PMT.1M.307.XLC





Image for illustrative purpose only

Summary

Request a quote

Catalog	
Number of contacts Low Voltage	7
Wire Size/AWG	26 - 22
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMT.1M.307.XLM
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

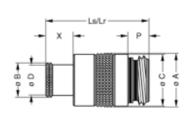
Number of contacts Low Voltage	7			
Contact Termination Low voltage	Crimp			
R (max)	6.1 mOhm			
Insert configuration value	1M.307 - 7 Low Voltage			
Insulator	L: PEEK			
Rated current	7 A			
Test voltage (kV rms) Contact-contact	1.45			
Test voltage (kV rms) Contact-shell	1.2			
Contact retention	22 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	PM - Free receptacle with knurled grip			
Socket / Receptacle	Free			
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			

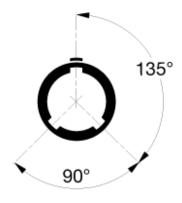
Environment

	Motorsport, Security and Defence, Transportation,			
Technical domain	Aerospace and UAV			
Environmental sealing (IP rating)	IP68			
Endurance	3000 mating cycles			
Temperature range	-20°C / $+200^{\circ}\text{C}$ (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







Dimensions

	A	В	С	D	Ls	Lr	Р	X
mm.	14.6	10.5	14.2	9.7	25.6	25.6	5.3	6.7
in.	0.57	0.41	0.56	0.38	1.01	1.01	0.21	0.26

Recommended By Lemo

Accessories

Replacement contact	FGN.0M.555.ZZC		
Compatible cap	BMF.1M.200.XAZ		
Tools			
Positionner	DCE.91.070.5MVC		
Extraction tool	DCF.93.070.4LT		
Crimp tool	DPC.91.701.V		