

Special



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Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	114
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Panel Drill Hole	M33
Jacket cable outside diameter [mm]	14.25 - 28.50 mm
Size	5M
Suggested matching part	FMW.5M.114.XLCT
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pew-5m-114-xlmt.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 contact-contact	1.95 kV DC
Test voltage contact-shell	1.9 kV DC
Contact Dia.	0.7
Wire Size/AWG	26 - 22
Gender	Standard

Form & Material

Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop
Socket / Receptacle	Fixed Panel Rear Mounted
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	48.75 g
Panel Drill Hole	M33

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Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Temperature range	-20°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

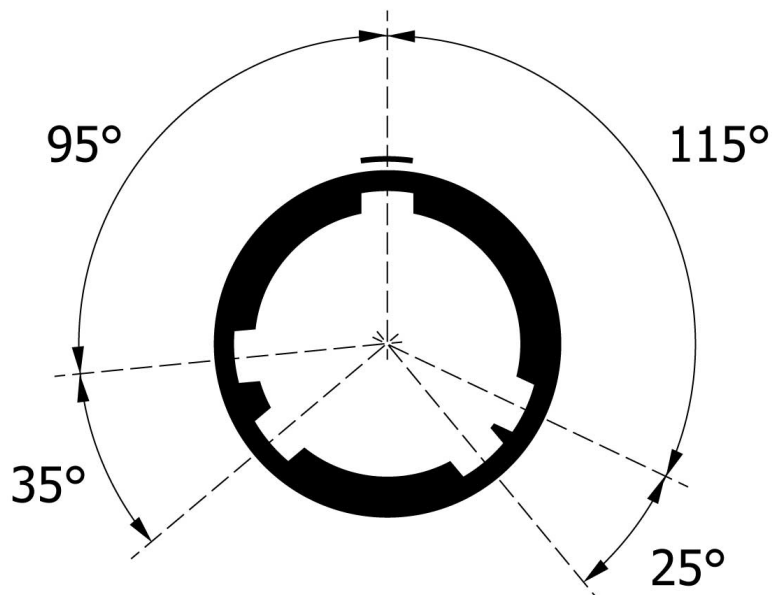
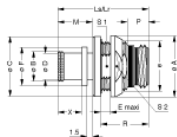
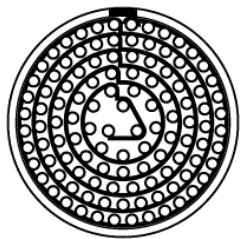
Cable fixation

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	14.25 - 28.50 mm

Drawings

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Dimensions

	A	B	C	D	E	e	Ls	Lr	M	P	R	S1	S2
mm.	38	29.7	36.8	28.5	4	M33x1.00	29.5	30.1	10.6	7.9	16.9	31.5	34
in.	1.5	1.17	1.45	1.12	0.16		1.16	1.19	0.42	0.31	0.67	1.24	1.34

Recommended By Lemo

Contacts

Replacement contact [EGW.TM.655.ZZM](#)

Caps

Compatible cap [BGK.5M.200.XAZ](#)

Cap 2 [BMK.5M.200.XAZ](#)

Tools

Spanner 2 [DCM.65.340.AZ](#)

Positionner [DCE.91.07T.5MVM](#)

Extraction tool [DCC.07.04B.LAG](#)

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

Spanner wrench [DCM.65.340.AZ](#)

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