



Image for illustrative purpose only

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 |
| Suggested matching part | FGP.2F.312.CLC |
| Series | F - Rugged Push-Pull |

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/hep-2f-312-clnp.html

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Technical details

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 A |
| 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 |

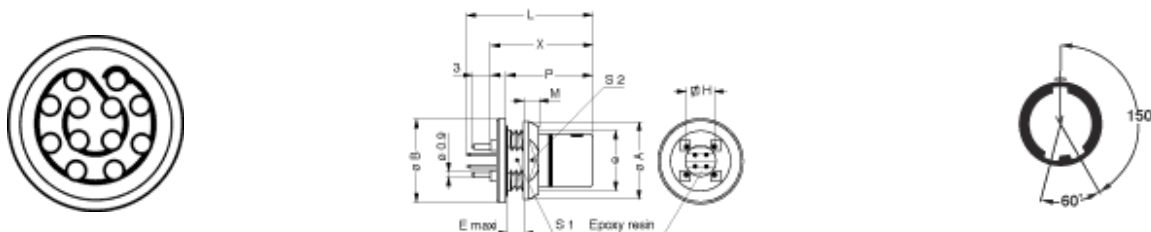
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Environment

| | |
|-----------------------------------|----------------------------------|
| 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 |

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 |

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