PMN.1M.305.XLM





Image for illustrative purpose only

Summary

Request a quote

Catalog	
Number of contacts Low Voltage	5
Wire Size/AWG	24 - 20
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMN.1M.305.XLC
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

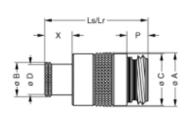
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Number of contacts Low Voltage	5				
Contact Termination Low voltage	Crimp				
R (max)	4.8 mOhm				
Insert configuration value	1M.305 - 5 Low Voltage				
Insulator	L: PEEK				
Rated current	9 A				
Test voltage (kV rms) Contact-contact	1.3				
Test voltage (kV rms) Contact-shell	1.3				
Contact retention	30 N				
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)				
Wire Size/AWG	24 - 20				
Gender	Standard				
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)				
Colour	Grey				
Weight	5.32 g				

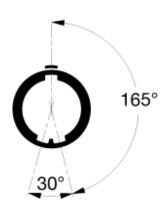
Environment

Technical domain	Motorsport, Security and Defence, Transportation, 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	EGN.0M.660.ZZM
Compatible cap	BMF.1M.200.XAZ
Tools	
Positionner	DCE.91.090.3MVM
Extraction tool	DCC.09.05B.LAG
Crimp tool	DPC.91.701.V