



*Image for illustrative purpose only*

## Summary

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Size	1M
Series	M - Rugged Ratchet coupling

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[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/bgf-1m-100-xav.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/bgf-1m-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	7.14 g

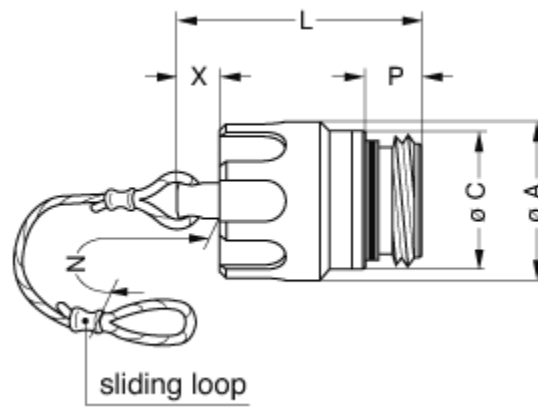
## Environment

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

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## Dimensions

	<b>A</b>	<b>C</b>	<b>L</b>	<b>N</b>	<b>P</b>	<b>X</b>
mm.	15.9	14.2	24.6	85	5.3	6
in.	0.63	0.56	0.97	3.35	0.21	0.24

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