

Special



*Image for illustrative purpose only*

## Summary

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[BKT series](#)

[Customer Drawing](#)

|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 12                             |
| Wire Size/AWG                      | 20 - 18                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Straight                |
| Locking system                     | Push-pull                      |
| Jacket cable outside diameter [mm] | 8.10 - 8.50 mm                 |
| Size                               | 4K                             |
| Suggested matching part            | <a href="#">EGG.4K.312.CYM</a> |
| Series                             | K - Outdoor keyed              |

[https://www.lemo.com/int\\_en/solutions/originals/k-outdoor-keyed/fgg-4k-312-cycc85.html](https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fgg-4k-312-cycc85.html)

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# Technical details

## Electrical Configuration

|                                    |                              |
|------------------------------------|------------------------------|
| Number of contacts Low Voltage     | 12                           |
| Contact Termination Low voltage    | Crimp                        |
| R (max)                            | 3.6 mOhm                     |
| Insert configuration value         | 4K.312 - 12 Low Voltage      |
| Footprint IPC Class3 compatibility | No                           |
| Insulator                          | Y: PEEK for crimp contacts   |
| Rated current                      | 12 A                         |
| Vtest (contact-contact)            | 2.7 kV (DC)                  |
| Vtest (contact-shell)              | 2.6 kV (DC)                  |
| Contact retention                  | 40 N                         |
| Max. Conductor                     | 1 mm <sup>2</sup> (AWG 18)   |
| Min. Conductor                     | 0.5 mm <sup>2</sup> (AWG 20) |
| Bucket Dia.                        | 1.4 mm (0.055in)             |
| Contact Dia.                       | 1.3 mm (0.051in)             |
| Wire Size/AWG                      | 20 - 18                      |
| Gender                             | Standard                     |

## Form & Material

|                        |  |
|------------------------|--|
| Shell style / Model id | FG - Straight plug, cable collet   |
| Plug                   | Straight   |
| Housing material       | Brass (chrome plated [SAE AMS 2460]) shell, collet nut and latch sleeve, nickel plated [SAE AMS QQ N 290] brass mid pieces |
| Locking system         | Push-pull  |
| Keying                 | G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)   |
| Colour                 | Grey   |
| Weight                 | 145.56 g   |

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## Environment

|                                   |   |
|-----------------------------------|---|
| Technical domain                  | Audio Video, Energy and Industrial, Medical, Test and Measurement |
| Environmental sealing (IP rating) | IP68  |
| Endurance                         | 5000 mating cycles  |
| Temperature range                 | -55°C / +200°C (max. temperature valid for short periods of use.) |
| Climatic Category                 | 50/175/21   |
| Humidity (max)                    | <=95% [at 60 deg C /140 F]  |
| Shielding (min)                   | 95 dB (10 MHz)  |
| Shielding (min)                   | 80 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] | 8.10 - 8.50 mm                               |

# Recommended By Lemo

## Accessories

|                     |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">FGG.4B.565.ZZC</a> |
| Compatible cap      | <a href="#">BFG.4K.100.NAS</a> |

## Tools

|                 |                                  |
|-----------------|----------------------------------|
| Positionner     | <a href="#">DCE.91.134.BVC</a>   |
| Extraction tool | <a href="#">DCC.13.15B.LAG</a>   |
| Crimp tool      | <a href="#">DPC.91.701.V</a>     |
| Spanner wrench  | <a href="#">DCD.4E.ZZZ.PA190</a> |

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## Documents

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Eplan

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