

MTP® Loose Tube Trunk Assemblies

Up to 144 fibre loose tube optical cable assemblies designed and manufactured for high density applications that require MTP® interface. They are available in singlemode (G.652.D, G.657) or multimode (OM1, OM2, OM3, OM4) fibre grades while there is an option for LSZH, PE, OFNR or OFNP outer jacket.

Features

- Up to 144 fibres – ideal for high density applications
- Low loss performance
- Available in OS1/2, G.657A1, OM1, OM2, OM3, OM4 fibre grades
- Available with Multifiber MTP/MPO and standard optical connectors
- Suitable for internal/external applications using LSZH or PE cable jacket
- Option for OFNP or OFNR jacket types
- 100% factory terminated and tested
- Option for loose Tube, dry loose tube or Loose Tube Armoured cable
- Available as MTP® or MTP® to discrete connector fanout assembly
- Saves installation and reconfiguration time
- Compact Size

Applications

- Data Centers
- Telecommunication applications
- Internal and Backbone Applications

Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2, G.657A1, OM1, OM2, OM3, OM4 (IEC 60793)
Tail Dimensions	3mm Simplex Staggered Configuration (MPO/MTP)
MTP Connectors	MTP® 12 Fibre Ferrules US Conec, Boot Colour: Black, Body Sleeve Colour: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow)
Other Terminations	SC, LC, ST, FC, E2000
Cable Construction	Single Loose Tube (LT) 2-24 Cores (IEC 60794), Multi Loose Tube up to 48 Cores, Single Loose Tube STA Armoured up to 48 Cores, Multi Loose Tube STA Armoured up to 48 Cores, Jacket Material: LSZH, PE, OFNP, OFNR
Cable Diameter	Single LT (Up to 12 Cores) OD MAX: 6.5 ± 0.3 mm, Single LT (Up to 24 Cores) OD MAX: 6.7 ± 0.3 mm, Multi LT (Up to 48 Cores) OD MAX: 9.7 ± 0.3 mm
Crush Resistance	Single LT 1000N/100mm, Multi LT 3000N/100mm
Cable Tensile Strength	Single LT (Short/Long) 1000N/500N, Multi LT (Short/Long) 1500N/500N
Cable Strength Member	Single LT - E-Glass, Multi LT - FRP/E-Glass
Storage Temperature	-20 ~ +60°C
Installation Temperature	-20 ~ +60°C
Operating Temperature	-20 ~ +60°C
Tail Protection	Crush Resistance Tube - OD MAX 25mm (up to 4x3mm Tails)
Pulling Element	RPS Reusable Sock
Gland	PG 13.5 End A/B (up to 4x3mm Tails)
Packaging	Length \leq 100 - Heavy Duty PE bag / Length $>$ 100m - Drum (up to 24xFibres)

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

OPTICAL PERFORMANCE*	MM PREMIUM	MM STANDARD	SM PREMIUM	SM STANDARD	CONFORMANCE
IL Max/Master (Acceptance)	0.15dB	0.25dB	0.15dB	0.25dB	IEC 61300-3-4
Ave/Master	0.08dB	0.15dB	0.12dB	0.18dB	IEC 61300-3-4
Ave/Random	0.10dB	0.20dB	0.12dB	0.18dB	IEC 61300-3-34
RL (Min Acceptance)	NA	NA	55/65**	55/65**	IEC 61300-3-6

* Connector Performance table does not refer to E2A terminations ** UPC/APC

Cable Performance

FIBRETYPE (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1310nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1550nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
	≤ 0.34 Typ (1310nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 Typ (1550nm)	≤ 1.2 Typ (1300nm)	≤ 0.9 Typ (1300nm)	≤ 0.9 Typ (1300nm)	≤ 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
- ISO/IEC 60793 and ISO/IEC 60794
- ISO/IEC 61753, IEC 61754 and IEC 61755
- ISO/IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Ordering Information

