

Multifibre FirstLight LT Loose Tube Assemblies

Optronics Multifibre FirstLight Loose Tube 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. 900µm 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. Optronics quality control guarantees optimised assembly performance and reliability.

Features

- > Available in OM1, OM2, OM3, OM4 and OS1/OS2 fibre types
- > 2 - 24 core loose tube 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 Optronics 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

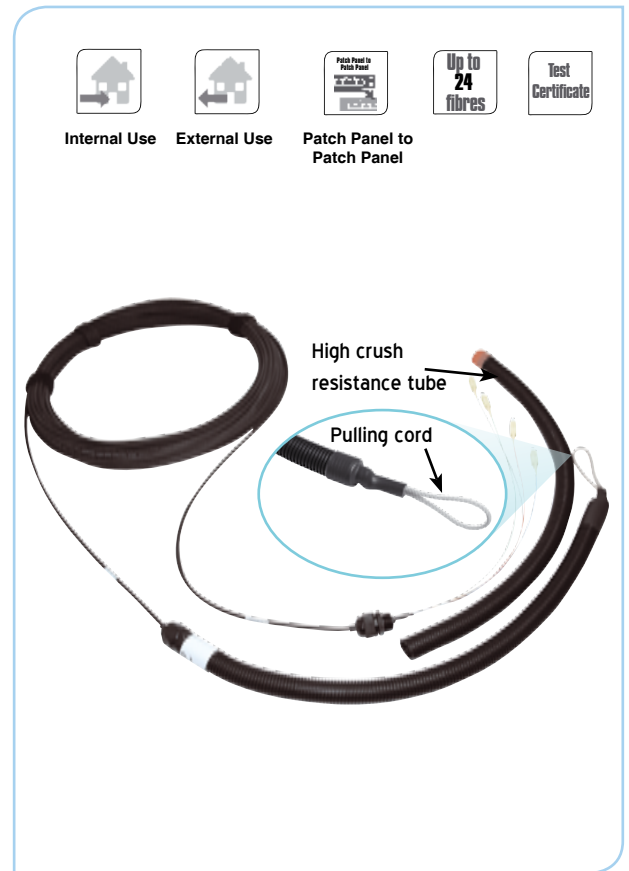
- > TIA/EIA-568-C.3 and ISO/IEC 11801
- > ISO/IEC 60793 and ISO/IEC 60794
- > ISO/IEC 61753, IEC 61754 and IEC 61755
- > ISO/IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- > Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

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	0.30dB	0.12dB	0.15dB	>55/65dB

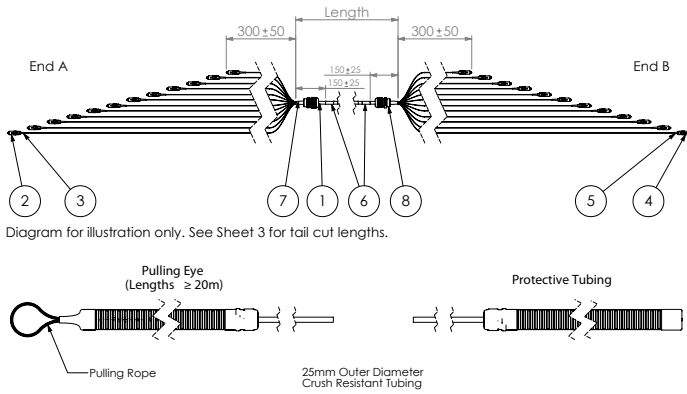
Cable Performance

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm) ≤ 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)
	≤ 0.34 Typ (1550nm) ≤ 0.19 typ (1550nm)	≤ 2.9 Typ (850nm) ≤ 1.2 typ (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 [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)

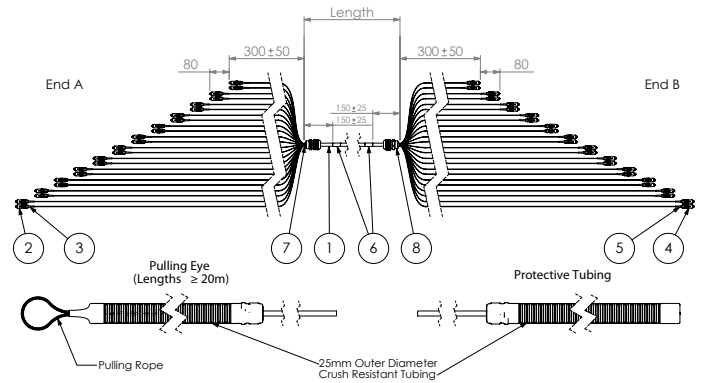


Technical Drawing

Core count ≤ 12 cores



Core count > 12 cores



- | | |
|----------------------------------|---------------------------------|
| 1 Loose Tube Cable (4 - 24 core) | 5 Connector 900 µm Boot - End B |
| 2 Connector - End A | 6 Serial Number Label |
| 3 Connector 900 µm Boot - End A | 7 Split Retainer |
| 4 Connector - End B | 8 Gland |

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 coil Length >100mtr: Drum
Operating Temperature	-20 ~ +60°C
Storage Temperature	-40 ~ +70°C

Part Number Generator

PRE	Fibre Count	Connector End A	Connector End B*	Fibre Type	Cable Construction	Cable Length (Mtr)	/Z
	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 Armoured 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 Armoured STAPE		
	12	ST ST	ST ST	OM4 OM4			
	16						
	24						

* If end B differ from end A

Example Part Number: **PRE12SCOM3LT50/Z**

This part number has created 12 cores OM3 SC to SC Multifibre FirstLight Classix Loose Tube Assembly.