

Standard



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Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	6
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgn-2m-306-xrc3.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	6
Contact Termination Low voltage	Crimp
Insert configuration value	2M.306_3 - 3 (0.7 mm) + 3 (1.3 mm) Low Voltage
Insulator	R: PEEK (mixed multipole)
Rated current	0.7 mm : 10.5 A, 1.3 mm : 18 A
Test voltage contact-contact	2.22 kV DC
Test voltage contact-shell	1.19 kV DC
Bucket Dia.	3 x 0.87 mm (0.034 in) and 3 x 1.6 mm (0.063 in)
Contact Dia.	3 x 0.7 mm (0.028 in) and 3 x 1.3 mm (0.051 in)
Wire Size/AWG details	0.7 mm : 26-22, 1.3 mm : 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	10.87 g

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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%
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

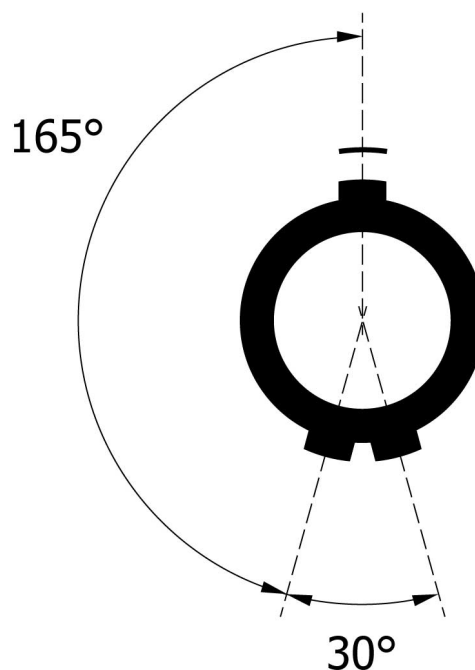
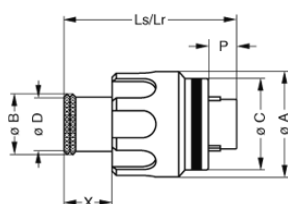
Cable fixation

Cable termination protection	Heatshrink
Fixation type	Heatshrink
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

Drawings

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Dimensions

	A	B	C	D	Ls	Lr	P	X
mm.	18.9	14	17.2	13	24.5	24.5	3.9	7.1
in.	0.74	0.55	0.68	0.51	0.96	0.96	0.15	0.28

Recommended By Lemo

Contacts

Replacement contact [FGN.0M.555.ZZC](#)

Caps

Compatible cap [BGF.2M.100.XAV](#)

Cap 2 [BAF.2M.100.XNV](#)

Tools

Positionner [DCE.91.070.5MVC](#)

Positionner 2 [DCE.91.130.5MVC](#)

Extraction tool [DCF.93.131.4LT](#)

Extraction tool 2 [DCF.93.070.4LT](#)

Crimp tool [DPC.91.701.V](#)

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