FGS.1M.307.XLMT





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
Matching parts	EGS.1M.307.XLC
Series	M - Rugged Ratchet coupling

Technical details

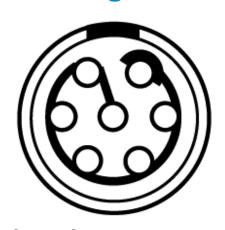
Electrical Configuration

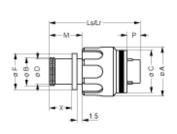
3					
Contact Termination Low voltage	Crimp				
R (max)	6.1 mOhm				
Insert configuration value	1M.307 - 7 Low Voltage				
Insulator	L: PEEK				
Rated current	7 Amps				
Test voltage (kV rms) Contact-contact	1.45				
Test voltage (kV rms) Contact-shell	1.2				
Contact retention	22 N				
Contact Type	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	7				
Wire Size/AWG	26 - 22				
Gender	Reverse Gender				
Form & Material					
Shell style / Model id	FG - Straight plug with arctic 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	3 keys (beta=155, gamma=50, plug: female contacts receptacle: male contacts)				
Weight	8.06 g				

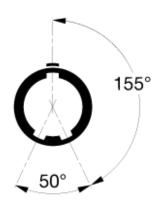
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV					
Environmental protection (IP rating)	IP68					
Minimal temperature	-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					
Jacket cable outside diameter [mm]	4.85 - 9.70 mm					

Drawings







Dimensions

	A	В	С	D	F	Ls	Lr	M	P	X
mm.	15.9	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
in.	0.63	0.41	0.56	0.38	0.49	1.07	1.07	0.38	0.15	0.26

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgs-1m-307-xlmt.html}$

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