

Multifibre Loose Tube Cable Assemblies

Description

FibreFab multicore loose tube cable assemblies feature improved mechanical and optical properties for use in external cabling environments. Assembly tails are protected by reinforced tubing. Cable strength members are attached directly to the pulling element, assuring safe and effective assembly installation. 900um fibre presentation is ideal for installation inside patch panels, ODFs or distribution boxes.

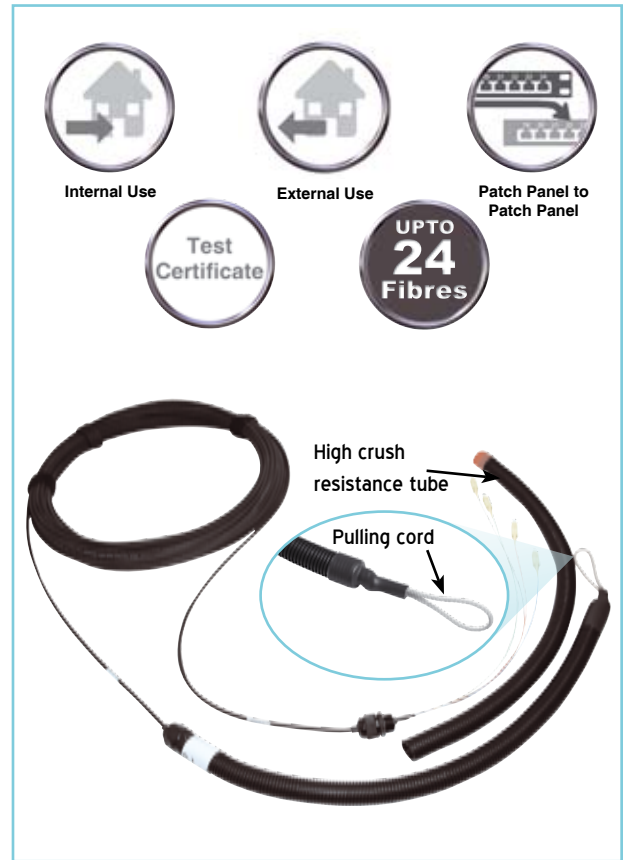
The factory terminated assemblies assure rapid network deployment, contributing to installation cost savings, reduced connector contamination and elimination of unforeseen field installation variables. FibreFab quality control guarantees optimised assembly performance and reliability.

Features

- ▶ Available in OM1, OM2, OM3, OM4 and OS1/OS2 fibre types
- ▶ 2 - 24 core tight buffer cable
- ▶ 900µm presentation tails
- ▶ Universal LSZH & external PE cable jacket
- ▶ Available with all standard connectivity
- ▶ Steel Tape Armoured (STA) version available
- ▶ Factory Terminated and Tested

Benefits

- ▶ **Rapid Easy Deployment-** factory terminated cabling saves installation and reconfiguration time eliminating field termination/splicing variables
- ▶ **High Performance and Reliability-** 100% tested- combination of high quality components and FibreFab manufacturing quality control guarantees product to the highest standards
- ▶ **Cost Savings-** Installation time involving costly highly qualified workforce is reduced to the minimum



Application

- ▶ Universal Internal/External Optical Links
- ▶ Long Backbone Interconnections

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

Connector Performance

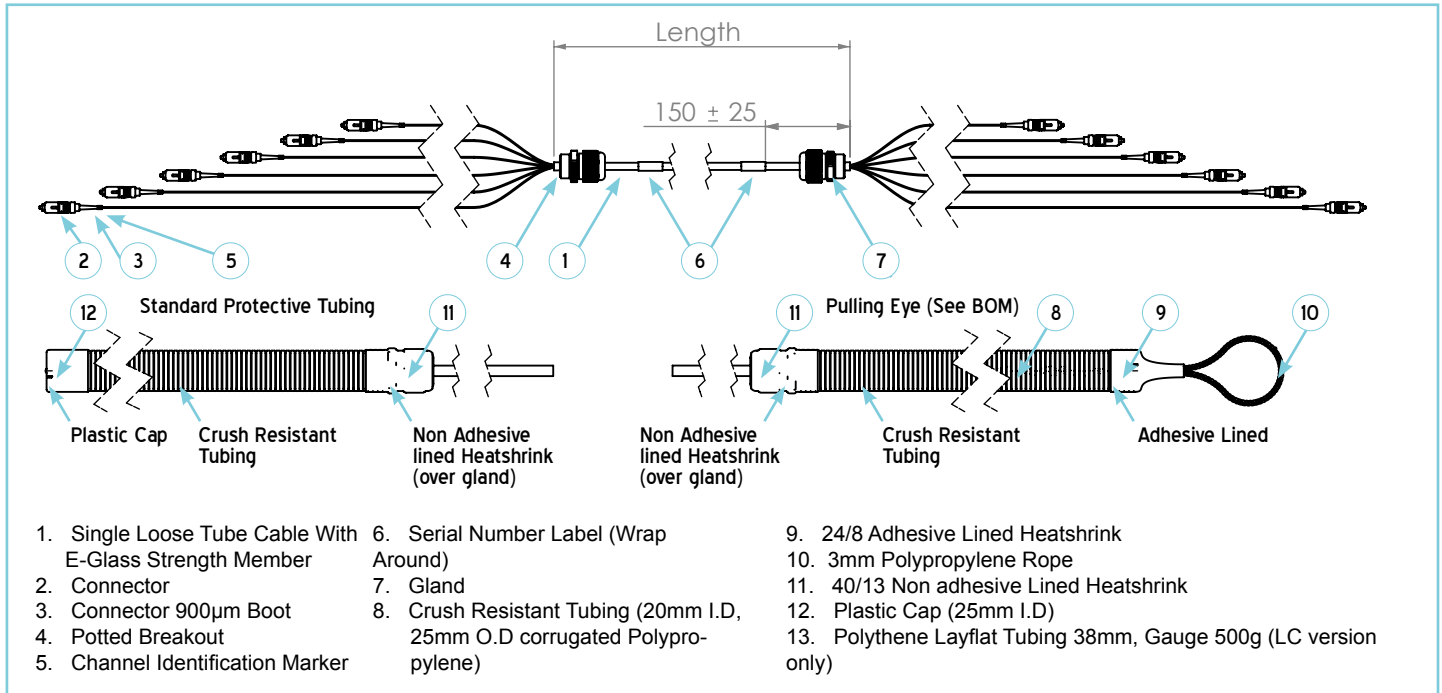
| CONNECTOR MATING | IL Average Standard | IL MAX Standard | IL Average Premium | IL MAX Premium | RETURN LOSS |
|------------------|---------------------|-----------------|--------------------|----------------|-------------|
| MM | 0.15 dB | 0.30 dB | 0.08 dB | 0.15 dB | NA |
| SM | 0.18dB | 0.25dB | 0.12dB | 0.15dB | >55/65dB |

