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## Summary

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|                                |                                                |
|--------------------------------|------------------------------------------------|
| Number of contacts Low Voltage | 7                                              |
| Gender                         | Reverse Gender                                 |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Ratchet                                        |
| Size                           | 1M                                             |
| Suggested matching part        | <a href="#">FMS.1M.307.XLM</a>                 |
| Series                         | M - Rugged Ratchet coupling                    |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/hes-1m-307-xldp.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hes-1m-307-xldp.html)

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# Technical details

## Electrical Configuration

|                                       |                        |
|---------------------------------------|------------------------|
| Contact Termination Low voltage       | PCB - Straight         |
| R (max)                               | 6.1 mOhm               |
| Insert configuration value            | 1M.307 - 7 Low Voltage |
| Insulator                             | L: PEEK                |
| Rated current                         | 7 A                    |
| Test voltage (kV rms) Contact-contact | 1.45                   |
| Test voltage (kV rms) Contact-shell   | 1.2                    |
| Contact Type                          | Print (straight)       |
| Contact Dia.                          | 0.7 mm (0.028in)       |
| Number of contacts Low Voltage        | 7                      |
| Gender                                | Reverse Gender         |

## 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                 | S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)                        |
| Colour                 | Grey                                                                                                    |
| Variant                | Watertight unmated (connector to device)                                                                |
| Weight                 | 5.32 g                                                                                                  |

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## Environment

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Technical domain                  | Motorsport, Security and Defence, Transportation, Aerospace and UAV    |
| Environmental sealing (IP rating) | IP68                                                                   |
| Endurance                         | 3000 mating cycles                                                     |
| Temperature range                 | -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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