

Standard



Image for illustrative purpose only

## Summary

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[BKT series](#)

[See video assembly instructions](#)

[Customer Drawing](#)

|                                    |                      |
|------------------------------------|----------------------|
| Number of contacts Low Voltage     | 8                    |
| Protocol                           | 1000 Base-T4 (1Gb/s) |
| Wire Size/AWG                      | 30 - 22              |
| Gender                             | Standard             |
| Plug                               | Plug - Straight      |
| Locking system                     | Push-pull            |
| Jacket cable outside diameter [mm] | 7.30 - 7.60 mm       |
| Size                               | 1B                   |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgg-1b-308-clad76.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgg-1b-308-clad76.html)

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Suggested matching part

EGG.1B.308.CLL  
PHG.1B.308.CLLD76

Series

B - Indoor keyed

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# Technical details

## Electrical Configuration

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Number of contacts Low Voltage            | 8                             |
| Contact Termination Low voltage           | Solder                        |
| R (max) - electrical contact resistance   | 6.1 mOhm                      |
| Insert configuration value                | 1B.308 - 8 Low Voltage        |
| Insulator                                 | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                             | 5 A                           |
| Test voltage contact-contact              | 1.1 kV DC                     |
| Test voltage contact-shell                | 1 kV DC                       |
| Max. 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 (0.031 in)             |
| Contact Dia.                              | 0.7 mm (0.028 in)             |
| Number of differential pairs (High speed) | 4                             |
| Protocol                                  | 1000 Base-T4 (1Gb/s)          |
| Wire Size/AWG                             | 30 - 22                       |
| Gender                                    | Standard                      |

## Form & Material

|                        |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Shell style / Model id | FG - Straight plug, cable collet                                                                                              |
| 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                                                                                                                          |
| Weight                 | 15.28 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       | Standard back nut (no additional protection) |
| Fixation type                      | Cable collet                                 |
| Jacket cable outside diameter [mm] | 7.30 - 7.60 mm                               |

# Recommended By Lemo

## Caps

|                |                                 |
|----------------|---------------------------------|
| Compatible cap | <a href="#">BFG.1B.100.PCZG</a> |
| Plastic Cap    | <a href="#">BFG.1B.100.PCZG</a> |
| Soft Cap       | <a href="#">BFZ.1B.100.SCN</a>  |

## Tools

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

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