

MTP®/MPO Ruggedised Pigtails

MTP®/MPO pigtails with ruggedised 3/5mm cable construction that allows long pigtail lengths enabling the splice management to be located outside the patch panels. They feature colour coded fibres for easy identification. They are compatible with parallel optics protocols.

Features

- Multifiber MTP®/MPO connector interface
 - Factory terminated and tested
 - MTP® interface reduces front panel adaptor space
 - Increased speed of installation
 - Ruggedised pigtails allow for splicing to be done remotely from adaptor patch panel
 - Next generation networks proof
 - OS1/2, OM1, OM2, OM3, OM4, OM5 fibre grades available
 - LSZH, OFNP, OFNR buffer
 - Fibres are colour coded as per IEC 60304 MTP®/MPO interface
 - Ruggedised 5/3mm Micro Cable pigtail construction with 250µm fibres in 3mm tube
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Applications

- Multi-fibre MTP®/MPO connector
 - Available in OS1/2, OM1, OM2, OM3, OM4, OM5 fibre grades
 - 100% Factory terminated and tested
 - MTP®/MPO interface reduces front panel adaptor space
 - Reduced installation time
 - Ruggedised cable construction with 250µm fibres
 - Next generation networks proof
 - Option for LSZH, OFNP, or OFNR buffer
 - Colour coded fibre per IEC 60304 MPO/MTP interface
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Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2, G.657A1, G.657A2, OM1, OM2, OM3, OM4, OM5 (IEC 60793)
MTP Termination	MTP® 12 Fibre Ferrules US Conec, Boot Colour: Black, Body Sleeve Colour: MM (Beige), MM Elite (Aqua), OM5 (Lime Green), SM (Green), SM Elite (Yellow)
Cable Diameter	12 Core Double Jacket MicroCable Max OD 12 Core 4.5 ± 0.2mm, 12 Core Single Jacket MicroCable Max OD 12 Core 3.0 ± 0.15mm
Cable Tensile Strength	Double Jacket MicroCable (12 Core) (Short/Long) 300N/160N, Single Jacket Micro Cable (12 Core) (Short/Long) 200N/60N
Cable Strength Member	Aramid
Storage Temperature	-20 ~ +70°C
Installation Temperature	0 ~ +50°C
Operating Temperature	-20 ~ +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

Fibre Type (ISO/IEC 11801)	OS1/OS2	OM1	OM2	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)	≤ 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	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 1850 (953nm) ≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth (Mhz-km)	N/A	N/A	N/A	≥ 2000 (850nm)	≥ 4700 (850nm)	≥ 4700 (850nm) ≥ 2470 (953nm)

Standards Compliance

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

Ordering Information

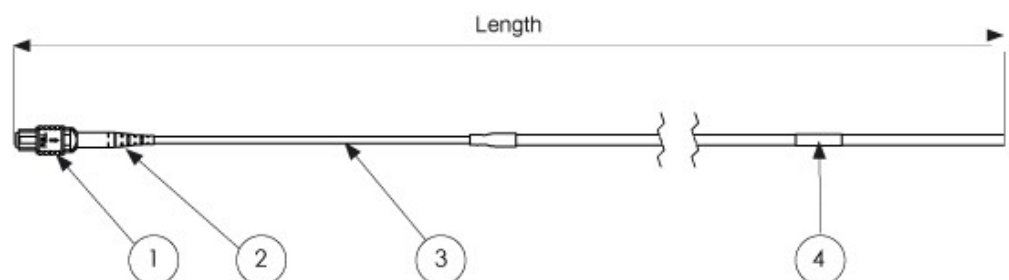
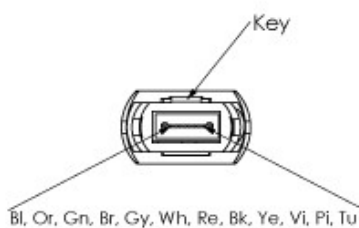
	Connector A		Fibre Type		Fibre Count		Length		Polarity and Extra Options	
	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
OPTM	20	MTP® Male	9	G.652D	12	12	01	1m	-	LSZH
	24	MTP® Male Elite	A1	G.657A1			05	5m	R	OFNR
	21	MPO Male	A2	G.657A2			10	10m	P	OFNP
	25	MPO Male Elite	1	OM1				
			2	OM2			xx	Specify		
			3	OM3						
			4	OM4						
			5	OM5						

Example Part Number

OPTM	-	20	3	12	-	05
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MTP® male ruggedised pigtail OM₃ LSZH 3m

Technical Drawing



1. MTP® Connector
2. MTP® Connector Boot
3. Fibre Optic Cable
4. Serial Number Label

MTP® is a registered trademark of US Conec Ltd.