

*Image for illustrative purpose only*

## Summary

[Request a quote](#)[Catalog](#)[See video assembly instructions](#)

|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 2                              |
| Wire Size/AWG                      | 24 - 20                        |
| Gender                             | Standard                       |
| Plug                               | Plug - Straight                |
| Locking system                     | Ratchet                        |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm                 |
| Size                               | 0M                             |
| Suggested matching part            | <a href="#">PMN.0M.302.XLM</a> |
| Series                             | M - Rugged Ratchet coupling    |

# Technical details

## Electrical Configuration

|                                       |                               |
|---------------------------------------|-------------------------------|
| Contact Termination Low voltage       | Crimp                         |
| R (max)                               | 4.8 mOhm                      |
| Insert configuration value            | 0M.302 - 2 Low Voltage        |
| Insulator                             | L: PEEK                       |
| Rated current                         | 10 A                          |
| Test voltage (kV rms) Contact-contact | 1.45                          |
| Test voltage (kV rms) Contact-shell   | 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        | 2                             |
| Wire Size/AWG                         | 24 - 20                       |
| Gender                                | Standard                      |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip                       |
| Plug                   | Straight  |
| 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                 | 5.9 g   |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmn-0m-302-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-0m-302-xlc.html)

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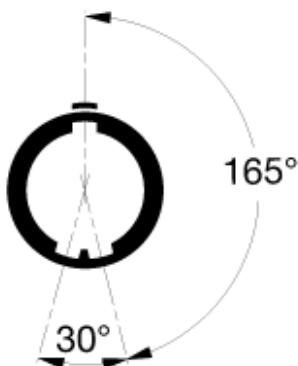
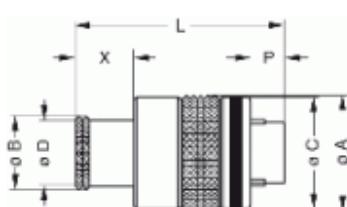
## Environment

|                                   |  |
|-----------------------------------|--|
| 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         | >= 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%   |
| Lightning 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                      | Cable collet   |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm |

## Drawings



## Dimensions

| A   | B    | C    | D    | Ls   | Lr   | P    | X    |
|-----|------|------|------|------|------|------|------|
| mm. | 13.1 | 8.8  | 12.7 | 8    | 24.1 | 24.1 | 3.9  |
| in. | 0.52 | 0.35 | 0.5  | 0.31 | 0.95 | 0.95 | 0.15 |
|     |      |      |      |      |      |      | 0.26 |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmn-0m-302-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-0m-302-xlc.html)

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