

MPO/MTP® 24 Ferrule Trunk Cable Assemblies

24 Fibres Ferrule MPO/MTP® Cable Assemblies can be used in 100G parallel optics protocol networks. Assemblies can be used in traditional 10G as well as parallel 40G networks guaranteeing future proofing and full interoperability with next generation networks. MPO/MTP® assemblies are offered in 2 variations as the trunks using double jacket 4.5mm OD Micro Cable structure and as a MPO/MTP® patchleads using single jacket 3mm OD Micro Cable structure. MPO/MTP® interface facilitates rapid deployment of high density backbone cabling in data centers and other high fibre environments reducing network installation or reconfiguration time and cost.



Features

- OS1/2, OM3, OM4 fibre grades
- 24 Cores Micro Cable Trunks and Patchleads
- LSZH, OFNR cable jacket
- Female and Male MTP Connectors
- Polarity Selection
- Factory terminated and tested
- **Next Generation Network Proof** - Parallel optics compatible.
- **MPO/MTP® Interface** - MPO/MTP® components feature superior optical and mechanical properties.
- **Optimised Performance** - low loss MPO/MTP® 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 standards.

Applications

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

Specification

ELEMENT	CHARACTERISTIC
Cable	Micro Cable: 24 cores (ISO/IEC 60794) MPO/MTP® Trunk: MAX OD: (24 cores) 4.5 ± 0.3mm MPO/MTP® Patch Cord: Max OD (24 cores) 3.0± 0.3mm Jacket material: LSZH (IEC 60332), OFNP (NFPA 262) Jacket colour: Aqua (OM3, OM4), Erica Violet (OM4), Yellow (OS1/OS2)
Connectors	MPO/MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Colour: Black / Body Sleeve Colour: MM (Aqua), MM Elite (Aqua), SM (Green)
Packaging	Length< 100m- PE bag / Length> 100m- Drum
Operating Temperature	-10 ~ +60°C
Installation Temperature	-40 ~ +70°C

Connector Performance

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

Cable Performance

FIBRE TYPE (ISO/IEC 11801)	OS1/OS2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1310nm) ≤ 0.25 Max (1550nm) ≤ 0.34 Typ (1310nm) ≤ 0.19 Typ (1550nm)	≤ 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	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	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-60793

Ordering Information

Connector End A		Gender A	Connector End B		Gender B	Fibre Type	Fibre Count / Cable Type	Cable Length	Polarity	Jacket Type	Jacket Type
M2	MPO/MTP	F Female	M2	MPO/MTP	F Female	09 *OS1/OS2	24 24 cores Trunk 4.5mm OD	1 1 metre	A Variant 1	- Yellow (SM)	- LSZH
M2E	MPO/MTP Elite®	M Male	M2E	MPO/MTP Elite®	M Male	OM3 OM3	24P 24 cores Patch 3.0mm OD	xx Specify	B Variant 2	- Aqua (OM3)	PL OFNP
						OM4 OM4			C Variant 3	- Aqua (OM4)	PLUL OFNP UL Listed
									EV	Erika Violet (OM4)	

