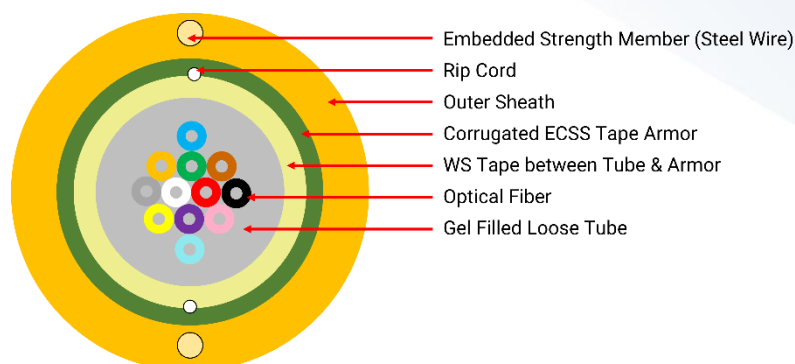


Single Mode Outdoor Fiber Optic Cable



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 %

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 μ m	IEC/EN 60793-1-20
Core non-circularity	: $\leq 1\%$	IEC/EN 60793-1-20
Core/cladding Concentricity Error	: $\leq 0.6\mu$ m	IEC/EN 60793-1-20
Cladding non-circularity	: $\leq 1.0\%$	IEC/EN 60793-1-20
Coating Diameter	: 245 \pm 10 μ m	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	: $\leq 12.5\mu$ m	IEC/EN 60793-1-20
Attenuation Co-efficient	: 1310nm \leq 0.38dB/km	IEC/EN 60793-1-40
	: 1550nm \leq 0.25dB/km	IEC/EN 60793-1-40
Zero dispersion slope	: ≤ 0.092 ps/(nm ² ·km)	
Zero dispersion wavelength	: 1302~1324nm	
Polarization Mode dispersion	: ≤ 0.20 ps/ \sqrt km	
Mode field diameter	: 9.2 \pm 0.4 μ m at 1310nm	IEC/EN 60793-1-45
	: 10.4 \pm 0.5 μ m at 1550nm	IEC/EN 60793-1-45
Cut-off wavelength (λ_c)	: ≤ 1260 nm	IEC/EN 60793-1-44
Chromatic dispersion	: 1285~1330nm \leq 3.4ps(nm·km)	IEC/EN 60793-1-42
	: 1550nm \leq 18 ps/(nm·km)	IEC/EN 60793-1-42
	: 1625nm \leq 22 ps/(nm·km)	IEC/EN 60793-1-42

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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)