



## Summary

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|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 2                              |
| Wire Size/AWG                      | 28 - 20                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Elbow                   |
| Locking system                     | Push-pull                      |
| Jacket cable outside diameter [mm] | 4.30 - 5.20 mm                 |
| Size                               | 1B                             |
| Matching parts                     | <a href="#">EGG.1B.302.CLL</a> |
| Series                             | B - Indoor keyed               |

## Technical details

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fpg-1b-302-clad52.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fpg-1b-302-clad52.html)

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## Electrical Configuration

|                                 |                              |
|---------------------------------|------------------------------|
| Contact Termination Low voltage | Solder                       |
| R (max)                         | 3.6 mOhm                     |
| Insert configuration value      | 1B.302 - 2 Low Voltage       |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)    |
| Rated current                   | 15 Amps                      |
| Vtest (contact-contact)         | 1500 V (AC), 2120 V (DC)     |
| Vtest (contact-shell)           | 1350 V (AC), 1910 V (DC)     |
| Contact Type                    | Solder                       |
| Max. Solid Conductor            | 0.5 mm <sup>2</sup> (AWG 20) |
| Max. Stranded Conductor         | 0.5 mm <sup>2</sup> (AWG 20) |
| Bucket Dia.                     | 1 mm (0.039in)               |
| Contact Dia.                    | 1.3 mm (0.051in)             |
| Number of contacts Low Voltage  | 2                            |
| Wire Size/AWG                   | 28 - 20                      |
| Gender                          | Standard                     |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | FP - Elbow (90°) plug with cable collet   |
| Plug                   | Elbow   |
| 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                 | 21.63 g   |

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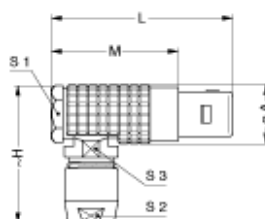
## Environment

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

## Drawings



## Dimensions

|     | A    | H    | L    | M    | S1   | S2   | S3   |
|-----|------|------|------|------|------|------|------|
| mm. | 12   | 29   | 36   | 25   | 11   | 9    | 10   |
| in. | 0.47 | 1.14 | 1.42 | 0.98 | 0.43 | 0.35 | 0.39 |

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# Recommended By Lemo




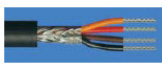



Accessories

Tools

Spanner wrench

DCD.1B.ZZZ.PA090

## Cables

| Cable PartNumber   | Material      | Colour | Cable image   |
|--------------------|---------------|--------|---|
| CMN.02.T20.047PGZE |               | grey   |    |
| CMN.02.T20.047PNZE |               |        |    |
| CMN.02.T20.048QGZE | TPR (medical) | Grey   |    |
| 120240             | PVC           | Black  |    |
| 120250             | PVC           | Grey   |   |
| 120501             | PVC           | Grey   |  |
| 2221               | PVC           | Black  |  |
| 4082               | PVC           | Grey   |   |