

CAT 6 HIGH SPEED HARSH ENVIRONMENT CONNECTORS



Cat6 high speed connector

The high speed connectors complete the line of 2M series connector and are suitable for Category 6.

Specifications:

- Transmission performance meets Category 6 specification up to 250 MHz for 1 GigaBit Ethernet transmission according IEEE802.3an.
- Screw-coupling connector
- IP68 solution
- For cable diameter up to 8 mm
- Designed for AWG 22, 23 and 24 (AWG 26 recommended cable length 60 m)
- Enhanced shielding

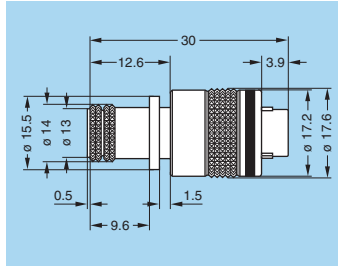
Applications:

- Harsh environment (NiCorAl™ treatment)
- Defense applications
- Data communication
- Ground forces tactical communications
- Ethernet switch
- Ruggedized outdoor solution

These products are specifically designed to work in harsh environments of temperature extremes, humidity, and vibration



Models

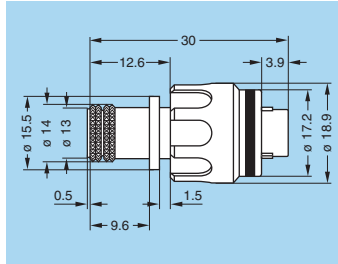


FMN.2M.514 Straight plug, key (N) or keys (P and U) with knurled grip and mold stop

Part Number Example:

FMN.2M.514.XLCT6

FMN.2M.514.ILCT6 (salt spray resistant)

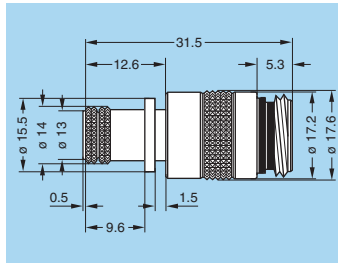


FGN.2M.514 Straight plug, key (N) or keys (P and U) with arctic grip and mold stop

Part Number Example:

FGN.2M.514.XLCT6

FGN.2M.514.ILCT6 (salt spray resistant)



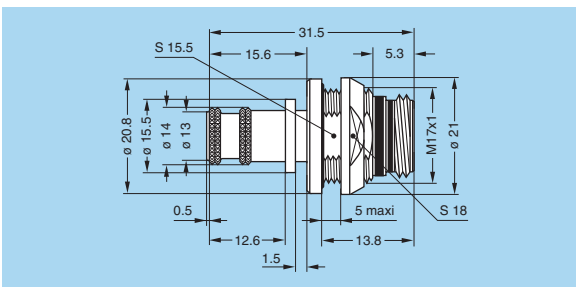
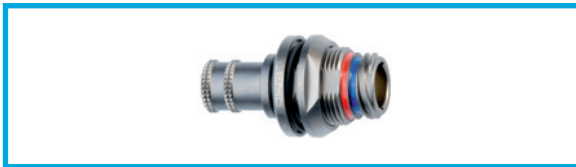
PMN.2M.514 Free socket, key (N) or keys (P and U) with knurled grip and mold stop

Part Number Example:

PMN.2M.514.XLMT6

PMN.2M.514.ILMT6 (salt spray resistant)

Note: For arctic grip, order PHN model.

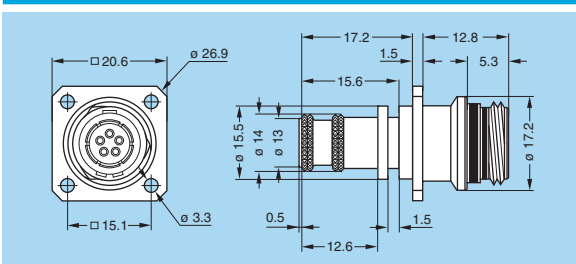


PEN.2M.514 Fixed socket, key (N) or keys (P and U) with mold stop (back panel mounting)

Part Number Example:

PEN.2M.514.XLMT6

PEN.2M.514.ILMT6 (salt spray resistant)

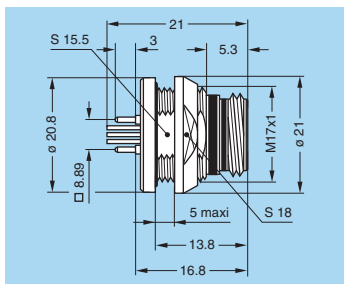


PFN.2M.514 Fixed socket with square flange, key (N) or keys (P and U) with mold stop

Part Number Example:

