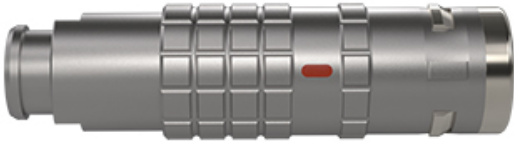


Standard



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[BKT series](#)

[Customer Drawing](#)

|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| Number of contacts Low Voltage     | 2                                                                 |
| Wire Size/AWG                      | 28 - 20                                                           |
| Gender                             | Standard                                                          |
| Plug                               | Plug - Straight                                                   |
| Locking system                     | Push-pull                                                         |
| Jacket cable outside diameter [mm] | 4.60 - 5.00 mm                                                    |
| Size                               | 1K                                                                |
| Suggested matching part            | <a href="#">EGG.1K.302.CLL</a><br><a href="#">HGG.1K.302.CLLP</a> |
| Series                             | K - Outdoor keyed                                                 |

[https://www.lemo.com/int\\_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html](https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html)

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# Technical details

## Electrical Configuration

|                                 |                              |
|---------------------------------|------------------------------|
| Number of contacts Low Voltage  | 2                            |
| Contact Termination Low voltage | Solder                       |
| R (max)                         | 3.6 mOhm                     |
| Insert configuration value      | 1K.302 - 2 Low Voltage       |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)    |
| Rated current                   | 15 A                         |
| Vtest (contact-contact)         | 2.1 kV (DC)                  |
| Vtest (contact-shell)           | 2 kV (DC)                    |
| Max. Solid Conductor            | 0.5 mm <sup>2</sup> (AWG 20) |
| Max. Stranded Conductor         | 0.5 mm <sup>2</sup> (AWG 20) |
| Bucket Dia.                     | 1 mm (0.039in)               |
| Contact Dia.                    | 1.3 mm (0.051in)             |
| Wire Size/AWG                   | 28 - 20                      |
| 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, 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                                                                                                                       |
| Variant                | Nut for fitting a bend relief                                                                                              |
| Weight                 | 23.14 g                                                                                                                    |

[https://www.lemo.com/int\\_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html](https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html)

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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       | For cable bend relief |
| Fixation type                      | Cable collet          |
| Jacket cable outside diameter [mm] | 4.60 - 5.00 mm        |

# Recommended By Lemo

## Accessories

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

# CAD







## Documents

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

[https://www.lemo.com/int\\_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html](https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html)

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# Cables

| Cable PartNumber   | Material      | Colour | Cable image                                                                         |
|--------------------|---------------|--------|-------------------------------------------------------------------------------------|
| CMN.02.T20.047PGZE |               | grey   |  |
| CMN.02.T20.047PNZE |               |        |  |
| CMN.02.T20.048QGZE | TPR (medical) | Grey   |  |
| 120240             | PVC           | Black  |  |
| 120501             | PVC           | Grey   |  |
| 2221               | PVC           | Black  |  |
| 4082               | PVC           | Grey   |                                                                                     |

[https://www.lemo.com/int\\_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html](https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/fgg-1k-302-clac50z.html)

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