FGN.1M.302.XLC





Image for illustrative purpose only

Summary

Request a quote

Series

Catalog See video assembly instructions Number of contacts Low Voltage 2 Wire Size/AWG 20 - 16 Gender Standard

Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	EGN.1M.302.XLM

M - Rugged Ratchet coupling

Technical details

Electrical Configuration

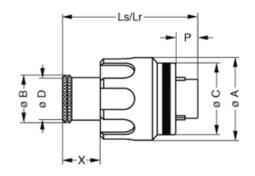
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Number of contacts Low Voltage	2
Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	1M.302 - 2 Low Voltage
Insulator	L: PEEK
Rated current	19 A
Contact retention	40 N
Max. Conductor	1 mm^2 (AWG 18)
Min. Conductor	0.5 mm^2 (AWG 20)
Bucket Dia.	1.4 mm (0.055in)
Contact Dia.	1.3 mm (0.051in)
Wire Size/AWG	20 - 16
Gender	Standard
Form & Material	
Shell style / Model id	FG - Straight plug with arctic grip
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	6.89 g

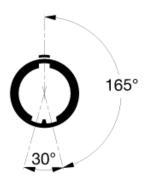
Environment

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 (max. temperature valid for short periods of use.)		
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	Heatshrink		
Fixation type	Heatshrink		
Jacket cable outside diameter [mm]	4.85 - 9.70 mm		

Drawings







Dimensions

	A	В	С	D	Ls	Lr	Р	X
mm.	15.9	10.5	14.2	9.7	24.1	24.1	3.9	6.7
in.	0.63	0.41	0.56	0.38	0.95	0.95	0.15	0.26

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

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Recommended By Lemo

Accessories

Replacement contact	FGN.0M.565.ZZC
Compatible cap	BGF.1M.100.XAV
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		
220750	PVC	Grey		
320150	PVC	Grey		