

## Summary

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|                                    |                                |
|------------------------------------|--------------------------------|
| Low Voltage                        | 8                              |
| Wire Size/AWG                      | 30 - 22                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Straight                |
| Locking system                     | Push-pull                      |
| Jacket cable outside diameter [mm] | 6.30 - 7.20 mm                 |
| Matching parts                     | <a href="#">EGG.1B.308.CLL</a> |
| Series                             | B - Indoor keyed               |

## Technical details

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-1b-308-clad72.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-1b-308-clad72.html)

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## Electrical Configuration

|                                   |                               |
|-----------------------------------|-------------------------------|
| Contact Termination Low voltage   | Solder                        |
| R (max)                           | 6.1 mOhm                      |
| Insert configuration value        | 1B.308 - 8 Low Voltage        |
| Insulator                         | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                     | 5 Amps                        |
| Vtest (contact-contact)           | 950 V (AC), 1340 V (DC)       |
| Vtest (contact-shell)             | 1150 V (AC), 1630 V (DC)      |
| Contact Type                      | Solder                        |
| Max. Conductor                    | 0.34 mm <sup>2</sup> (AWG 22) |
| Max. Stranded Conductor           | 0.34 mm <sup>2</sup> (AWG 22) |
| Bucket Dia.                       | 0.8 mm (0.031in)              |
| Contact Dia.                      | 0.7 mm (0.028in)              |
| Low Voltage                       | 8                             |
| Differentiated pairs (High speed) | 4                             |
| Protocol                          | 1000 Base-T4 (1Gb/s)          |
| Wire Size/AWG                     | 30 - 22                       |
| 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         | Push-pull                                                                                                                     |
| Keying                 | 1 key (alpha=0, plug: male contacts, receptacle: female contacts)                                                             |
| Weight                 | 15.85 g                                                                                                                       |

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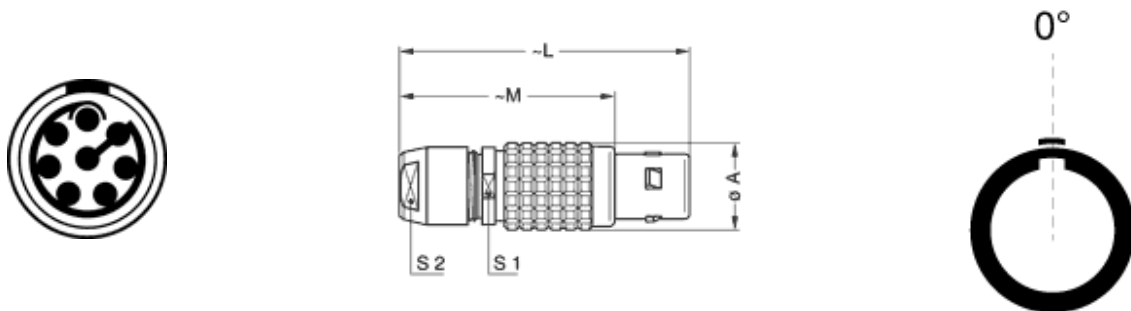
## Environment

|                          |                                                                                                                                            |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Technical domain         | Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV |
| Environmental protection | IP50                                                                                                                                       |
| Minimal temperature      | -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] | 6.30 - 7.20 mm                               |

## Drawings



## Dimensions

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

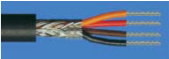
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# Recommended By Lemo

| Accessories    |                                  |
|----------------|----------------------------------|
| Compatible cap | <a href="#">BFG.1B.100.PCSG</a>  |
| Tools          |                                  |
| Spanner wrench | <a href="#">DCD.1B.ZZZ.PA090</a> |

## Cables

| Cable PartNumber | Material | Colour | Cable image                                                                         |
|------------------|----------|--------|-------------------------------------------------------------------------------------|
| 108220           | PVC      | Black  |  |
| 280250           | PVC      | Grey   |  |