PFN.2M.514.XLMT6

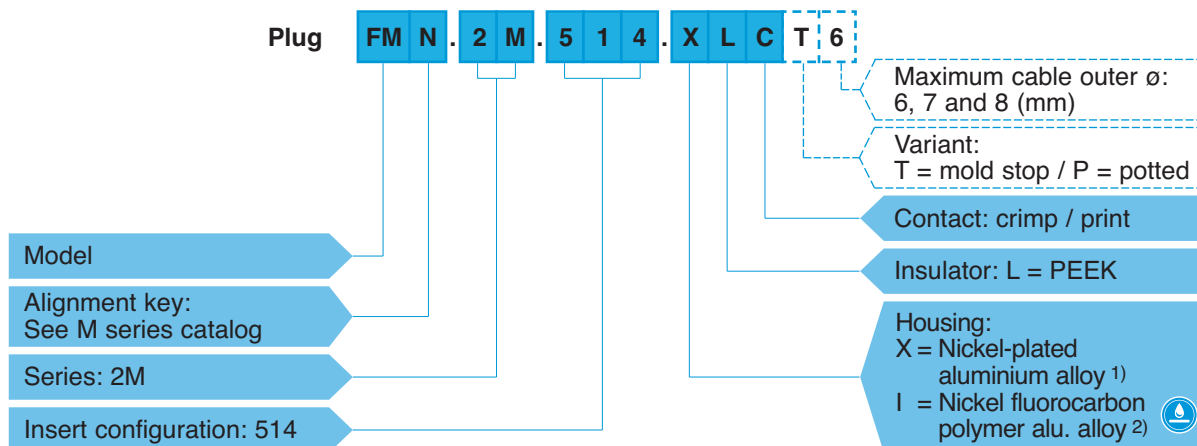
PFN.2M.514.ILMT6 (salt spray resistant)



HEN.2M.514 Fixed socket, nut fixing, key (N) or keys (P and U) for printed circuit, watertight (back panel mounting)

Part Number Example:
HEN.2M.514.XLNP
HEN.2M.514.ILNP (salt spray resistant)

Part number system



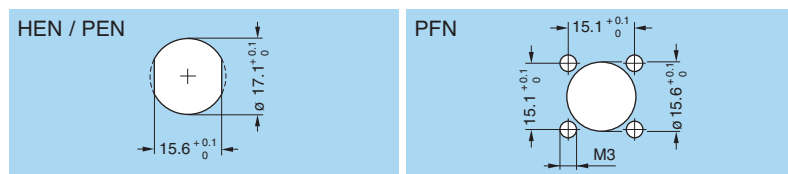
FMN.2M.514.XLCT6 = straight plug with key (N), 2M series, outer shell in anthracite nickel-plated aluminium alloy, PEEK insulator, male crimp contacts, with mold stop, 6 mm cable outer diameter.

Note: 1) anthracite colour / 48 hours salt fog resistance. 2) anthracite colour / 500 hours salt fog resistance RoHS 2/REACH.

Insert configuration and electrical characteristics

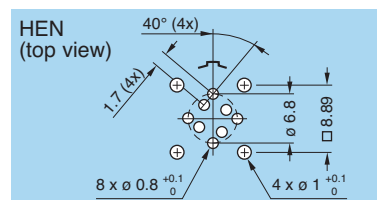
Male crimp contacts		Female crimp contacts		Reference	Number of contacts	ϕ A (mm)	Crimp	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
				514	8	0.7	●	1.5	1.5	8

Panel cut-out



Note: Mounting nut torque (on panel): 2.0 Nm.

