



*Image for illustrative purpose only*

## Summary

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|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 3                              |
| Wire Size/AWG                      | 24 - 20                        |
| Gender                             | Reverse Gender                 |
| Socket / Receptacle                | Socket / Receptacle - Free     |
| Locking system                     | Ratchet                        |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm                 |
| Size                               | 0M                             |
| Suggested matching part            | <a href="#">FMT.0M.303.XLM</a> |
| Series                             | M - Rugged Ratchet coupling    |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmt-0m-303-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmt-0m-303-xlc.html)

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# Technical details

## Electrical Configuration

|                                       |                               |
|---------------------------------------|-------------------------------|
| Number of contacts Low Voltage        | 3                             |
| Contact Termination Low voltage       | Crimp                         |
| R (max)                               | 4.8 mOhm                      |
| Insert configuration value            | 0M.303 - 3 Low Voltage        |
| Insulator                             | L: PEEK                       |
| Rated current                         | 8 A                           |
| Test voltage (kV rms) Contact-contact | 1.70                          |
| Test voltage (kV rms) Contact-shell   | 1.4                           |
| Contact retention                     | 30 N                          |
| 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)              |
| Wire Size/AWG                         | 24 - 20                       |
| Gender                                | Reverse Gender                |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | PM - Free receptacle with knurled grip  |
| Socket / Receptacle    | Free  |
| 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  |
| Weight                 | 6.61 g  |

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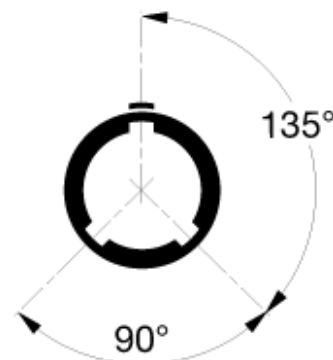
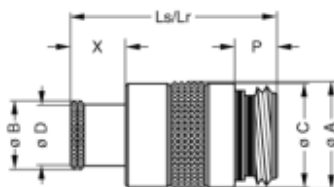
## Environment

|                                   |   |
|-----------------------------------|---|
| 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

|                                    |                |
|------------------------------------|----------------|
| Cable termination protection       | Heatshrink     |
| Fixation type                      | Heatshrink     |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm |

## Drawings



[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmt-0m-303-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmt-0m-303-xlc.html)

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## Dimensions

|     | A    | B    | C    | D    | Ls   | Lr   | P    | X    |
|-----|------|------|------|------|------|------|------|------|
| mm. | 13.1 | 8.8  | 12.7 | 8    | 25.6 | 25.6 | 5.3  | 6.7  |
| in. | 0.52 | 0.35 | 0.5  | 0.31 | 1.01 | 1.01 | 0.21 | 0.26 |

## Recommended By Lemo

### Accessories

|                     |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">FGN.0M.560.ZZC</a> |
|---------------------|--------------------------------|

|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BMF.0M.200.XAZ</a> |
|----------------|--------------------------------|

### Tools

|             |                                 |
|-------------|---------------------------------|
| Positionner | <a href="#">DCE.91.090.5MVC</a> |
|-------------|---------------------------------|

|                 |                                |
|-----------------|--------------------------------|
| Extraction tool | <a href="#">DCC.09.05B.LAG</a> |
|-----------------|--------------------------------|

|            |                              |
|------------|------------------------------|
| Crimp tool | <a href="#">DPC.91.701.V</a> |
|------------|------------------------------|

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