#### FMN.2M.310.XLCT





Image for illustrative purpose only

## **Summary**

Request a quote	
Catalog	
See video assembly instructions	
Number of contacts Low Voltage	10
Wire Size/AWG	24 - 20
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Suggested matching part	PMN.2M.310.XLMT
Corioc	M. Duggod Datchat coupling

Series

M - Rugged Ratchet coupling

https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/fmn-2m-310-xlct.html

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# **Technical details**

**Electrical Configuration** 

Electrical Configuration					
Number of contacts Low Voltage	10				
Contact Termination Low voltage	Crimp				
R (max)	4.8 mOhm				
Insert configuration value	2M.310 - 10 Low Voltage				
Insulator	L: PEEK				
Rated current	8 A				
Test voltage (kV rms) Contact-contact	1.8				
Test voltage (kV rms) Contact-shell	1.2				
Contact retention	30 N				
Max. Conductor	0.616 mm^2 (AWG 20)				
Min. Conductor	0.204 mm^2 (AWG 24)				
Bucket Dia.	1.1 mm (0.043in)				
Contact Dia.	0.9 mm (0.035in)				
Wire Size/AWG	24 - 20				
Gender	Standard				
Form & Material					
Shell style / Model id	FM - Straight plug, key (N) or keys (P, R, S, T, U, V, V) and X) with knurled 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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)				
Colour	Grey				
Weight	9.95 g				

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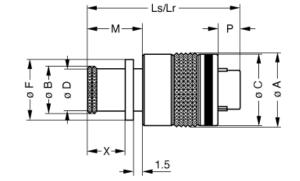
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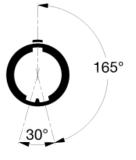
#### Environment

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	>= 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	Mold stop (overmolding)				
Jacket cable outside diameter [mm]	6.50 - 13.00 mm				

## **Drawings**







#### **Dimensions**

	Α	В	С	D	F	Ls	Lr	Μ	Ρ	Χ
mm.	17.6	14	17.2	13	15.5	27.5	27.5	10.1	3.9	7.1
in.	0.69	0.55	0.68	0.51	0.61	1.08	1.08	0.4	0.15	0.28

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## **Recommended By Lemo**

Accessories				
Replacement contact	FGN.0M.560.ZZC			
Compatible cap	BMF.2M.100.XAV			
Tools				
Positionner	DCE.91.090.5MVC			
Extraction tool	DCC.09.05B.LAG			
Crimp tool	DPC.91.701.V			

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