

MTP® MicroCable Trunk Assemblies

MTP® micro cable trunks designed and manufactured for high demand network applications. They feature standard or Elite MTP® connectors and a ruggedised micro cable structure. Due to their compact size and up to 144 fibre count they are an ideal solution for high density data centre infrastructure.

Applications

- Data Centres
- 40/100G applications
- Storage Area Network- Fibre Channel
- Parallel Optics
- InfiniBand

Features

- 12 or 24 fibre male or female MTP® connector
- Low loss performance
- Up to 144 fibres – ideal for high density applications
- Available in OS1/2 G.652D, G.657A1, OM3, OM4, OM5 Fibre Grades - OM1 and OM2 available upon request
- Option for LSZH, OFNP or OFNR cable Jacket
- Option for A, B or C polarity
- 100% factory terminated and tested
- Optional Pulling Element
- Saves installation and reconfiguration time

Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2 – G.652D, G.657A1, OM1, OM2, OM3, OM4, OM5
Tail Dimensions	3mm Tails
MTP® Terminations	MTP® 12 or 24 Fibre Ferrules US Conec, Boot Colour: Black, Body Sleeve Colour: MM (Beige), MM Elite (Aqua), OM5 (Lime Green), SM (Green), SM Elite (Yellow)
Cable Diameter	12 Core MicroCable Double Jacket OD Max 4.2 ± 0.3mm, 24 Core MicroCable Double Jacket Flat (4.2 ± 0.3 x 7.6 ± 0.4mm), 48 Core MicroCable Double Jacket OD Max 9.0 ± 0.3mm, 72 cores OD MAX: 11.2 ± 0.5mm, 96 cores OD MAX: 13.5 ± 0.5mm, 144 cores OD MAX: 17.5 ± 0.5mm
Crush Resistance	1000N/100mm
Cable Tensile Strength	Double Jacket Microcable (up to 12 Cores) (Short/Long) 150N/80N, Double Jacket Microcable Flat (up to 24 Cores) (Short/Long) 300N/160N, Double Jacket Microcable (up to 48 Cores) (Short/Long) 500N/180N, Double Jacket Microcable (up to 96 Cores) (Short/Long) 1000N/300N, Double Jacket Microcable (up to 144 Cores) (Short/Long) 1000N/300N
Cable Strength Member	FRP & Aramid Yarn
Storage Temperature	-20 ~ +70°C
Installation Temperature	0 ~ +50°C
Operating Temperature	-20 ~ +70°C
Tail Protection	No- Standard, High Crush Resistant Tubing when pulling element
Pulling Element	Rope attached to Aramid

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MTP® Elite (MM)	0.10dB	0.35dB	N/A
MTP® (MM)	0.20dB	0.60dB	N/A
MTP® Elite (SM)	0.10dB	0.35dB	>60dB
MTP® (SM)	0.25dB	0.75dB	>60dB