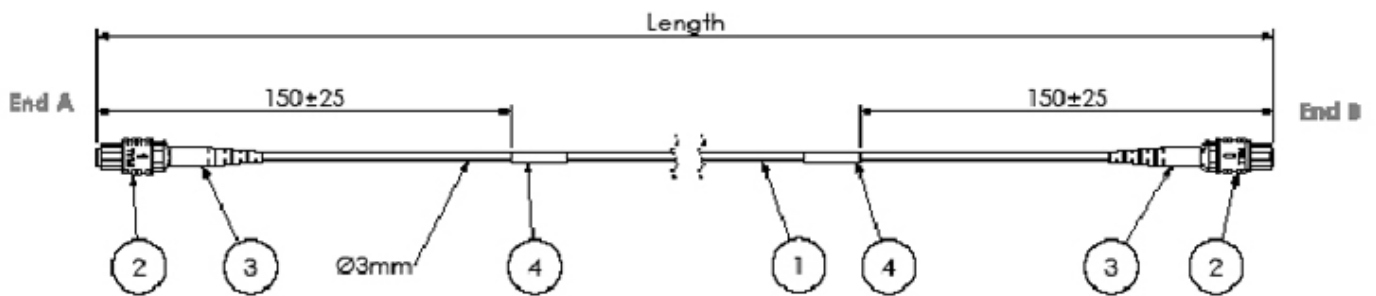
Example Part Number

M2E	F	M2E	F	OM4	24	30	A	-	-
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24 Cores Trunk MPO/MTP®(24F) Female-MPO/MTP®(24F) Female OM4 Aqua 4.5mm OD LSZH Variant I Polarity 30mtr. * MPO/MTP® ELITE SM 24 Fibres Ferrule termination is not available

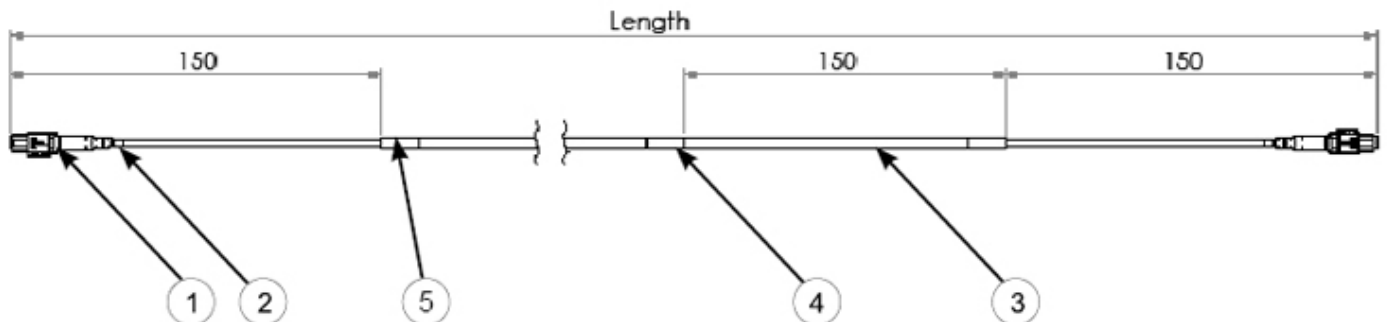
Technical Drawing

MPO/MTP® Patch Cord Assembly

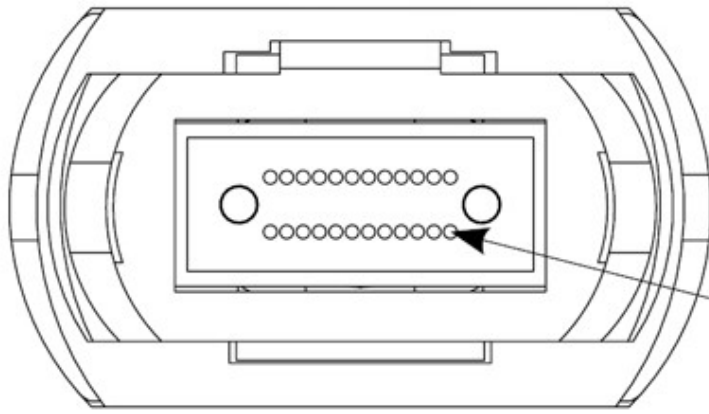


1. 24 fibre Micro Cable single jacket 3mm OD
2. 24 fibre ferrule MPO/MTP®
3. 3mm MPO/MTP® connector boot
4. Serial number label

MPO/MTP® Trunk Assembly



1. 24 fibre ferrule MPO/MTP®
2. MPO/MTP® connector boot
3. 24 fibre Micro Cable double jacket 4.5mm OD
4. Serial number label
5. Heatshrink



24 fibre
ferrule