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Summary

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Catalog

Number of contacts Low Voltage	4
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	HES.1M.3040.XRDP2
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fms-1m-304-xrmt2.html

Technical details

Electrical Configuration				
Number of contacts Low Voltage	4			
Contact Termination Low voltage	Crimp			
Insert configuration value	1M.304_2 - 2 (0.7 mm) + 2 (1.3 mm) Low Voltage			
Insulator	R: PEEK (mixed multipole)			
Rated current	0.7 mm : 11 A, 1.3 mm : 18.5 A			
Bucket Dia.	2x0.87 mm, 2x1.6 mm			
Contact Dia.	2x0.7 mm, 2x1.3 mm			
Wire Size/AWG details	0.7 mm : 26-22, 1.3 mm : 20-16			
Gender	Reverse Gender			
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 mold stop			
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	S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)			
Colour	Grey			

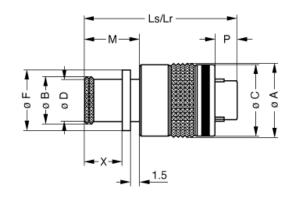
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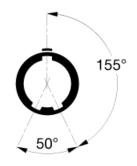
Environment

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	For overmolding				
Fixation type	Mold stop (overmolding)				
Jacket cable outside diameter [mm]	4.85 - 9.70 mm				

Drawings







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Dimensions

	Α	В	С	D	F	Ls	Lr	Μ	Ρ	X
mm.	14.6	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
in.	0.57	0.41	0.56	0.38	0.49	1.07	1.07	0.38	0.15	0.26

Recommended By Lemo

Accessories

0M.660.ZZM
1M.100.XAV
91.130.5MVM
91.070.3MVM
93.131.4LT
93.070.4LT
91.701.V
65.160.AZ

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