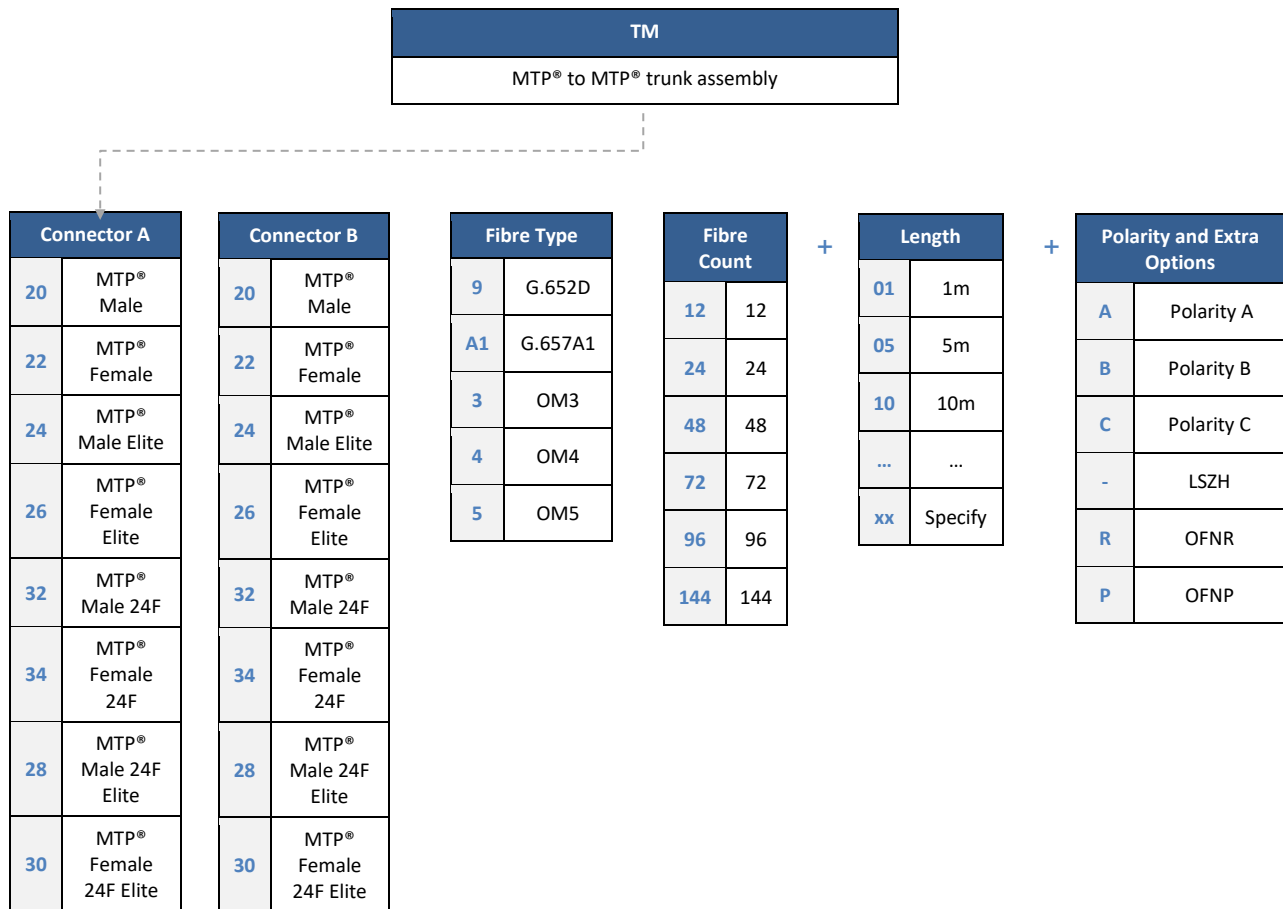
Cable Performance

Fibre Type (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4	OM5
Attenuation Coefficient (dB/km)	≤ 0.50 Max (1310nm) ≤ 0.40 Max (1550nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)
	≤ 0.36 Typ (1310nm) ≤ 0.22 Typ (1550nm)	≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)
Minimum Bandwidth: Overfilled Launch (Mhz-km)	N/A	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 1850 (953nm) ≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth (Mhz-km)	N/A	N/A	N/A	≥ 2000 (850nm)	≥ 4700 (850nm)	≥ 4700 (850nm) ≥ 2470 (953nm)

Standards Compliance

- TIA/EIA-568-C.3 and ISO/IEC 11801
- IEC-61754-7 & EIA/TIA-604-5
- NFPA 262 or IEC 60332
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC
- IEC-60793

Ordering Information

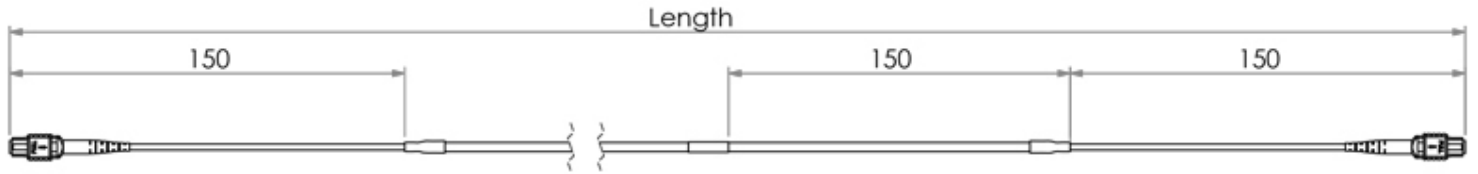


Example:

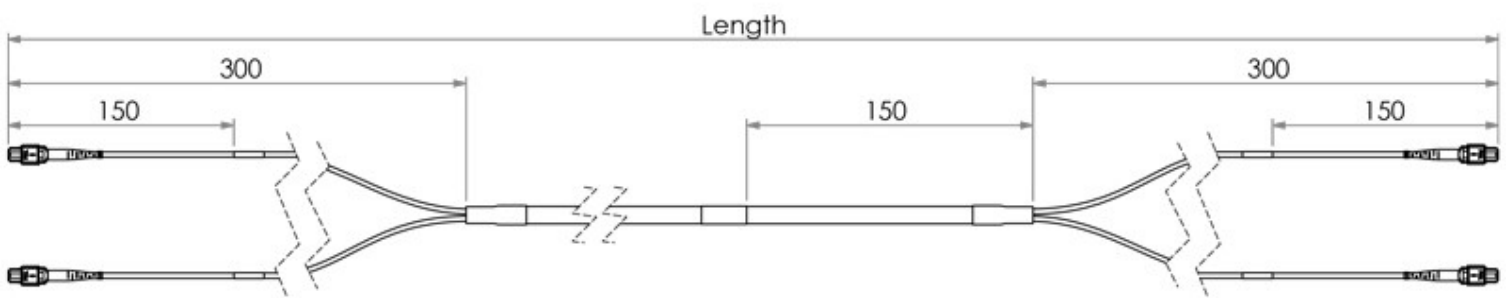
TM-2020312-70-A– MTP® male to MTP® male with 12 fibre ferrule trunk 4 OM3 70m polarity A

