## **PEN.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 - Fixed Panel Rear Mounted
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**

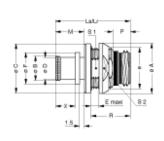
<b>3</b>							
Number of contacts Low Voltage	12						
Contact Termination Low voltage	Crimp						
R (max)	6.1 mOhm						
Insert configuration value	2M.312 - 12 Low Voltage						
Insulator	L: PEEK						
Rated current	7 A						
Test voltage (kV rms) Contact-contact	1.65						
Test voltage (kV rms) Contact-shell	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	PE - Fixed receptacle, nut fixing and mold stop						
Socket / Receptacle	Fixed Panel Rear Mounted						
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	13.26 g						

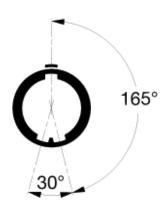
#### **Environment**

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV					
Environmental sealing (IP rating)	IP68					
Endurance	3000 mating cycles					
Temperature range	-20°C / $+200$ °C (max. temperature valid for shor periods of use.)					
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (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**

	Α	В	С	D	Ε	е	Ls	Lr	M	P	R	S1	<b>S2</b>
mm.	21	14	20.8	13	5	M17x1.00	26	26	10.1	5.3	13.8	15.5	18
in.	0.83	0.55	0.82	0.51	0.2		1.02	1.02	0.4	0.21	0.54	0.61	0.71

# **Recommended By Lemo**

#### **Accessories**

Replacement contact	EGN.0M.655.ZZM					
Compatible cap	BGK.2M.200.XAZ					
Tools						
Spanner 2	DCM.65.180.AZ					
Positionner	DCE.91.070.3MVM					
Extraction tool	DCF.93.070.4LT					
Crimp tool	DPC.91.701.V					
Spanner wrench	DCM.65.180.AZ					