

Special

*Image for illustrative purpose only*

Summary

[Request a quote](#)[M series](#)[Application leaflet Security Defence](#)

Number of contacts Low Voltage	30
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Size	3M
Suggested matching part	FMN.3M.330.XLC
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/edn-3m-330-xln.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	30
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	3M.330 - 30 Low Voltage
Footprint IPC Class3 compatibility	Yes
Class3 Productibility Level Compatibility	B (Moderate Design Producibility - Standard)
Insulator	L: PEEK
Rated current	3.5 A
Test voltage contact-contact	1.54 kV DC
Test voltage contact-shell	1.4 kV DC
Contact Dia.	0.7 mm (0.028in)
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	20.77 g

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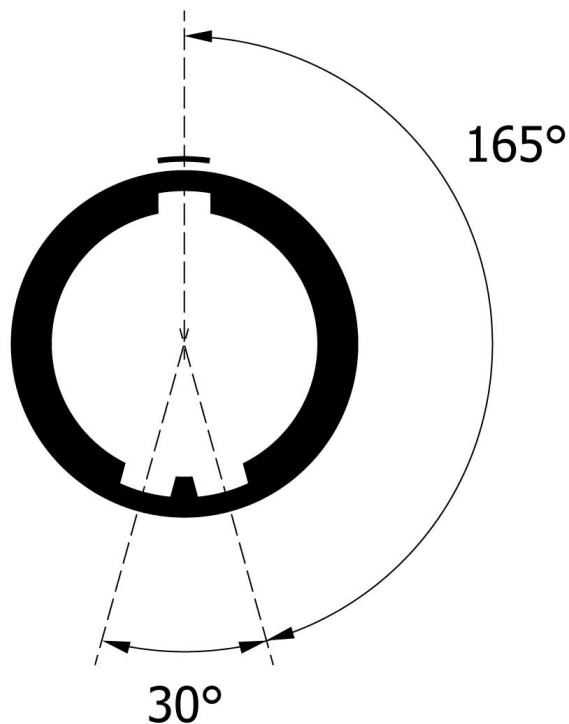
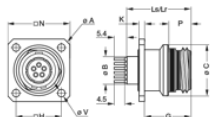
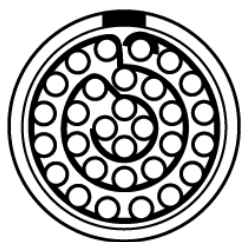
Environment

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

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Dimensions

	A	B	C	G	H	K	Ls	Lr	N	P	SV
mm.	29	10.95	19.2	12.8	16.6	1.5	18.3	18.3	22.1	5.3	3.3
in.	1.14	0.43	0.76	0.5	0.65	0.06	0.72	0.72	0.87	0.21	0.13

Recommended By Lemo

Caps

Compatible cap [BGE.3M.200.XAZ](#)

Cap 2 [BME.3M.200.XAZ](#)

CAD

Documents

PCB Eagle [Download](#)

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/edn-3m-330-xln.html

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