Technical Drawing

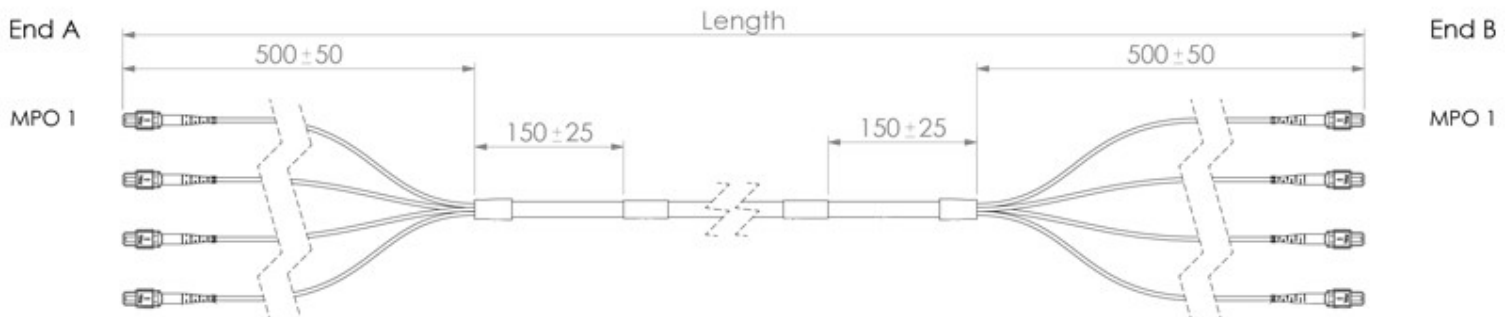
12 Fibre Trunk Double jacket 4.5mm OD



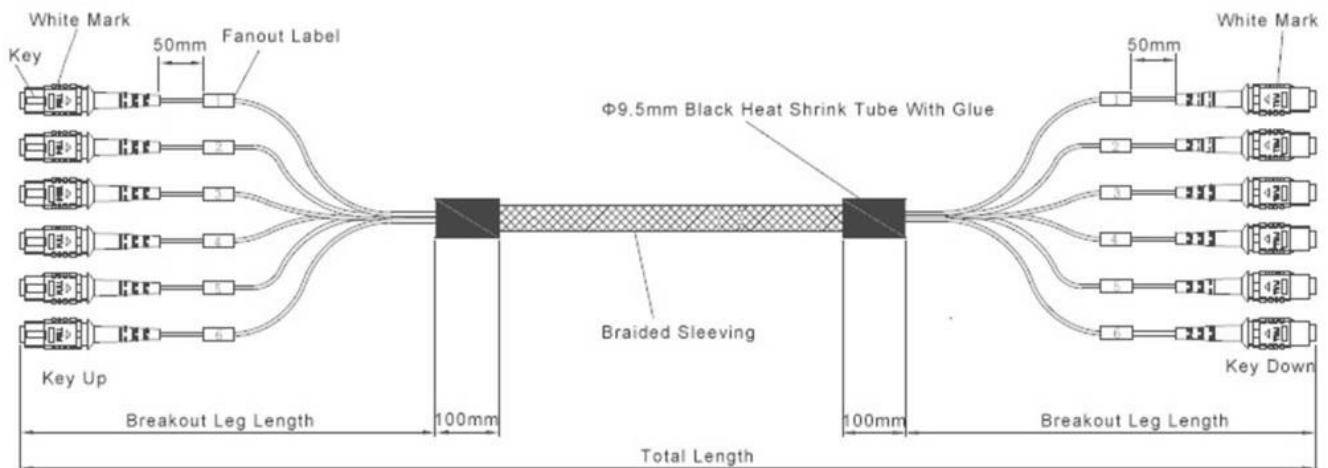
24 Fibre Trunk 2 x Sub Units Flat



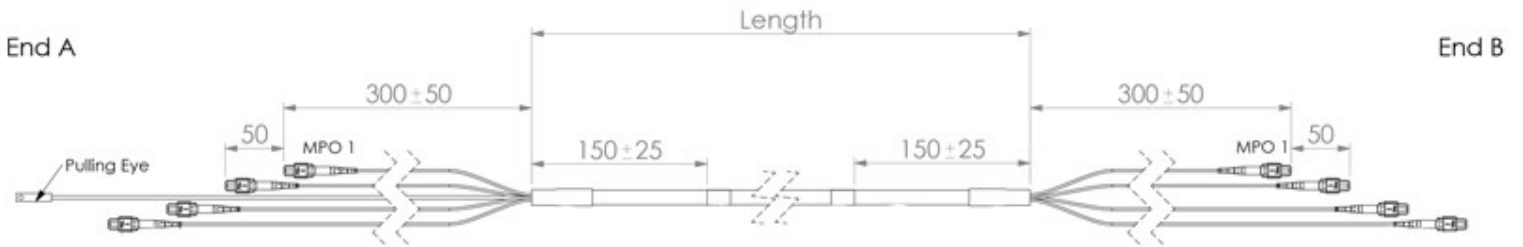
High Core Count Trunk Multi Subunits – Fanout



High Core Count 144F Trunk Multi Subunits – Fanout



High Core Count Trunk Multi Subunits – Stagger with Pulling System



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