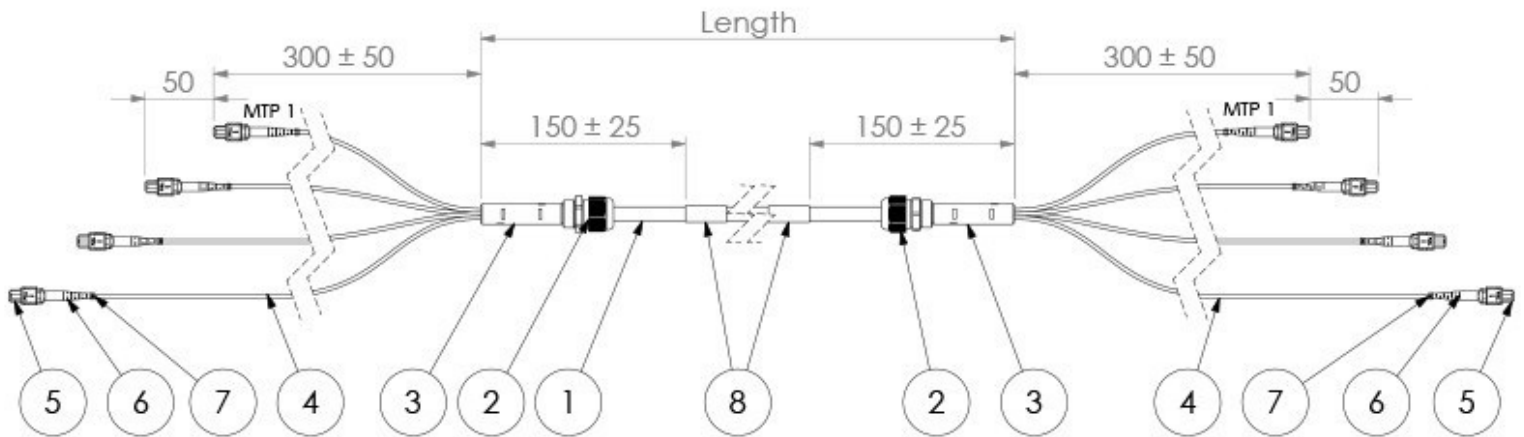
	Connector A		Connector B		Fibre Type		Cable Type		Fibre Count		Length		Extra Options		
	Part No	Connector	Part No	Connector	Count	Type	Part No	Description	Core	Clad	Part No	Length	Option	Description	
OP	20	MTP® Male	00	LC	9	G.652.D	LR	Loose Tube Cable	12	12	01	1m	-	LSZH	
	22	MTP® Female	01	LCA	1	OM1	SR	Loose Tube STA Cable	24	24	02	2m	R	OFNR	
	24	MTP® Male Elite	02	SC	2	OM2			48	48	03	3m	P	OFNP	
	26	MTP® Female Elite	03	SCA	3	OM3			72	72	05	5m	E	PE	
	28	MTP® Male 24f Elite	04	ST	4	OM4			96	96	10	10m	A	Polarity A (use it only with MTP®)	
	30	MTP® Female 24f Elite	05	FC	A1	G.657A1			144	144	B	Polarity B (use it only with MTP®)	
	32	MTP® Male 24f	06	FCA							xx	Specify	C	Polarity C (use it only with MTP®)	
	34	MTP® Female 24f	07	E2											
				08	E2A										
				20	MTP® Male										
				22	MTP® Female										
				24	MTP® Male Elite										
				26	MTP® Female Elite										
				28	MTP® Male 24f Elite										
				30	MTP® Female 24f Elite										
				32	MTP® Male 24f										
				34	MTP® Female 24f										

Example Part Number

OP	-	20	20	3	LR	12	-	70
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MTP® Male – MTP® Male 12 Core Pre-terminated Loose Tube Cable LSZH OM3 70m

Technical Drawing



No.	Description	Qty.
1	Loose Tube Cable	1
2	Compression Gland without Nut **	2
3	Breakout Module *	2
4	3mm Furcation Tubing (See Options)	-
5	MTP Connector	-
6	MTP Round Connector Boot (Black)	-
7	Tail Identification Marker (C-Clip)	-
8	Serial Number Label (Wrap Around)	2

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