



*Image for illustrative purpose only*

## Summary

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|                                |   |
|--------------------------------|---|
| Number of contacts Low Voltage | 8   |
| Gender                         | Reverse Gender                                  |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system                 | Ratchet   |
| Size                           | 1M  |
| Suggested matching part        | <a href="#">FMT.1M.308.XLM</a>                  |
| Series                         | M - Rugged Ratchet coupling                     |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/edt-1m-308-xld.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/edt-1m-308-xld.html)

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# Technical details

## Electrical Configuration

|                                       |                        |
|---------------------------------------|------------------------|
| Number of contacts Low Voltage        | 8                      |
| Contact Termination Low voltage       | PCB - Straight         |
| R (max)                               | 6.1 mOhm               |
| Insert configuration value            | 1M.308 - 8 Low Voltage |
| Insulator                             | L: PEEK                |
| Rated current                         | 5 A                    |
| Test voltage (kV rms) Contact-contact | 1.3                    |
| Test voltage (kV rms) Contact-shell   | 1.1                    |
| Contact Dia.                          | 0.7 mm (0.028in)       |
| Gender                                | Reverse Gender         |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | ED - Fixed receptacle with square flange for printed circuit  |
| 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                 | T: 3 keys (beta=135, gamma=90, plug: female contacts, receptacle: male contacts)                        |
| Colour                 | Grey  |

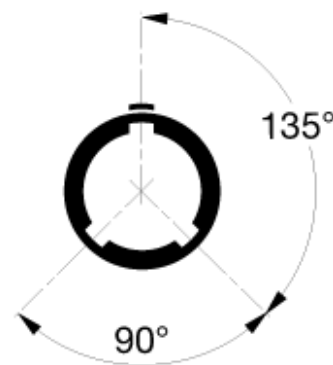
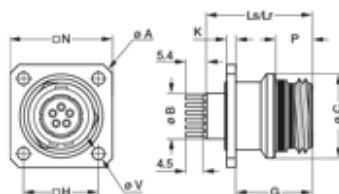
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## Environment

|                                   |  |
|-----------------------------------|--|
| 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 (max. temperature valid for short periods of use.)      |
| 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]  |
| 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   |

## Drawings



## Dimensions

|     | A    | B    | C    | G    | H    | K    | Ls   | Lr   | N    | P    | SV   |
|-----|------|------|------|------|------|------|------|------|------|------|------|
| mm. | 23.8 | 5.95 | 14.2 | 12.8 | 12.9 | 1.5  | 18.3 | 18.3 | 18.4 | 5.3  | 3.3  |
| in. | 0.94 | 0.23 | 0.56 | 0.5  | 0.51 | 0.06 | 0.72 | 0.72 | 0.72 | 0.21 | 0.13 |

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# Recommended By Lemo

## Accessories

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|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BGE.1M.200.XAZ</a> |
|----------------|--------------------------------|