## **PMN.2M.312.XLMM**





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.XLCM
Series	M - Rugged Ratchet coupling

## **Technical details**

### **Electrical Configuration**

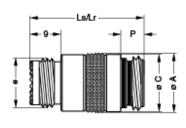
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Number of contacts Low Voltage	12	
Contact Termination Low voltage	Crimp	
R (max)	6.1 mOhm	
Insert configuration value	2M.312 - 12 Low Voltage	
Insulator	L: PEEK	
Rated current	7 A	
Test voltage (kV rms) Contact-contact	1.65	
Test voltage (kV rms) 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 MIL- DTL-38999L	
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	11.78 g	

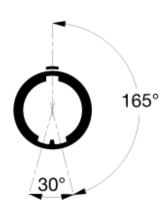
#### **Environment**

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV		
Environmental sealing (IP rating)	IP68		
Endurance	3000 mating cycles		
Temperature range	$-20^{\circ}\text{C}$ / $+200^{\circ}\text{C}$ (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	For backshell MIL-DTL-38999M		
Fixation type	MIL-DTL-38999M		
Jacket cable outside diameter [mm]	6.50 - 13.00 mm		

# **Drawings**







### **Dimensions**

	Α	С	е	Ls	Lr	Р	
mm.	17.6	17.2	M15x1.0	27.9	27.9	5.3	
in.	0.69	0.68		1.1	1.1	0.21	

# **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