

Special



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Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	55
Wire Size/AWG	24 - 20
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Panel Drill Hole	M28
Jacket cable outside diameter [mm]	11.35 - 22.70 mm
Size	LM
Suggested matching part	FMW.LM.355.XLCT
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pew-lm-355-xlmt.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	55
Contact Termination Low voltage	Crimp
R (max)	4.8 mOhm
Insert configuration value	LM.355 - 55 (0.9 mm) Low Voltage
Insulator	L: PEEK
Rated current	3.5 A
Test voltage contact-contact	2.33 kV DC
Test voltage contact-shell	2.75 kV DC
Contact retention	30 N
Max. Conductor	0.5 mm ² (AWG 20)
Min. Conductor	0.25 mm ² (AWG 24)
Bucket Dia.	1.1 mm (0.043in)
Contact Dia.	0.9 mm (0.035in)
Wire Size/AWG	24 - 20
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	36.83 g
Panel Drill Hole	M28

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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	-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

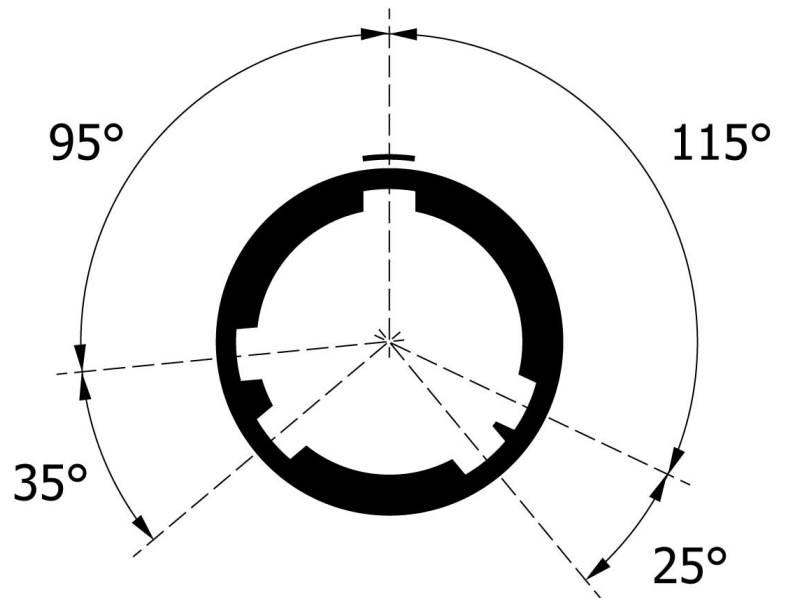
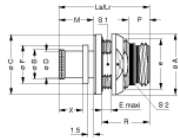
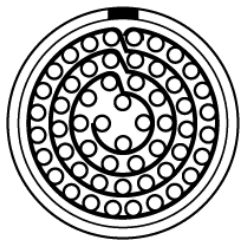
Cable fixation

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	11.35 - 22.70 mm

Drawings

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Dimensions

	A	B	C	D	E	e	Ls	Lr	M	P	R	S1	S2
mm.	33	23.9	31.8	22.7	4	M28x1.00	29.5	30.1	10.6	7.9	16.9	26.5	29
in.	1.3	0.94	1.25	0.89	0.16		1.16	1.19	0.42	0.31	0.67	1.04	1.14

Recommended By Lemo

Contacts

Replacement contact [EGW.TM.660.ZZM](#)

Caps

Compatible cap [BGK.LM.200.XAZ](#)

Cap 2 [BMK.LM.200.XAZ](#)

Tools

Spanner 2 [DCM.65.290.AZ](#)

Positionner [DCE.91.09T.5MVM](#)

Extraction tool [DCC.09.05B.LAG](#)

Insertion tool [DCV.09.05M.LA](#)

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

Spanner wrench [DCM.65.290.AZ](#)

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