



*Image for illustrative purpose only*

## Summary

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|                                    |   |
|------------------------------------|---|
| Number of contacts Low Voltage     | 8   |
| Wire Size/AWG                      | 24 - 20   |
| Gender                             | Standard  |
| Socket / Receptacle                | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system                     | Ratchet   |
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm                                 |
| Size                               | 2M  |
| Suggested matching part            | <a href="#">FMN.2M.308.XLC</a>                  |
| Series                             | M - Rugged Ratchet coupling                     |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/egn-2m-308-xlm.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/egn-2m-308-xlm.html)

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# Technical details

## Electrical Configuration

|                                       |                               |
|---------------------------------------|-------------------------------|
| Contact Termination Low voltage       | Crimp                         |
| R (max)                               | 4.8 mOhm                      |
| Insert configuration value            | 2M.308 - 8 Low Voltage        |
| Insulator                             | L: PEEK                       |
| Rated current                         | 10 A                          |
| Test voltage (kV rms) Contact-contact | 1.95                          |
| Test voltage (kV rms) Contact-shell   | 1.1                           |
| Contact retention                     | 30 N                          |
| Contact Type                          | Crimp                         |
| Max. Conductor                        | 0.5 mm <sup>2</sup> (AWG 20)  |
| Min. Conductor                        | 0.25 mm <sup>2</sup> (AWG 24) |
| Bucket Dia.                           | 1.1 mm (0.043in)              |
| Contact Dia.                          | 0.9 mm (0.035in)              |
| Number of contacts Low Voltage        | 8                             |
| Wire Size/AWG                         | 24 - 20                       |
| Gender                                | Standard                      |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | EG - Fixed receptacle, nut fixing   |
| Socket / Receptacle    | Fixed Panel Front 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)                           |
| Colour                 | Grey  |
| Weight                 | 7.41 g  |

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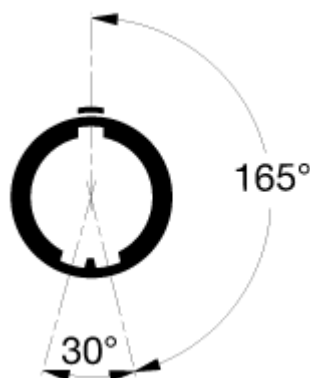
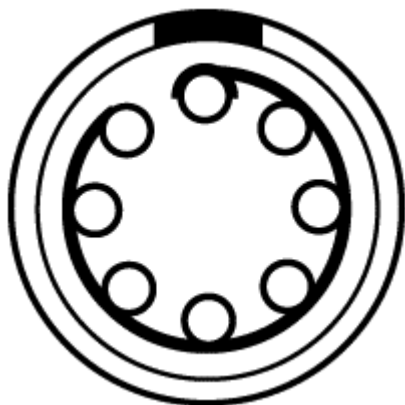
## Environment

|                                   |   |
|-----------------------------------|---|
| Technical domain                  | Motorsport, Security and Defence, Transportation, Aerospace and UAV                     |
| Environmental sealing (IP rating) | IP68  |
| Endurance                         | 3000 mating cycles  |
| Temperature range                 | -20°C / +200°C  |
| EMI Shielding EIA 364-66A         | $\geq 80$ dB (1 GHz), $\geq 70$ dB (3 GHz), $\geq 58$ dB (6 GHz), $\geq 40$ 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]   |
| Thermal shock                     | 5 cycles: -65°C to +150°C   |
| 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  |

## Cable fixation

|                                    |                 |
|------------------------------------|-----------------|
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm |
|------------------------------------|-----------------|

## Drawings



## Dimensions

|     | <b>C</b> | <b>D</b> | <b>e</b> | <b>E</b> | <b>Ls</b> | <b>Ls</b> | <b>P</b> | <b>S1</b> | <b>S2</b> |
|-----|----------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|
| mm. | 17.2     | 6.8      | M14x1.0  | 4.5      | 18.3      | 18.3      | 5.3      | 12.5      | 17        |
| in. | 0.68     | 0.27     |          | 0.18     | 0.72      | 0.72      | 0.21     | 0.49      | 0.67      |

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