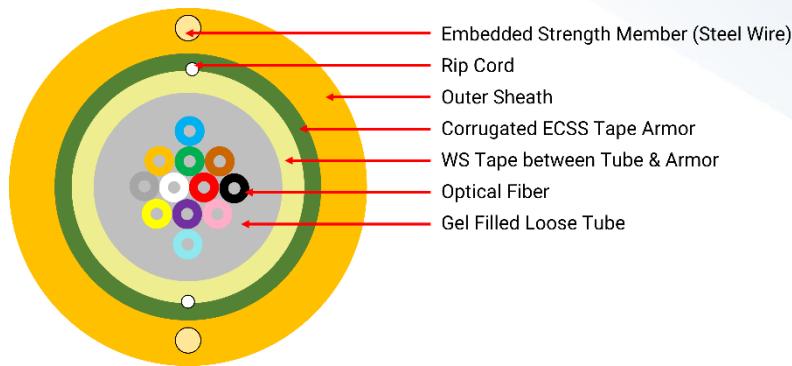


Single Mode Outdoor Fiber Optic Cable



The Outdoor fiber optic cables are PBT Uni loose tube with colored fiber cores. The constructions are of water-blocking gel material with Metallic Strength member & ECCS armoring. This cable has a FRLSZH outer jacket which makes it perfect for outdoor applications.

Features

- Complies to ANSI/TIA-568.3-D, ITU-T G652.D, Telcordia GR-20, IEC 60794-2/ 60794-3-10
- ECCS Tape Armoring
- Waterproof layer & excellent moisture resistance provided
- Excellent consistent performance
- Covered under 3C3® Performance Warranty

Constructional Specifications

Fiber Count	:	8F ~ 12F
No. of Tube	:	1
Tube Color	:	White
Tube diameter	:	2.5 ± 0.1 mm
Fiber colors	:	8F: Blue, Orange, Green, Brown, Slate, White, Red, Black 12F: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Purple, Pink, Aqua
Embedded Strength Member	:	2x 0.9mm Steel wire embedded in sheath
Armoring	:	Corrugated ECCS Tape
Water Blocking Material	:	WS tape
Outer Sheath	:	FRLSZH
Sheath Color	:	Orange
Nominal Cable diameter	:	8 ±0.5mm
Nominal Cable weight	:	95kg/km ±10%
Drum Length	:	2 Km ± 5 %

Kindly note that any specifications including design, measurements, size, dimension, weight and material specifications mentioned across any technical or commercial document are change by 3C3 India Pvt. Ltd., without any notice.

Single Mode Outdoor Fiber Optic Cable

Mechanical Specifications

Specification	Value	Test Method
Tensile Strength (Long Term)	: 2000N	IEC-60794-1-E1
Tensile Strength (Short Term)	: 3000N	IEC-60794-1-E1
Bend Radius	: 20D	IEC-60794-1-E11
Kink Radius	: 10D	IEC-60794-1-E1
Crush Resistance (Long)	: 2000N /100mm	IEC-60794-1-E3
Crush Resistance (Short)	: 3000N/ 100mm	IEC-60794-1-E1
Impact Resistance	: 25Nm	IEC/EN 60794-1-E4
Torsion Strength	: $\pm 180^{\circ}$	IEC/EN 60794-1-E7

Optical Specifications

Specification	Value	Test Method
Fiber Type	: 9/125 μ m	
Fiber Coating Color	: Colored	
Cladding Diameter	: $125.0 \pm 0.7 \mu\text{m}$	IEC/EN 60793-1-20
Core non-circularity	: $\leq 1\%$	IEC/EN 60793-1-20
Core/cladding Concentricity Error	: $\leq 0.6 \mu\text{m}$	IEC/EN 60793-1-20
Cladding non-circularity	: $\leq 1.0\%$	IEC/EN 60793-1-20
Coating Diameter	: $245 \pm 10 \mu\text{m}$	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	: $\leq 12.5 \mu\text{m}$	IEC/EN 60793-1-20
Attenuation Co-efficient	: $1310\text{nm} \leq 0.38\text{dB/km}$	IEC/EN 60793-1-40
	: $1550\text{nm} \leq 0.25\text{dB/km}$	IEC/EN 60793-1-40
Zero dispersion slope	: $\leq 0.092\text{ps}/(\text{nm}^2\text{-km})$	
Zero dispersion wavelength	: $1302 \sim 1324\text{nm}$	
Polarization Mode dispersion	: $\leq 0.20 \text{ ps}/\sqrt{\text{km}}$	
Mode field diameter	: $9.2 \pm 0.4 \mu\text{m}$ at 1310nm	IEC/EN 60793-1-45
	: $10.4 \pm 0.5 \mu\text{m}$ at 1550nm	IEC/EN 60793-1-45
Cut-off wavelength (λ_c)	: $\leq 1260 \text{ nm}$	IEC/EN 60793-1-44
Chromatic dispersion	: $1285 \sim 1330\text{nm} \leq 3.4\text{ps}(\text{n m}\cdot\text{km})$	IEC/EN 60793-1-42
	: $1550\text{nm} \leq 18 \text{ ps}/(\text{nm}\cdot\text{km})$	IEC/EN 60793-1-42
	: $1625\text{nm} \leq 22 \text{ ps}/(\text{nm}\cdot\text{km})$	IEC/EN 60793-1-42

Single Mode Outdoor Fiber Optic Cable

Environmental Specifications

Installation Temperature	:	-10°C~+50°C
Storage Temperature	:	-40°C~+75°C
Operating Temperature	:	-40°C~+75°C

Standard Compliances/Certifications

- RoHS Certified

Ordering Information

Product Code	Description
89001-138-XXXX	High Link Fiber Optic, Armored, Uniloose Tube Outdoor Cable, Gel filled, Peripheral Steel rod Strength Member, Single Sheath Orange FRLSZH, OS2 XXXX = Cores (0008 - 8F, 0012 - 12F)