



## Summary

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Size	3M
Series	M - Rugged Ratchet coupling

## 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)
Weight	10.47 g

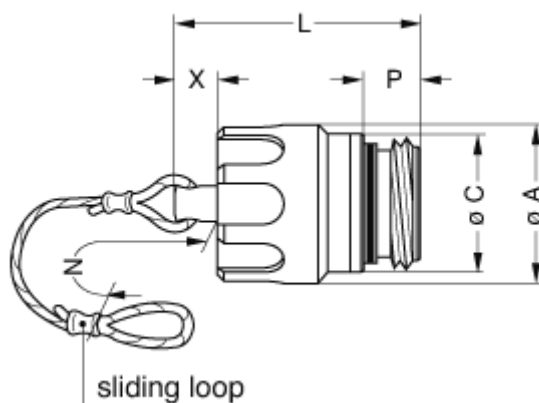
[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/bgf-3m-100-xav.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/bgf-3m-100-xav.html)

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## Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental protection (IP rating)	IP68
Minimal temperature	-20°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



## 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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