

**Standard***Image for illustrative purpose only*

## Summary

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|                                    |                                   |
|------------------------------------|-----------------------------------|
| Number of contacts Low Voltage     | 2                                 |
| Wire Size/AWG                      | 28 - 20                           |
| Gender                             | Standard                          |
| Socket / Receptacle                | Socket / Receptacle - Free        |
| Locking system                     | Push-pull                         |
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm                    |
| Size                               | 1B                                |
| Suggested matching part            | <a href="#">FGG.1B.302.CLAD62</a> |
| Series                             | B - Indoor keyed                  |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/phg-1b-302-clld62z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phg-1b-302-clld62z.html)

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# Technical details

## Electrical Configuration

|                                 |                              |
|---------------------------------|------------------------------|
| Number of contacts Low Voltage  | 2                            |
| 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 A                         |
| Vtest (contact-contact)         | 2.1 kV (DC)                  |
| Vtest (contact-shell)           | 2 kV (DC)                    |
| 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)             |
| Wire Size/AWG                   | 28 - 20                      |
| Gender                          | Standard                     |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | PH - Free receptacle, cable collet and nut for fitting a bend relief  |
| Socket / Receptacle    | Free  |
| 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                 | G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  |
| Colour                 | Grey  |
| Variant                | Nut for fitting a bend relief   |
| Weight                 | 19.71 g   |

## Environment

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|                                   |  |
|-----------------------------------|--|
| 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.)  |
| Climatic Category                 | 55/175/21  |
| 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

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|                                    |                       |
|------------------------------------|-----------------------|
| Cable termination protection       | For cable bend relief |
| Fixation type                      | Cable collet          |
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm        |

## Recommended By Lemo

### Accessories

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|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BRF.1S.200.NAS</a> |
|----------------|--------------------------------|

### Tools

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|                |                                  |
|----------------|----------------------------------|
| Spanner        | <a href="#">DCP.91.001.TN</a>    |
| Spanner wrench | <a href="#">DCD.1B.ZZZ.PA090</a> |

## CAD

### Documents

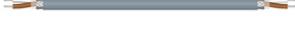
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|       |                          |
|-------|--------------------------|
| Eplan | <a href="#">Download</a> |
|-------|--------------------------|

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/phg-1b-302-clld62z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phg-1b-302-clld62z.html)

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# Cables

| Cable PartNumber | Material | Colour | Cable image   |
|------------------|----------|--------|---|
| 102080           | PVC      | Grey   |   |
| 120184           | PVC      | Black  |  |
| 120500           | PVC      | Grey   |  |
| 120751           | PVC      | Grey   |  |
| 220750           | PVC      | Grey   |  |

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