



MTP®/MPO Nano Ruggedised Trunk Assemblies

Nano MTP®/MPO trunk ruggedised steel tape armoured assemblies featuring the small, compact size and low loss performance of nano cable and standard or high performance and low loss Elite MTP®/MPO connectors. These assemblies are an ideal solution for high density applications in main/horizontal/equipment distribution area of data centre infrastructure.

Features

- 12 fibre count
- Ruggedised steel tape armoured
- Low loss performance
- Available in OS1/2 G652D, G.657A1, G.657A2, OM3, OM4, OM5 Fibre Grades - OM1 and OM2 available upon request
- Option for LSZH or OFNP cable jacket
- Option for male or female MTP®/MPO connectors
- Option for A, B or C polarity
- 100% factory terminated and tested
- Compact size – ideal for high density applications
- 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.652D, G657A1, G.657A2, OM1, OM2, OM3, OM4, OM5 (ISO/IEC 60793)
Cable Type	Steel tape Armoured (cable outer diameter 3.0mm)
Fibre Count	12
Cable	Nanocable: 12 cores MAX OD: 3.0±0.15mm Colour: SM Blue; OM1/2 Multimode orange (or grey), OM3/4/5 Aqua
Stainless steel tube diameter	Φ1.8±0.1 mm
Tight-buffered fiber diameter	Φ0.25 mm
Cable weight	11.5 Kg/km approx..
Connectors	MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Colour: Black / Body Sleeve Colour: MM (Beige), MM Elite (Aqua), OM5 (Lime Green), SM (Green), SM Elite (Yellow)
Installation Temperature	-10 ~ +70°C
Operating Temperature	-40 ~ +80°C
Tensile	Short Term 500 Long Term 300
Bend Radius	Dynamic 70 Static 35
Crush	3500

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

Fibre Type (ISO/IEC 11801)	OS1/OS2	OM3	OM4	OM5
Attenuation Coefficient (dB/km)	≤ 0.50 Max (1310nm) ≤ 0.40 Max (1550nm) ≤ 0.36 Typ (1310nm) ≤ 0.22 Typ (1550nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)
Minimum Bandwidth: Overfilled Launch (Mhz-km)	N/A	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 1850 (953nm) ≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth (Mhz-km)	N/A	≥ 2000 (850nm)	≥ 4700 (850nm)	≥ 4700 (850nm) ≥ 2470 (953nm)

Standards Compliance

- TIA/EIA-568-C.3 and IEC 11801
- IEC-61754-7 & EIA/TIA-604-5
- NFPA 262 or IEC 60332
- IEC-61754-20 & IEC-61754-14
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC
- IEC-60793

Ordering Information

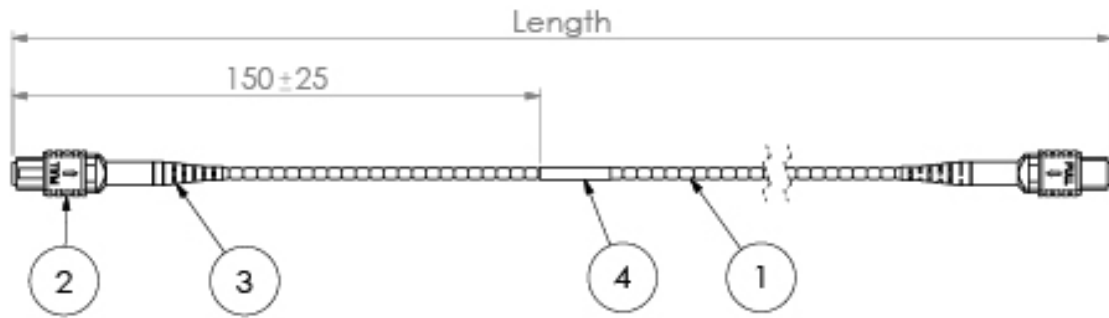
	Connector A		Connector B		Fibre Type		Cable Type		Fibre Count		Length		Extra Options	
OTM	20	MTP® Male	20	MTP® Male	9	G.652.D	N	Nano Cable ruggedised	12	12	01	1m	A	Polarity A
	22	MTP® Female	22	MTP® Female	A1	G.657A1					05	5m	B	Polarity B
	24	MTP® Male Elite	24	MTP® Male Elite	A2	G.657A2					10	10m	C	Polarity C
	26	MTP® Female Elite	26	MTP® Female Elite	1	OM1					-	LSZH
	21	MPO Male	21	MPO Male	2	OM2					xx	Specify	P	OFNP
	23	MPO Female	23	MPO Female	3	OM3								
	25	MPO Male Elite	25	MPO Male Elite	4	OM4								
	27	MPO Female Elite	27	MPO Female Elite	5	OM5								

Example Part Number

OTM	-	20	20	3	N	12	-	05	-	A
-----	---	----	----	---	---	----	---	----	---	---

MTP® Male to MTP® Male 12-Fibre OM3 Nano Ruggedised Trunk 5m LSZH Polarity A

Technical Drawing



No.	Description	Qty.
1	3mm 12 Fibre Nano Cable (See Sheet 2)	1
2	12 Fibre MTP Connector (See Sheet 2)	2
3	MTP 3mm Connector Boot (Black)	2
4	Serial Number Label (Wrap Around)	1

Spool Packaging



Paper Spool

MTP® is a registered trademark of US Conec Ltd