

## SUMMARY

### # Wires

Low voltage 2



*Image is for illustrative purpose only*

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| Series           | 1B                                                                   |
| Termination type | Male solder                                                          |
| IP rating        | 50                                                                   |
| AWG wire size    | 28.00 - 20.00                                                        |
| Cable Ø          | 4.30 - 5.20 mm                                                       |
| Status           | active                                                               |
| Matching parts   | <a href="#">EGG.1B.302.CLL</a><br><a href="#">PHG.1B.302.CLLD52Z</a> |

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## TECHNICAL DETAILS

### Mechanics

|                   |                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Shell Style/Model | FG*: Straight plug, cable collet and nut for fitting a bend relief                                                            |
| Keying            | 1 key (alpha=0, plug: male contacts, receptacle: female contacts)                                                             |
| 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 |
| Variant           | Z : Nut for fitting a bend relief                                                                                             |
| Weight            | 12.15 g                                                                                                                       |

### Performance

|               |                           |
|---------------|---------------------------|
| Configuration | 1B.302 : 2 Low Voltage    |
| Insulator     | L: PEEK (UL 94 / V-0/1.5) |
| Rated Current | 15 Amps                   |

### Specifications

Contact Type: Solder  
Contact Dia.: 1.3 mm (0.051in)  
Bucket Dia.: 1 mm (0.039in)  
Max. Solid Conductor: 0.5 mm<sup>2</sup> (AWG 20)  
Max. Stranded Conductor: 0.5 mm<sup>2</sup> (AWG 20)  
R (max): 3.6 mOhm

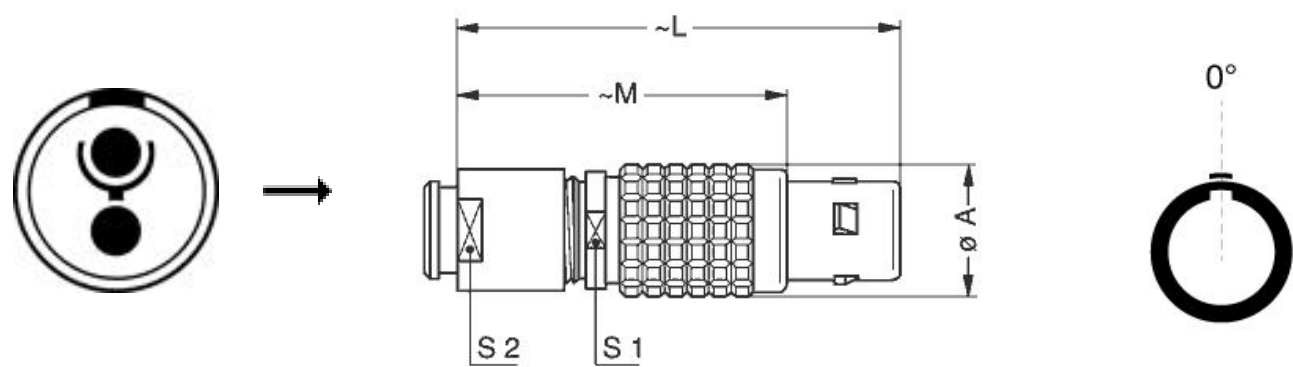
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Vtest (contact-shell): 1350 V (AC), 1910 V (DC)  
Vtest (contact-contact): 1500 V (AC), 2120 V (DC)

Others

- Endurance (Shell): 5000
- Temp (min / max): -55° C / +250° C
- Humidity (max): <=95% [at 60 deg C / 140 F]
- Vibration: 15 g [10 Hz - 2000 Hz]
- Shock Resistance: 100 g [ 6 ms]
- Climatical Category: 50/175/21
- Shielding (min): 75 dB (10 MHz)
- Shielding (min): 40 dB (1 GHz)
- Salt Spray Corrosion: >1000 hr

DRAWINGS



Dimensions

|     | A    | L    | M    | S1   | S2   |
|-----|------|------|------|------|------|
| mm. | 12   | 42   | 31   | 10   | 9    |
| in. | 0,47 | 1,65 | 1,22 | 0,39 | 0,35 |

RECOMMENDED BY LEMO

Tools

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Spanner wrench: [DCD.1B.ZZZ.PA090](#)

Caps: [BFG.1B.100.PCSG](#)

## Cables

|                    |               |       |                                                                                     |
|--------------------|---------------|-------|-------------------------------------------------------------------------------------|
| 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  |                                                                                     |

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