

Special

*Image for illustrative purpose only*

## Summary

[Request a quote](#)[M series](#)[Application leaflet Security Defence](#)[Customer Drawing](#)

|                                |                                                |
|--------------------------------|------------------------------------------------|
| Number of contacts Low Voltage | 68                                             |
| Gender                         | Standard                                       |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Ratchet                                        |
| Panel Drill Hole               | M28                                            |
| Size                           | LM                                             |
| Suggested matching part        | <a href="#">FMW.LM.368.XLC</a>                 |
| Series                         | M - Rugged Ratchet coupling                    |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/hew-lm-368-xlnp.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hew-lm-368-xlnp.html)

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# Technical details

## Electrical Configuration

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Number of contacts Low Voltage            | 68                                           |
| Contact Termination Low voltage           | PCB - Straight                               |
| R (max)                                   | 6.1 mOhm                                     |
| Insert configuration value                | LM.368 - 68 (0.7 mm) Low Voltage             |
| Footprint IPC Class3 compatibility        | Yes                                          |
| Class3 Productibility Level Compatibility | A (General Design Producibility - Preferred) |
| Insulator                                 | L: PEEK                                      |
| Rated current                             | 2.5 A                                        |
| Test voltage (kV rms) Contact-contact     | 1.40                                         |
| Test voltage (kV rms) Contact-shell       | 1.65                                         |
| Contact Dia.                              | 0.7 mm (0.028in)                             |
| 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                 | W: 5 keys (alpha=95, beta=115, gamma=35, delta=25, plug: male contacts, receptacle: female contacts)    |
| Colour                 | Grey                                                                                                    |
| Variant                | Watertight unmated (connector to device)                                                                |
| Weight                 | 28.98 g                                                                                                 |
| Panel Drill Hole       | M28                                                                                                     |

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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                                                             |

## Recommended By Lemo

### Caps

|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BGK.LM.200.XAZ</a> |
| Cap 2          | <a href="#">BMK.LM.200.XAZ</a> |

### Tools

|                |                               |
|----------------|-------------------------------|
| Spanner 2      | <a href="#">DCM.65.290.AZ</a> |
| Spanner wrench | <a href="#">DCM.65.290.AZ</a> |

## CAD

### Documents

|           |                          |
|-----------|--------------------------|
| PCB Eagle | <a href="#">Download</a> |
|-----------|--------------------------|

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