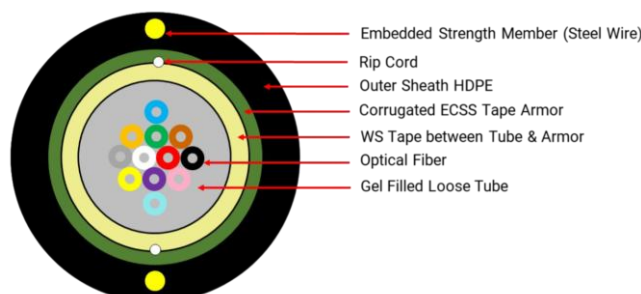


# Single Mode Uniloose tube Outdoor Fiber Optic Cable (6F~12F)



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
- HDPE UV Resistance 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 ±0.2 mm                                                                                                                        |
| Fiber colors             | : 6F: Blue, Orange, Green, Brown, Grey, White<br>12F: 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             | : HDPE UV Resistance                                                                                                                 |
| 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~+60°C |
| Storage Temperature      | : | -40°C~+75°C |
| Operating Temperature    | : | -40°C~+75°C |

## Standard Compliances/Certifications

- RoHS Certified

## Ordering Information

| Product Code | Description                                                                                                                                                                             |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 53011-0XXX   | High Link Fiber Optic, Armored, Uniloose Tube Outdoor Cable, Gel filled, Peripheral Steel rod Strength Member, Single Sheath Black HDPE, OS2<br>XXX – Cores (006 – 6Core, 012 - 12Core) |