

Standard



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[M series](#)

[Application leaflet Security Defence](#)

|      |    |
|------|----|
| Size | 3M |
|------|----|

|        |                             |
|--------|-----------------------------|
| Series | M - Rugged Ratchet coupling |
|--------|-----------------------------|

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/bgf-3m-100-xav.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/bgf-3m-100-xav.html)

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# Technical details

## Form & Material

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Shell style / Model id | BGF - Blanking cap for plugs (arctic grip)                                                              |
| Housing material       | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Keying                 | 3 keys (alpha=42, gamma=30, plug: male contacts, receptacle: female contacts)                           |
| Colour                 | Grey                                                                                                    |
| Weight                 | 10.47 g                                                                                                 |

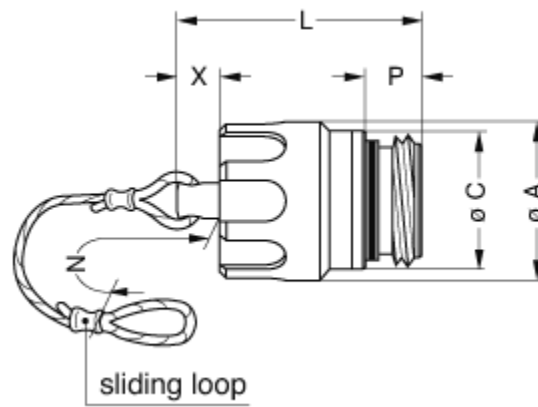
## Environment

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Technical domain                  | Motorsport, Security and Defence, Transportation, Aerospace and UAV    |
| Environmental sealing (IP rating) | IP68                                                                   |
| Temperature range                 | -15°C / +135°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%                                                         |
| 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                                                             |

## Drawings

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/bgf-3m-100-xav.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/bgf-3m-100-xav.html)

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## Dimensions

|     | <b>A</b> | <b>C</b> | <b>L</b> | <b>N</b> | <b>P</b> | <b>X</b> |
|-----|----------|----------|----------|----------|----------|----------|
| mm. | 20.9     | 19.2     | 24.6     | 120      | 5.3      | 6        |
| in. | 0.82     | 0.76     | 0.97     | 4.72     | 0.21     | 0.24     |

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