## **PMN.1M.305.XLMT**





# **Summary**

### Request a quote

Catalog					
Number of contacts Low Voltage	5				
Wire Size/AWG	24 - 20				
Gender	Standard				
Socket / Receptacle	Socket / Receptacle - Free				
Locking system	Ratchet				
Jacket cable outside diameter [mm]	4.85 - 9.70 mm				
Size	1M				
Matching parts	FMN.1M.305.XLCT				
Series	M - Rugged Ratchet coupling				

## **Technical details**

### **Electrical Configuration**

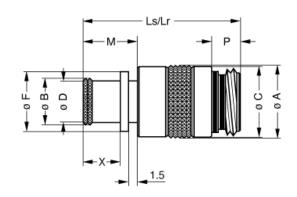
<b>5</b>					
Contact Termination Low voltage	Crimp				
R (max)	4.8 mOhm				
Insert configuration value	1M.305 - 5 Low Voltage				
Insulator	L: PEEK				
Rated current	9 Amps				
Test voltage (kV rms) Contact-contact	1.3				
Test voltage (kV rms) Contact-shell	1.3				
Contact retention	30 N				
Contact Type	Crimp				
Max. 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)				
Number of contacts Low Voltage	5				
Wire Size/AWG	24 - 20				
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	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)				
Weight	8.18 g				

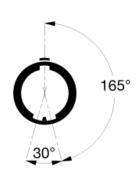
#### **Environment**

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV					
Environmental protection (IP rating)	IP68					
Minimal temperature	-20°C / +200°C					
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	T type cable adapter					
Jacket cable outside diameter [mm]	4.85 - 9.70 mm					

# **Drawings**







## **Dimensions**

	A	В	C	D	F	Ls	Lr	M	P	X
mm.	14.6	10.5	14.2	9.7	12.4	28.6	28.6	9.7	5.3	6.7
in.	0.57	0.41	0.56	0.38	0.49	1.13	1.13	0.38	0.21	0.26

#### $\underline{https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/pmn-1m-305-xlmt.html}$

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