



Image for illustrative purpose only

Summary

Request a quote

Request a quote		
Catalog		
See video assembly instructions		
Number of contacts Low Voltage	5	
Wire Size/AWG	24 - 20	
Gender	Standard	
Plug	Plug - Straight	
Locking system	Ratchet	
Jacket cable outside diameter [mm]	4.85 - 9.70 mm	
Size	1M	
Suggested matching part	PMN.1M.305.XLM	
Series	M - Rugged Ratchet coupling	

Technical details

Electrical Configuration

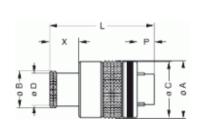
Number of contacts Low Voltage	5			
Contact Termination Low voltage	Crimp			
R (max)	4.8 mOhm			
Insert configuration value	1M.305 - 5 Low Voltage			
Insulator	L: PEEK			
Rated current	9 A			
Test voltage (kV rms) Contact-contact	1.3			
Test voltage (kV rms) Contact-shell	1.3			
Contact retention	30 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	FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip			
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)			
Colour	Grey			
Weight	6.54 g			

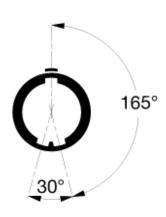
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-55°C / $+200$ °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	P	X
mm.	14.6	10.5	14.2	9.7	24.1	24.1	3.9	6.7
in.	0.57	0.41	0.56	0.38	0.95	0.95	0.15	0.26

Recommended By Lemo

Accessories

Replacement contact	FGN.0M.560.ZZC		
Compatible cap	BMF.1M.100.XAV		
Tools			
Positionner	DCE.91.090.5MVC		
Extraction tool	DCC.09.05B.LAG		
Crimp tool	DPC.91.701.V		