Cable Performance

| FibreType (ISO/IEC 11801) | OS1/OS2 | OM1 | OM2 | OM3 | OM4 |
|---|---------------------|--------------------|--------------------|--------------------|--------------------|
| Attenuation Coefficient [dB/km] | ≤ 0.38 Max (1300nm) | ≤ 3.5 Max (850nm) | ≤ 3.5 Max (850nm) | ≤ 3.5 Max (850nm) | ≤ 3.5 Max (850nm) |
| | ≤ 0.25 Max (1300nm) | ≤ 1.5 Max (1300nm) | ≤ 1.5 Max (1300nm) | ≤ 1.5 Max (1300nm) | ≤ 1.5 Max (1300nm) |
| Minimum Bandwidth: Overfilled Launch [Mhz-km] | ≤ 0.34 Typ (1550nm) | ≤ 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: Laser Effective Modal Bandwidth [Mhz-km] | NA | ≥ 200 (850nm) | ≥ 500 (850nm) | ≥ 1500 (850nm) | ≥ 3500 (850nm) |
| | NA | ≥ 500 (1300nm) | ≥ 500 (1300nm) | ≥ 500 (1300nm) | ≥ 500 (1300nm) |
| Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km] | NA | NA | NA | ≥ 2000 (850nm) | ≥ 4700 (850nm) |
| | NA | NA | NA | ≥ 2000 (850nm) | ≥ 4700 (850nm) |

Multifibre Loose Tube Cable Assemblies

V.3.2



Cable Performance

| FIBRETYPE (ISO/IEC 11801) | OS1/OS2 | OM1 | OM2 | OM3 | OM4 |
|---|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Attenuation Coefficient [dB/km] | ≤0.38 Max (1300nm) ≤0.25 Max (1300nm) | ≤3.5 Max (850nm) ≤1.5 Max (1300nm) | ≤3.5 Max (850nm) ≤1.5 Max (1300nm) | ≤3.5 Max (850nm) ≤1.5 Max (1300nm) | ≤3.5 Max (850nm) ≤1.5 Max (1300nm) |
| Minimum Bandwidth: Overfilled Launch [Mhz-km] | NA | ≥ 200 (850nm) ≥ 500 (1300nm) | ≥ 500 (850nm) ≥ 500 (1300nm) | ≥ 1500 (850nm) ≥ 500 (1300nm) | ≥ 3500 (850nm) ≥ 500 (1300nm) |
| Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km] | NA | NA | NA | ≥ 2000 (850nm) | ≥ 4700(850nm) |

Technical Specification

| ELEMENT | CHARACTERISTIC |
|-----------------------|---|
| Fibre | OS1/OS2, OM1, OM2*, OM3, OM4 (ISO/IEC 60793) |
| Cable | Loose Tube 2- 24 cores (ISO/IEC 60794) OD MAX 24 cores 6.7 ± 0.3mm OD MAX 24 cores (Steel Tape Armored) 9.2 ± 0.3mm Jacket material: LSZH, PE, OFNP* Jacket Colour: Black Strength member: E-Glass |
| Connectors | IEC 61753, IEC 61754, IEC 61755 |
| Packaging | Length <100mtr: HD PE Bag Length >100mtr: Drum |
| Operating Temperature | -25 ~ +70°C IEC 61300-2-22 |
| Storage Temperature | -25 ~ +70°C IEC 61300-2-22 |

Part Number Generator

| PRE | Fibre Count | Connector End A | Connector End B* | Fibre Type | Cable Construction | Cable Length (Mtr) |
|-----|-------------|--------------------------|--------------------------|------------|-------------------------------------|--------------------|
| | 2 | LC LC FC FC | LC LC FC FC | OS1/OS2 09 | Loose Tube LT | XX |
| | 4 | LC/APC LCA FC/APC FCA | LC/APC LCA FC/APC FCA | OM1 62 | Loose Tube Steel Tape Armored STA | |
| | 6 | SC SC E2000 E2 | SC SC E2000 E2 | OM2 50 | Loose Tube PE LTPE | |
| | 8 | SC/APC SCA E2000/APC E2A | SC/APC SCA E2000/APC E2A | OM3 OM3 | Loose Tube Steel Tape Armored STAPE | |
| | 12 | ST ST | ST ST | OM4 OM4 | | |
| | 16 | | | | | |
| | 24 | | | | | |

* If end B differ from end A

Example Part Number: **PRE12SCOM3LT50**

This part number has created 12 cores OM3 SC to SC loose tube multifibre cable assembly.