

MTP® Trunk Cable Assemblies

V3.3

Description

FiberFab Inc MTP® multicore trunk assemblies aid in the rapid deployment of high density backbone cabling in data centers and fiber infrastructure environments. MTP® Trunk cables drastically reduce initial installation and ongoing maintenance costs with their efficient plug and play architecture. They are used to interconnect cassettes, panels or ruggedized MTP® fanouts, spanning MDA, HDA and EDA zones.

FiberFab Inc's MTP® trunk assemblies are available in a wide variety of fiber types and jackets in single 12, 24, 48, 72, 96 and 144 core constructions.

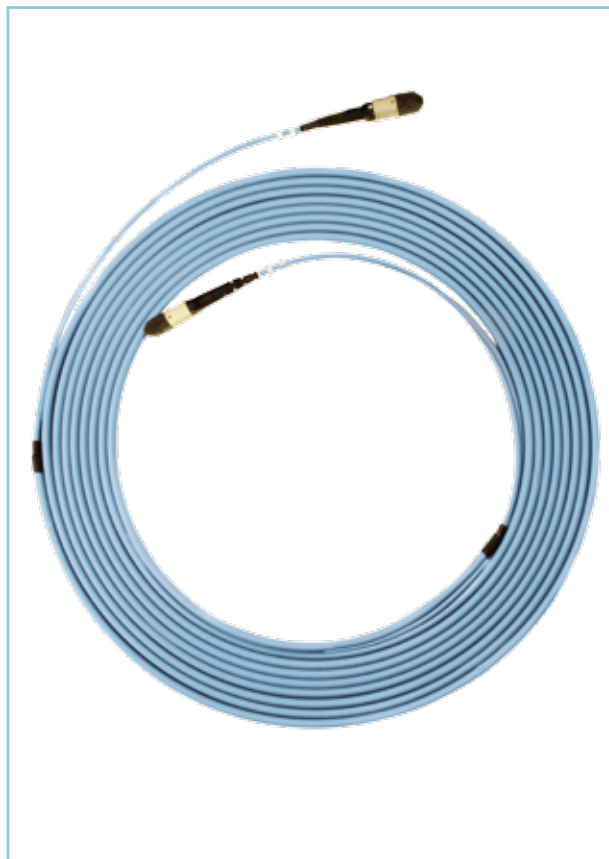
FiberFab Inc MTP® trunks are constructed using only the highest quality components. Standard MTP® as well low loss Elite versions are offered featuring low insertion loss for demanding high speed networks where power budgets are critical.

Features

- ▶ OS1/2, OM1, OM2, OM3, OM4 fiber grades
- ▶ 12, 24, 48, 72, 96 and 144 core single jacket constructions
- ▶ OFNR, OFNP and LSZH jacket types available
- ▶ Female (standard) and Male MTP® connectors
- ▶ Polarity Method A, B or C
- ▶ ISO 9002 factory controlled, terminated and tested

Benefits

- ▶ **MTP® Interface-** MTP® US Conec brand components feature superior optical and mechanical mating properties
- ▶ **Optimized Performance-** Assemblies constructed with low loss MTP® Elite discreet Premium connectors and OM4 fiber assure low insertion losses and power penalties in tight power budget, high speed network environments
- ▶ **High Density-** The Microcable construction drastically reduces the amount of space required in cable pathways
- ▶ **Rapid Deployment-** designed as a modular system, initial installation and future architectural changes saving time and overall cost
- ▶ **Reliability-** Strict ISO controlled manufacturing standards and extensive QC, combined with superior component performance guarantees a product of the highest standards



Applications

- ▶ High Density Architectures
- ▶ Storage Area Networking Fiber Channel
- ▶ Parallel Optics
- ▶ Infiniband
- ▶ Emerging 40Gb and 100GBE Protocols

Standards Compliance

- ▶ TIA/EIA-568-C.3 and ISO/IEC 11801
- ▶ IEC-61754-7 & EIA/TIA-604-5
- ▶ NFPA 262 (OFNP) or IEC 60332 (LSZH)
- ▶ IEC-61754-20 (LC) & IEC-61754-14 (SC)
- ▶ Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC
- ▶ IEC-60793
- ▶ OFNR, OFNP and LSZH available

Connector Performance

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

Cable Performance

FiberType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	≤ 0.34 Typ (1550nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 typ (1550nm)	≤ 1.2 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	≥ 200 (850nm)	≥ 500 (850nm)	≥ 1500 (850nm)	≥ 3500 (850nm)
	NA	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)
	NA	NA	NA	NA	NA

