FGN.1M.305.XLCM





Summary

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Catalog

See video assembly instructions

Number of contacts Low Voltage	5
Wire Size/AWG	24 - 20
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Matching parts	EGN.1M.305.XLM
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

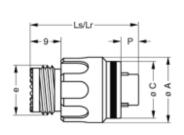
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Contact Termination Low voltage	Crimp			
R (max)	4.8 mOhm			
Insert configuration value	1M.305 - 5 Low Voltage			
Insulator	L: PEEK			
Rated current	9 Amps			
Test voltage (kV rms) Contact-contact	1.3			
Test voltage (kV rms) Contact-shell	1.3			
Contact retention	30 N			
Contact Type	Crimp			
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)			
Number of contacts Low Voltage	5			
Wire Size/AWG	24 - 20			
Gender	Standard			
Form & Material				
Shell style / Model id	FG - Straight plug with arctic grip and MIL spec backend			
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	7.46 g			

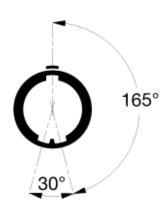
Environment

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 backshell MIL-DTL-38999M			
Fixation type	MIL-DTL-38999M			
Jacket cable outside diameter [mm]	4.85 - 9.70 mm			

Drawings







Dimensions

	A	С	е	Ls	Lr	Р
mm.	15.9	14.2	M12x1.0	26.4	26.4	3.9
in.	0.63	0.56		1.04	1.04	0.15

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgn-1m-305-xlcm.html}$

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