



Summary

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| | |
|------------------------------------|--------------------------------|
| Thermocouple | 2 |
| Wire Size/AWG | 28 - 20 |
| Plug | Plug - Straight |
| Locking system | Push-pull |
| Jacket cable outside diameter [mm] | 7.60 - 8.00 mm |
| Size | 1E |
| Matching parts | ERA.1E.302.CLK |
| Series | E - Outdoor Stepped Insert |

Technical details

Electrical Configuration

| | |
|----------------------------|----------------------------------|
| Thermocouple | 2 |
| Insert configuration value | 1E.302/ThC - 1 Thermocouple Pair |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated current | 15 Amps |
| ThC. Materials (P+/N-) | Chromel / Alumel |
| Contact Dia. | 1.3 |
| Wire Size/AWG | 28 - 20 |

https://www.lemo.com/int_en/solutions/originals/e-outdoor-stepped-insert/ffa-1e-302-clk80.html

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Form & Material

| | |
|------------------------|--|
| Shell style / Model id | FFA - Straight plug with oversize cable collet |
| Plug | Straight |
| Housing material | Brass (chrome plated [SAE AMS 2460]) shell, collet nut and latch sleeve, nickel plated [SAE AMS QQ N 290] brass mid pieces |
| Locking system | Push-pull |
| Keying | 3 keys (alpha=42, gamma=30, plug: male contacts, receptacle: female contacts) |
| Weight | 35.26 g |

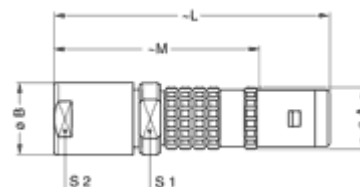
Environment

| | |
|--------------------------------------|---|
| Technical domain | Energy and Industrial, Test and Measurement |
| Environmental protection (IP rating) | IP68 |
| Minimal temperature | -55°C / +200°C |
| Climatical Category | 50/175/21 |
| Humidity (max) | <=95% [at 60 deg C /140 F] |
| Shielding (min) | 95 dB (10 MHz) |
| Shielding (min) | 80 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] | 7.60 - 8.00 mm |

Drawings



https://www.lemo.com/int_en/solutions/originals/e-outdoor-stepped-insert/ffa-1e-302-clkk80.html

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Dimensions

| | A | L | M | S1 | S2 | B |
|-----|----------|----------|----------|-----------|-----------|----------|
| mm. | 13 | 55 | 41 | 12 | 12 | 14.5 |
| in. | 0.51 | 2.17 | 1.61 | 0.47 | 0.47 | 0.57 |

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