FMS.1M.305.XLMT





Image for illustrative purpose only

Summary

Request a quote

Catalog					
Number of contacts Low Voltage	5				
Wire Size/AWG	24 - 20				
Gender	Reverse Gender				
Plug	Plug - Straight				
Locking system	Ratchet				
Jacket cable outside diameter [mm]	4.85 - 9.70 mm				
Size	1M				
Suggested matching part	PMS.1M.305.XLCT				
Series	M - Rugged Ratchet coupling				

Technical details

Electrical Configuration

Contact Termination Low voltage	Crimp			
R (max)	4.8 mOhm			
Insert configuration value	1M.305 - 5 Low Voltage			
Insulator	L: PEEK			
Rated current	9 A			
Test voltage (kV rms) Contact-contact	1.3			
Test voltage (kV rms) Contact-shell	1.3			
Contact retention	30 N			
Contact Type	Crimp			
Max. Conductor	0.5 mm^2 (AWG 20)			
Min. Conductor	0.25 mm^2 (AWG 24)			
Bucket Dia.	1.1 mm (0.043in)			
Contact Dia.	0.9 mm (0.035in)			
Number of contacts Low Voltage	5			
Wire Size/AWG	24 - 20			
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 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	S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)			
Colour	Grey			
Weight	7.13 g			

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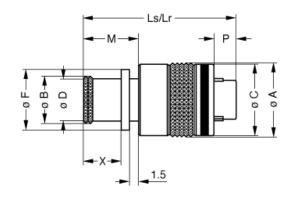
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV				
Environmental sealing (IP rating)					
Endurance	3000 mating cycles				
Temperature range	-20°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				

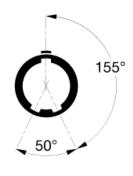
Drawings

Jacket cable outside diameter [mm]





4.85 - 9.70 mm



Dimensions

	A	В	С	D	F	Ls	Lr	M	P	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

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fms-1m-305-xlmt.html}$

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