



## Summary

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[See video assembly instructions](#)

Low Voltage	4
Wire Size/AWG	32 - 28
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	2.80 - 5.60 mm
Size	MM
Matching parts	<a href="#">EGN.MM.304.XLM</a>
Series	M - Rugged Ratchet coupling

## Technical details

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fgn-mm-304-xlct.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgn-mm-304-xlct.html)

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## Electrical Configuration

Contact Termination Low voltage	Crimp
R (max)	8.7 mOhm
Insert configuration value	MM.304 - 4 Low Voltage
Insulator	L: PEEK
Rated current	2 Amps
Contact retention	12 N
Contact Type	Crimp
Max. Conductor	0.09 mm <sup>2</sup> (AWG 28)
Min. Conductor	0.035 mm <sup>2</sup> (AWG 32)
Bucket Dia.	0.45 mm (0.018in)
Contact Dia.	0.5 mm (0.02in)
Low Voltage	4
Wire Size/AWG	32 - 28
Gender	Standard

## Form & Material

Shell style / Model id	FG - Straight plug with arctic grip and mold stop
Plug	Straight
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Weight	4.5 g

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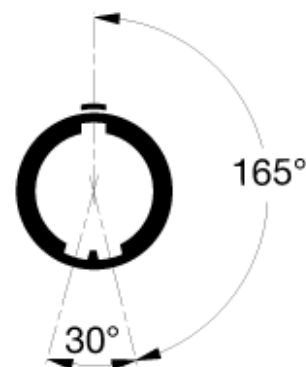
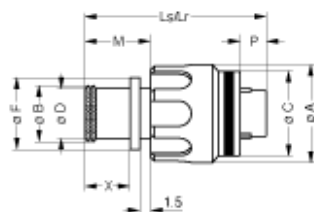
## Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental protection (IP rating)	IP68
Minimal temperature	-20°C / +200°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

## Cable fixation

Cable termination protection	For overmolding
Fixation type	T type cable adapter
Jacket cable outside diameter [mm]	2.80 - 5.60 mm

## Drawings



## Dimensions

	A	B	C	D	F	Ls	Lr	M	P	X
mm.	12	6.4	10.7	5.6	7.8	24.3	24.3	8.8	5.5	5.8
in.	0.47	0.25	0.42	0.22	0.31	0.96	0.96	0.35	0.22	0.23

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