



## Summary

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|                     |  |
|---------------------|--|
| Low Voltage         | 30   |
| Gender              | Standard                                       |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system      | Ratchet  |
| Size                | 3M   |
| Matching parts      | <a href="#">FMN.3M.330.XLC</a>                 |
| Series              | M - Rugged Ratchet coupling                    |

## Technical details

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/hen-3m-330-xlnp.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hen-3m-330-xlnp.html)

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## Electrical Configuration

|                                       |                         |
|---------------------------------------|-------------------------|
| Contact Termination Low voltage       | PCB - Straight          |
| R (max)                               | 6.1 mOhm                |
| Insert configuration value            | 3M.330 - 30 Low Voltage |
| Insulator                             | L: PEEK                 |
| Rated current                         | 3.5 Amps                |
| Test voltage (kV rms) Contact-contact | 1.10                    |
| Test voltage (kV rms) Contact-shell   | 1.00                    |
| Contact Type                          | Print (straight)        |
| Contact Dia.                          | 0.7 mm (0.028in)        |
| Low Voltage                           | 30                      |
| 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=165, gamma=30, plug: male contacts, receptacle: female contacts)                           |
| Variant                | Watertight unmated (connector to device)  |
| Weight                 | 11.45 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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