



*Image for illustrative purpose only*

## Summary

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|                                |  |
|--------------------------------|--|
| Number of contacts Low Voltage | 12   |
| Gender                         | Reverse Gender                                 |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Push-pull                                      |
| Size                           | 2F   |
| Suggested matching part        | <a href="#">FGS.2F.312.CLM</a>                 |
| Series                         | F - Rugged Push-Pull                           |

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

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# Technical details

## Electrical Configuration

|                                 |                           |
|---------------------------------|---------------------------|
| Number of contacts Low Voltage  | 12                        |
| 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 A                       |
| Vtest (contact-contact)         | 1650 V (AC), 2350 V (DC)  |
| Vtest (contact-shell)           | 2000 V (AC), 2850 V (DC)  |
| Contact Dia.                    | 0.7 mm (0.028in)          |
| 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       | Brass (chrome plated [SAE AMS 2460]) shell and nut, other pieces brass        |
| Locking system         | Push-pull   |
| Keying                 | 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts) |
| Variant                | Watertight unmated (connector to device)                                      |
| Weight                 | 16.36 g   |

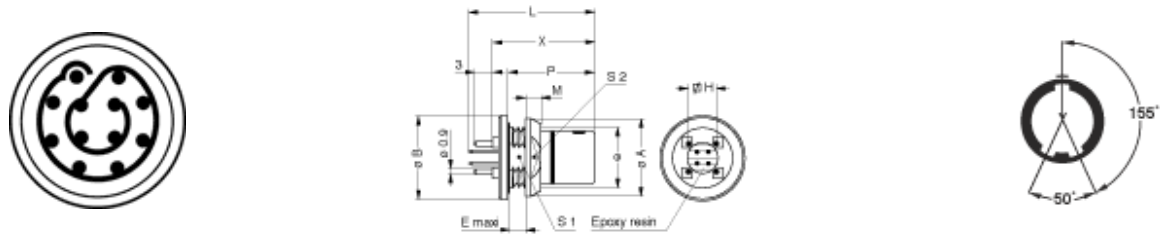
## Environment

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Technical domain                  | Motorsport, Security and Defence |
| Environmental sealing (IP rating) | IP68                             |
| Endurance                         | 5000 mating cycles               |
| Temperature range                 | -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

|     | A    | B    | e       | E    | H    | L    | M    | P    | S1   | S2   | X    |
|-----|------|------|---------|------|------|------|------|------|------|------|------|
| 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 |

# Recommended By Lemo

## Accessories

|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BRE.2F.200.XAV</a> |
|----------------|--------------------------------|