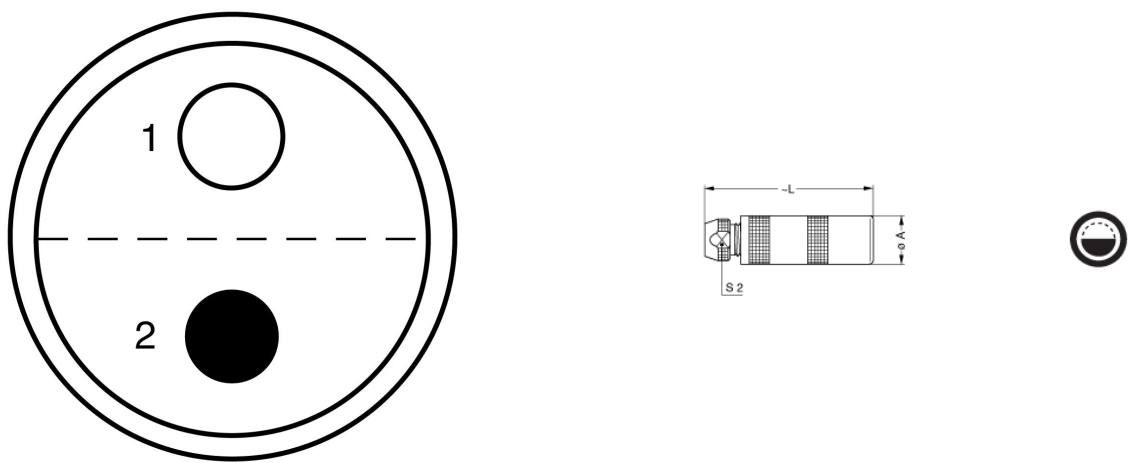
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Cable fixation

| | |
|------------------------------------|--|
| Cable termination protection | Standard back nut (no additional protection) |
| Fixation type | Cable collet |
| Jacket cable outside diameter [mm] | 2.20 - 3.20 mm |

Drawings



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

Dimensions

| | A | L | S2 | C |
|-----|------|------|------|------|
| mm. | 11.9 | 40.5 | 8.5 | 6.2 |
| in. | 0.47 | 1.59 | 0.33 | 0.24 |

Recommended By Lemo

Accessories

| | |
|----------------|--------------------------------|
| Compatible cap | BRF.1S.200.NAS |
|----------------|--------------------------------|

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