



Summary

[Request a quote](#)

[Catalog](#)

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
Matching parts	EGR.5M.114.XLM
Series	M - Rugged Ratchet coupling

Technical details

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

Electrical Configuration

Contact Termination Low voltage	Crimp
Insert configuration value	5M.114 - 114 Low Voltage
Insulator	L: PEEK
Rated current	2 Amps
Test voltage (kV rms) Contact-contact	1.37
Test voltage (kV rms) Contact-shell	1.34
Contact Dia.	0.7
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	5 keys (alpha=105, beta=115, gamma=30, delta=20, plug: male contacts, receptacle: female contacts)
Weight	49.95 g

Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental protection (IP rating)	IP68
Minimal temperature	-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

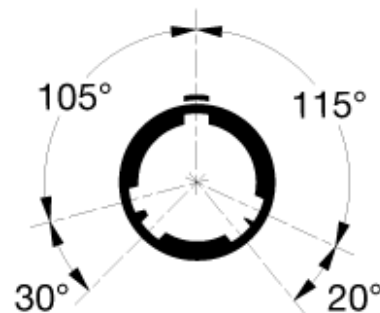
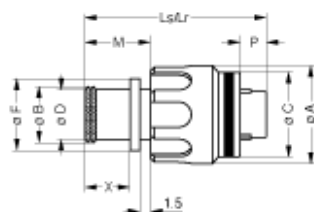
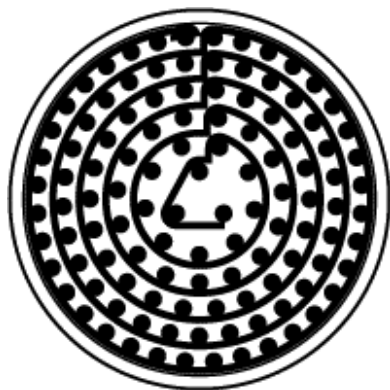
https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgr-5m-114-xlct.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

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

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.