

Special



Image for illustrative purpose only

Summary

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[M series](#)

High Power	1
Wire Size/AWG	4 - 4
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Ratchet
Size	4M
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmx-4m-h16-xlmt.html

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Technical details

Electrical Configuration

High Power	1
Contact Termination High Power	Crimp
Insert configuration value	4M.H16 - 1 High Power (6 mm)
Insulator	L: PEEK
Rated current	138 A
Test voltage contact-shell	4.4 kV rms
Wire Size/AWG	4 - 4
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	X: 5 keys (alpha=100, beta=125, gamma=40, delta=20, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	33.02 g

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Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
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

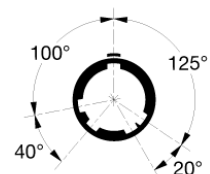
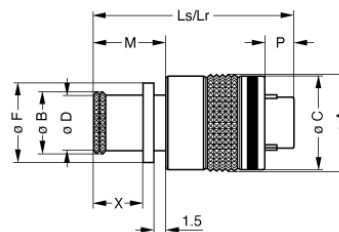
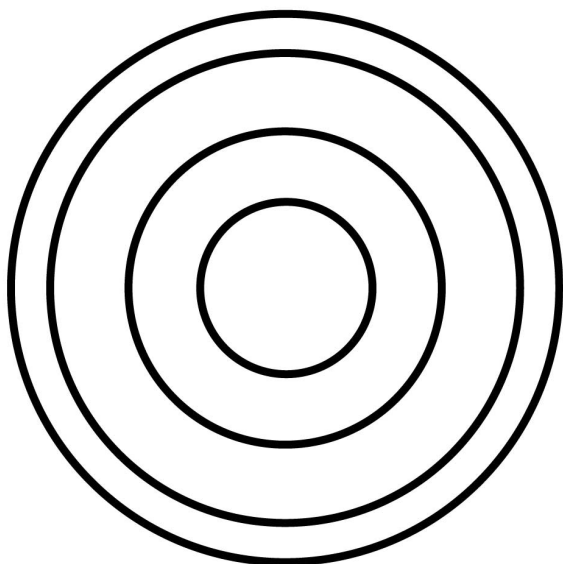
Cable fixation

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)

Drawings

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Dimensions

	A	B	C	D	F	Ls	Lr	M	P	X
mm.	25	20.7	24.5	19.5	22.6	31.6	31.6	10.6	3.4	7.6
in.	0.98	0.81	0.96	0.77	0.89	1.24	1.24	0.42	0.13	0.3

Recommended By Lemo

Accessories

Compatible cap [BMF.4M.100.XAV](#)

Tools

Extraction tool [DCC.91.64H.PLC](#)

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