PEN.1M.307.XLMT





Summary

Request a quote

Catalog	
Number of contacts Low Voltage	7
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Matching parts	FMN.1M.307.XLCT
Series	M - Rugged Ratchet coupling

Technical details

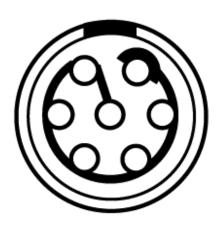
Electrical Configuration

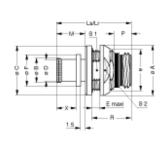
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Contact Termination Low voltage	Crimp					
R (max)	6.1 mOhm					
Insert configuration value	1M.307 - 7 Low Voltage					
Insulator	L: PEEK					
Rated current	7 Amps					
Test voltage (kV rms) Contact-contact	1.45					
Test voltage (kV rms) Contact-shell	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	Standard					
Form & Material						
Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop					
Socket / Receptacle	Fixed Panel Rear Mounted					
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=165, gamma=30, plug: male contacts, receptacle: female contacts)					
Weight	8.7 g					

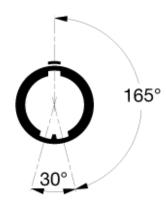
Environment

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 GH >= 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	E	е	Ls	Lr	M	P	R	S1	S2
mm.	18	10.5	17.8	9.7	5	M14x1.00	25.6	25.6	9.7	5.3	13.8	12.5	16
in.	0.71	0.41	0.7	0.38	0.2		1.01	1.01	0.38	0.21	0.54	0.49	0.63

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

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