PEN.1M.303.XLMT





Image for illustrative purpose only

Summary

Request a quote

Catalog	
Number of contacts Low Voltage	3
Wire Size/AWG	20 - 16
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMN.1M.303.XLC
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

_					
Contact Termination Low voltage	Crimp				
R (max)	3.6 mOhm				
Insert configuration value	1M.303 - 3 Low Voltage				
Insulator	L: PEEK				
Rated current	15.5 A				
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)				
Number of contacts Low Voltage	3				
Wire Size/AWG	20 - 16				
Gender	Standard				
orm & Material					
Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop				
Socket / Receptacle	Fixed Panel Rear Mounted				
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)				
Colour	Grey				
Weight	8.4 g				

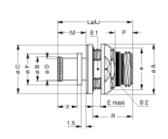
Environment

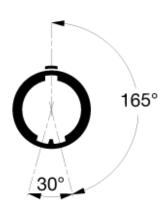
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV				
Environmental sealing (IP rating)	IP68				
Endurance	3000 mating cycles				
Temperature range	-20°C / +200°C				
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)				
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 overmolding				
Fivation type	Thurs cable adapter				

Cable termination protection	For overmolding
Fixation type	T type cable adapter
Jacket cable outside diameter [mm]	4.85 - 9.70 mm

Drawings







Dimensions

	A	В	С	D	Е	е	Ls	Lr	M	Р	R	S1	S2
mm.	18	10.5	17.8	9.7	5	M14x1.00	25.6	25.6	9.7	5.3	13.8	12.5	16
in.	0.71	0.41	0.7	0.38	0.2		1.01	1.01	0.38	0.21	0.54	0.49	0.63

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pen-1m-303-xlmt.html}$

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Recommended By Lemo

Accessories

Replacement contact	EGN.0M.665.ZZM			
Tools				
Positionner	DCE.91.130.5MVM			
Extraction tool	DCF.93.131.4LT			
Spanner wrench	DCM.65.160.AZ			

Cables

Cable PartNumber	Material	Colour	Cable image
CMN.03.T18.055PGZE		grey	>
CMN.03.T18.055PNZE			
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	