

MTP® PRO Series Datasheet

MTP® PRO TRUNK CABLE AND FIELD TOOL

Change polarity and pins in the field with greater flexibility and reduced risk.



MTP® PRO Trunk Cable and Field Tool

MTP® PRO design is focused on simplicity and reliability, ensuring a quick and effective method for polarity and pin configuration without the need to remove the housing or handle loose pins. One simple insertion into the MTP® PRO field tool reverses the keying configuration by retracting the exposed key while simultaneously extracting a hidden key on the opposite side of the connector.

Standards Compliance

- RoHS and WEEE Compliant
- ISO9001 Certificate

Features

- US Conec MTP® PRO trunk cable and field tool.
- Safely change polarity and pins in the field.
- Pin change from male to female and vice versa.
- Polarity change from type A to type B and vice versa of MTP®-12 MTP® PRO trunk cable.
- The tool works for MTP® PRO connectors only, not available for standard MTP®/MPO connectors.

I. MTP® PRO Trunk Cable

The MTP® PRO patch cord is bend-insensitive and pre-terminated with MTP® PRO connectors, factory polished for low loss performance. With a novel design focused on simplicity and reliability, the MTP® PRO connector offers quick and effective polarity and pin reconfiguration in the field while ensuring product integrity and performance.



Technical Specification

Construction	Description
Fiber Count	8-144 Fibers (MTP®-12)
Fiber Mode	Single Mode: OS2 9/125µm Multimode: OM4 50/125µm, OM3 50/125µm
Fiber Brand	Corning ClearCurve® multimode fiber and SMF-28® Ultra optical fiber
Connector Type	MTP® PRO Female, Male
Connector Brand	US Conec MTP® PRO
Polarity	Type A, Type B
Cable Jacket Ratings	LSZH/Plenum (OFNP)
Cable Type	Bunch

Technical Specification

Color Codes	MTP® PRO
Cable Jackets	OS2: Yellow OM4: Magenta OM3: Aqua
Connectors	OS2: Green OM4/OM3: Aqua

Physical Properties	Description
Cable Diameter	3.0mm
Breakout Length	0.5/0.3m
Minimum Bend Radius	Single Mode: 10.0mm, Multimode: 7.5mm
Operating Temperature	-10°C to +70°C
Storage Temperature	-40°C to +85°C







Optical Properties	Description
Attenuation (dB/km)	Single Mode: ≤0.32 at 1310nm, ≤0.18 at 1550nm Multimode: ≤2.3 at 850nm, ≤0.6 at 1300nm
Insertion Loss (dB)	Single Mode: ≤0.35, Multimode: ≤0.35
Return Loss (dB)	Single Mode: UPC Polish: ≥50, APC Polish: ≥60 Multimode: ≥20
Wavelength (nm)	Single Mode: 1310/1550, Multimode: 850/1300
Transmission Distance	OM4: 150m at 40/100G, 400m at 10G OM3: 100m at 40/100G, 300m at 10G

II. MTP® PRO Field Tool

With the field tool, the polarity of MTP® PRO cables can be changed from key up to key down. A big advantage of this tool is that even an unskilled and untrained technician can easily manage polarity and pin reconfiguration right in the field in a minute without needing to remove the connector housing, expose any fibers or perform any other disassembly of the connector.



Technical Specification

Tool Components	Picture	Description
1x MTP® PRO Field Tool		Clear hole position indicates the right place to insert the connectors for polarity or pin change.
1x Green Gripper		Compress the black handles and lift up on the jaws of the gripper, used for pin removal.
20x Pin Exchanger		Pin exchanger retrieves and deposits pins, field friendly configuration with no risk for damage.
1x Fiber Optic Cleaner		Designed for cleaning the ferrule end-faces of MTP®/MPO connectors Recycle clean times up to 500+ .
1x MTP® PRO Sample Cable		MTP® PRO mechanical sample cable, 8-in length.
1x User's Guide		Quick start guide for polarity and pin change.

Pin Removal-Male to Female



- Insert pinned MTP® PRO Connector in the Pin Change Port until audible "CLICK".



- Align and insert Pin Exchanger on the opposite end of the Pin Change Port.



- Slide Gripper onto the Pin Exchanger. Compress the black handles.



- Compress the Green Gripper handles until they touch and pull the Pin Exchanger out.

Pin Insertion-Female to Male



- Insert unpinned MTP® PRO Connector in the Pin Change Port until audible "CLICK".



- Align Pin Exchanger with pins attached on the opposite end of the Pin Change Port.



- Insert Pin Exchanger into the opposite end of the Pin Change Port until audible "CLICK".



- Pull out Pin Exchanger and verify insertion of the pins onto the MTP® PRO Connector.

Polarity Change



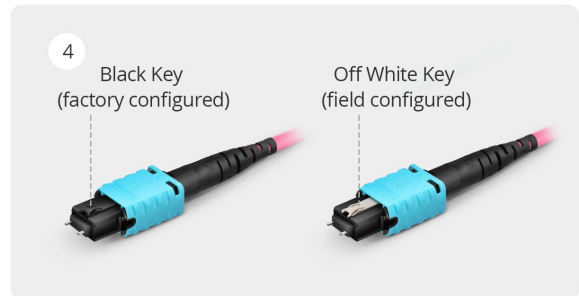
- Align key on the MTP® PRO Connector with “KEY UP” on the Polarity Change Port.



- Insert the MTP® PRO Connector in the Polarity Change Port until audible “CLICK”.



- Remove the MTP® PRO Connector from the Polarity Change Port.



- Polarity changed from Black Key exposed to Off White Key exposed.

[* More instruction guide please click >](#)

Notes:

- The tool works for MTP® PRO connectors only, not available for standard MTP®/MPO connectors.
- The fiber optic cleaner is provided together for cleaning end-face of MTP®/MPO connectors.

Products List

ID	Description
#80733	Field Tool for MTP® PRO Connectors to Change Polarity and Pins
#80734	Customized MTP® PRO 8-144 Fibers MTP®-12 OM4 Multimode Trunk Cable
#80735	Customized MTP® PRO 8-144 Fibers MTP®-12 OM3 Multimode Trunk Cable
#80736	Customized MTP® PRO 8-144 Fibers MTP®-12 OS2 Single Mode Trunk Cable



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