

Special

*Image for illustrative purpose only*

## Summary

[Request a quote](#)[M series](#)[Application leaflet Security Defence](#)[See video assembly instructions](#)

|                                    |                             |
|------------------------------------|-----------------------------|
| Number of contacts Low Voltage     | 68                          |
| Wire Size/AWG                      | 26 - 22                     |
| Gender                             | Standard                    |
| Plug                               | Plug - Straight             |
| Locking system                     | Ratchet                     |
| Jacket cable outside diameter [mm] | 11.35 - 22.70 mm            |
| Size                               | LM                          |
| Series                             | M - Rugged Ratchet coupling |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fgw-lm-368-clcm.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgw-lm-368-clcm.html)

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# Technical details

## Electrical Configuration

|                                 |                                  |
|---------------------------------|----------------------------------|
| Number of contacts Low Voltage  | 68                               |
| Contact Termination Low voltage | Crimp                            |
| R (max)                         | 6.1 mOhm                         |
| Insert configuration value      | LM.368 - 68 (0.7 mm) Low Voltage |
| Insulator                       | L: PEEK                          |
| Rated current                   | 2.5 A                            |
| Test voltage contact-contact    | 1.96 kV DC                       |
| Test voltage contact-shell      | 2.3 kV DC                        |
| 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 | FG - Straight plug with arctic grip and MIL spec backend                                                                      |
| Plug                   | Straight                                                                                                                      |
| Housing material       | Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces |
| Locking system         | Ratchet                                                                                                                       |
| Keying                 | W: 5 keys (alpha=95, beta=115, gamma=35, delta=25, plug: male contacts, receptacle: female contacts)                          |
| Colour                 | Grey                                                                                                                          |
| Weight                 | 34.04 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 (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              | >1000 hr                                                               |

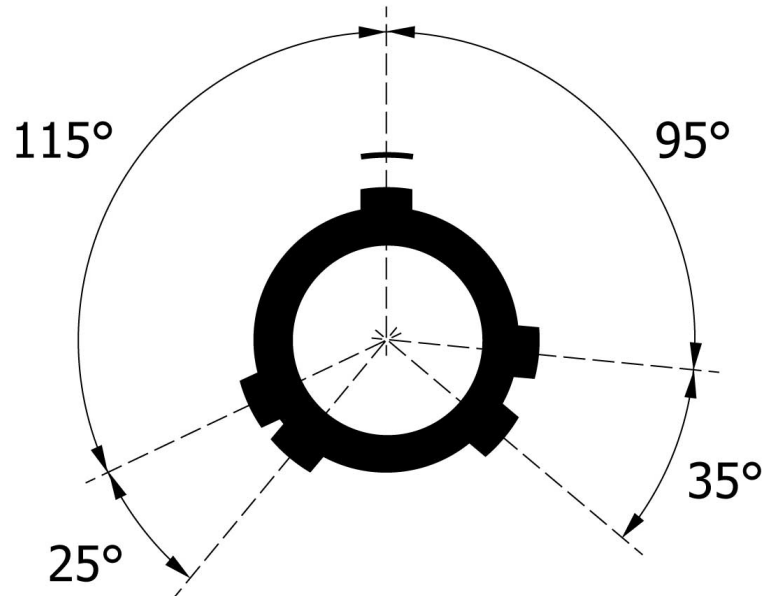
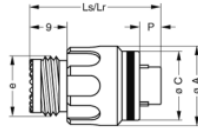
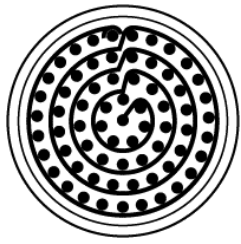
## Cable fixation

|                                    |                              |
|------------------------------------|------------------------------|
| Cable termination protection       | For backshell MIL-DTL-38999M |
| Fixation type                      | MIL-DTL-38999M               |
| Jacket cable outside diameter [mm] | 11.35 - 22.70 mm             |

## Drawings

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fgw-lm-368-clcm.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgw-lm-368-clcm.html)

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## Dimensions

|     | A    | C   | e       | Ls   | Lr   | P    |
|-----|------|-----|---------|------|------|------|
| mm. | 29.4 | 28  | M25x1.0 | 30   | 30   | 3.4  |
| in. | 1.16 | 1.1 |         | 1.18 | 1.18 | 0.13 |

## Recommended By Lemo

### Contacts

Replacement contact [FGN.0M.555.ZZC](#)

### Caps

Compatible cap [BGF.LM.100.XAV](#)

### Tools

Positionner [DCE.91.070.5MVC](#)

Extraction tool [DCC.07.04B.LAG](#)

Crimp tool [DPC.91.701.V](#)

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