

Standard



*Image for illustrative purpose only*

## Summary

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|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Number of contacts Low Voltage     | 5                                              |
| Wire Size/AWG                      | 26 - 22                                        |
| Gender                             | Standard                                       |
| Socket / Receptacle                | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                     | Ratchet                                        |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm                                 |
| Size                               | 0M                                             |
| Suggested matching part            | <a href="#">FMN.0M.305.XLCT</a>                |
| Series                             | M - Rugged Ratchet coupling                    |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pen-0m-305-xlmt.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pen-0m-305-xlmt.html)

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# Technical details

## Electrical Configuration

|                                       |                               |
|---------------------------------------|-------------------------------|
| Number of contacts Low Voltage        | 5                             |
| Contact Termination Low voltage       | Crimp                         |
| R (max)                               | 6.1 mOhm                      |
| Insert configuration value            | 0M.305 - 5 Low Voltage        |
| Insulator                             | L: PEEK                       |
| Rated current                         | 6.5 A                         |
| Test voltage (kV rms) Contact-contact | 1.25                          |
| Test voltage (kV rms) Contact-shell   | 1                             |
| 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 | PE - Fixed receptacle, nut fixing and mold stop                                                         |
| Socket / Receptacle    | Fixed Panel Rear 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                 | 7.58 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         | >= 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                                                             |

## Cable fixation

|                                    |                         |
|------------------------------------|-------------------------|
| Cable termination protection       | For overmolding         |
| Fixation type                      | Mold stop (overmolding) |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm          |

# Recommended By Lemo

## Accessories

|                     |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">EGN.0M.655.ZZM</a> |
| Compatible cap      | <a href="#">BGK.0M.200.XAZ</a> |

## Tools

|                 |                                 |
|-----------------|---------------------------------|
| Spanner 2       | <a href="#">DCM.65.140.AZ</a>   |
| 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>    |
| Spanner wrench  | <a href="#">DCM.65.140.AZ</a>   |

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