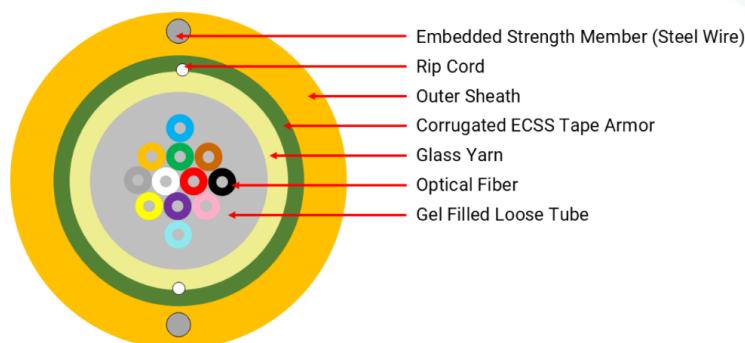


# Single Mode Uniloose tube Outdoor Fiber Optic Cable (6F~24F)



Single Mode Uniloose tube, single sheath ECCS tape armored optical fiber cable is suitable for duct and aerial applications. Fiber cable is perfectly suited for both gigabit Ethernet and 10 gigabit Ethernet campus and backbone applications

## Features

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

## Constructional Specifications

Fiber Count	:	6~24F
No. of Tube	:	1
Tube diameter	:	2.5±0.1 mm
Fiber colors	:	6F: Blue, Orange, Green, Brown, Grey, White
	:	12F: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Purple, Pink, Aqua
	:	24F: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua, Ring Mark - Blue, Orange, Green, Brown, Grey, White, Red, Natural, Yellow, Violet, Pink & Aqua
	:	
Embedded Strength Member	:	2x 0.55 mm Steel wire embedded in sheath
Water Blocking Material	:	Glass Yarn
Outer Sheath	:	HDPE UV Resistance
Sheath Color	:	Orange
Rip Cord	:	Yes, Polyester based yarns below armoring
Nominal Cable diameter	:	8±0.5mm
Nominal Cable weight	:	60kg/km ±10%
Drum Length	:	2 Km ± 5 %

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## 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	: $\pm 180^0$	IEC/EN 60794-1-E7

## Optical Specifications

Specification	Value	Test Method
Fiber Type	: 9/125 $\mu$ m	
Fiber Coating Color	: Colored	
Cladding Diameter	: 125.0 $\pm$ 0.7 $\mu$ m	IEC/EN 60793-1-20
Core non-circularity	: $\leq 6\%$	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	: 242 $\pm$ 10 $\mu$ m	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	: $\leq 12.5\mu$ m	IEC/EN 60793-1-20
Attenuation Co-efficient	: 1310nm $\leq$ 0.36dB/km	IEC/EN 60793-1-40
	: 1550nm $\leq$ 0.24dB/km	IEC/EN 60793-1-40
Zero dispersion slope	: $\leq 0.092$ ps/(nm <sup>2</sup> ·km)	
Zero dispersion wavelength	: 1302~1324nm	
Polarization Mode dispersion	: $\leq 0.20$ ps/ $\sqrt$ km	
Mode field diameter	: 9.1 $\pm$ 0.4 $\mu$ m at 1310nm	IEC/EN 60793-1-45
	: 10.3 $\pm$ 0.5 $\mu$ m at 1550nm	IEC/EN 60793-1-45
Cut-off wavelength ( $\lambda_c$ )	: 1170~1330nm	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
89001-090-XXXX	High Link Fiber Optic, Armored, Uniloose Tube Outdoor Cable, Gel filled, Peripheral Steel rod Strength Member, Single Sheath Orange HDPE, OS2 XXXX: Cores (0006 - 6F, 0012 - 12F, 0024 - 24F)