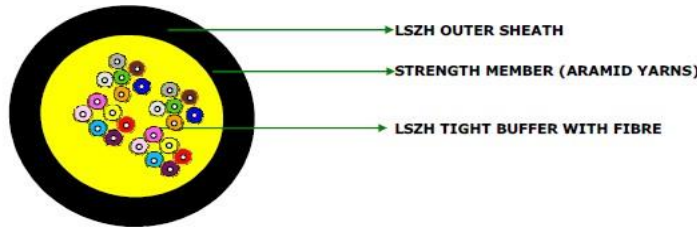


**Product Name** : XXF Tight Buffer LSZH Sheath Distribution Optical Fibre Cable  
**Product Code** : 00/XX-F-D-XX-1-TB/RR  
**Revision** : 1.0 **Date** : 29-Nov-2021

**Product Details**

Sterlite Tech™ Tight Buffer Riser Cables are an integral part of the end-to-end fibre optic solution, designed to support enhanced data needs along with future advancing network requirements. These cables are intended for riser application in multi storey buildings. Tight buffered fibres are reinforced with aramid yarns and sheathed with Low Smoke Zero Halogen (LSZH). This cable is suitable for both indoor / outdoor application with standard commercial type connectors

**Construction Diagram**



\* Typical Construction Diagram - Not to Scale

**Features & Benefits**

Available up to 24 fibre count in either Single Mode or Multimode Optical Fibres • Tight buffered fibres supports fast field installations • Reduce installation time and costs. • Easy jacket removal using standard tools. • Flexible and Fire retardant outer sheath with aramid yarns as tensile elements helps in easy installation in space constrained areas • LSZH sheath makes cable suitable for higher fire safety requirement • Small cable diameter & lightweight • Requires no grounding or bonding due to all-dielectric construction

**Specifications**

Physical Characteristics	
Fibre Count	4-24
Fibre Type	MM - OM4 (50/125)
Maximum Cabled Attenuation (dB/km)	850nm : ≤ 3.5 & 1300nm : ≤ 1.5
Tight Buffer Fibre	Uncoloured fibre 250 (Nominal) μm
Tight Buffer Material	Flame retardant LSZH Tight Buffer
Tight Buffer Size (mm)	0.85 +/- 0.05 mm
Strength Members	Aramid Yarns distributed over & around Tight Buffer for strength
Sheathing Material	Flame retardant LSZH

Cable Characteristics					
Fibre Count	Sheath Colour	Tight Buffer Colour	Cable Diameter	Weight of Cable	Cable Length in one Reel
			(mm)	(kg/km)	Meters
4	Black	Blue, Orange, Green, Brown.	5.8 ± 0.5	35 ± 10%	2000 ± 5%
6		Blue, Orange, Green, Brown, Slate, White	6.2 ± 0.5	38 ± 10%	2000 ± 5%
12		Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua.	7.2 ± 0.5	48 ± 10%	2000 ± 5%
24		Blue, Orange, Green, Brown, Slate, White, Red, Magenta, Yellow, Violet, Pink, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Magenta*, Yellow*, Violet*, Pink*, Aqua*.	8.8 ± 0.5	72 ± 10%	2000 ± 5%

Note: "\*" Black colour intermediate ring marking over Tight Buffer.

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	1000
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	500
Impact Strength(Nm)	IEC-60794-1-21-E4	1
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (Static)	IEC-60794-1-21-E11	10 D
Kink Radius	IEC-60794-1-21-E10	5 D
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be <math>\leq 0.15\text{ dB/km}</math>
Installation		-0°C to +50°C
Operation		-20°C to +70°C
Storage		-20°C to +70°C

**Note :** All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be <math>\leq 0.5\text{ dB/km}</math> for Multimode fibre.

### Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, Telecordia GR-20, ITU-T, RoHS, REACH, ANSI/TIA-492 Series, ANSI/TIA-568.3-E.

### Packing and Lengths

- Drum Type : Wooden Drums
- Length Multiple (m) : 2000 ± 5%
- Order Tolerance : ± 5%
- Short Lengths : Max 5%, Customer Approval

### Printing Details

- Printing : As per Customer Request

**Note :** The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

### Revision History

Revision No.	Date	Description
1.0	29-Nov-2021	Initial Issue

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