



Image for illustrative purpose only

## **Summary**

#### Request a quote

Request a quote	
Catalog	
See video assembly instructions	
Number of contacts Low Voltage	12
Wire Size/AWG	26 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Suggested matching part	PMN.2M.312.XLM
Series	M - Rugged Ratchet coupling

## **Technical details**

### **Electrical Configuration**

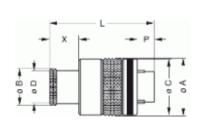
Number of contacts Low Voltage	12				
Contact Termination Low voltage	Crimp				
R (max)	6.1 mOhm				
Insert configuration value	2M.312 - 12 Low Voltage				
Insulator	L: PEEK				
Rated current	7 A				
Test voltage (kV rms) Contact-contact	1.65				
Test voltage (kV rms) Contact-shell	1.15				
Contact retention					
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				
orm & Material					
Shell style / Model id	FM - Straight plug, key (N) or keys (P, R, S, T, U, V, V 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	9.59 g				

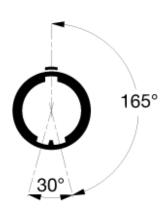
#### **Environment**

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]	6.50 - 13.00 mm			

# **Drawings**







### **Dimensions**

	A	В	С	D	Ls	Lr	Р	X
mm.	17.6	14	17.2	13	24.5	24.5	3.9	7.1
in.	0.69	0.55	0.68	0.51	0.96	0.96	0.15	0.28

# **Recommended By Lemo**

#### **Accessories**

Replacement contact	FGN.0M.555.ZZC		
Compatible cap	BMF.2M.100.XAV		
Tools			
Positionner	DCE.91.070.5MVC		
Extraction tool	DCF.93.070.4LT		
Crimp tool	DPC.91.701.V		