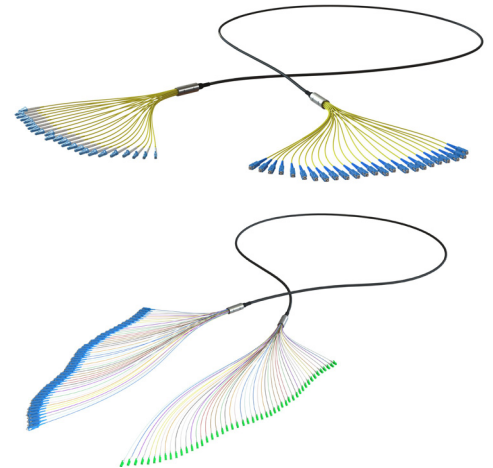


## Multifibre prime LT cable assemblies

- Available in OS1/2, G.657A1, OM1, OM2, OM3, OM4
- Up to 144 fibre core count
- Available with Multifibre MTP/MPO and discrete connectors
- 900µm or 2mm ruggedized tails
- Internal/External Application
- Factory terminated and tested
- Steel tape armoured version available



### Overview

Prime LT is a special design platform for loose tube multifibre optical cable assemblies. It utilizes a patented transition module and guarantees superior tensile strength and crushing resistance. The high density design can scale from 2 up to 144 fibres and can feature both 900µm and ruggedized 2mm tail leads. Assemblies can comprise both multifibre MTP and discrete connectors, offering a flexible hybrid solution for diverse applications.

#### Benefits

- Very High Density - Prime LT can scale up to 144 fibres for very high density data centre or Headend applications.
- Hybrid MTP and Discrete Connector Interface - Prime LT can be used as a high density multifibre MTP/MPO ruggedized trunk or ruggedized MTP/MPO to LC or SC fanouts.
- Tails selection - 2mm ruggedized tails can be used for a direct front panel or equipment connections whereas 900µm tails can be used for installation inside fibre management.
- Rapid deployment - factory terminated cabling saves installation and reconfiguration time eliminating field deployment variables.
- Optimised performance - low loss MTP/MPO, discrete premium connectors and OM4 fibre assure low insertion losses and power penalties in tight power budget, high speed network environments.
- Compact size - small dimension of breakout module and multifibre assemblies improves space efficiency.

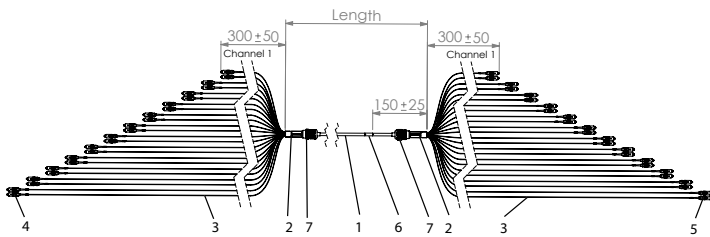
#### Applications

- Data centre infrastructure
- Headend, Access points or CATV hubs
- Internal and backbone application

#### Standard compliance

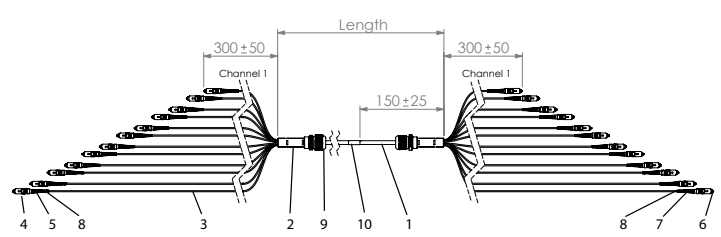
- TIA/EIA-568-C.3 and ISO/IEC 11801
- ISO/IEC 60793 and ISO/IEC 60794
- ISO/IEC 61753, IEC 61754 and IEC 61755
- ISO/IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

900µm Pre-Term



No.	Description	Qty.
1	Loose Tube Cable	1
2	Breakout Module	2
3	900µm Solid Coloured Oversleeve Tubing	-
4	900µm Connector Assembly End 1	-
5	900µm Connector Assembly End 2	-
6	Serial Number Label (Wrap around)	1
7	Gland	2

