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Summary

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| | |
|--------------------------------|--------------------------------|
| Nb of contacts Thermocouple | 2 |
| Number of contacts Low Voltage | 1 |
| Wire Size/AWG | 32 - 24 |
| Plug | Plug - Straight |
| Locking system | Push-pull |
| Size | 0S |
| Suggested matching part | ERA.0S.303.CLT |
| Series | S - Indoor Stepped Insert |

https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/ffa-0s-303-cltg42.html

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Technical details

Electrical Configuration

| | |
|----------------------------------|---|
| Contact Termination Low voltage | Solder |
| Nb of contacts Thermocouple | 2 |
| Contact Termination Thermocouple | Solder |
| Insert configuration value | 0S.303/ThC - Thermocouple 1 Pair, 1 Low Voltage |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated current | 7 A |
| Thermocouple (P+/N-) | Pin 1 / Pin 2 |
| ThC. Materials (P+/N-) | Copper / Constantan |
| Contact Dia. | 0.7 |
| Number of contacts Low Voltage | 1 |
| Wire Size/AWG | 32 - 24 |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | FFA - Straight plug, cable collet |
| Plug | Straight |
| 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 | 7.47 g |

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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 |

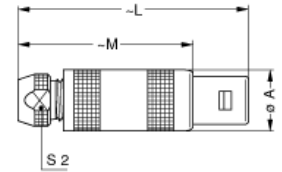
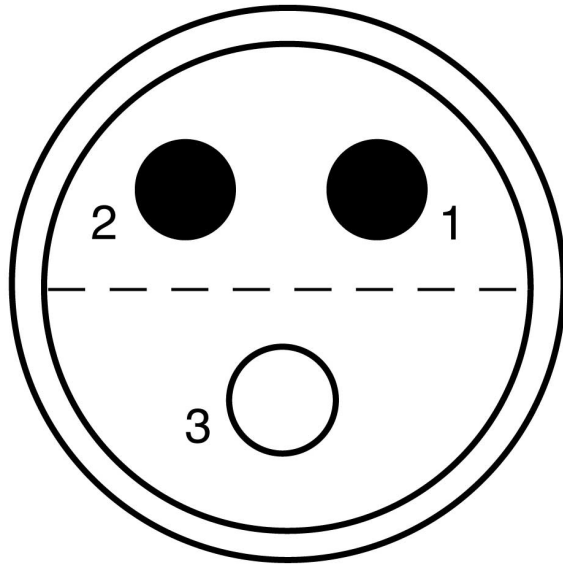
Cable fixation

| | |
|------------------------------|--|
| Cable termination protection | Standard back nut (no additional protection) |
| Fixation type | Cable collet |

Drawings

https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/ffa-0s-303-cltg42.html

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

Dimensions

| | L | A | S2 | M |
|-----|----------|----------|-----------|----------|
| mm. | 34.5 | 9 | 6.5 | 24.5 |
| in. | 1.36 | 0.35 | 0.26 | 0.96 |

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