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Summary

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Number of contacts Low Voltage	30
Wire Size/AWG	26 - 22
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	7.50 - 15.00 mm
Size	3M
Suggested matching part	FMS.3M.330.XLMT
Series	M - Rugged Ratchet coupling

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

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Technical details

Electrical Configuration

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

Form & Material

Shell style / Model id	PH - Free receptacle with arctic grip and mold stop
Socket / Receptacle	Free
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	17.3 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

Cable fixation

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	7.50 - 15.00 mm

Recommended By Lemo

Accessories

Replacement contact	FGN.0M.555.ZZC
Compatible cap	BGF.3M.200.XAZ

Tools

Positionner	DCE.91.070.5MVC
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V

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