



## Summary

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|                                |  |
|--------------------------------|--|
| Number of contacts Low Voltage | 12   |
| Gender                         | Standard                                       |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Push-pull                                      |
| Size                           | 2F   |
| Matching parts                 | <a href="#">FGP.2F.312.CLC</a>                 |
| Series                         | F - Rugged Push-Pull                           |

## Technical details

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

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## Electrical Configuration

|                                 |                           |
|---------------------------------|---------------------------|
| Contact Termination Low voltage | PCB - Straight            |
| 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 Amps                    |
| Vtest (contact-contact)         | 1650 V (AC), 2350 V (DC)  |
| Vtest (contact-shell)           | 2000 V (AC), 2850 V (DC)  |
| Contact Type                    | Print (straight)          |
| Contact Dia.                    | 0.7 mm (0.028in)          |
| Number of contacts Low Voltage  | 12                        |
| Gender                          | Standard                  |

## 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       | Brass (chrome plated [SAE AMS 2460]) shell and nut, other pieces brass        |
| Locking system         | Push-pull   |
| Keying                 | 3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts) |
| Variant                | Watertight unmated (connector to device)                                      |
| Weight                 | 17.08 g   |

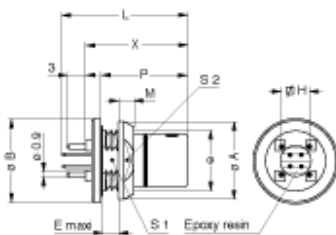
## Environment

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Technical domain                     | Motorsport, Security and Defence |
| Environmental protection (IP rating) | IP68                             |
| Minimal temperature                  | -50°C / +150°C                   |
| Climatical Category                  | 50/175/21 (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                 | >1000 hr                         |

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# Drawings



## Dimensions

|     | <b>A</b> | <b>B</b> | <b>e</b> | <b>E</b> | <b>H</b> | <b>L</b> | <b>M</b> | <b>P</b> | <b>S1</b> | <b>S2</b> | <b>X</b> |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|
| mm. | 20       | 20       | M16x1.0  | 3        | 8.89     | 21.5     | 4        | 14.5     | 14.5      | 17        | 17.5     |
| in. | 0.79     | 0.79     |          | 0.12     | 0.35     | 0.85     | 0.16     | 0.57     | 0.57      | 0.67      | 0.69     |

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