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Summary

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Number of contacts Low Voltage	55
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Size	LM
Suggested matching part	FMW.LM.355.XLC
Series	M - Rugged Ratchet coupling

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

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Technical details

Electrical Configuration

Number of contacts Low Voltage	55
Contact Termination Low voltage	PCB - Straight
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 (kV rms) Contact-contact	1.65
Test voltage (kV rms) Contact-shell	1.95
Contact Dia.	0.9 mm (0.035in)
Gender	Standard

Form & Material

Shell style / Model id	ED - Fixed receptacle with square flange for printed circuit
Socket / Receptacle	Fixed Panel Front 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	24.76 g

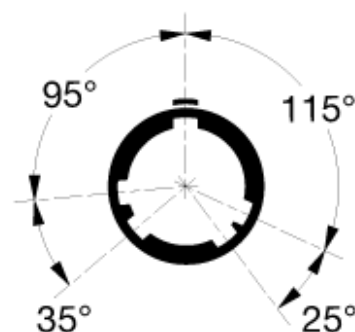
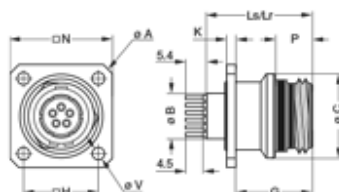
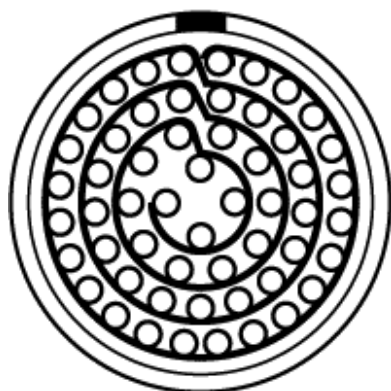
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Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-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

Drawings



Dimensions

	A	B	C	G	H	K	Ls	Lr	N	P	SV
mm.	38	17.95	28	14.5	23	2	20	21.9	28.5	7.9	3.3
in.	1.5	0.71	1.1	0.57	0.91	0.08	0.79	0.86	1.12	0.31	0.13

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Recommended By Lemo

Accessories	
Compatible cap	BGE.LM.200.XAZ

CAD

Documents	
PCB	Download
PCB Eagle	Download
Kicad	Download
PCB Altium	Download