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Summary

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Number of contacts Low Voltage	114
Wire Size/AWG	26 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	14.25 - 28.50 mm
Size	5M
Suggested matching part	EGR.5M.114.XLM
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgr-5m-114-xlct.html

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Technical details

Electrical Configuration

Contact Termination Low voltage	Crimp
Insert configuration value	5M.114 - 114 Low Voltage
Insulator	L: PEEK
Rated current	2 A
Test voltage (kV rms) Contact-contact	1.37
Test voltage (kV rms) Contact-shell	1.34
Contact Dia.	0.7
Number of contacts Low Voltage	114
Wire Size/AWG	26 - 22
Gender	Standard

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	R: 5 keys (alpha=105, beta=115, gamma=30, delta=20, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	49.95 g

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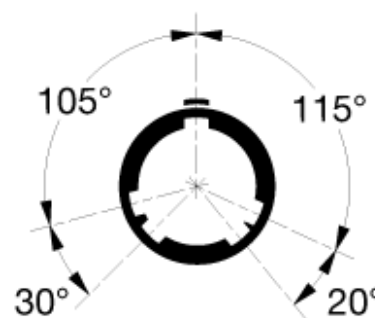
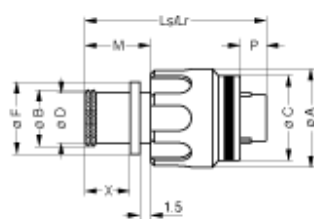
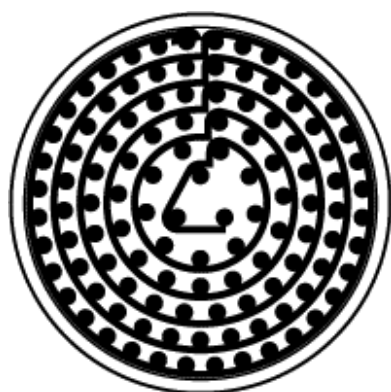
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Temperature range	-55°C / +200°C
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	T type cable adapter
Jacket cable outside diameter [mm]	14.25 - 28.50 mm

Drawings



Dimensions

	A	B	C	D	F	Ls	Lr	M	P	X
mm.	34.9	29.7	33.5	28.5	31.4	31.6	31.6	10.6	3.4	7.6
in.	1.37	1.17	1.32	1.12	1.24	1.24	1.24	0.42	0.13	0.3

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Recommended By Lemo

Accessories

Replacement contact [FGN.0M.555.ZZC](#)

Compatible cap [BGF.5M.100.XAV](#)

Tools

Positionner [DCE.91.070.5MVC](#)

Extraction tool [DCF.93.070.4LT](#)

Crimp tool [DPC.91.701.V](#)

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