



*Image for illustrative purpose only*

## Summary

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|                                |  |
|--------------------------------|--|
| Number of contacts Low Voltage | 3  |
| Gender                         | Reverse Gender                                 |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Push-pull                                      |
| Size                           | 1F   |
| Suggested matching part        | <a href="#">FGT.1F.303.XLM</a>                 |
| Series                         | F - Rugged Push-Pull                           |

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/het-1f-303-xldp.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/het-1f-303-xldp.html)

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# Technical details

## Electrical Configuration

|                                 |                           |
|---------------------------------|---------------------------|
| Number of contacts Low Voltage  | 3                         |
| Contact Termination Low voltage | PCB - Straight            |
| Insert configuration value      | 1F.303 - 3 Low Voltage    |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5) |
| Rated current                   | 12 A                      |
| Vtest (contact-contact)         | 1600 V (AC), 2250 V (DC)  |
| Vtest (contact-shell)           | 1850 V (AC), 2600 V (DC)  |
| Contact Dia.                    | 1.3                       |
| Gender                          | Reverse Gender            |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | HE - Fixed receptacle, nut fixing, for printed circuit (back panel mounting)                            |
| Socket / Receptacle    | Fixed Panel Rear 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=160, gamma=40, plug: female contacts, receptacle: male contacts)                           |
| Colour                 | Grey  |
| Variant                | Watertight unmated (connector to device)  |

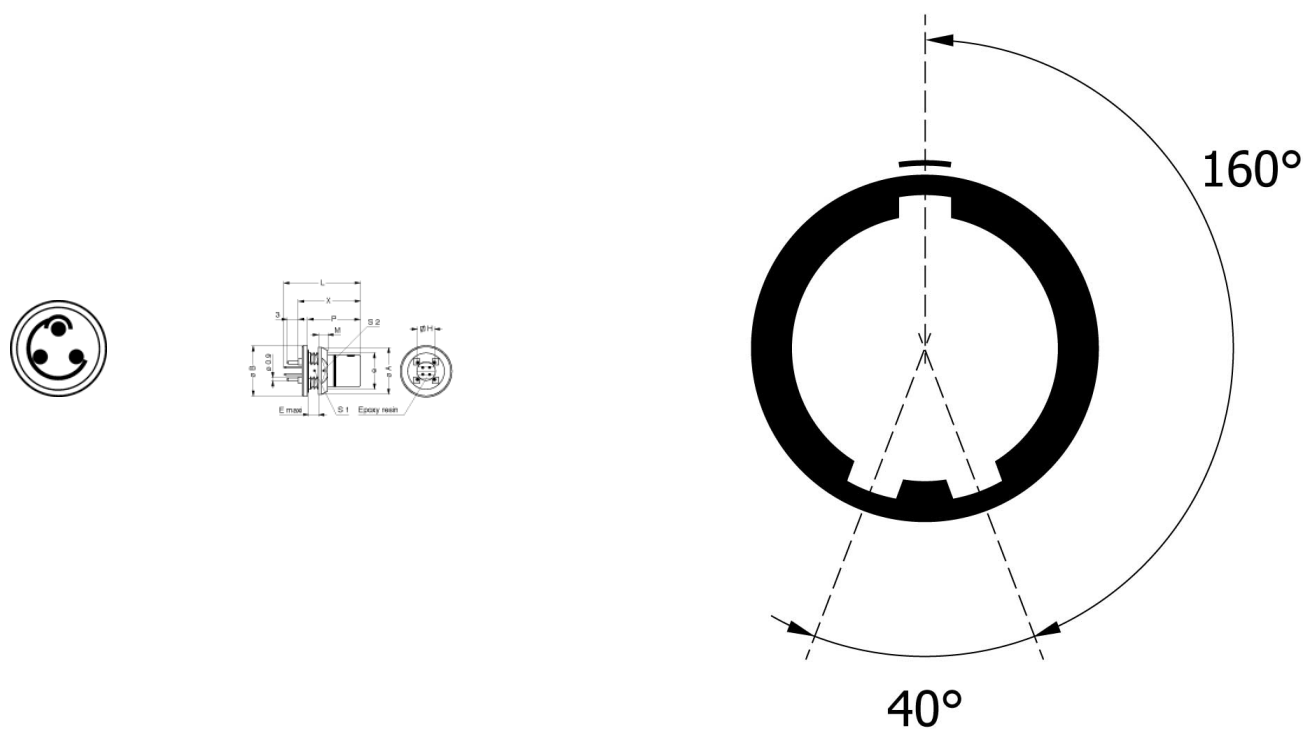
## Environment

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Technical domain                  | Motorsport, Security and Defence |
| Environmental sealing (IP rating) | IP68                             |
| Endurance                         | 1000 mating cycles               |
| Temperature range                 | -15°C / +100°C                   |
| 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]           |
| Pressure                          | 5 bars                           |
| Salt Spray Corrosion              | max. 48 hr                       |

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# Drawings



## Dimensions

|     | A    | B    | e        | E    | H    | L    | M    | P    | S1   | S2   | X    |
|-----|------|------|----------|------|------|------|------|------|------|------|------|
| mm. | 17   | 17   | M13x0.75 | 3    | 7.62 | 21.5 | 3.2  | 14.5 | 11.5 | 14   | 17.5 |
| in. | 0.67 | 0.67 |          | 0.12 | 0.3  | 0.85 | 0.13 | 0.57 | 0.45 | 0.55 | 0.69 |

# Recommended By Lemo

## Accessories

|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BRE.1F.200.XAV</a> |
|----------------|--------------------------------|

## Tools

|           |                               |
|-----------|-------------------------------|
| Spanner 2 | <a href="#">DCM.65.140.AZ</a> |
|-----------|-------------------------------|