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## Summary

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[f series](#)

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Number of contacts Low Voltage     | 12                                              |
| Wire Size/AWG                      | 26 - 22                                         |
| Gender                             | Standard                                        |
| Socket / Receptacle                | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system                     | Push-pull                                       |
| Jacket cable outside diameter [mm] | 5.30 - 14.00 mm                                 |
| Size                               | 2F                                              |
| Suggested matching part            | <a href="#">FGP.2F.312.XLC</a>                  |
| Series                             | F - Rugged Push-Pull                            |

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/egp-2f-312-xlm.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/egp-2f-312-xlm.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 12                            |
| Contact Termination Low voltage | Crimp                         |
| R (max)                         | 6.1 mOhm                      |
| Insert configuration value      | 2F.312 - 12 Low Voltage       |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 7 A                           |
| Vtest (contact-contact)         | 1650 V (AC), 2350 V (DC)      |
| Vtest (contact-shell)           | 2000 V (AC), 2850 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 | EG - Fixed receptacle, nut fixing                                                                       |
| Socket / Receptacle    | Fixed Panel Front Mounted                                                                               |
| 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=150, gamma=60, plug: male contacts, receptacle: female contacts)                           |
| Colour                 | Grey                                                                                                    |
| Weight                 | 7.29 g                                                                                                  |

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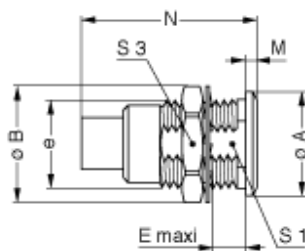
## Environment

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| Technical domain                  | Motorsport, Security and Defence                                  |
| Environmental sealing (IP rating) | IP50                                                              |
| Endurance                         | 1000 mating cycles                                                |
| Temperature range                 | -15°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]                                        |
| Shock Resistance                  | 100 g [ 6 ms]                                                     |
| Vibration                         | 15 g [10 Hz - 2000 Hz]                                            |
| Salt Spray Corrosion              | max. 48 hr                                                        |

## Cable fixation

|                                    |                 |
|------------------------------------|-----------------|
| Jacket cable outside diameter [mm] | 5.30 - 14.00 mm |
|------------------------------------|-----------------|

## Drawings



## Dimensions

|     | <b>B</b> | <b>e</b> | <b>E</b> | <b>N</b> | <b>M</b> | <b>S1</b> | <b>S3</b> | <b>A</b> |
|-----|----------|----------|----------|----------|----------|-----------|-----------|----------|
| mm. | 19.5     | M15x1.0  | 6        | 19       | 1.8      | 13.5      | 17        | 18       |
| in. | 0.77     |          | 0.24     | 0.75     | 0.07     | 0.53      | 0.67      | 0.71     |

## Recommended By Lemo

### Accessories

|                     |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">EGG.0B.655.ZZM</a> |
| Compatible cap      | <a href="#">BRE.2F.200.XAV</a> |

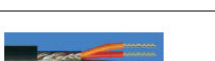
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## Tools

|                 |                                |
|-----------------|--------------------------------|
| Positionner     | <a href="#">DCE.91.070.BVM</a> |
| Extraction tool | <a href="#">DCF.93.070.4LT</a> |
| Crimp tool      | <a href="#">DPC.91.701.V</a>   |

## Cables

| Cable PartNumber   | Material      | Colour | Cable image                                                                           |
|--------------------|---------------|--------|---------------------------------------------------------------------------------------|
| CMN.12.T22.070QGZE | TPR (medical) | Grey   |    |
| CMN.12.T28.054PGZE |               | grey   |    |
| CMN.12.T28.054PNZE |               |        |    |
| 112240             | PTFE          | White  |    |
| 112260             | PTFE          | White  |    |
| 112280             | PVC           | Black  |   |
| 12050              | PVC           | Black  |  |
| 124080             | PVC           | Grey   |                                                                                       |
| 124084             | PVC           | Black  |                                                                                       |
| 212220             | PVC           | Black  |  |
| 212240             | PVC           | Black  |  |
| 212250             | PVC           | Grey   |  |
| 212260             | PVC           | Black  |  |

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