

## 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.

### Applications

- Data Centres
- Telecommunication applications
- Internal and Backbone Applications

### 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

## 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, <b>Boot Colour:</b> Black, <b>Body Sleeve Colour:</b> 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 ± 0.3mm, Single LT (Up to 24 Cores) OD MAX: 6.7 ± 0.3mm, Multi LT (Up to 48 Cores) OD MAX: 9.7 ± 0.3mm
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 ≤ 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	IEC61300-3-34
RL (Min Acceptance)	NA	NA	55/65**	55/65**	IEC61300-3-6

\* 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]	$\leq 0.38$ Max (1310nm) $\leq 0.25$ Max (1550nm) $\leq 0.34$ Typ (1310nm) $\leq 0.19$ Typ (1550nm)	$\leq 3.5$ Max (850nm) $\leq 1.5$ Max (1300nm) $\leq 2.9$ Typ (850nm) $\leq 1.2$ Typ (1300nm)	$\leq 3.5$ Max (850nm) $\leq 1.5$ Max (1300nm) $\leq 2.7$ Typ (850nm) $\leq 0.9$ Typ (1300nm)	$\leq 3.5$ Max (850nm) $\leq 1.5$ Max (1300nm) $\leq 2.7$ Typ (850nm) $\leq 0.9$ Typ (1300nm)	$\leq 3.5$ Max (850nm) $\leq 1.5$ Max (1300nm) $\leq 2.7$ Typ (850nm) $\leq 0.9$ Typ (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	N/A	$\geq 200$ (850nm) $\geq 500$ (1300nm)	$\geq 500$ (850nm) $\geq 500$ (1300nm)	$\geq 1500$ (850nm) $\geq 500$ (1300nm)	$\geq 3500$ (850nm) $\geq 500$ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	N/A	N/A	N/A	$\geq 2000$ (850nm)	$\geq 4700$ (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

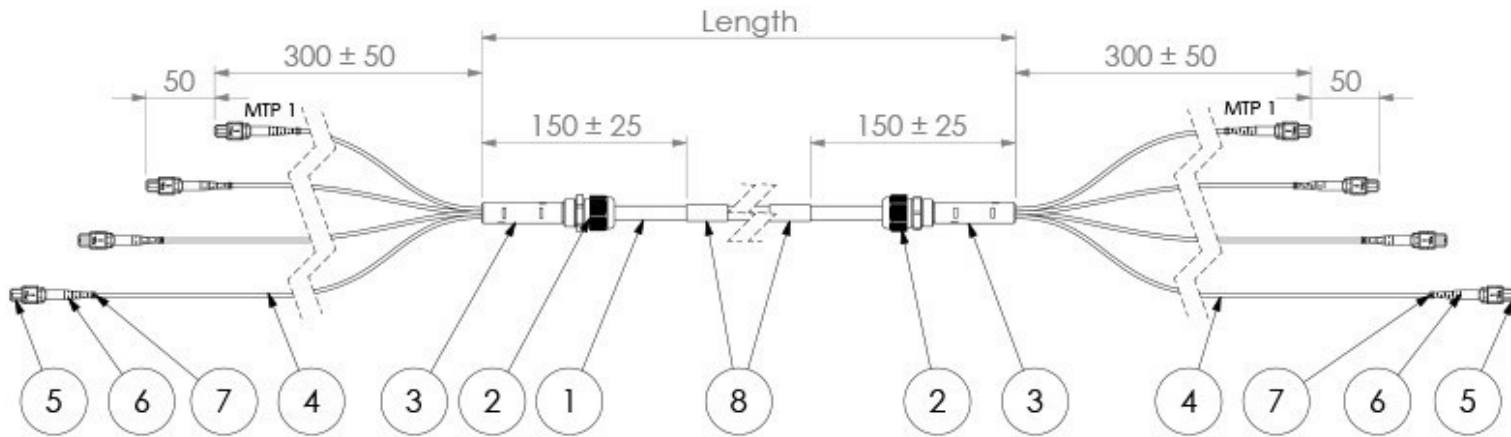
P
Fibre Pre-Terminated Cable

Connector A		Connector B		Fibre Type		Cable Type		Fibre Count		+	Length		+	Extra Options	
20	MTP® Male	00	LC	9	G.652D	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:

**P-20203LR12-70** – 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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