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## Summary

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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/fmn-2m-306-xrc3.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-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
Bucket Dia.	3x0.87 mm, 3x1.6 mm
Contact Dia.	3x0.7 mm, 3x1.3 mm
Wire Size/AWG details	0.7 mm : 26-22, 1.3 mm : 20-16
Gender	Standard

## Form & Material

Shell style / Model id	FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled 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	10.15 g

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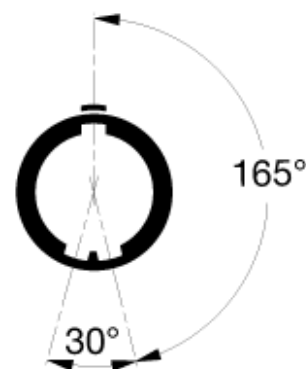
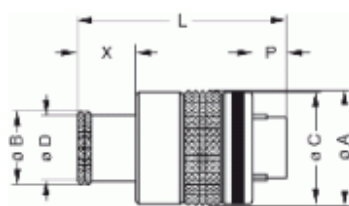
## Environment

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
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

## 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.	17.6	14	17.2	13	24.5	24.5	3.9	7.1
in.	0.69	0.55	0.68	0.51	0.96	0.96	0.15	0.28

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# Recommended By Lemo

Accessories	
Replacement contact	<a href="#">FGN.0M.555.ZZC</a>
Compatible cap	<a href="#">BMF.2M.100.XAV</a>
Tools	
Positionner	<a href="#">DCE.91.070.5MVC</a>
Positionner 2	<a href="#">DCE.91.130.5MVC</a>
Extraction tool	<a href="#">DCF.93.131.4LT</a>
Extraction tool 2	<a href="#">DCF.93.070.4LT</a>
Crimp tool	<a href="#">DPC.91.701.V</a>