

*Image for illustrative purpose only*

## Summary

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|                                    |                           |
|------------------------------------|---------------------------|
| Number of contacts Low Voltage     | 4                         |
| Wire Size/AWG                      | 30 - 22                   |
| Plug                               | Plug - Straight           |
| Locking system                     | Push-pull                 |
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm            |
| Size                               | 1S                        |
| Series                             | S - Indoor Stepped Insert |

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/fgz-1s-304-clad62.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/fgz-1s-304-clad62.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 4                             |
| Contact Termination Low voltage | Solder                        |
| R (max)                         | 4.8 mOhm                      |
| Insert configuration value      | 1S.304 - 4 Low Voltage        |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 10 A                          |
| Test voltage (kV DC)            | 1.8                           |
| Max. Solid Conductor            | 0.34 mm <sup>2</sup> (AWG 22) |
| Air clearance                   | 1.1 mm                        |
| Creepage distance               | 1.1 mm                        |
| Bucket Dia.                     | 0.8 mm (0.031in)              |
| Contact Dia.                    | 0.9 mm (0.0354in)             |
| Wire Size/AWG                   | 30 - 22                       |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | FGZ - Straight plug - design chocolate block, 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                 | Hermaphroditic keying (half moon insert) with male pin 1  |
| Colour                 | Grey  |
| Weight                 | 19.03 g   |

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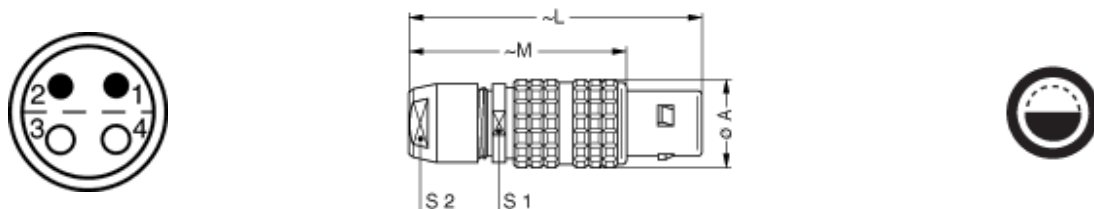
## Environment

|                                   |   |
|-----------------------------------|---|
| Technical domain                  | Audio Video, Energy and Industrial, Semiconductor, Test and Measurement |
| Environmental sealing (IP rating) | IP50  |
| Endurance                         | 5000 mating cycles  |
| Temperature range                 | -55°C / +250°C (max. temperature valid for short periods of use.)       |
| Climatical Category               | 50/175/21   |
| 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] | 5.30 - 6.20 mm                               |

## Drawings



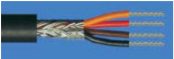
## Dimensions

|     | A    | L    | M    | S1   | S2   |
|-----|------|------|------|------|------|
| mm. | 12   | 43   | 32   | 10   | 9    |
| in. | 0.47 | 1.69 | 1.26 | 0.39 | 0.35 |

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# Cables

| Cable PartNumber | Material | Colour | Cable image   |
|------------------|----------|--------|---|
| 4220             | PVC      | Black  |  |

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