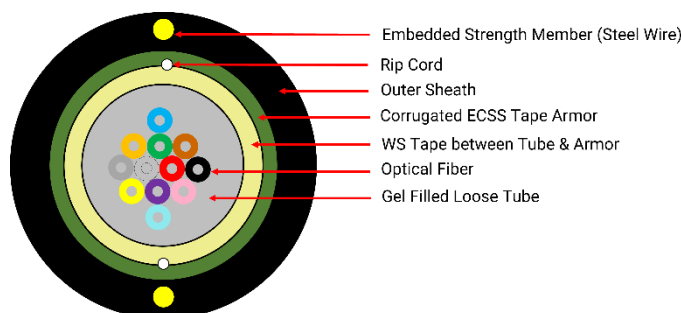


# Single Mode Uniloose tube Outdoor Fiber Optic Cable (6F~12F)



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
- LSZH jacket
- ECCS tape Armoring
- Waterproof layer & excellent moisture resistance provided
- Excellent consistent performance
- Covered under 3C3® Performance Warranty

## Constructional Specifications

Fiber Count	: 6/12F
No. of Tube	: 1
Tube diameter	: 3.0 ±0.1 mm
Fiber colors	: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Purple, Pink, Aqua
Embedded Strength Member	: 2x1.0mm Steel wire embedded in sheath
Water Blocking Material	: WS tape
Outer Sheath	: LSZH
Sheath Color	: Black
Rip Cord	: Yes, Polyester based yarns below armoring
Nominal Cable diameter	: 9 ±0.5mm
Nominal Cable weight	: 86kg/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-E11
Crush Resistance (Long)	: 2000N /100mm	IEC-60794-1-E3
Crush Resistance (Short)	: 3000N/ 100mm	IEC-60794-1-E3
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 $\mu$ m	
Fiber Coating Color	: Colored	
Core non-circularity	: $\leq 1\%$	IEC/EN 60793-1-20
Cladding Diameter	: 125.0 $\pm$ 0.7 $\mu$ m	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 $\mu$ m	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	: $\leq 12\mu$ 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
	: 1625nm $\leq$ 0.26dB/km	IEC/EN 60793-1-40
Zero dispersion slope	: $\leq 0.092$ ps/(nm <sup>2</sup> ·km)	
Zero dispersion wavelength	: 1300~1324nm	
Polarization mode dispersion	: $\leq 0.20$ ps/ $\sqrt$ km	
Mode field diameter	: 9.0 $\pm$ 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 ( $\lambda_c$ )	: $\leq 1260$ nm	IEC/EN 60793-1-44
Chromatic dispersion	: 1285~1330nm $\leq$ 3.5ps/(nm·km)	IEC/EN 60793-1-42
	: 1270~1340nm $\leq$ 5.3ps/(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

# Single Mode Uniloose tube Outdoor Fiber Optic Cable (6F~12F)

## 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
53012-0XXX	High Link Fiber Optic, Armored, Uniloose Tube Outdoor Cable, Gel filled, Peripheral Steel rod Strength Member, Single Sheath Black LSZH, OS2 XXX – Cores (006 – 6F, 012 – 12F)