



Image for illustrative purpose only

Summary

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[See video assembly instructions](#)

| | |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage | 8 |
| Protocol | 1000 Base-T4 (1Gb/s) |
| Wire Size/AWG | 30 - 22 |
| Plug | Plug - Straight |
| Locking system | Push-pull |
| Jacket cable outside diameter [mm] | 4.30 - 5.20 mm |
| Size | 1B |
| Suggested matching part | EGI.1B.308.CLL |
| Series | B - Indoor keyed |

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgi-1b-308-clad52.html

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Technical details

Electrical Configuration

| | |
|---------------------------------------------|-------------------------------|
| Number of contacts Low Voltage | 8 |
| 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 A |
| Vtest (contact-contact) | 1.1 kV (DC) |
| Vtest (contact-shell) | 1 kV (DC) |
| Max. Conductor | 0.34 mm ² (AWG 22) |
| Max. Stranded Conductor | 0.34 mm ² (AWG 22) |
| Bucket Dia. | 0.8 mm (0.031in) |
| Contact Dia. | 0.7 mm (0.028in) |
| Number of differentiated pairs (High speed) | 4 |
| Protocol | 1000 Base-T4 (1Gb/s) |
| Wire Size/AWG | 30 - 22 |

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 | 3 keys (alpha=42, gamma=30, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 15.39 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 sealing (IP rating) | IP50 |
| Endurance | 5000 mating cycles |
| Temperature range | -55°C / +250°C (max. temperature valid for short periods of use.) |
| 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] | 4.30 - 5.20 mm |

Cables

| Cable PartNumber | Material | Colour | Cable image |
|------------------|----------|--------|---------------------------------------------------------------------------------------|
| 108240 | PTFE | White |  |
| 108260 | PTFE | White |  |
| 8280 | PVC | Black |  |

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