



## Multifibre Tight Buffered Cable Assemblies

Tight buffered multi-fibre cable assemblies are designed and manufactured for short internal optical links. The 900um cable subunits are ideal for use within patch panels, optical distribution frames and wall boxes.

These assemblies are shipped with protective tube that assures the protection of the cable tails and a pulling element that provides high tensile strength, allowing safe and effective pulling action.

### Applications

- Data centres
- Telecommunication networks
- Internal horizontal and backbone cabling
- Installation inside patch panels, ODFs or wall boxes

### Features

- 2 to 24 core tight buffered cable
- Available with various types of optical connectors
- Factory terminated and tested
- Available with OM1, OM2, OM3, OM4 and OS1/OS2 fibres
- LSZH, OFNP, OFNR cable types
- Crush resistant protection tube
- High tensile strength pulling element
- Light and compact assembly
- User friendly link loss test certificate
- 900um tails for installation inside fibre management
- 100% factory terminated and tested

## Specifications

SPECIFICATION	VALUE
Fibre	OS1/OS2, G.657A1, OM1, OM2, OM3, OM4
Tail Dimensions	900µm Simplex Tails Staggered Configuration
Cable Construction	Tight buffer 4, 8, 12 and 24 cores (IEC 60974)
Terminations	SC, LC, FC, ST, E2000
Cable Diameter	4 Core Max OD 4.8 ± 0.3mm, 8 Core Max OD 5.8 ± 0.3mm, 12 Core Max OD 6.5 ± 0.3mm, 24 Core Max OD 8.9 ± 0.3mm
Crush Resistance	1000N / 100mm
Cable Tensile Strength	4 Core (Short/Long) 600N/300N, 8 Core (Short/Long) 750N/375N, 12 Core (Short/Long) 750N/375N, 24 Core (Short/Long) 900N/450N
Cable Strength Member	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 (24x900mm)
Pulling Element	Standard Assembly Length Above 20m
Packaging	Length ≤ 100 – Coil in heavy duty polymer bag, Length >100m - Drum

## Connector Performance

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 to E2A terminations.

\*\*UPC/APC

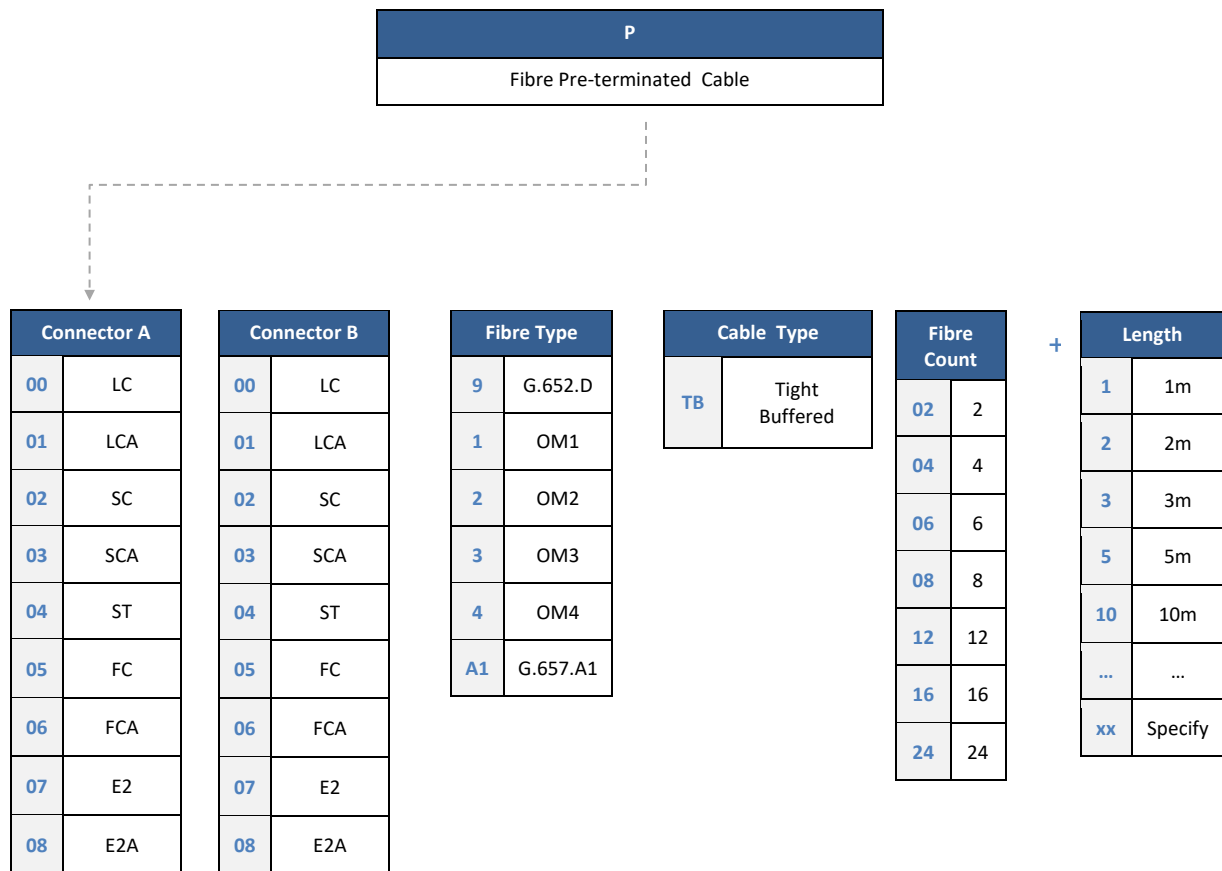
## Cable Performance

Fibre Type (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)
	N/A	N/A	N/A	≥ 2000 (850nm)	≥ 4700 (850nm)

## Standards 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

## Ordering Information



### Example:

**P-00003TB12-70** – LC/UPC – LC/UPC 12 Core Pre-terminated Tight Buffered Cable LSZH OM 3 70m

## Technical Drawing

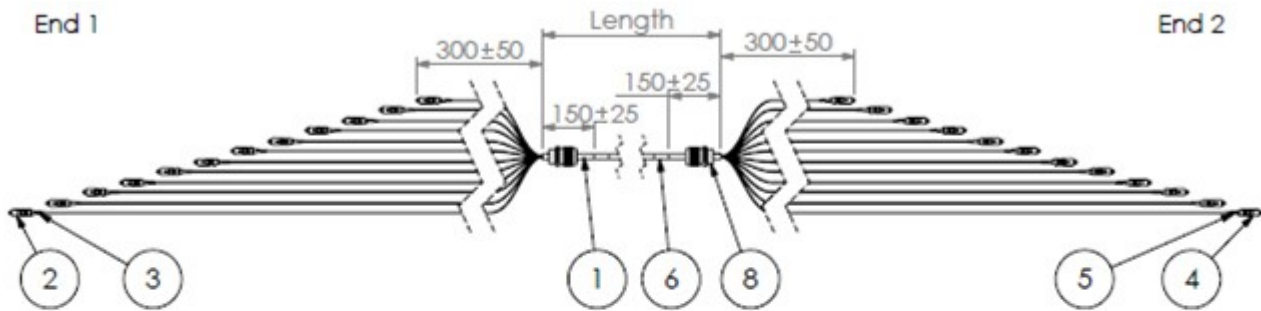


Diagram for illustration only. See Sheet 3 for tail cut lengths.

