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## Summary

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|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage     | 10                             |
| Wire Size/AWG                      | 24 - 20                        |
| Gender                             | Reverse Gender                 |
| Plug                               | Plug - Straight                |
| Locking system                     | Ratchet                        |
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm                |
| Size                               | 2M                             |
| Suggested matching part            | <a href="#">EGS.2M.310.XLC</a> |
| Series                             | M - Rugged Ratchet coupling    |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fgs-2m-310-xlmt.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgs-2m-310-xlmt.html)

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# Technical details

## Electrical Configuration

|                                       |                               |
|---------------------------------------|-------------------------------|
| Contact Termination Low voltage       | Crimp                         |
| R (max)                               | 4.8 mOhm                      |
| Insert configuration value            | 2M.310 - 10 Low Voltage       |
| Insulator                             | L: PEEK                       |
| Rated current                         | 8 A                           |
| Test voltage (kV rms) Contact-contact | 1.8                           |
| Test voltage (kV rms) Contact-shell   | 1.2                           |
| 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        | 10                            |
| Wire Size/AWG                         | 24 - 20                       |
| Gender                                | Reverse Gender                |

## Form & Material

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Shell style / Model id | FG - Straight plug with arctic grip and mold stop                                                       |
| 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                 | S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)                        |
| Colour                 | Grey                                                                                                    |
| Weight                 | 11 g                                                                                                    |

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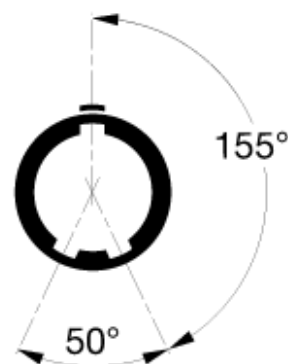
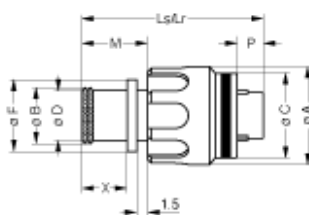
## Environment

|                                   |                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------|
| Technical domain                  | Motorsport, Security and Defence, Transportation, Aerospace and UAV                     |
| Environmental sealing (IP rating) | IP68                                                                                    |
| Endurance                         | 3000 mating cycles                                                                      |
| Temperature range                 | -55°C / +200°C                                                                          |
| 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       | For overmolding      |
| Fixation type                      | T type cable adapter |
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm      |

## Drawings



## Dimensions

|     | A    | B    | C    | D    | F    | Ls   | Lr   | M    | P    | X    |
|-----|------|------|------|------|------|------|------|------|------|------|
| mm. | 18.9 | 14   | 17.2 | 13   | 15.5 | 27.5 | 27.5 | 10.1 | 3.9  | 7.1  |
| in. | 0.74 | 0.55 | 0.68 | 0.51 | 0.61 | 1.08 | 1.08 | 0.4  | 0.15 | 0.28 |

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# Recommended By Lemo

| Accessories         |                                 |
|---------------------|---------------------------------|
| Replacement contact | <a href="#">EGN.0M.660.ZZM</a>  |
| Compatible cap      | <a href="#">BGF.2M.100.XAV</a>  |
| Tools               |                                 |
| Positionner         | <a href="#">DCE.91.090.3MVM</a> |
| Extraction tool     | <a href="#">DCC.09.05B.LAG</a>  |
| Crimp tool          | <a href="#">DPC.91.701.V</a>    |