2mm Pre-Term



No.	Description	Qty.
1	Loose Tube Cable	1
2	Breakout Module	2
3	2mm Furcation Tubing	-
4	Connector End 1	-
5	Connector End 1 2mm Boot	-
6	Connector End 2	-
7	Connector End 2 2mm Boot	-
8	Channel Identification Marker (C-Clip)	-
9	Gland	2
10	Serial Number Label (Sheath)	1

## Specifications

<b>Fibre grade</b>	OS1/OS2, G.657A1, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
<b>Cable specification</b>	Loose Tube 2-48 cores (ISO/IEC 60794) OD MAX 24 cores 6.4 ± 0.3mm/ OD MAX 48 cores 9.7 ± 0.4mm/ OD max 24, 48 cores (Steel Tape Armoured) 10.9 ± 0.4mm Jacket material: LSZH, PE, OFNP, OFNR, Jacket Colour: Black
<b>Packaging</b>	Lengths ≤ 100- Heavy duty PE bag/ Length > 100m- Drum
<b>Operating temperature</b>	-20 ~ +60°C
<b>Storage temperature</b>	-40 ~ +70°C

## Cable performance

Fibre type (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
	≤ 0.38 Max (1310nm) ≤ 0.25 Max (1550nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1330nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)
Attenuation coefficient [db/km]	≤ 0.34 Typ (1310nm) ≤ 0.19 Typ (1550nm)	≤ 2.9 Typ (850nm) ≤ 1.2 (1300nm)	≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)	≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)	≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)
Minimum bandwidth: Overfilled launch [Mzh-km]	NA	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)
Minimum bandwidth: Laser effective modal bandwidth [Mzh-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)

## Connector performance

Connector mating	IL average	IL max	Return loss	Connector mating	IL average	IL max	Return loss
MTP/MPO Elite® (MM)	0.10dB	0.35dB	NA	MTP/MPO Elite® (SM)	0.10dB	0.35dB	>60dB
MTP/MPO (MM)	0.20dB	0.60dB	NA	MTP/MPO (MM)	0.25dB	0.75dB	>60dB
LC, SC, FC, ST (MM)	0.15dB	0.30dB	NA	LC, SC, FC, ST (SM)	0.18dB	0.30dB	>55/65dB (UPC/APC)
LC, SC, FC, ST Premium (MM)	0.08dB	0.15dB	NA	LC, SC, FC, ST Premium (SM)	0.12dB	0.15dB	>55/65dB (UPC/APC)

# Multifibre prime LT cable assemblies

## Ordering information

### Part number generator

PRE											
Fibre Count	Connector A (Pulling Eye)		Connector B (Apply If End A ≠ B)		Fibre Type		Cable Construction		Jacket Type		Length (m*)
2	LC	LC	LC	LC	OS1/OS2	9	Loose Tube (900um tails)	LT	LSZH	leave blank	XX
4	LC/APC	LCA	LC/APC	LCA	OM1	62	Loose Tube (2mm tails)	LTR	PE	PE	
6	SC	SC	SC	SC	OM2	50					
8	SC/APC	SCA	SC/APC	SCA	OM3	OM3					
12	ST	ST	ST	ST	OM4	OM4					
16	FC	FC	FC	FC	G.657A1	A1	LT Steel Tape Armoured (900um tails)	STA	OFNR	RI*	
24	FC/APC	FCA	FC/APC	FCA			LT Steel Tape Armoured (2mm tails)	STAR	OFNP	PL*	
48	E2000	E2	E2000	E2							
	E2000/APC	E2A	E2000/APC	E2A							
	MTP/MPO Male	Standard Elite®	MTPM MTPEM	MTP/MPO Male	Standard Elite®	MTPM MTPEM					
	MTP/MPO Female	Standard Elite®	MTPF MTPEF	MTP/MPO Female	Standard Elite®	MTPF MTPEF					

\*For Riser and Plenum length is measured in feet

© Copyright 2013 Technetix Group Limited. All rights reserved.

This document is for information only. Features and specifications are subject to change without notice. Technetix, the Technetix logo, Ingress Safe, Modem Safe and certain other marks and logos are trade marks or registered trade marks of Technetix Group Limited in the UK and certain other countries. Other brand and company names are trade marks of their respective owners. Technetix protects its technology and designs by registering patents, trade marks and designs in Europe and certain other countries.