

Standard



*Image for illustrative purpose only*

## Summary

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[BKT series](#)

[Customer Drawing](#)

|                                    |                                                                      |
|------------------------------------|----------------------------------------------------------------------|
| Number of contacts Low Voltage     | 7                                                                    |
| Wire Size/AWG                      | 30 - 22                                                              |
| Gender                             | Standard                                                             |
| Plug                               | Plug - Straight                                                      |
| Locking system                     | Push-pull                                                            |
| Jacket cable outside diameter [mm] | 5.10 - 5.50 mm                                                       |
| Size                               | 1T                                                                   |
| Suggested matching part            | <a href="#">EGG.1T.307.CLL</a><br><a href="#">PHG.1T.307.CLLC55Z</a> |

[https://www.lemo.com/int\\_en/solutions/originals/t-small-outdoor-keyed/fgg-1t-307-clac55z.html](https://www.lemo.com/int_en/solutions/originals/t-small-outdoor-keyed/fgg-1t-307-clac55z.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 7                             |
| Contact Termination Low voltage | Solder                        |
| R (max)                         | 6.1 mOhm                      |
| Insert configuration value      | T.307 - 7 Low Voltage         |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 7 A                           |
| Test voltage contact-contact    | 1.4 kV DC                     |
| Test voltage contact-shell      | 1.5 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 (0.031in)              |
| Contact Dia.                    | 0.7 mm (0.028in)              |
| 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                 | 16.98 g                                                                                                                       |

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## Environment

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| Technical domain                  | Energy and Industrial, Test and Measurement                       |
| Environmental sealing (IP rating) | IP68                                                              |
| Endurance                         | >3000 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]                                        |
| 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] | 5.10 - 5.50 mm        |

# Recommended By Lemo

## Caps

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

## Bend Reliefs

|                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| <a href="#">GMA.1B.054.DG</a> | <a href="#">GMA.1B.054.DA</a> | <a href="#">GMA.1B.054.DB</a> |
| <a href="#">GMA.1B.054.DJ</a> | <a href="#">GMA.1B.054.DM</a> | <a href="#">GMA.1B.054.DN</a> |
| <a href="#">GMA.1B.054.DR</a> | <a href="#">GMA.1B.054.DS</a> | <a href="#">GMA.1B.054.DV</a> |

## Tools

|         |                               |
|---------|-------------------------------|
| Spanner | <a href="#">DCP.0T.110.TN</a> |
|---------|-------------------------------|

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