



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[f series](#)

[See video assembly instructions](#)

|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 19                             |
| Wire Size/AWG                      | 26 - 22                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Straight                |
| Locking system                     | Push-pull                      |
| Jacket cable outside diameter [mm] | 5.30 - 14.00 mm                |
| Size                               | 2F                             |
| Suggested matching part            | <a href="#">EGN.2F.319.XLM</a> |
| Series                             | F - Rugged Push-Pull           |

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/fgn-2f-319-xlcs.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-2f-319-xlcs.html)

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# Technical details

## Electrical Configuration

|                                    |                               |
|------------------------------------|-------------------------------|
| Number of contacts Low Voltage     | 19                            |
| Contact Termination Low voltage    | Crimp                         |
| R (max)                            | 6.1 mOhm                      |
| Insert configuration value         | 2F.319 - 19 Low Voltage       |
| Footprint IPC Class3 compatibility | No                            |
| Insulator                          | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                      | 5 A                           |
| Vtest (contact-contact)            | 1550 V (AC), 2200 V (DC)      |
| Vtest (contact-shell)              | 1650 V (AC), 2350 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         | Push-pull                                                                                               |
| Keying                 | 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)                           |
| Colour                 | Grey                                                                                                    |
| Variant                | S: Silicone gasket                                                                                      |
| Weight                 | 13.01 g                                                                                                 |

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/fgn-2f-319-xlcs.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-2f-319-xlcs.html)

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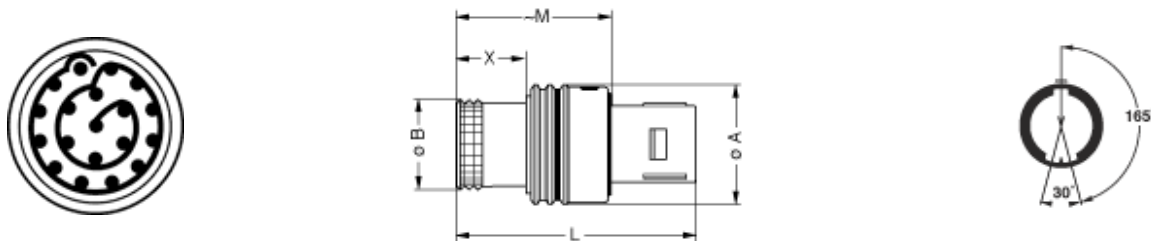
## Environment

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| Technical domain                  | Motorsport, Security and Defence                                  |
| Environmental sealing (IP rating) | IP67                                                              |
| Endurance                         | 1000 mating cycles                                                |
| Temperature range                 | -55°C / +200°C (max. temperature valid for short periods of use.) |
| Climatic Category                 | 15/200/21 (Aluminium shell)                                       |
| Humidity (max)                    | <=95% [at 60 deg C /140 F]                                        |
| Operating temperature             | -55°C/ +200°C                                                     |
| 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] | 5.30 - 14.00 mm |

## Drawings



## Dimensions

|     | M    | A    | B    | L    | X    |
|-----|------|------|------|------|------|
| mm. | 17.9 | 17   | 14   | 27.8 | 8    |
| in. | 0.7  | 0.67 | 0.55 | 1.09 | 0.31 |

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# Recommended By Lemo

| Accessories         |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">FGG.0B.555.ZZC</a> |
| Compatible cap      | <a href="#">BFG.2F.100.XAZ</a> |
| Tools               |                                |
| Positionner         | <a href="#">DCE.91.070.BVC</a> |
| Extraction tool     | <a href="#">DCF.93.070.4LT</a> |
| Crimp tool          | <a href="#">DPC.91.701.V</a>   |

## CAD

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

## Cables

| Cable PartNumber   | Material      | Colour | Cable image                                                                           |
|--------------------|---------------|--------|---------------------------------------------------------------------------------------|
| CMN.19.T22.079QGZE | TPR (medical) | Grey   |  |