### FMN.1M.308.XLCT





Image for illustrative purpose only

## **Summary**

Request a quote	
Catalog	
See video assembly instructions	
Number of contacts Low Voltage	8
Wire Size/AWG	26 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	PMN.1M.308.XLMT
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/fmn-1m-308-xlct.html

# **Technical details**

### **Electrical Configuration**

Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	1M.308 - 8 Low Voltage
Insulator	L: PEEK
Rated current	5 A
Test voltage (kV rms) Contact-contact	1.3
Test voltage (kV rms) Contact-shell	1.1
Contact retention	22 N
Contact Type	Crimp
Max. Conductor	0.34 mm^2 (AWG 22)
Min. Conductor	0.14 mm^2 (AWG 26)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Number of contacts Low Voltage	8
Wire Size/AWG	26 - 22
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 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	
Colour	Grey

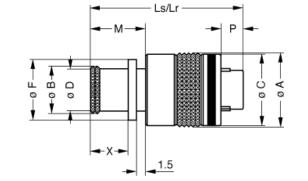
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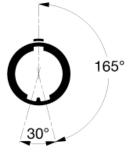
#### Environment

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	T type cable adapter			
Jacket cable outside diameter [mm]	4.85 - 9.70 mm			

## **Drawings**







### **Dimensions**

	Α	В	С	D	F	Ls	Lr	Μ	Ρ	X
mm.	14.6	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
in.	0.57	0.41	0.56	0.38	0.49	1.07	1.07	0.38	0.15	0.26

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## **Recommended By Lemo**

Accessories	
Replacement contact	FGN.0M.555.ZZC
Compatible cap	BMF.1M.100.XAV
Tools	
Positionner	DCE.91.070.5MVC
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V

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