

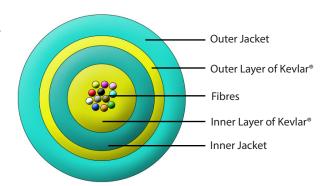
MTP® Tuff Trunk Assemblies

 $\rm MTP^{\circ}$ Tuff Trunk Cable Assemblies are of a Robust Double Jacket construction, designed for longer length trunk patching.

Incredibly, the provision of a second jacket benefits the cable by an additional 500N of crush resistance to an overall total of 1000N.

The cables retain their compactness with only 4.5mm O.D for 12f and the 24f version. These cables are packed with Kevlar® which provides the necessary endurance for routing and patching purposes, providing links between Comms Rooms or Data Centres.





Only genuine US Conec branded MTP[®] PRO connectors are fitted to our cables with Elite MT ferrule for those applications requiring the highest performance. These connectors provide exceptional benefits over the conventional MPO connectors, including patented floating ferrule design, patented elliptical, high precision guide pins, allowing rapid gender change and reversing polarity out in the field. Tuff Trunk assemblies are manufactured in our state-of-the-art facility utilising equipment recommended by and personnel trained by US Conec.

The MTP® Tuff Trunk assemblies facilitate rapid deployment of high density backbone cabling in data centres and other high fibre count environments, reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedised MTP® Harness links.

Features & Benefits

- Exceptionally High Density Connectors Up to 24f in a traditional SC Simplex adapter footprint
- Higher Density Population reduces the overall cost of 1U Spacing
- Rapid deployment modular system saving overall installation and maintenance time
- Multimode OM3, enhanced OM4 and OS2 fibre grades with a LSZH jacket
- Removable housing for field change of polarity and gender (seperate tool required)
- MTP[®] patented elliptical guide pins are key to accurate mating alignment and determine the gender or the connector; male or female
- The oval spring provides greater fibre clearance and seats into the connector body eliminating possible trapping/breakages of bare fibre
- High Spring Force (HSF) MTP[®] connectors ensuring uniform alignment across 24x lanes and optimising the physical contact
- Choosing MTP® Elite provides performance for the most stringent of optical loss budget environments
- 100% interferometric testing for all MTP® Connectors to verify end-face geometry conformity and subsequent low losses
- Fully compatible with all MPO connectivity and QSFP+ mated interface solutions with the same fibre count

MTP[®] PRO Enhancements

- Field Polarity change
- Debris Reduction
- Field friendly gender configuration

Specification	
ELEMENT	CHARACTERISTIC
Fibre (ISO/IEC 60793)	OS2 = Yellow OM3 = Aqua OM4 = Heather Violet/Aqua
Cable (LSZH)	12F - 3mm Inner Jacket, 4.5mm OD 24F - 3mm Inner Jacket, 4.5mm OD
Housing (MTP [®] PRO)	OM3= Aqua, OM4 = Heather Violet/Aqua Single-mode = Green
Crush Resistance	1000N
Operation Temperature	-40 ~ +80°C

Industry Standards Compliance

- Colour coding compliant to TIA/EIA-568-C.3 & ISO/IEC11801
- Connector specification to IEC-61754-7 & EIA/TIA-604-5
- LSZH jacket materials to IEC 60332 Parts 1 & 3
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC
- The geometrical characteristics compliant to IEC-60793
- End Face Cleanliness compliant to IEC 61300-3-35

Application

- Data Centre Infrastructure
- Storage Area Network Fibre Channel
- Parallel Optics
- 40Gbps, 100Gbps and emerging 400Gbps Protocols

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Optical Fibre Specifications

Multimode Fibres

Multimode Fibres IEC 60793-2 ISO/IEC 11801 EN 50173 -1&2	Overall Bandwidth (MHz x km) 850nm 1300nm	Max. Link Length for 1 GBit/s (m) 850nm 1300nm (1000Base-SX) (1000Base-LX)		Max. Link Length for 10 GBit/s (m) 850nm 1300nm (10GBase-SR) (10GBase-LX4) (10GBase-SW)		Fibre Attenuation (dB/km) 850nm 1300nm	
50/125 um	> 1500 -> 500	1000	600	. ,		-07	-0.7
OM3	≥1500 ≥500	1000	600	300	300	<u>≤</u> 2.7	<u>≤</u> 0.7
OM4 Laser Optimised	≥3500 ≥500	1000	600	550	300	<u>≤</u> 2.7	<u>≤</u> 0.7

