



## MTP® Nano Ruggedised Trunk Cable Assemblies

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

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### Features

- 12 or 24 fibre count
- Low loss performance
- Available in OS1/2, OM3, OM4 fibre grades
- Option for LSZH or OFNP cable jacket
- Option for male or female MTP® 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

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### Applications

- Data Centers
- 40/100G applications
- Storage Area Network - Fibre Channel
- Parallel Optics
- InfiniBand

## Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS <sub>1</sub> /OS <sub>2</sub> , OM <sub>3</sub> , OM <sub>4</sub> (ISO/IEC 60793)
Cable	Nanocable: 12, 24 cores MAX OD: 12 cores 3mm / 24 cores 5mm Material: PA <sub>12</sub> (LSZH) Colour: Black, Yellow, Aqua
Connectors	MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) <b>Boot Colour: Black / Body Sleeve Colour: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow)</b>
Installation Temperature	-10 ~ +70°C
Operating Temperature	-40 ~ +80°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)	OS <sub>1</sub> /OS <sub>2</sub>	OM <sub>1</sub>	OM <sub>2</sub>	OM <sub>3</sub>	OM <sub>4</sub>
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) ≤ 2.9 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)
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 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

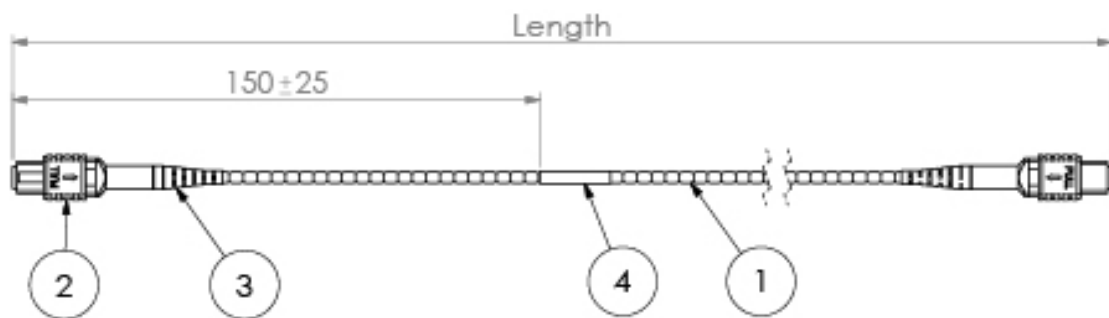
	Connector A		Connector B		Fibre Type		Cable Type		Fibre Count		Length		Extra Options	
OTM	20	MTP® Male	20	MTP® Male	3	OM3	N	Nano Cable ruggedised	12	12	01	1m	A	Polarity A
	22	MTP® Female	22	MTP® Female	4	OM4			24	24	05	5m	B	Polarity B
	24	MTP® Male Elite	24	MTP® Male Elite	A2	G.657A2					10	10m	C	Polarity C
	26	MTP® Female Elite	26	MTP® Female Elite							...	...	-	LSZH
	28	MTP® Male 24f Elite	28	MTP® Male 24f Elite							xx	Specify	P	OFNP
	30	MTP® Female 24f Elite	30	MTP® Female 24f Elite										
	32	MTP® Male 24f	32	MTP® Male 24f										
	34	MTP® Female 24f	34	MTP® Female 24f										

#### Example Part Number

OTM	-	20	20	3	N	12	-	05	-	A
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MTP® male to MTP® male with fibre nano cable ruggedised assembly LSZH 12 fibres 5m 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

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