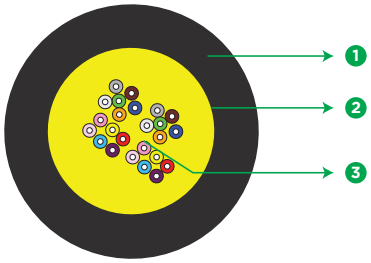
Product Specification

Tight Buffer LSZH Riser OFC

6F-24F



1 LSZH OUTER SHEATH

2 STRENGHT 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 support 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

STL 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, ITU-T, RoHS, REACH.

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	6~24				
Fibre Type	SM - G.657.A1, MM - OM3/OM4				
Maximum Cabled Attenuation (dB/km)	Fiber type	Maximum Cabled Fiber Attenuation dB/km			
		850nm	1300nm	1310nm	1550nm
	G657A1	-	-	< 0.40	< 0.30
	OM3	< 3.0	< 1.0	-	-
	OM4	< 3.0	< 1.0	-	-
Tight Buffer Fibre	Uncoloured fibre 250 (Nominal) µm				
Tight Buffer Material	LSZH Tight Buffer				
Tight Buffer Size (mm)	0.9 +/- 0.1 mm				
Strength Members	Aramid Yarns distributed over & around Tight Buffer for strength				
Sheathing Material	Low Smoke Zero Halogen				

Cable Characteristics					
Fiber Count	**Sheath Colour**	**Tight Buffer Colour**	**Cable Diameter (mm)**	**Weight of Cable (kg/km)**	**Cable Length in one Reel (Km)**
6	G.657A1 : Black OR Yellow OM3-Aqua, OM4- Pink	Blue, Orange, Green, Brown, Slate, White.	6.2 ± 0.5	30 ± 10%	2000 ± 10%
8		Blue, Orange, Green, Brown, Slate, White, Red, Black.	6.5 ± 0.5	38 ± 10%	2000 ± 10%
12		Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua.	7.2 ± 0.5	48 ± 10%	2000 ± 10%
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	70 ± 10%	2000 ± 10%

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

Specifications

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)	5 N,0.5m	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius (Static)	15 D	IEC-60794-1-21-E11
Kink Radius	10 D	IEC-60794-1-21-E10
Temperature Performance	Max. change in attenuation shall be </= 0.15 dB/km for SM & </= 0.5 dB/km for MM Fiber type	IEC-60794-1-22-F1
Installation	-10ºC to +60ºC	
Operation	-20ºC to +70ºC	
Storage	-20ºC to +70ºC	

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 & </= 0.3 dB/km for Multi-Mode Fibre.

Packing and Lengths

Drum Type	Length Multiple (kms)	Order Tolerance	Short Lengths
Wooden Drums	2.0 ± 10%	±10%	Max 5%, Customer Approval

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