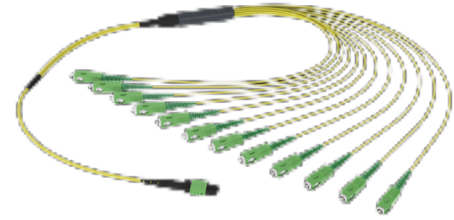


## MTP/MPO Fan Out

MTP/MPO Ruggedised Fan-Out Assemblies route multifibre MTP/MPO connection into discrete connectors. They are used to directly interconnect MTP/MPO cassettes, panels or backbone assemblies with the active equipment, saving costly data centre rack space and easing fibre management.

MTP/MPO Fan-Out Assemblies are offered in fibre types in standard 12, 24 or 48 core versions using a compact and rugged Micro Cable structure. The compact cables optimize cableway use and improve airflow.

MTP/MPO Fan-Outs 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 versions (OM1 and OM2 available)
- 12, 24 and 48 core Micro Cable trunk assemblies
- LSZH, OFNP cable jacket
- Female or male MTP/MPO connectors
- Factory terminated and tested
- **MTP/MPO interface** MTP/MPO components feature superior optical and mechanical properties.
- **Optimized 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** Ruggedised fan-out allows for direct connection between backbone and active equipment eliminating rack space usage.
- **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 standards.

### 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) <b>MAX OD:</b> Max OD 12 cores 4.5 ± 0.3mm / Max OD 24 cores 4.5 x 7.4 ± 0.3mm <b>Jacket Material:</b> LSZH, OFNP Jacket Color: Violet (OM3), Aqua (OM3, OM4), Yellow (OS1/OS2)
Connectors	MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) <b>Boot Color:</b> Black <b>Body Sleeve Color:</b> MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow), LC or SC (IEC 61754-20) <b>Boot Color:</b> White <b>Housing Color:</b> Beige (MM), Blue (SM), Green (SM/APC)
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
LC, SC (MM)	0.15dB	0.30dB	N/A
LC, SC Premium (MM)	0.08dB	0.15dB	N/A
MTP Elite (SM)	0.10dB	0.35dB	>60dB
MTP (SM)	0.25dB	0.75dB	>60dB
LC, SC (SM)	0.18dB	0.25dB	>55/65dB*
LC, SC Premium (SM)	0.12dB	0.30dB	>55/65dB*

\* UPC/APC

### Cable Performance

FIBRETYPE (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
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**FIBRETYPE (ISO/IEC 11801)**

**OS1/OS2**

**OM1**

**OM2**

**OM3**

**OM4**

	≤ 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)
Attenuation Coefficient [dB/km]					
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) & REACH SvHC
- IEC-60793

**Ordering Information**

Connector END A		Gender A		Fibre Count		Connector End B		Fibre Type			Cable Length (m)		Colour		Jacket Type	
MTP	MTP® Standard	F	Female	12	12	LC	LC	09	OS1/OS2	DF	1	1 metre	AQ	Aqua		LSZH
MTPE	MTP Elite®	M	Male	24	24	SC	SC	OM1	62		5	5 metre	PU	Purple	PL	OFNP
				48	48			OM2	50		10	10 metre	OR	Orange		
								OM3	OM3		xx	Specify				
								OM4	OM4							

**Example Part Number**

MTP	F	12	LC	OM3	DF	16	AQ	
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This part number has created a 16 metres 12 core MTP female to LC OM3, jacket colour Aqua LSZH ruggedized fan-out.

**Technical Drawing**

