

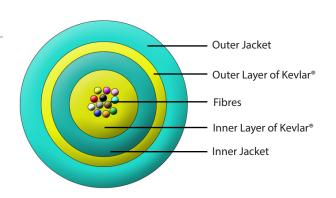
MTP® Tuff Trunk Assemblies

MTP® 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 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

CHARACTERISTIC
OS2 = Yellow OM3 = Aqua OM4 = Heather Violet
12F - 3mm Inner Jacket, 5mm OD 24F - 3mm Inner Jacket, 5mm OD
OM3= Aqua, OM4 = Heather Violet Single-mode = Green
1000N
-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



Optical Fibre Specifications

Multimode Fibres

Multimode Fibres IEC 60793-2 ISO/IEC 11801 EN 50173 -1&2	Overall Bandwidth (MHz x km) 850nm 1300nm	for 1	k Length GBit/s n) 1300nm (1000Base-LX)	for 10 (i ——— 850nm	k Length GBit/s m) 1300nm (10GBase-LX4)	(dl	attenuation 3/km) n 1300nm
50/125 um							
OM3	≥1500 ≥500	1000	600	300	300	≤2.7	≤0.7
OM4 Laser Optimised	≥3500 ≥500	1000	600	550	300	≤2.7	≤0.7

Single-mode Fibres

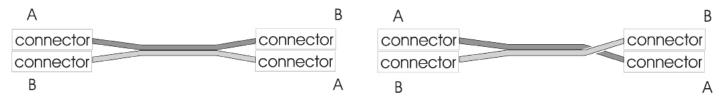
Single-mode Fibres IEC 60793-2 ISO/IEC 11801 EN 50173 -1&2	Chromatic Dispersion ————————————————————————————————————	Cut-off-Wave Length (cabled) (nm)	Point Discontinuity (dB)	Fibre Atte (dB/l 1310nm 1380-13	km)		e Geometri Properties (um) I Cladding	_
9/125 um								
OS2(ITU-T G.652.D)	<u>≥</u> 3.5 <u>≥</u> 18.0	<u>></u> 1260	<u><</u> 0.1	≤0.34 ≤0.3	31 <u><</u> 0.22	9.2 ±0.4	125 ±1	245 ±5
OS2 (G.657.A2)	>3.7 >18.5	>1260	<0.1	<0.38 <0.3	35 <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
А	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



^{*}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







Certificate Number 3927



MTP® is a Registered Trademark of US Conec

Kevlar[®] is a Registered Trademark of Dupont [™]

Available Accessories



MTP® Harness Assemblies



MTP® Containment Solutions



MTP® Cleaning Solutions



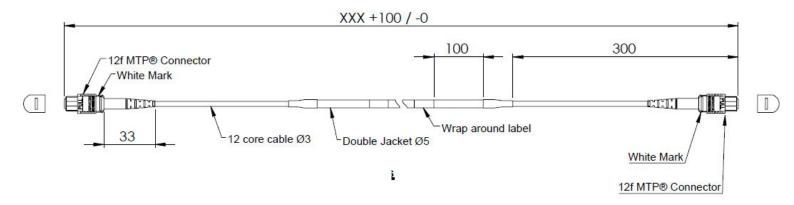
MTP® Testing Assemblies

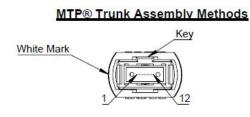


MTP® Housing Removal Tool



MTP® Tuff Trunk 12f Methods



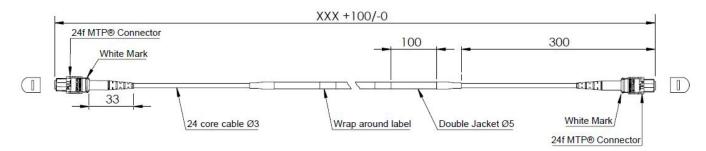


Method A				
Colour	Fibre #	Colour		
Blue	1	Blue		
Orange	2	Orange		
Green	3	Green		
Brown	4	Brown		
Slate	5	Slate		
White	6	White		
Red	7	Red		
Black	8	Black		
Yellow	9	Yellow		
Violet	10	Violet		
Pink	11	Pink		
Aqua	12	Aqua		

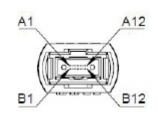
Method B				
Colour	Fibre #	Colour		
Blue	1	Aqua		
Orange	2	Pink		
Green	3	Violet		
Brown	4	Yellow		
Slate	5	Black		
White	6	Red		
Red	7	White		
Black	8	Slate		
Yellow	9	Brown		
Violet	10	Green		
Pink	11	Orange		
Aqua	12	Blue		

Method C				
Colour	Fibre #	Colour		
Blue	1	Orange		
Orange	2	Blue		
Green	3	Brown		
Brown	4	Green		
Slate	5	White		
White	6	Slate		
Red	7	Black		
Black	8	Red		
Yellow	9	Violet		
Violet	10	Yellow		
Pink	11	Aqua		
Aqua	12	Pink		

MTP® Tuff Trunk 24f Methods



Method A (Crossed)			
Row A	Colour	Row B	
A1	Blue	B1	
A2	Orange	B2	
A3	Green	B3	
A4	Brown	B4	
A5	Slate	B5	
A6	White	B6	
A7	Red	B7	
A8	Black	B8	
A9	Yellow	B9	
A10	Violet	B10	
A11	Pink	B11	
A12	Aqua	B12	
B1	- Blue -	A1	
B2	- Orange -	A2	
B3	- Green -	A3	
B4	- Brown -	A4	
B5	- Slate -	A5	
B6	- White -	A6	
B7	- Red -	A7	
B8	- Black -	AB	
B9	- Yellow -	A9	
B10	- Violet -	A10	
B11	- Pink -	A11	
B12	- Aqua -	A12	



Method B (Straight)				
Row A	Colour	Row B		
A1	Blue	A1 A2		
A2	Orange			
A3	Green	A3		
A4	Brown	A4		
A5	Slate	A5		
A6	White	A6		
A7	Red	A7		
A8	Black	A8		
A9	Yellow	A9		
A10	Violet	A10		
A11	Pink	A11		
A12	Aqua	A12		
B1	- Blue -	B1		
B2	- Orange -	B2		
B3	- Green -	B3		
B4	- Brown -	B4		
B5	- Slate -	B5		
B6	- White -	B6		
B7	- Red -	B7		
B8	- Black -	B8		
B9	- Yellow -	B9		
B10	- Violet -	B10		
B11	- Pink -	B11		
B12	- Aqua -	B12		