FMN.1M.302.XLCT





Summary

Catalog

See video assembly instructions

Low Voltage	2		
Wire Size/AWG	20 - 16		
Gender	Standard		
Plug	Plug - Straight		
Locking system	Ratchet		
Jacket cable outside diameter [mm]	4.85 - 9.70 mm		
Size	1M		
Matching parts	PMN.1M.302.XLMT		
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)
Low Voltage	2
Wire Size/AWG	20 - 16
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 and mold stop
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	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Weight	6.96 g

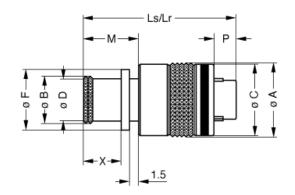
Environment

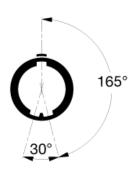
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV			
Environmental protection (IP rating)	IP68			
Minimal temperature	-20°C / +200°C			
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)			
Gunfire vibration	25 Hz - 2000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

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	27.1	27.1	9.7	3.9	6.7
in.	0.57	0.41	0.56	0.38	0.49	1.07	1.07	0.38	0.15	0.26

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

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Recommended By Lemo

Accessories

Replacement contact	FGN.0M.565.ZZC		
Tools			
Positionner	DCE.91.130.5MVC		
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	3
220750	PVC	Grey	=======================================
320150	PVC	Grey	≈