



*Image for illustrative purpose only*

## Summary

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|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 4                              |
| Protocol                           | USB 2.0 (480Mb/s)              |
| Wire Size/AWG                      | 30 - 22                        |
| Gender                             | Reverse Gender                 |
| Plug                               | Plug - Straight                |
| Locking system                     | Push-pull                      |
| Jacket cable outside diameter [mm] | 6.30 - 7.20 mm                 |
| Size                               | 1B                             |
| Suggested matching part            | <a href="#">EGK.1B.304.CLA</a> |
| Series                             | B - Indoor keyed               |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgk-1b-304-clld72z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgk-1b-304-clld72z.html)

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# Technical details

## Electrical Configuration

|   |                               |
|---|-------------------------------|
| Number of contacts Low Voltage              | 4                             |
| Contact Termination Low voltage             | Solder                        |
| R (max)                                     | 4.8 mOhm                      |
| Insert configuration value                  | 1B.304 - 4 Low Voltage        |
| Insulator                                   | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                               | 10 A                          |
| Vtest (contact-contact)                     | 2 kV (DC)                     |
| Vtest (contact-shell)                       | 2 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)              |
| Number of differentiated pairs (High speed) | 1                             |
| Protocol                                    | USB 2.0 (480Mb/s)             |
| Wire Size/AWG                               | 30 - 22                       |
| Gender                                      | Reverse Gender                |

## 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                 | 2 keys (gamma=70, plug: female contacts, receptacle: male contacts)   |
| Colour                 | Grey  |
| Variant                | Nut for fitting a bend relief   |
| Weight                 | 15.81 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] | 6.30 - 7.20 mm        |

# Cables

| Cable PartNumber   | Material | Colour | Cable image   |
|--------------------|----------|--------|---|
| 417920             | PVC      | Grey   |  |
| CTR.75.030.121870G | PVC      | Grey   |  |

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