



Image for illustrative purpose only

## Summary

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|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 8                              |
| Wire Size/AWG                      | 26 - 22                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Straight                |
| Locking system                     | Break-away                     |
| Jacket cable outside diameter [mm] | 3.80 - 10.70 mm                |
| Size                               | 1F                             |
| Suggested matching part            | <a href="#">EGN.1F.308.XLM</a> |
| Series                             | F - Rugged Push-Pull           |

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/fgn-1f-308-xlcf.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-1f-308-xlcf.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 8                             |
| Contact Termination Low voltage | Crimp                         |
| R (max)                         | 6.1 mOhm                      |
| Insert configuration value      | 1F.308 - 8 Low Voltage        |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 5 A                           |
| Vtest (contact-contact)         | 1300 V (AC), 1840 V (DC)      |
| Vtest (contact-shell)           | 1300 V (AC), 1840 V (DC)      |
| Contact retention               | 22 N                          |
| Max. Conductor                  | 0.34 mm <sup>2</sup> (AWG 22) |
| Min. Conductor                  | 0.14 mm <sup>2</sup> (AWG 26) |
| Bucket Dia.                     | 0.8 mm (0.031in)              |
| Contact Dia.                    | 0.7 mm (0.028in)              |
| Wire Size/AWG                   | 26 - 22                       |
| Gender                          | Standard                      |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | FG - Straight plug  |
| Plug                   | Straight  |
| Housing material       | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Locking system         | Break-away  |
| Keying                 | 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)                           |
| Colour                 | Grey  |
| Weight                 | 8.88 g  |

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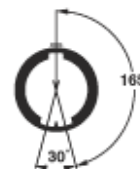
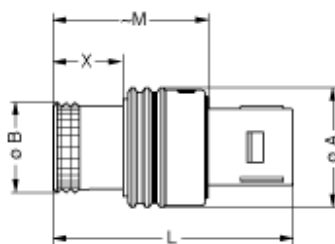
## Environment

|                                   |   |
|-----------------------------------|---|
| Technical domain                  | Motorsport, Security and Defence                                  |
| Environmental sealing (IP rating) | IP67  |
| Endurance                         | 1000 mating cycles  |
| Temperature range                 | -15°C / +200°C (max. temperature valid for short periods of use.) |
| Climatical Category               | 15/200/21 (Aluminium shell)                                       |
| 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              | max. 48 hr  |

## Cable fixation

|                                    |                 |
|------------------------------------|-----------------|
| Cable termination protection       | Heatshrink      |
| Fixation type                      | Heatshrink      |
| Jacket cable outside diameter [mm] | 3.80 - 10.70 mm |

## Drawings



## Dimensions

|     | <b>M</b> | <b>A</b> | <b>B</b> | <b>L</b> | <b>X</b> |
|-----|----------|----------|----------|----------|----------|
| mm. | 17.9     | 14       | 10.7     | 27.8     | 8        |
| in. | 0.7      | 0.55     | 0.42     | 1.09     | 0.31     |

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# Recommended By Lemo

## Accessories

Replacement contact [FGG.0B.555.ZZC](#)

Compatible cap [BFG.1F.100.XAZ](#)



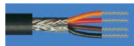









## Tools

Positionner [DCE.91.070.BVC](#)

Extraction tool [DCF.93.070.4LT](#)

Crimp tool [DPC.91.701.V](#)

# Cables

| Cable PartNumber   | Material      | Colour | Cable image  |
|--------------------|---------------|--------|--|
| CMN.08.T22.059QGC  | TPR           | Grey   |  |
| CMN.08.T22.059QGZE | TPR (medical) | Grey   |    |
| CMN.08.T26.042QGZE | TPR (medical) | Grey   |    |
| 108220             | PVC           | Black  |  |
| 108240             | PTFE          | White  |  |
| 108260             | PTFE          | White  |  |
| 16080              | PVC           | Grey   |  |
| 180240             | PVC           | Black  |  |
| 180260             | PVC           | Black  |  |
| 280250             | PVC           | Grey   |  |
| 335990             | PVC           | Black  |  |
| 335991             | PVC           | Black  |  |
| 42265              | PVC           | Yellow |  |
| 80140              | PVC           | Grey   |   |
| 8280               | PVC           | Black  |  |

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