



Image for illustrative purpose only

Summary

Request a quote

Request a quote	
Catalog	
See video assembly instructions	
Number of contacts Low Voltage	3
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
Suggested matching part	PMN.1M.303.XLM
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

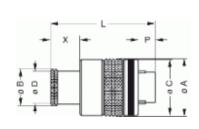
3		
5		
Crimp		
3.6 mOhm		
1M.303 - 3 Low Voltage		
L: PEEK		
15.5 A		
40 N		
1 mm^2 (AWG 18)		
0.5 mm^2 (AWG 20)		
1.4 mm (0.055in)		
1.3 mm (0.051in)		
20 - 16		
Standard		
FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip		
Straight		
Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass		
Ratchet		
N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)		
Grey		
6.54 g		

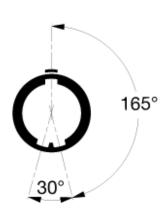
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV IP68		
Environmental sealing (IP rating)			
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.	14.6	10.5	14.2	9.7	24.1	24.1	3.9	6.7
in.	0.57	0.41	0.56	0.38	0.95	0.95	0.15	0.26

Recommended By Lemo

Accessories

Replacement contact	FGN.0M.565.ZZC	
Compatible cap	BMF.1M.100.XAV	
Tools		
Positionner	DCE.91.130.5MVC	
Extraction tool	DCF.93.131.4LT	

Cables

Cable PartNumber	Material	Colour	Cable image
CMN.03.T18.055PGZE		grey	
CMN.03.T18.055PNZE			3 3
CMN.03.T18.055QGZE	TPR (medical)	Grey	
CMN.03.T20.049PGZE		grey	⇒
CMN.03.T20.049PNZE			
230500	PVC	Grey	
230750	PVC	Grey	
3220	PVC	Black	
330150	PVC	Grey	