



*Image for illustrative purpose only*

## Summary

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[See video assembly instructions](#)

|                                    |                  |
|------------------------------------|------------------|
| Number of contacts Low Voltage     | 9                |
| Wire Size/AWG                      | 34 - 28          |
| Gender                             | Standard         |
| Plug                               | Plug - Straight  |
| Locking system                     | Push-pull        |
| Jacket cable outside diameter [mm] | 4.30 - 5.20 mm   |
| Size                               | 0B               |
| Series                             | B - Indoor keyed |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-0b-309-ylad52z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-0b-309-ylad52z.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Contact Termination Low voltage | Solder                        |
| R (max)                         | 8.7 mOhm                      |
| Insert configuration value      | 0B.309 - 9 Low Voltage        |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 2 A                           |
| Vtest (contact-contact)         | 600 V (AC), 850 V (DC)        |
| Vtest (contact-shell)           | 500 V (AC), 710 V (DC)        |
| Contact Type                    | Solder                        |
| Max. Solid Conductor            | 0.09 mm <sup>2</sup> (AWG 28) |
| Max. Stranded Conductor         | 0.09 mm <sup>2</sup> (AWG 28) |
| Bucket Dia.                     | 0.45 mm (0.018in)             |
| Contact Dia.                    | 0.5 mm (0.02in)               |
| Number of contacts Low Voltage  | 9                             |
| Wire Size/AWG                   | 34 - 28                       |
| Gender                          | Standard                      |

## Form & Material

|                        |  |
|------------------------|--|
| Shell style / Model id | FG - Straight plug, cable collet and nut for fitting a bend relief |
| Plug                   | Straight   |
| Housing material       | Special housing (see notes for details)                            |
| Locking system         | Push-pull  |
| Keying                 | 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  |
| Variant                | Nut for fitting a bend relief                                      |
| Weight                 | 8.75 g   |

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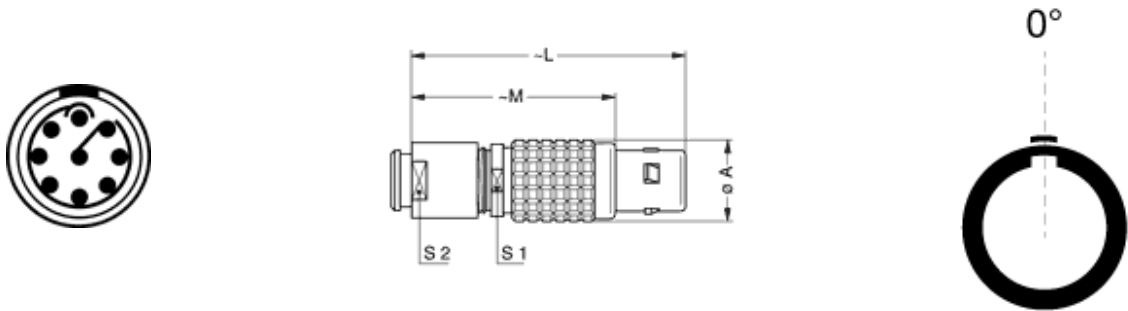
Environment

|                                   |  |
|-----------------------------------|--|
| 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   |
| 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]   |

Cable fixation

|                                    |                       |
|------------------------------------|-----------------------|
| Cable termination protection       | For cable bend relief |
| Fixation type                      | Cable collet          |
| Jacket cable outside diameter [mm] | 4.30 - 5.20 mm        |

Drawings



Dimensions

|     | S2   | A    | L    | M    | S1   |
|-----|------|------|------|------|------|
| mm. | 7    | 9.5  | 35   | 25   | 8    |
| in. | 0.28 | 0.37 | 1.38 | 0.98 | 0.31 |

# Recommended By Lemo

| Accessories    |                                  |
|----------------|----------------------------------|
| Compatible cap | <a href="#">BFG.0B.100.PCSG</a>  |
| Tools          |                                  |
| Spanner        | <a href="#">DCP.91.001.TN</a>    |
| Spanner wrench | <a href="#">DCD.0B.ZZZ.PA070</a> |

## Cables

| Cable PartNumber   | Material      | Colour | Cable image  |
|--------------------|---------------|--------|--|
| CMN.09.T28.050CNQZ |               |        |  |
| CMN.09.T28.051PGZE |               | grey   |   |
| CMN.09.T28.051PNZE |               |        |   |
| CMN.09.T28.051QGZE | TPR (medical) | Grey   |  |