

Standard



*Image for illustrative purpose only*

## Summary

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[M series](#)

[See video assembly instructions](#)

Number of contacts Low Voltage	4
Wire Size/AWG	20 - 16
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Suggested matching part	<a href="#">EGN.2M.304.XLM</a> <a href="#">ECN.2M.304.XLM</a>
Series	M - Rugged Ratchet coupling

# Technical details

## Electrical Configuration

Number of contacts Low Voltage	4
Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	2M.304 - 4 Low Voltage
Insulator	L: PEEK
Rated current	15.5 A
Test voltage (kV rms) Contact-contact	1.55
Test voltage (kV rms) Contact-shell	1.55
Contact retention	40 N
Max. Conductor	1 mm <sup>2</sup> (AWG 18)
Min. Conductor	0.5 mm <sup>2</sup> (AWG 20)
Bucket Dia.	1.4 mm (0.055in)
Contact Dia.	1.3 mm (0.051in)
Wire Size/AWG	20 - 16
Gender	Standard

## Form & Material

Shell style / Model id	FG - Straight plug with arctic grip
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	9.77 g

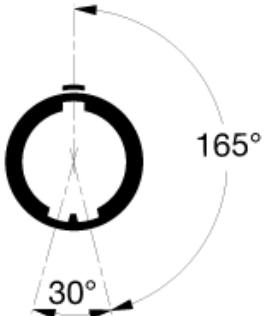
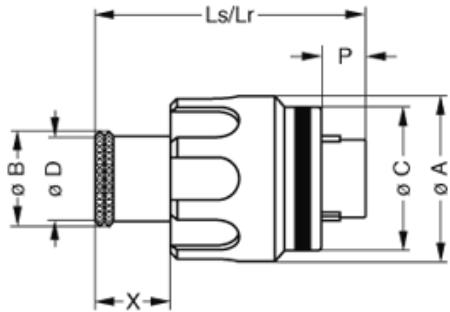
## Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-55°C / +200°C (max. temperature valid for short periods of use.)
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%
Lightning 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	Heatshrink
Fixation type	Heatshrink
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

## Drawings



## Dimensions

A	B	C	D	Ls	Lr	P	X
mm.	18.9	14	17.2	13	24.5	24.5	3.9
in.	0.74	0.55	0.68	0.51	0.96	0.96	0.15
							0.28

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fgn-2m-304-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgn-2m-304-xlc.html)

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# Recommended By Lemo

## Accessories

Replacement contact	FGN.0M.565.ZZC
Compatible cap	BGF.2M.100.XAV

## Tools

Positionner	DCE.91.130.5MVC
Extraction tool	DCC.13.15B.LAG
Crimp tool	DPC.91.701.V

## Cables

Cable PartNumber	Material	Colour	Cable image
240750	PVC	Grey	
417920	PVC	Grey	
CTR.75.030.121870G	PVC	Grey	

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fgn-2m-304-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgn-2m-304-xlc.html)

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