

Standard



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Summary

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[M series](#)

[Customer Drawing](#)

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

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 (kV rms) Contact-contact	1.10
Test voltage (kV rms) Contact-shell	1.00
Contact Dia.	0.7 mm (0.028in)
Gender	Standard

Form & Material

Shell style / Model id	HE - Fixed receptacle, nut fixing for printed circuit, watertight
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	Watertight unmated (connector to device)
Weight	11.3 g

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

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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 / +80°C
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%
Lightning strike EIA 364-76	10K amps - 6 times
Shock Resistance	300 g [3 ms]
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

Panel Drill Hole	M19
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Recommended By Lemo

Accessories

Compatible cap	BGK.3M.200.XAZ
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Tools

Spanner 2	DCM.65.200.AZ
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Spanner wrench	DCM.65.200.AZ
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CAD

Documents

PCB	Download
PCB Eagle	Download
Kicad	Download
PCB Altium	Download

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