FMN.2M.304.XLCM





Summary

Request a quote

Catalog

See video assembly instructions

Low Voltage	4
Wire Size/AWG	20 - 16
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2М
Matching parts	EGN.2M.304.XLM
Series	M - Rugged Ratchet coupling

Technical details

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-2m-304-xlcm.html

Electrical Configuration

Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	2M.304 - 4 Low Voltage
Insulator	L: PEEK
Rated current	15.5 Amps
Test voltage (kV rms) Contact-contact	1.55
Test voltage (kV rms) Contact-shell	1.55
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	4
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 MIL-DTL-38999L shell thread
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	9.3 g

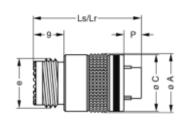
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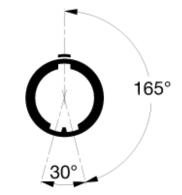
Environment

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 backshell MIL-DTL-38999M	
Fixation type	MIL-DTL-38999M	
Jacket cable outside diameter [mm]	6.50 - 13.00 mm	

Drawings







Dimensions

	Α	С	е	Ls	Lr	Ρ
mm.	17.6	17.2	M15x1.0	26.4	26.4	3.9
in.	0.69	0.68		1.04	1.04	0.15

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Recommended By Lemo

AccessoriesReplacement contactFGN.0M.565.ZZCToolsDCE.91.130.5MVCPositionnerDCE.91.130.5MVCExtraction toolDCF.93.131.4LTCrimp toolDPC.91.701.V

Cables

Cable PartNumber	Material	Colour	Cable image
240750	PVC	Grey	
417920	PVC	Grey	
CTR.75.030.121870G	PVC	Grey	

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