PMN.2M.514.XLMT6

Standard



Image for illustrative purpose only

Summary

Request a quote

High speed data transfer

LEMO Brochure Industry Defence Security

Customer Drawing

Number of contacts Low Voltage	8
Protocol	5G Base-T4 (5Gb/s)
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	0.00 - 6.00 mm
Size	2M
Suggested matching part	FMN.2M.514.XLCT6
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmn-2m-514-xlmt6.html
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Technical details

Electrical Configuration	
Number of contacts Low Voltage	8
Contact Termination Low voltage	Crimp
R (max) - electrical contact resistance	6.1 mOhm
Insert configuration value	2M.514 - 8 High Speed, Low Voltage (CAT 6)
Insulator	L: PEEK
Rated current	8 A
Test voltage contact-contact	1.5 kV DC
Test voltage contact-shell	1.5 kV DC
Max. Conductor	0.34 mm² (AWG 22)
Min. Conductor	0.14 mm² (AWG 26)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Number of differential pairs (High speed)	4
Protocol	5G Base-T4 (5Gb/s)
Wire Size/AWG	26 - 22
Gender	Standard

Form & Material	
Shell style / Model id	PM - Free receptacle with knurled grip
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	12 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)

Recommended By Lemo

Caps	
Compatible cap	BMF.2M.200.XAZ
Tools	
Positionner	DCE.91.072.MVCM
Extraction tool	DCC.07.04B.LAG
Crimp tool	DPC.91.701.V
Spanner wrench	

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