

Special



Image for illustrative purpose only

Summary

[Request a quote](#)

[High speed data transfer](#)

[Application leaflet Security Defence](#)

[Customer Drawing](#)

Number of contacts Low Voltage	8
Protocol	5G Base-T4 (5Gb/s)
Wire Size/AWG	32 - 28
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	0.00 - 6.00 mm
Size	2M
Suggested matching part	FMP.2M.514.XLBT6
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pep-2m-514-xlpt6.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

Technical details

Electrical Configuration

Number of contacts Low Voltage	8
Contact Termination Low voltage	Crimp
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
Contact retention	22 N
Max. Conductor	0.09 mm ² (AWG 28)
Min. Conductor	0.032 mm ² (AWG 32)
Bucket Dia.	0.44 mm (0.017 in)
Contact Dia.	0.7 mm (0.028 in)
Number of differential pairs (High speed)	4
Protocol	5G Base-T4 (5Gb/s)
Wire Size/AWG	32 - 28
Gender	Standard

Form & Material

Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop
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	P: 3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts)
Colour	Grey

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pep-2m-514-xlpt6.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

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
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	BGK.2M.200.XAZ
Cap 2	BMK.2M.200.XAZ

Tools

Spanner 2	DCM.65.180.AZ
Positionner	DCE.91.072.MVCM
Crimp tool	DPC.91.701.V
Spanner wrench	DCM.65.180.AZ

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pep-2m-514-xlpt6.html

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.