PMT.1M.305.XLCT





Image for illustrative purpose only

Summary

Request a quote

Catalog

Number of contacts Low Voltage	5
Wire Size/AWG	24 - 20
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMT.1M.305.XLMT
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmt-1m-305-xlct.html

Technical details

Electrical Configuration

Number of contacts Low Voltage	5
Contact Termination Low voltage	Crimp
R (max)	4.8 mOhm
Insert configuration value	1M.305 - 5 Low Voltage
Insulator	L: PEEK
Rated current	9 A
Test voltage (kV rms) Contact-contact	1.3
Test voltage (kV rms) Contact-shell	1.3
Contact retention	30 N
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)
Wire Size/AWG	24 - 20
Gender	Reverse Gender
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	T: 3 keys (beta=135, gamma=90, plug: female contacts, receptacle: male contacts)
Colour	Grey

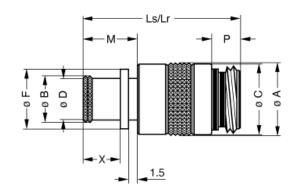
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Environment

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 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 overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	4.85 - 9.70 mm

Drawings







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Dimensions

	Α	В	С	D	F	Ls	Lr	Μ	Ρ	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

Recommended By Lemo

Accessories

Replacement contact	FGN.0M.560.ZZC		
Compatible cap	BMF.1M.200.XAZ		
Tools			
Positionner	DCE.91.090.5MVC		
Extraction tool	DCC.09.05B.LAG		
Crimp tool	DPC.91.701.V		

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