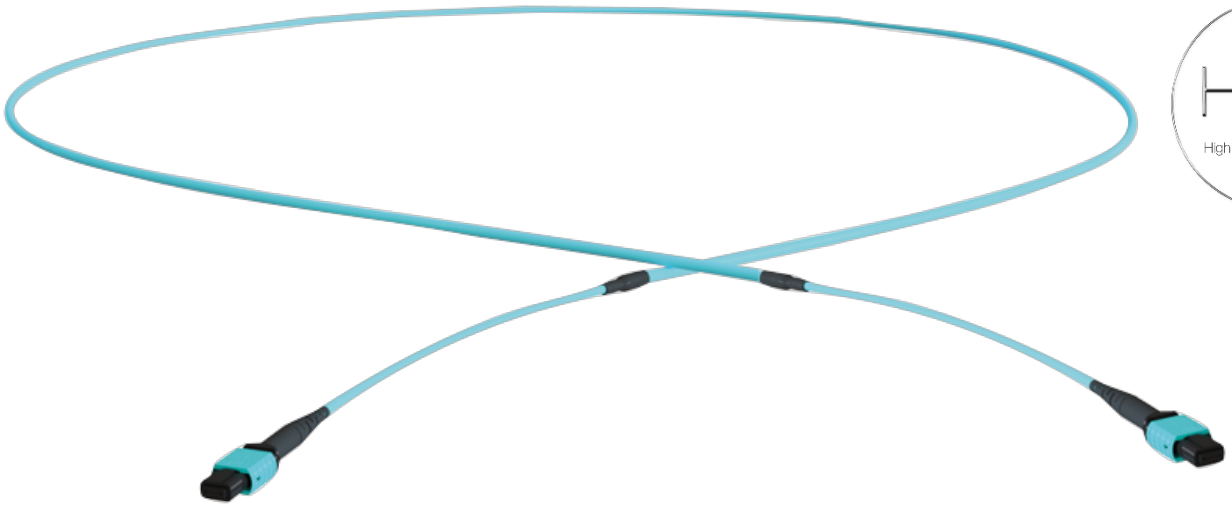


HDCi
High Density Converged Infrastructure

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 ruggedized 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.

Features

- 12 fibre male or female MTP® connector
- Low loss performance
- Up to 144 fibres – ideal for high density applications
- Available in OS1/2 G652D, G.657A1, OM3, OM4 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

Applications

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

Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2, G.657A1, OM1, OM2, OM3, OM4
Tail Dimensions	3mm Tails
MTP Terminations	MTP® 12 Fibre Ferrules US Conec, **Boot Colour**: Black, **Body Sleeve Colour**: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow)
Cable Diameter	12 Core MicroCable Double Jacket OD Max 4.5 ± 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
Crush Resistance	1000N/100mm
Cable Tensile Strength	Double Jacket Microcable (up to 12 Cores) (Short/Long) 400N/150N, Double Jacket Microcable Flat (up to 24 Cores) (Short/Long) 300N/160N, Double Jacket Microcable (up to 48 Cores) (Short/Long) 1000N/300N
Cable Strength Member	(12/24 Core) Aramid, (48 Core) FRP/Aramid
Storage Temperature	-20 ~ +60°C
Installation Temperature	-5 ~ +50°C
Operating Temperature	-20 ~ +60°C
Tail Protection	No- Standard, High Crush Resistant Tubing when pulling element
Pulling Element	12 Core Microcable - Rope attached to Aramid, 48 Core Multi Sub unit - Pulling Eye Bonded to FRP Rod

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

FIBRETYPE (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm) ≤ 0.25 Max (1300nm) ≤ 0.34 Typ (1550nm) ≤ 0.19 Typ (1550nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.9 Typ (850nm) ≤ 1.2 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 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)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	N/A	N/A	N/A	≥ 2000 (850nm)	≥ 4700 (850nm)

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

	Connector A		Connector B		Fibre Type		Fibre Count		Length		Polarity and Extra Options	
OTM	**20**	MTP® Male	**20**	MTP® Male	**9**	G.652.D	**12**	12	**01**	1m	**A**	Polarity A
	22	MTP® Female	**22**	MTP® Female	**3**	OM3	**24**	24	**05**	5m	**B**	Polarity B
	24	MTP® Male Elite	**24**	MTP® Male Elite	**4**	OM4	**48**	48	**10**	10m	**C**	Polarity C
	26	MTP® Female Elite	**26**	MTP® Female Elite	**A1**	G.657A1	**72**	72	**...**	...	**-**	LSZH
							96	96	**xx**	Specify	**R**	OFNR
							144	144			**P**	OFNP

