

Standard



*Image for illustrative purpose only*

## Summary

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### M series

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Number of contacts Low Voltage     | 4                                               |
| Wire Size/AWG                      | 26 - 22                                         |
| Gender                             | Standard                                        |
| Socket / Receptacle                | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system                     | Ratchet                                         |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm                                  |
| Size                               | 0M                                              |
| Suggested matching part            | <a href="#">FMN.0M.304.XLC</a>                  |
| Series                             | M - Rugged Ratchet coupling                     |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/egn-0m-304-xlm.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/egn-0m-304-xlm.html)

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# Technical details

## Electrical Configuration

|                                       |                               |
|---------------------------------------|-------------------------------|
| Number of contacts Low Voltage        | 4                             |
| Contact Termination Low voltage       | Crimp                         |
| R (max)                               | 6.1 mOhm                      |
| Insert configuration value            | 0M.304 - 4 Low Voltage        |
| Footprint IPC Class3 compatibility    | No                            |
| Insulator                             | L: PEEK                       |
| Rated current                         | 7 A                           |
| Test voltage (kV rms) Contact-contact | 1.35                          |
| Test voltage (kV rms) Contact-shell   | 0.9                           |
| Contact retention                     | 22 N                          |
| Max. Conductor                        | 0.34 mm <sup>2</sup> (AWG 22) |
| Min. Conductor                        | 0.14 mm <sup>2</sup> (AWG 26) |
| Bucket Dia.                           | 0.8 mm (0.031in)              |
| Contact Dia.                          | 0.7 mm (0.028in)              |
| Wire Size/AWG                         | 26 - 22                       |
| 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                 | N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)                        |
| Colour                 | Grey                                                                                                    |
| Weight                 | 4.98 g                                                                                                  |

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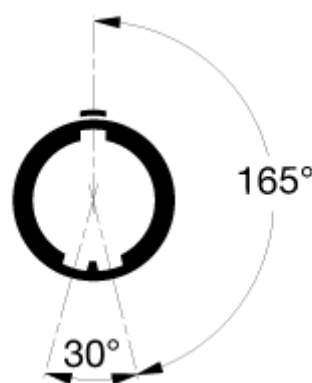
## Environment

|                                   |                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------|
| 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 (max. temperature valid for short periods of use.)                       |
| 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] | 4.00 - 8.00 mm |
| Panel Drill Hole                   | M9             |

## Drawings



## Dimensions

|     | C    | D    | e      | E   | Ls   | Ls   | P    | S1   | S2   |
|-----|------|------|--------|-----|------|------|------|------|------|
| mm. | 12.7 | 6.8  | M9x0.6 | 5   | 18.3 | 18.3 | 5.3  | 8.2  | 11   |
| in. | 0.5  | 0.27 |        | 0.2 | 0.72 | 0.72 | 0.21 | 0.32 | 0.43 |

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# Recommended By Lemo

| Accessories         |                                 |
|---------------------|---------------------------------|
| Replacement contact | <a href="#">EGN.0M.655.ZZM</a>  |
| Compatible cap      | <a href="#">BGE.0M.200.XAZ</a>  |
| Tools               |                                 |
| Positionner         | <a href="#">DCE.91.070.3MVM</a> |
| Extraction tool     | <a href="#">DCC.07.04B.LAG</a>  |
| Crimp tool          | <a href="#">DPC.91.701.V</a>    |