



Image for illustrative purpose only

# **Summary**

### Request a quote

Request a quote	
Catalog	
See video assembly instructions	
Number of contacts Low Voltage	10
Wire Size/AWG	24 - 20
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.310.XLM
Series	M - Rugged Ratchet coupling

# **Technical details**

### **Electrical Configuration**

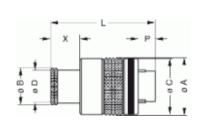
Number of contacts Low Voltage	10			
Contact Termination Low voltage	Crimp			
R (max)	4.8 mOhm			
Insert configuration value	2M.310 - 10 Low Voltage			
Insulator	L: PEEK			
Rated current	8 A			
Test voltage (kV rms) Contact-contact	1.8			
Test voltage (kV rms) Contact-shell	1.2			
Contact retention	30 N			
ax. 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	9.19 g			

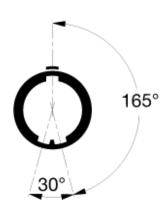
#### **Environment**

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.560.ZZC		
Compatible cap	BMF.2M.100.XAV		
Tools			
Positionner	DCE.91.090.5MVC		
Extraction tool	DCC.09.05B.LAG		
Crimp tool	DPC.91.701.V		