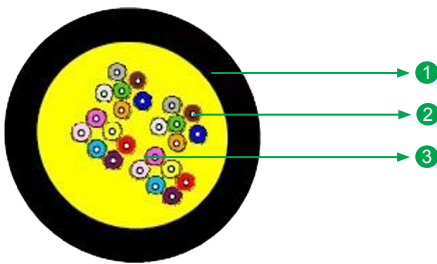


# Tight Buffer

XXF Tight Buffer LSZH

Sheath Distribution Optical Fibre Cable



1 LSZH OUTER SHEATH

2 STRENGTH MEMBER (ARAMID YARNS)

3 LSZH TIGHT BUFFER WITH FIBRE

\* 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

## 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

## Cable Performance Standards

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

## 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.

## Specifications

Physical Characteristics	
Fibre Count	4-24
Fibre Type	SM – G652D (9/125)
Maximum Cabled Attenuation (dB/km)	1310nm : < 0.36 & 1550nm : < 0.24
Tight Buffer Fibre	Uncoloured fibre 250 (Nominal) $\mu$ m
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	Cable Performance	Testing Standard
Tensile Strength (N)	1000	IEC-60794-1-21-E1
Crush Resistance (N/100 mm)	500	IEC-60794-1-21-E3
Impact Strength(Nm)	1	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius (Static)	10 D	IEC-60794-1-21-E11
Kink Radius	5 D	IEC-60794-1-21-E10
Temperature Performance	Max. change in attenuation shall be <=/= 0.15 dB/km	IEC-60794-1-22-F1
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 <=/= 0.05 dB/km for Single mode fibre.

## Packing and Lengths

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

For additional information please contact your sales representative.

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