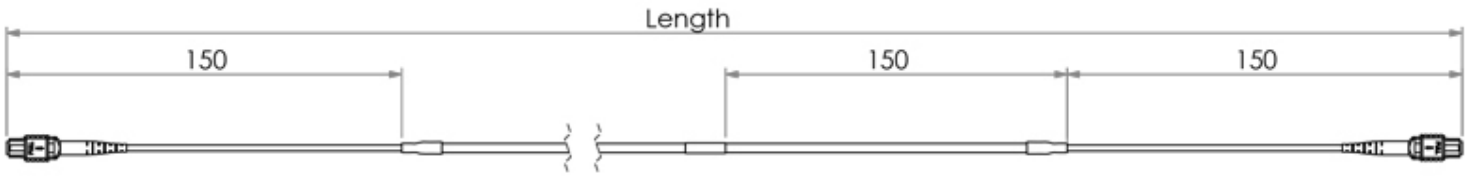
Example Part Number

OTM	-	20	20	3	12	-	70	-	A

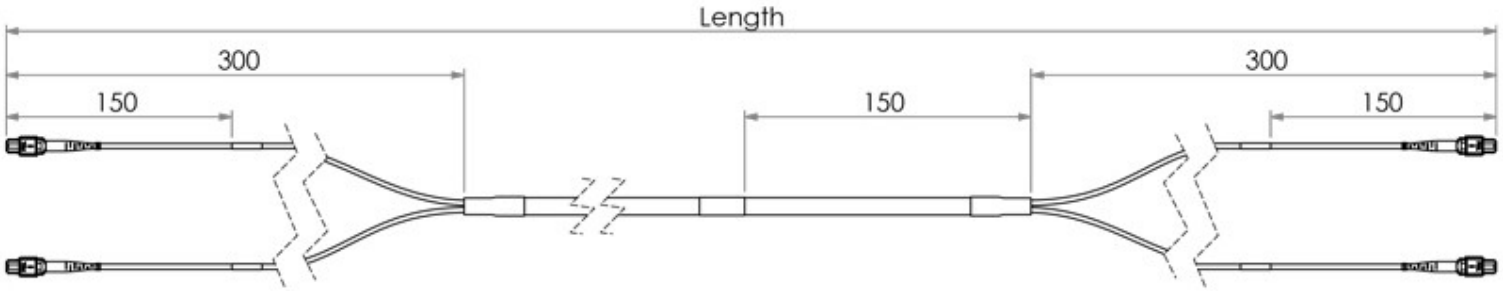
MTP® Male to MTP® Male with 12 fibre ferrule trunk 4 OM3 70m polarity A

Technical Drawing

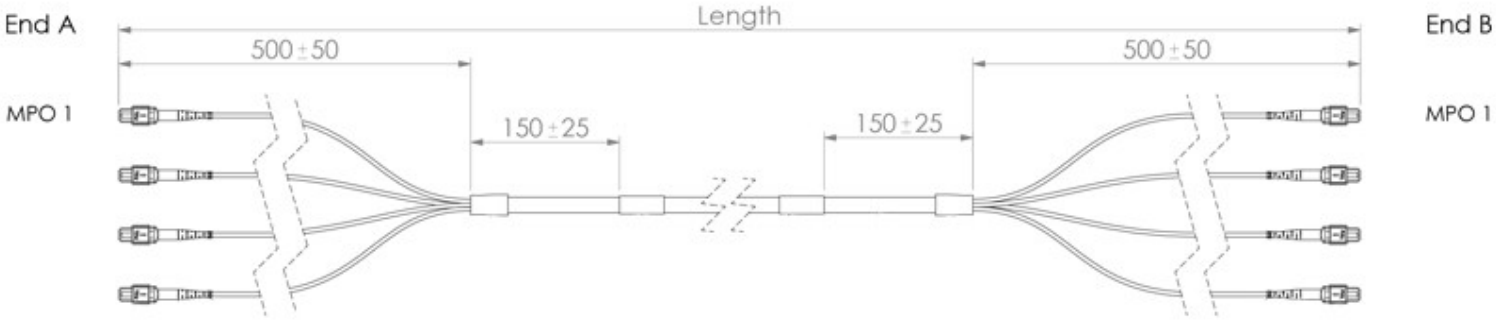
12 Fibre Trunk Double jacket 4.5mm OD



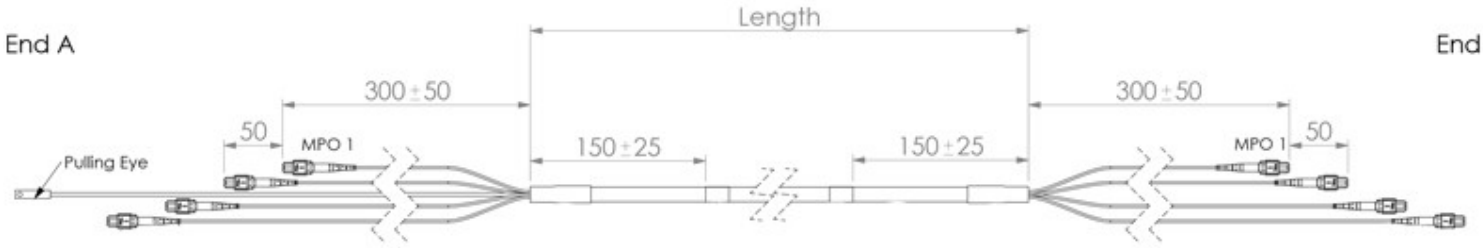
24 Fibre Trunk 2 x Sub Units Flat



High Core Count Trunk Multi Subunits – Fanout



High Core Count Trunk Multi Subunits – Stagger with Pulling System



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