

Special



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Summary

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[M series](#)

[Customer Drawing](#)

High Power	3
Wire Size/AWG	8 - 8
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Ratchet
Size	5M
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgx-5m-h34-xlmt.html

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Technical details

Electrical Configuration

High Power	3
Contact Termination High Power	Crimp
Insert configuration value	5M.H34 - 3 High Power (4 mm)
Insulator	L: PEEK
Rated current	52 A
Test voltage contact-contact	9 kV rms
Test voltage contact-shell	4.7 kV rms
Wire Size/AWG	8 - 8
Gender	Reverse Gender

Form & Material

Shell style / Model id	FG - Straight plug with arctic 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	27.64 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)

Recommended By Lemo

Accessories

Compatible cap	BGF.5M.100.XAV
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Tools

Extraction tool	DCC.91.43H.PLC
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