



*Image for illustrative purpose only*

## Summary

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Size

LM

Series

M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/bgf-lm-100-xav.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/bgf-lm-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                 | 18.93 g   |

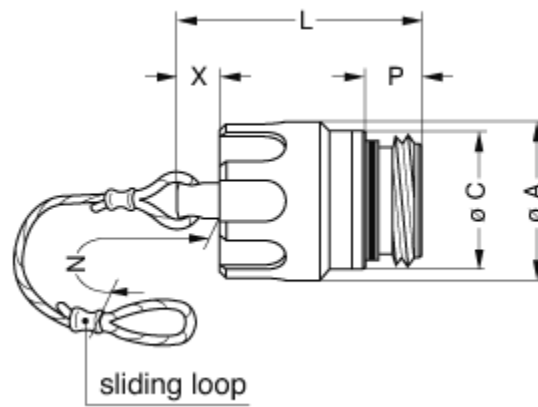
## Environment

|                                   |   |
|-----------------------------------|---|
| 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         | $\geq 80$ 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  |

## Drawings

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/bgf-lm-100-xav.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/bgf-lm-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. | 29.4     | 28       | 31.1     | 150      | 7.9      | 10       |
| in. | 1.16     | 1.1      | 1.22     | 5.91     | 0.31     | 0.39     |

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