



## Summary

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|                     |  |
|---------------------|--|
| Low Voltage         | 4  |
| Gender              | Standard                                       |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system      | Ratchet  |
| Size                | 0M   |
| Matching parts      | <a href="#">FMP.0M.304.XLC</a>                 |
| Series              | M - Rugged Ratchet coupling                    |

## Technical details

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/hep-0m-304-xlnp.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hep-0m-304-xlnp.html)

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## Electrical Configuration

|                                       |                        |
|---------------------------------------|------------------------|
| Contact Termination Low voltage       | PCB - Straight         |
| R (max)                               | 6.1 mOhm               |
| Insert configuration value            | 0M.304 - 4 Low Voltage |
| Insulator                             | L: PEEK                |
| Rated current                         | 7 Amps                 |
| Test voltage (kV rms) Contact-contact | 1.35                   |
| Test voltage (kV rms) Contact-shell   | 0.9                    |
| Contact Type                          | Print (straight)       |
| Contact Dia.                          | 0.7 mm (0.028in)       |
| Low Voltage                           | 4                      |
| Gender                                | Standard               |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | HE - Fixed receptacle, nut fixing for printed circuit, watertight                                       |
| 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         | Ratchet   |
| Keying                 | 3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts)                           |
| Variant                | Watertight unmated (connector to device)  |
| Weight                 | 7.72 g  |

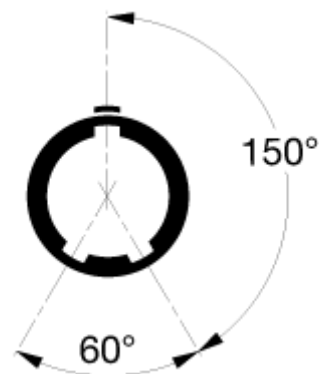
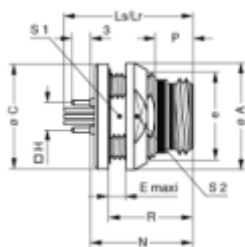
## Environment

|                                      |  |
|--------------------------------------|--|
| Technical domain                     | Motorsport, Security and Defence, Transportation, Aerospace and UAV    |
| Environmental protection (IP rating) | IP68   |
| Minimal temperature                  | -20°C / +80°C  |
| EMI Shielding EIA 364-66A            | >= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz) |
| Gunfire vibration                    | 25 Hz - 2000 Hz, 3 axis (Apache helicopter)                            |
| Humidity (max)                       | 21 days at 95%   |
| Lighting strike EIA 364-76           | 10K amps - 6 times   |
| Shock Resistance                     | 300 g [ 3 ms]  |
| Vibration-Random                     | 37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]                        |
| Vibration-Sine                       | 30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]                                  |
| Salt Spray Corrosion                 | max. 48 hr   |

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# Drawings



## Dimensions

|     | <b>A</b> | <b>C</b> | <b>e</b> | <b>E</b> | <b>H</b> | <b>Ls</b> | <b>Lr</b> | <b>N</b> | <b>P</b> | <b>R</b> | <b>S1</b> | <b>S2</b> |
|-----|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|-----------|-----------|
| mm. | 17       | 16.8     | M13x0.75 | 5        | 5.08     | 20.8      | 21        | 16.8     | 5.3      | 13.8     | 11.5      | 14        |
| in. | 0.67     | 0.66     |          | 0.2      | 0.2      | 0.82      | 0.83      | 0.66     | 0.21     | 0.54     | 0.45      | 0.55      |

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