



Image for illustrative purpose only

Summary

Request a quote

Catalog

Number of contacts Low Voltage	7
Wire Size/AWG	26 - 22
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	PMT.1M.307.XLC
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmt-1m-307-xlm.html

Technical details

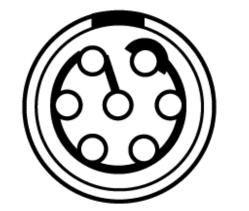
Number of contacts Low Voltage	7				
Contact Termination Low voltage	Crimp				
R (max)	6.1 mOhm				
Insert configuration value	1M.307 - 7 Low Voltage				
Insulator	L: PEEK				
Rated current	7 A				
Test voltage (kV rms) Contact-contact	1.45				
Test voltage (kV rms) Contact-shell	1.2				
Contact retention	22 N				
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)				
Wire Size/AWG	26 - 22				
Gender	Reverse Gender				
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	T: 3 keys (beta=135, gamma=90, plug: female contacts, receptacle: male contacts)				
Colour	Grey				

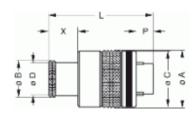
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Environment

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 (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]	4.85 - 9.70 mm			

Drawings







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Dimensions

	Α	В	С	D	Ls	Lr	Ρ	X
mm.	14.6	10.5	14.2	9.7	24.1	24.1	3.9	6.7
in.	0.57	0.41	0.56	0.38	0.95	0.95	0.15	0.26

Recommended By Lemo

Accessories

Replacement contact	EGN.0M.655.ZZM		
Compatible cap	BMF.1M.100.XAV		
Tools			
Positionner	DCE.91.070.3MVM		
Extraction tool	DCF.93.070.4LT		
Crimp tool	DPC.91.701.V		

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