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Summary

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| | |
|------------------------------------|----------------------------|
| Protocol | USB 3.1 (10Gb/s) |
| Wire Size/AWG | 26 - 22 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Free |
| Locking system | Push-pull |
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm |
| Size | 2B |
| Series | B - Indoor keyed |

https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/phg-2b-542-clld62.html

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Technical details

Electrical Configuration

| | |
|---|---------------------------------|
| Insert configuration value | 2B.542 - USB 3.1 (up to 10Gb/s) |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated current | 5 A |
| Vtest (contact-contact) | 0.35 |
| Vtest (contact-shell) | 0.7 |
| Number of differentiated pairs (High speed) | 3 |
| Protocol | USB 3.1 (10Gb/s) |
| Wire Size/AWG | 26 - 22 |
| 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 | G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 42.68 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) |
| Salt Spray Corrosion | >1000 hr |

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Cable fixation

| | |
|------------------------------------|--|
| Cable termination protection | Standard back nut (no additional protection) |
| Fixation type | Cable collet |
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm |

Recommended By Lemo

Accessories

| | |
|----------------|--------------------------------|
| Compatible cap | BRF.2S.200.NAS |
|----------------|--------------------------------|

Tools

| | |
|---------|-------------------------------|
| Spanner | DCP.91.023.TN |
|---------|-------------------------------|

| | |
|----------------|----------------------------------|
| Spanner wrench | DCD.2B.ZZZ.PA120 |
|----------------|----------------------------------|

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