

Special

*Image for illustrative purpose only*

Summary

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

Number of contacts Low Voltage	30
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Panel Drill Hole	M19
Jacket cable outside diameter [mm]	7.50 - 15.00 mm
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/ecn-3m-330-xlm.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	30
Contact Termination Low voltage	Crimp
R (max) - electrical contact resistance	6.1 mOhm
Insert configuration value	3M.330 - 30 Low Voltage
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 retention	22 N
Max. Conductor	0.34 mm ² (AWG 22)
Min. Conductor	0.14 mm ² (AWG 26)
Bucket Dia.	0.8 mm (0.031 in)
Contact Dia.	0.7 mm (0.028 in)
Wire Size/AWG	26 - 22
Gender	Standard

Form & Material

Shell style / Model id	EC - Fixed receptacle with two nuts
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	12.78 g
Panel Drill Hole	M19

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Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP50
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

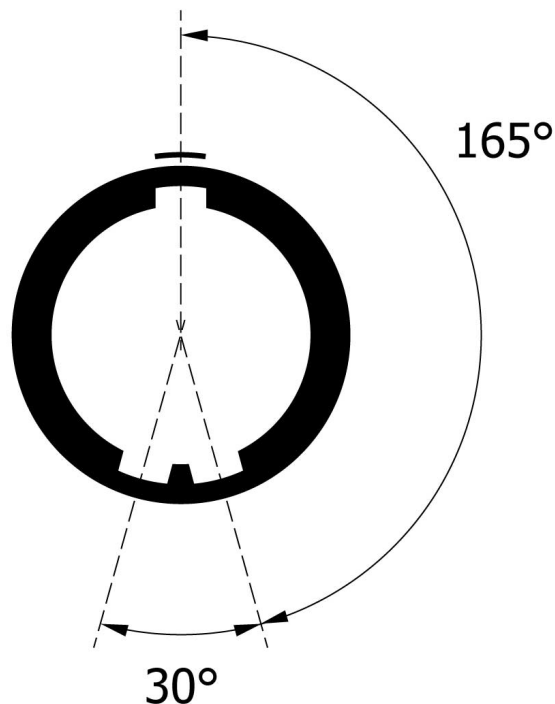
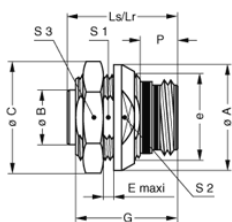
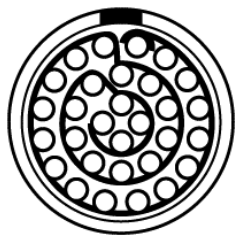
Cable fixation

Jacket cable outside diameter [mm]	7.50 - 15.00 mm
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Drawings

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Dimensions

	A	B	C	E	e	G	Ls	Lr	P	S1	S2	S3
mm.	23	10.95	25	4	M19x1.00	16.8	18.3	18.3	5.3	17.5	20	22
in.	0.91	0.43	0.98	0.16		0.66	0.72	0.72	0.21	0.69	0.79	0.87

Recommended By Lemo

Contacts

Replacement contact [EGN.0M.655.ZZM](#)

Caps

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

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

Tools

Spanner 2 [DCM.65.200.AZ](#)

Positionner [DCE.91.070.3MVM](#)

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

Insertion tool [DCV.07.05M.LA](#)

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

Spanner wrench [DCM.65.200.AZ](#)

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