

Multifibre Loose Tube Cable Assemblies

Optronics 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. Optronics 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 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

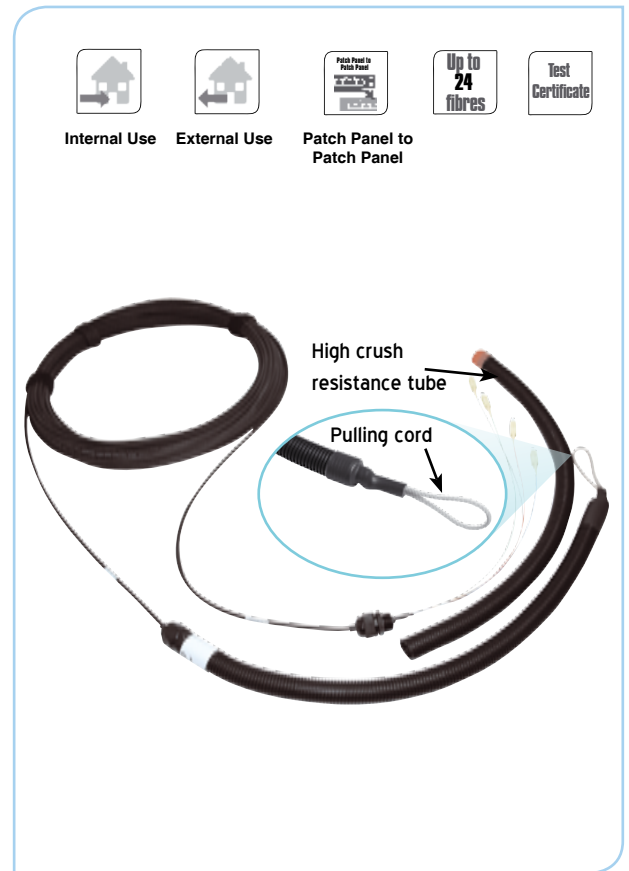
- > TIA/EIA-568-C.3 and ISO/IEC 11801
- > ISO/IEC 60793 and ISO/IEC 60794
- > ISO/IEC 61753, IEC 61754 and IEC 61755
- > ISO/IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- > Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

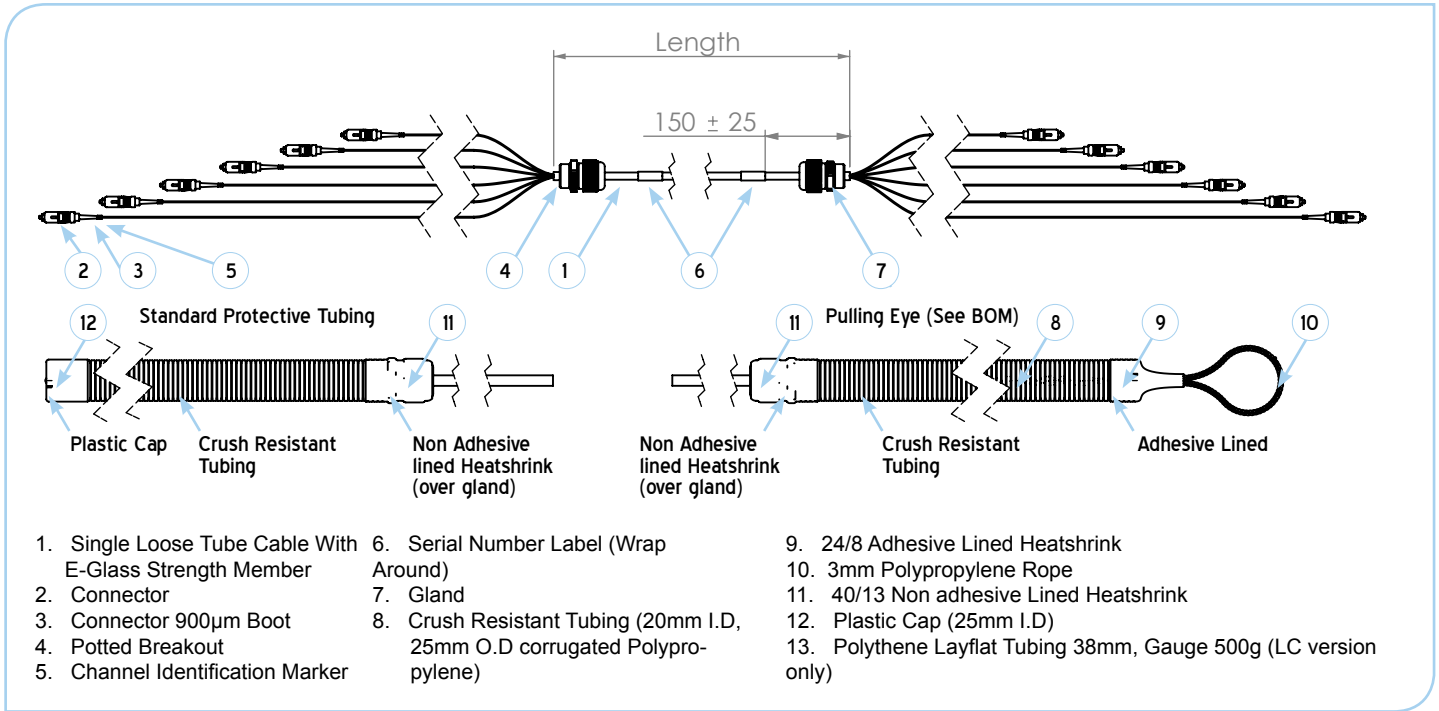
Connector Performance

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	0.25dB	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) ≤ 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)





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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						/Z							
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	O9	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/Z**

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