Single-mode Fibres

Single-mode Fibres IEC 60793-2 ISO/IEC 11801 EN 50173 -1&2 9/125 um	Chromatic Dispersion 1310nm 1550nm	Cut-off-Wave Length (cabled) (nm)	Point Discontinuity (dB)	_	ore Attenuat (dB/km) 1380-1386nr	_		Geometric roperties (um) Cladding	_
OS2(ITU-T G.652.D)	>3.5 >18.0	>1260	<0.1	<0.34	<0.31	<0.22	9.2 ±0.4	125 ±1	245 ±5
					_	_			
OS2 (G.657.A2)	<u>≥</u> 3.7 <u>≥</u> 18.5	<u>≥</u> 1260	<u><</u> 0.1	<u><</u> 0.38	<u><</u> 0.35	<u><</u> 0.25	8.8 ±0.4	125 ±1	245 ±5



Connectivity Methods

All the connectivity methods shown here have the same purpose: to ensure that the transmit port of one device is connected to the receive port on another device. Each method requires a specific combination for components to maintain the system polarity. These are outlined in the below table.

	Method	Connector Type	Adapter Type	Patch Cord Type
	A	MTP [®] PRO	Key Up - A - Key Down	One A-to-B and One A-to-A
	В	MTP [®] PRO	Key Up - B - Key Up	A-to-B
	С	MTP [®] PRO	Key Up - A - Key Down	A-to-B
А		В	А	
connect	or	connector	connector	connecto
connect	Or	connector	connector	connecto
В		А	В	

*Retro Polarity change from A-B or B-A is only applicable for MTP® multimode connector due to MTP® Single-mode connectors are Angle Polished

MTP[®] Pro Connector Performance

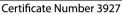
CONNECTOR MATING	INSERTION LOSS TYPICAL	INSERTION LOSS MAX	RETURN LOSS
MTP [®] PRO Multimode Elite	0.10dB	0.35dB	>30dB
MTP® PRO Single-mode Elite	0.10dB	0.35dB	>60dB

Certificates



Certified & Trained







MTP[®] is a Registered Trademark of US Conec

Kevlar[®] is a Registered Trademark of Dupont ™

Available Accessories







MTP® Testing Assemblies



MTP® Housing Removal Tool

MTP[®] Harness Assemblies

MTP[®] Containment Solutions

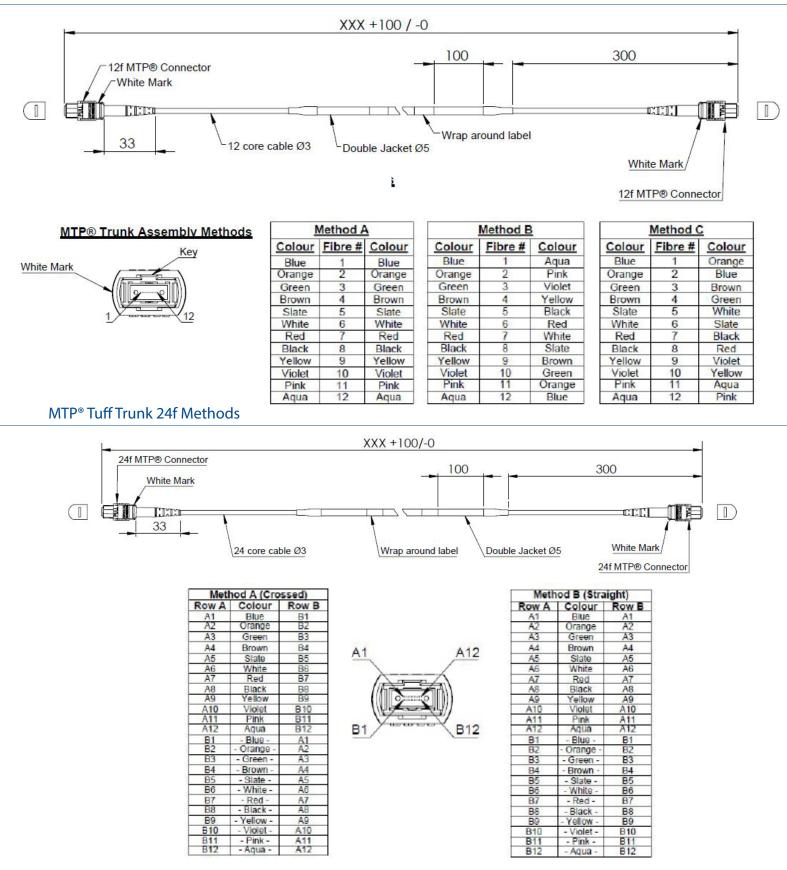
MTP® Cleaning Solutions

ons MTP® Testir

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MTP® Tuff Trunk 12f Methods



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