PMN.2M.312.XLMT





Image for illustrative purpose only

Summary

Request a quote

Catalog	
Number of contacts Low Voltage	12
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Suggested matching part	FMN.2M.312.XLCT
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

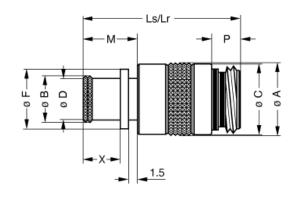
Number of contacts Low Voltage	12				
Contact Termination Low voltage	Crimp				
R (max)	6.1 mOhm				
Insert configuration value	2M.312 - 12 Low Voltage				
Insulator	L: PEEK				
Rated current	7 A				
Test voltage (kV rms) Contact-contact	1.65				
Test voltage (kV rms) Contact-shell	1.15				
Contact retention	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	Standard				
Form & Material					
Shell style / Model id	PM - Free receptacle with knurled grip and mold stop				
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	12.1 g				

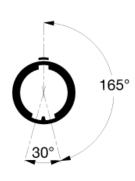
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV				
Environmental sealing (IP rating)	IP68				
Endurance	3000 mating cycles				
Temperature range	-20° C / $+200^{\circ}$ 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	For overmolding				
Fixation type	Mold stop (overmolding)				
Jacket cable outside diameter [mm]	6.50 - 13.00 mm				

Drawings







Dimensions

	A	В	С	D	F	Ls	Lr	M	Р	X
mm.	17.6	14	17.2	13	15.5	29	29	10.1	5.3	7.1
in.	0.69	0.55	0.68	0.51	0.61	1.14	1.14	0.4	0.21	0.28

Recommended By Lemo

Accessories

Replacement contact	EGN.0M.655.ZZM			
Compatible cap	BMF.2M.200.XAZ			
Tools				
Positionner	DCE.91.070.3MVM			
Extraction tool	DCF.93.070.4LT			
Crimp tool	DPC.91.701.V			