FMN.2M.319.XLCT





Size

Series

Suggested matching part

Image for illustrative purpose only

Summary

Request a quote	
Catalog	
See video assembly instructions	
Number of contacts Low Voltage	19
Wire Size/AWG	26 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

2M

PMN.2M.319.XLMT

M - Rugged Ratchet coupling

Technical details

Electrical Configuration

Number of contacts Low Voltage	19			
Contact Termination Low voltage	Crimp			
R (max)	6.1 mOhm			
Insert configuration value	2M.319 - 19 Low Voltage			
Insulator	L: PEEK			
Rated current	4 A			
Test voltage (kV rms) Contact-contact	1.2			
Test voltage (kV rms) Contact-shell	1			
Contact retention	22 N			
Max. Conductor	0.382 mm^2 (AWG 22			
Min. Conductor	0.128 mm^2 (AWG 26)			
Bucket Dia.	0.87 mm (0.027in)			
Contact Dia.	0.7 mm (0.028in)			
Wire Size/AWG	26 - 22			
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)			
Colour	Grey			
Weight	10.77 g			

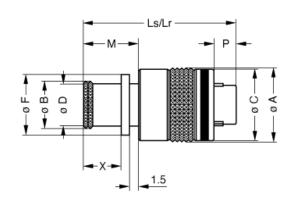
Environment

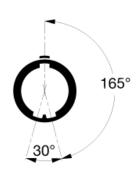
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-55°C / +200°C
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
Gunfire vibration	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	Mold stop (overmolding)
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

Drawings







Dimensions

	A	В	С	D	F	Ls	Lr	M	P	X
mm.	17.6	14	17.2	13	15.5	27.5	27.5	10.1	3.9	7.1
in.	0.69	0.55	0.68	0.51	0.61	1.08	1.08	0.4	0.15	0.28

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-2m-319-xlct.html}$

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Recommended By Lemo

Accessories

Replacement contact	FGN.0M.555.ZZC
Compatible cap	BMF.2M.100.XAV
Tools	
Positionner	DCE.91.070.5MVC
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V