MTP is a registered trademark of US Conec Ltd



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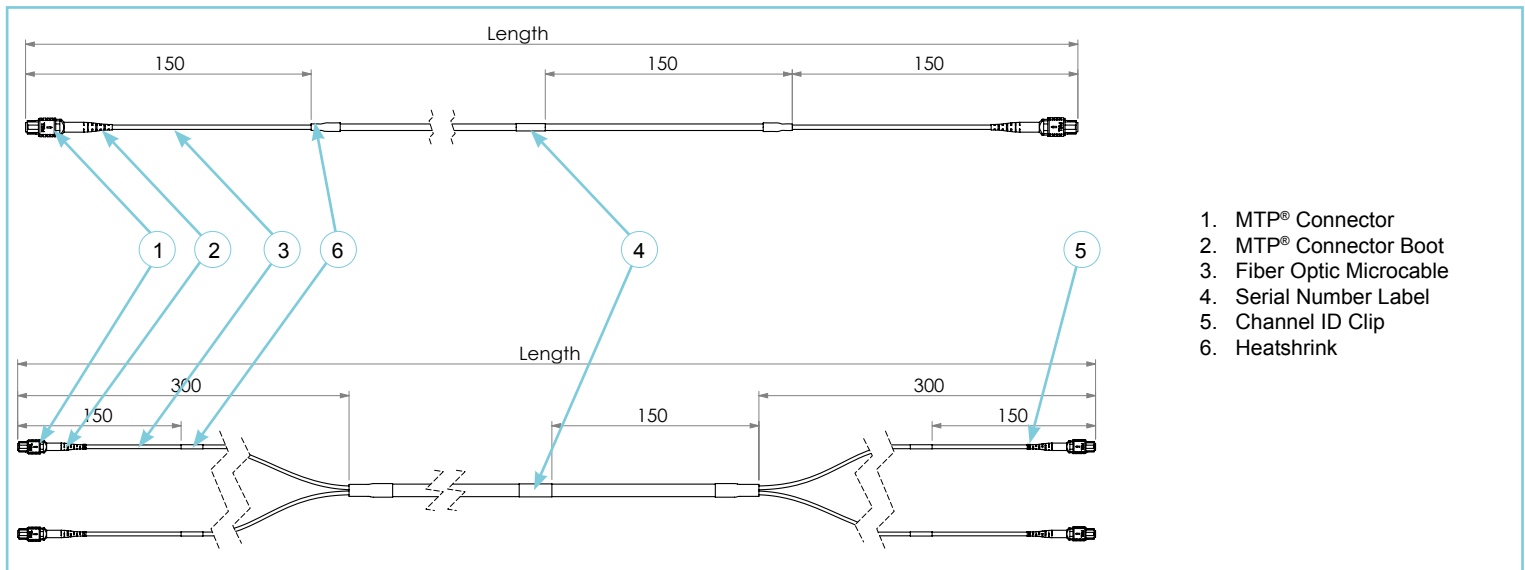
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Technical Specification

Element	Characteristic
Fiber	OS1/OS2, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
Cable	Microcable- 12, 24, 48, 72, 96, 144 cores (ISO/IEC 60794) MAX OD: Max OD 12 cores 4.5 ± 0.3mm / Max OD 24 cores 4.5 x 7.4 ± 0.3mm Jacket material: OFNR, OFNP (NFPA 262), LSZH (IEC 60332), Jacket color: Yellow (OS1/OS2), Orange (OM1, OM2), Aqua (OM3), Purple (OM3), Erika Violet (OM4)
Connectors	MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Color: Black / Body Sleeve Color: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow)
Packaging	12 Core >100m = Reel, 24 Core >50m = Reel, 48 Core >20m = Reel, 72+ Core = Reel Automatically
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C



1. MTP® Connector
2. MTP® Connector Boot
3. Fiber Optic Microcable
4. Serial Number Label
5. Channel ID Clip
6. Heatshrink

Part Number Generator

Connector END A		Gender A		Connector END B		Gender B		Fiber type		Fiber count	Cable length (m)	Polarity Method	Color		Jacket Type		
MTP® standard	MTP	Female	F	MTP® standard	MTP	Female	F	OS1/OS2	09	12	XX	A	Aqua	AQ	OFNR (standard)	RI	
MTP® Elite®	MTPE	Male	M	MTP® Elite®	MTPE	Male	M	OM1	62	24		B	Purple	PU	OFNP	PL	
								OM2	50	48		C	Orange	OR	LSZH	LS	
								OM3	OM3	72				Yellow	YE		
								OM4	OM4	96				Erika Violet	ER		
										144							

Example Part Number

MTPFMTPFOM31216AAQRI

This part number has created a 16 meter 12 core MTP® female to MTP® female OM3 polarity method A, jacket color aqua OFNR trunk assembly.