



## Summary

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|                |                                   |
|----------------|-----------------------------------|
| Thermocouple   | 2                                 |
| Wire Size/AWG  | 28 - 20                           |
| Gender         | Standard                          |
| Plug           | Plug - Straight                   |
| Locking system | Quick-release (Snap-on)           |
| Size           | 1B                                |
| Matching parts | <a href="#">PHG.1B.302.CLTF31</a> |
| Series         | B - Indoor keyed                  |

## Technical details

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-1b-302-cltf31.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-1b-302-cltf31.html)

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## Electrical Configuration

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

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | FG - 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         | Quick-release (Snap-on)   |
| Keying                 | 1 key (alpha=0, plug: male contacts, receptacle: female contacts)   |
| Weight                 | 15.59 g   |

## Environment

|                                   |  |
|-----------------------------------|--|
| Technical domain                  | Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV |
| 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

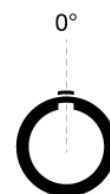
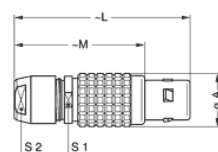
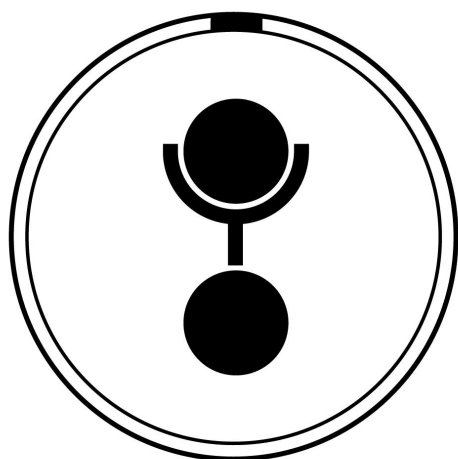
Cable termination protection

Standard back nut (no additional protection)

Fixation type

Cable collet

## Drawings



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

## Dimensions

|     | <b>A</b> | <b>L</b> | <b>M</b> | <b>S1</b> | <b>S2</b> |
|-----|----------|----------|----------|-----------|-----------|
| mm. | 12       | 43       | 32       | 10        | 9         |
| in. | 0.47     | 1.69     | 1.26     | 0.39      | 0.35      |

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