PCB drilling pattern



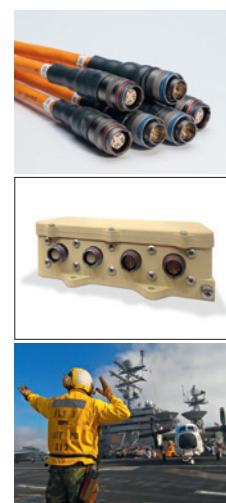
Cable stripping lengths

Connector type	ϕ contact (mm)	Dim. (mm)	
		L1	L2
514	0.7	20	24

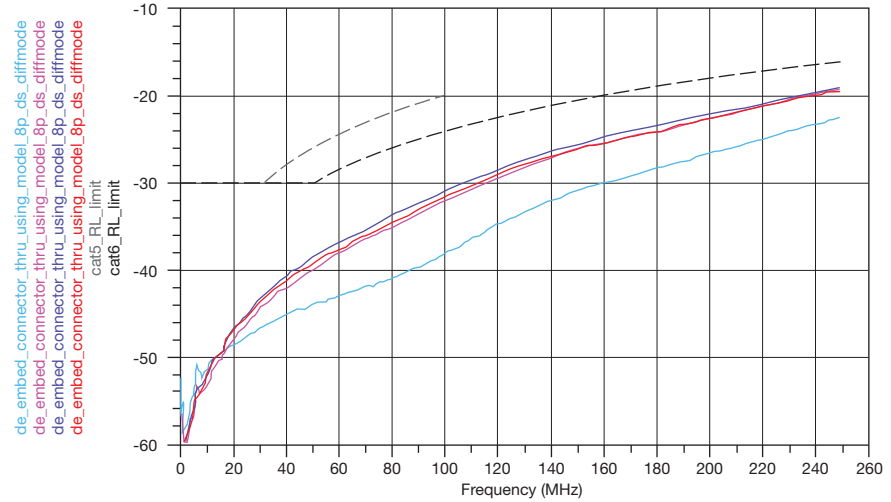
Note:
L1 = for models FG, FM, PH, PM.
L2 = for models PE, PF.

Tooling

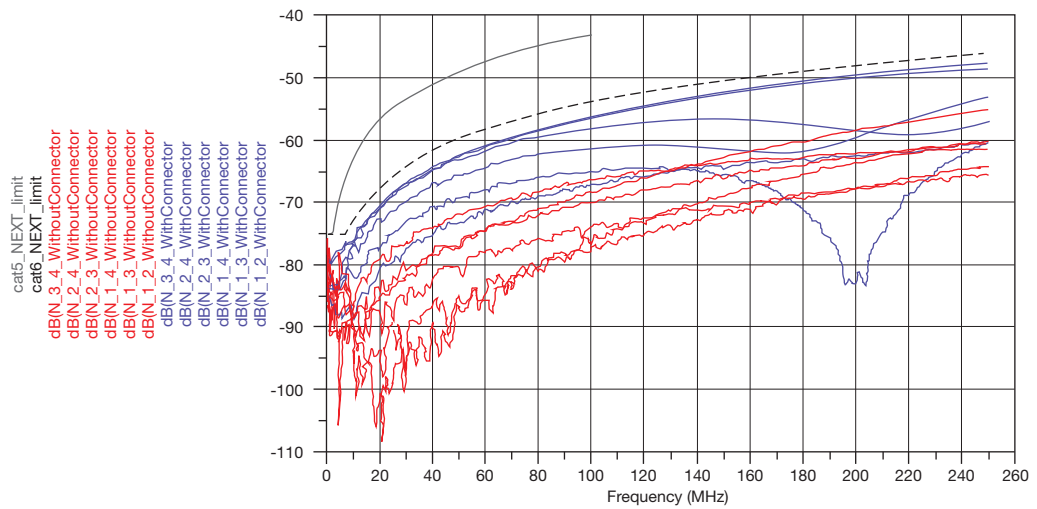
Recommended crimping tool:
DCE.91.072.MVCM.



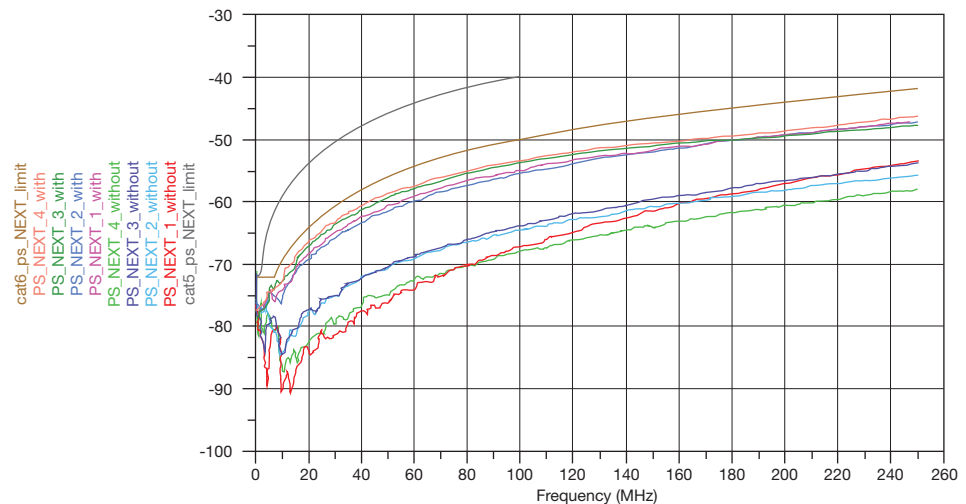
RETURN LOSS



NEXT (more crosstalk with connector)



PSNEXT (Power Sum NEXT)



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[FGN.2M.310.XLCM](#)