



*Image for illustrative purpose only*

## Summary

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|                                    |                                    |
|------------------------------------|------------------------------------|
| Number of contacts Low Voltage     | 5                                  |
| Wire Size/AWG                      | 30 - 22                            |
| Gender                             | Standard                           |
| Socket / Receptacle                | Socket / Receptacle - Free         |
| Locking system                     | Push-pull                          |
| Jacket cable outside diameter [mm] | 3.10 - 4.20 mm                     |
| Size                               | 1B                                 |
| Suggested matching part            | <a href="#">FGB.1B.305.CLAD42Z</a> |
| Series                             | B - Indoor keyed                   |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/phb-1b-305-clld42z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phb-1b-305-clld42z.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 5                             |
| Contact Termination Low voltage | Solder                        |
| R (max)                         | 4.8 mOhm                      |
| Insert configuration value      | 1B.305 - 5 Low Voltage        |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 9 A                           |
| Vtest (contact-contact)         | 1.8 kV (DC)                   |
| Vtest (contact-shell)           | 1.7 kV (DC)                   |
| Max. Solid Conductor            | 0.34 mm <sup>2</sup> (AWG 22) |
| Max. Stranded Conductor         | 0.34 mm <sup>2</sup> (AWG 22) |
| Bucket Dia.                     | 0.8 mm (0.031in)              |
| Contact Dia.                    | 0.9 mm (0.035in)              |
| Wire Size/AWG                   | 30 - 22                       |
| 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                 | B: 2 keys (alpha=60, plug: male contacts, receptacle: female contacts)                                                        |
| Colour                 | Grey                                                                                                                          |
| Variant                | Nut for fitting a bend relief                                                                                                 |

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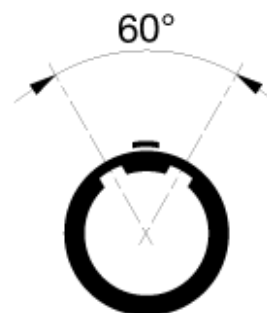
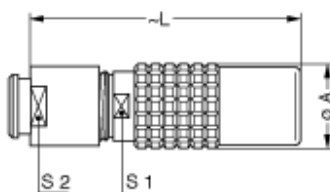
## Environment

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

|                                    |                       |
|------------------------------------|-----------------------|
| Cable termination protection       | For cable bend relief |
| Fixation type                      | Cable collet          |
| Jacket cable outside diameter [mm] | 3.10 - 4.20 mm        |

## Drawings



## Dimensions

|     | S1   | L    | A    | S2   |
|-----|------|------|------|------|
| mm. | 10   | 39.5 | 12.5 | 9    |
| in. | 0.39 | 1.56 | 0.49 | 0.35 |

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# Recommended By Lemo

## Accessories

Compatible cap

BRF.1S.200.NAS

# Cables

| Cable PartNumber | Material | Colour | Cable image                                                                         |
|------------------|----------|--------|-------------------------------------------------------------------------------------|
| 5050             | PVC      | Black  |  |