



*Image for illustrative purpose only*

## Summary

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|                                    |                       |
|------------------------------------|-----------------------|
| Number of contacts Low Voltage     | 8                     |
| Protocol                           | 1000 Base-T4 (10Gb/s) |
| Wire Size/AWG                      | 24 - 22               |
| Gender                             | Standard              |
| Plug                               | Plug - Straight       |
| Locking system                     | Push-pull             |
| Jacket cable outside diameter [mm] | 8.30 - 9.20 mm        |
| Size                               | 2B                    |
| Series                             | B - Indoor keyed      |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-2b-514-clad92z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-2b-514-clad92z.html)

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# Technical details

## Electrical Configuration

|   |   |
|---|---|
| Number of contacts Low Voltage              | 8   |
| Contact Termination Low voltage             | Solder                                      |
| Insert configuration value                  | 2B.514 - 8 High Speed, Low Voltage (CAT 6A) |
| Insulator                                   | L: PEEK (UL 94 / V-0/1.5)                   |
| Rated current                               | 5 A   |
| Vtest (contact-contact)                     | 1.13  |
| Vtest (contact-shell)                       | 1.06  |
| Number of differentiated pairs (High speed) | 4   |
| Protocol                                    | 1000 Base-T4 (10Gb/s)                       |
| Wire Size/AWG                               | 24 - 22                                     |
| Gender                                      | Standard                                    |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | FG - Straight plug, cable collet and nut for fitting a bend relief  |
| Plug                   | Straight  |
| 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                 | 27.5 g  |

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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               | 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   |

## Cable fixation

|                                    |                       |
|------------------------------------|-----------------------|
| Cable termination protection       | For cable bend relief |
| Fixation type                      | Cable collet          |
| Jacket cable outside diameter [mm] | 8.30 - 9.20 mm        |

# Recommended By Lemo

## Accessories

|                |                                 |
|----------------|---------------------------------|
| Compatible cap | <a href="#">BFG.2B.100.PCSG</a> |
|----------------|---------------------------------|

## Tools

|                |                                  |
|----------------|----------------------------------|
| Spanner        | <a href="#">DCP.91.023.TN</a>    |
| Spanner wrench | <a href="#">DCD.2B.ZZZ.PA120</a> |

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