

Standard



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[BKT series](#)

[See video assembly instructions](#)

[Customer Drawing](#)

|                                    |                   |
|------------------------------------|-------------------|
| Number of contacts Low Voltage     | 4                 |
| Protocol                           | USB 2.0 (480Mb/s) |
| Wire Size/AWG                      | 30 - 22           |
| Gender                             | Standard          |
| Plug                               | Plug - Straight   |
| Locking system                     | Push-pull         |
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm    |
| Size                               | 1B                |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-1b-304-clad62z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-1b-304-clad62z.html)

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Suggested matching part

EGG.1B.304.CLL  
PHG.1B.304.CLLD62Z

Series

B - Indoor keyed

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-1b-304-clad62z.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-1b-304-clad62z.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                                      | 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                 | 16.03 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.)                                                                          |
| Climatic 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] | 5.30 - 6.20 mm        |

# Recommended By Lemo

## Accessories

|                |                                 |
|----------------|---------------------------------|
| Compatible cap | <a href="#">BFG.1B.100.PCZG</a> |
|----------------|---------------------------------|

## Tools

|                |                                  |
|----------------|----------------------------------|
| Spanner        | <a href="#">DCP.91.001.TN</a>    |
| Spanner wrench | <a href="#">DCD.1B.ZZZ.PA090</a> |

# CAD

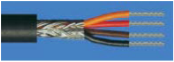
## Documents

|       |                          |
|-------|--------------------------|
| Eplan | <a href="#">Download</a> |
|-------|--------------------------|

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# Cables

| Cable PartNumber | Material | Colour | Cable image                                                                         |
|------------------|----------|--------|-------------------------------------------------------------------------------------|
| 4220             | PVC      | Black  |  |