



Image for illustrative purpose only

Summary

[Request a quote](#)

| | |
|------------------------------------|----------------------------|
| Number of contacts Low Voltage | 7 |
| Protocol | 1000 Base-T1 (1Gb/s) |
| Wire Size/AWG | 30 - 26 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Free |
| Locking system | Push-pull |
| Jacket cable outside diameter [mm] | 3.10 - 4.20 mm |
| Size | 1B |
| Series | B - Indoor keyed |

Technical details

Electrical Configuration

| | |
|---|--|
| Contact Termination Low voltage | Solder |
| Insert configuration value | 1B.512 - 2x SPE - 4 High Speed, Low Voltage (1000BASE-T1 (IEEE 802.3bp)) + 3 Ground contacts |
| Insulator | T: PTFE |
| Number of contacts Low Voltage | 7 |
| Number of differentiated pairs (High speed) | 2 |
| Protocol | 1000 Base-T1 (1Gb/s) |
| Wire Size/AWG | 30 - 26 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | PH - Free receptacle, cable collet |
| 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 | 1 key (alpha=0, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 20.28 g |

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 |

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phg-1b-512-ctld42.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

Cable fixation

| | |
|------------------------------------|--|
| Cable termination protection | Standard back nut (no additional protection) |
| Fixation type | Cable collet |
| Jacket cable outside diameter [mm] | 3.10 - 4.20 mm |

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phg-1b-512-ctld42.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.