

Special



*Image for illustrative purpose only*

## Summary

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[BKT series](#)

[See video assembly instructions](#)

[Customer Drawing](#)

|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 7                              |
| Wire Size/AWG                      | 34 - 28                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Straight                |
| Locking system                     | Push-pull                      |
| Jacket cable outside diameter [mm] | 3.30 - 4.20 mm                 |
| Size                               | 0B                             |
| Suggested matching part            | <a href="#">EGB.0B.307.CLL</a> |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgb-0b-307-clad42.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgb-0b-307-clad42.html)

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# Technical details

## Electrical Configuration

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Number of contacts Low Voltage          | 7                             |
| Contact Termination Low voltage         | Solder                        |
| R (max) - electrical contact resistance | 8.7 mOhm                      |
| Insert configuration value              | 0B.307 - 7 Low Voltage        |
| Insulator                               | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                           | 3 A                           |
| Test voltage contact-contact            | 1.1 kV DC                     |
| Test voltage contact-shell              | 1 kV DC                       |
| Max. Solid Conductor                    | 0.09 mm <sup>2</sup> (AWG 28) |
| Max. Stranded Conductor                 | 0.09 mm <sup>2</sup> (AWG 28) |
| Bucket Dia.                             | 0.45 mm (0.018 in)            |
| Contact Dia.                            | 0.5 mm (0.0197 in)            |
| Wire Size/AWG                           | 34 - 28                       |
| 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                 | B: 2 keys (alpha=60, plug: male contacts, receptacle: female contacts)                                                        |
| Colour                 | Grey                                                                                                                          |
| Weight                 | 8.54 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] | 3.30 - 4.20 mm                               |

# Recommended By Lemo

## Caps

|          |                                |
|----------|--------------------------------|
| Soft Cap | <a href="#">BFZ.0B.100.SCN</a> |
|----------|--------------------------------|

# Cables

| Cable PartNumber | Material | Colour | Cable image                                                                           |
|------------------|----------|--------|---------------------------------------------------------------------------------------|
| 7050             | PVC      | Black  |  |

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