

Special



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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	<a href="#">PMW.5M.114.XLMT</a> <a href="#">PHW.5M.114.XLMT</a>
Series	M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmw-5m-114-xlct.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmw-5m-114-xlct.html)

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# Technical details

## Electrical Configuration

Number of contacts Low Voltage	114
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
Bucket Dia.	0.87
Contact Dia.	0.7
Wire Size/AWG	26 - 22
Gender	Standard

## 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	W: 5 keys (alpha=95, beta=115, gamma=35, delta=25, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	48.93 g

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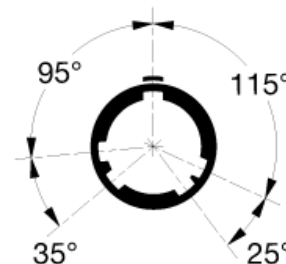
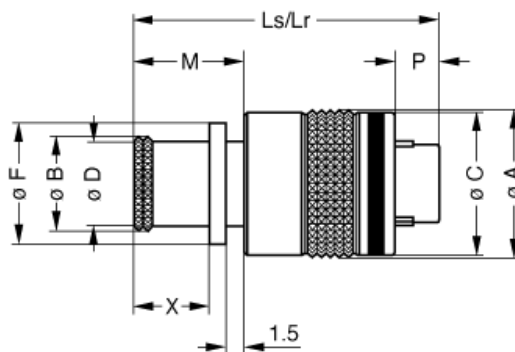
## Environment

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	$\geq 80$ dB (1 GHz), $\geq 70$ dB (3 GHz), $\geq 58$ dB (6 GHz), $\geq 40$ 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]	14.25 - 28.50 mm

## Drawings



[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmw-5m-114-xlct.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmw-5m-114-xlct.html)

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## Dimensions

	A	B	C	D	F	Ls	Lr	M	P	X
mm.	34	29.7	33.5	28.5	31.4	31.6	31.6	10.6	3.4	7.6
in.	1.34	1.17	1.32	1.12	1.24	1.24	1.24	0.42	0.13	0.3

## Recommended By Lemo

### Accessories

Replacement contact	<a href="#">FGN.0M.555.ZZC</a>
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Compatible cap	<a href="#">BMF.5M.100.XAV</a>
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### Tools

Positionner	<a href="#">DCE.91.070.5MVC</a>
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Extraction tool	<a href="#">DCC.07.04B.LAG</a>
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Crimp tool	<a href="#">DPC.91.701.V</a>
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