

MTP/MPO Trunk

MTP/MPO trunk multicore cable assemblies facilitate rapid deployment of high density backbone cabling in data centres and other high fibre environments reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedised MTP/MPO Fan Outs, spanning MDA, HDA and EDA zones.

MTP/MPO trunk assemblies are offered in most fibre types as standard 12 to 144 core versions using a compact and rugged microcable structure. The compact cables optimise cable-way use and improve airflow.

MTP/MPO trunks are built with highest quality components. Standard MTP/MPO 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, OM3, OM4 Fibre Grades (OM1 and OM2 available)
- 12, 24 and 48 Core Microcable Trunk
- LSZH, OFNP, OFNR Cable Jacket
- Female (standard) and Male MTP/MPO connectors
- Polarity A (standard), B or C
- Factory terminated and tested
- **MTP/MPO Interface** MTP/MPO components feature superior optical and mechanical properties
- **Optimised Performance** Low loss MTP/MPO Elite, discrete Premium connectors and OM4 fibre assures low insertion losses and power penalties in tight power budget high speed network environment
- **High Density** Multifibre connector and compact dimension of ruggedised Microcable ease space in costly data centre environments
- **Rapid Deployment** Factory terminated modular system saves installation and reconfiguration time during moves, adds and changes
- **Reliability - 100% tested** Combination of high quality components and manufacturing quality control guarantees product to the highest standard
- **Next Generation Network Proof** Emerging high speed protocol are going to use MTP/MPO interface- your cabling infrastructure remains unchanged

Applications

- Data Centre Infrastructure
- Storage Area Network- Fibre Channel
- Parallel Optics
- Infiniband
- Emerging 40 and 100Gbps Protocols

Specification

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
Cable	Microcable - 12, 24, 48 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: LSZH (IEC 60332), OFNP (NFPA 262) Jacket colour: Violet (OM3), Aqua (OM3, OM4), Yellow (OS1/OS2), Orange (OM1, OM2)
Connectors	MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Colour: Black Body Sleeve Colour: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow)
Packaging	Length < 50m- PE bag / Length > 50m- Drum
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C

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)

FIBRETYPE (ISO/IEC 11801)

	OS1/OS2	OM1	OM2	OM3	OM4
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 (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

Ordering Information

Connector End A		Gender A		Connector End B		Gender B		Fibre Type		Fibre Count		Cable Length		Polarity	Colour		Jacket type	
MTP	MTP® standard	F	Female	MTP	MTP® standard	F	Female	09	OS1/OS2	12	12	1	1 metre	A	AQ	Aqua	LS	LSZH standard
MTPE	MTP® Elite	M	Male	MTPE	MTP® Elite	M	Male	62	OM1	24	24	5	5 meter	B	Purple	PU	PL	OFNP
								50	OM2	48	48	10	10 meter	C	OR	Orange		
								OM3	OM3			xx	Specify					
								OM4	OM4									

Example Part Number

MTP	F	MTP	F	OM3	12	16	A	AQ	LS
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This part number has created a 16 metre 12 Core MTP female to MTP female OM3 polarity method A, Jacket colour Aqua LSZH trunk assembly.

Technical Drawing

