PMN.1M.302.XLMT





Summary

Request a quote

Catalog	
Number of contacts Low Voltage	2
Wire Size/AWG	20 - 16
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.302.XLCT
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

Contact Termination Low voltage	Crimp			
R (max)	3.6 mOhm			
Insert configuration value	1M.302 - 2 Low Voltage			
Insulator	L: PEEK			
Rated current	19 Amps			
Contact retention	40 N			
Contact Type	Crimp			
Max. Conductor	1 mm^2 (AWG 18)			
Min. Conductor	0.5 mm^2 (AWG 20)			
Bucket Dia.	1.4 mm (0.055in)			
Contact Dia.	1.3 mm (0.051in)			
Number of contacts Low Voltage	2			
Wire Size/AWG	20 - 16			
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			

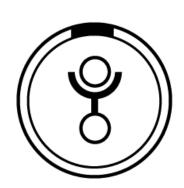
Environment

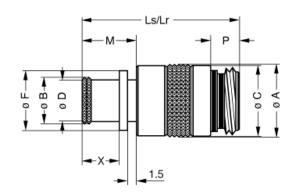
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV		
Environmental protection (IP rating)	IP68		
Minimal temperature	-20°C / +200°C		
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)		
Gunfire vibration	25 Hz - 2000 Hz, 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		

Drawings

Jacket cable outside diameter [mm]

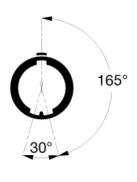
Fixation type





T type cable adapter

4.85 - 9.70 mm



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

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmn-1m-302-xlmt.html}$

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Recommended By Lemo

Accessories

Replacement contact	EGN.0M.665.ZZM	
Tools		
Positionner	DCE.91.130.5MVM	
Extraction tool	DCF.93.131.4LT	
Crimp tool	DPC.91.701.V	

Cables

Cable PartNumber	Material	Colour	Cable image
CMN.02.T18.064UNCU			
102080	PVC	Grey	
120184	PVC	Black	
120500	PVC	Grey	
120501	PVC	Grey	→
120751	PVC	Grey	->-
220151	PVC	Grey	s
220750	PVC	Grey	→
320150	PVC	Grey	→
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