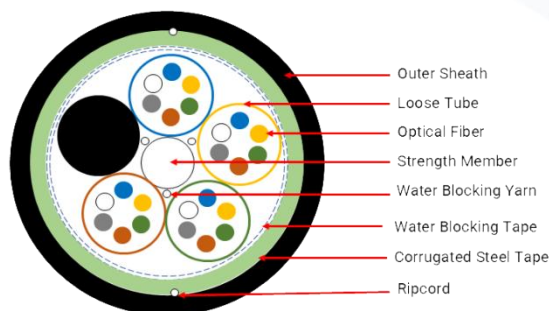


# Single Mode Outdoor Fiber Optic Cable (24F)



The Outdoor fiber optic cables are PBT Multi loose tube with colored fiber cores. The constructions are of water-blocking gel material with Non-Metallic Central Strength member & ECCS armoring. This cable has an HDPE 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
- Waterproof layer & excellent moisture resistance provided
- Excellent consistent performance
- Covered under 3C3® Performance Warranty

## Constructional Specifications

|                         |                                           |
|-------------------------|-------------------------------------------|
| Fiber Type              | : G652 D - Low Water Peak                 |
| Fiber Count             | : 24F                                     |
| Fibers per loose Tube   | : 6F/T                                    |
| Fiber colors            | : Blue, Orange, Green, Brown, Grey, White |
| Loose Tube Color        | : Blue, Orange, Green, Brown, Filler      |
| Loose Tube Diameter     | : 1.8mm                                   |
| Central Strength Member | : FRP                                     |
| Diameter of CSM         | : 1.5mm                                   |
| Water Blocking Material | : Thixotropic Gel                         |
| Armoring                | : Corrugated Steel Tape                   |
| Outer Sheath            | : HDPE UV Resistance                      |
| Outer Sheath Color      | : Black                                   |
| Outer Sheath Thickness  | : 1.3mm Nominal                           |
| Nominal Cable diameter  | : 9.0 ± 0.8mm                             |
| Nominal Cable weight    | : 90 Kg/Km Nominal                        |
| 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) | : 4000N            | IEC-60794-1-E1    |
| Bend Radius                   | : 20D              | IEC-60794-1-E11   |
| Kink Radius                   | : 10D              | IEC-60794-1-E11   |
| Crush Resistance              | : 4000N /100mm     | IEC-60794-1-E3    |
| Torsion Strength              | : $\pm 180$ degree | 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             | : $\leq 0.8\%$                            | IEC/EN 60793-1-20 |
| Coating Diameter                     | : 242 $\pm$ 5 $\mu$ m                     | IEC/EN 60793-1-21 |
| Coating/cladding Concentricity Error | : $\leq 12\mu$ m                          | IEC/EN 60793-1-20 |
| Attenuation Co-efficient             | : 1310nm $\leq$ 0.35dB/km                 | IEC/EN 60793-1-40 |
|                                      | : 1550nm $\leq$ 0.21dB/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         | : $\leq 0.2$ ps/ $\sqrt$ km               |                   |
| Mode field diameter                  | : 1310nm : 9.2 $\pm$ 0.5 $\mu$ m          | IEC/EN 60793-1-45 |
| Cut-off wavelength ( $\lambda_c$ )   | : $\leq 1260$ nm                          | IEC/EN 60793-1-44 |
| Chromatic dispersion                 | : 1270~1340nm $\leq$ 5.3ps (nm - km)      | IEC/EN 60793-1-42 |
|                                      | : 1285~1330nm $\leq$ 3.5ps (nm - km)      | IEC/EN 60793-1-42 |
|                                      | : 1550nm $\leq$ 18 ps/ (nm - km)          | IEC/EN 60793-1-42 |

# Single Mode Outdoor Fiber Optic Cable (24F)

## Environmental Specifications

|                          |   |             |
|--------------------------|---|-------------|
| Installation Temperature | : | -30°C~+70°C |
| Storage Temperature      | : | -40°C~+70°C |
| Operating Temperature    | : | -40°C~+70°C |

## Standard Compliances/Certifications

- ROHS Certified

## Ordering Information

| Product Code   | Description                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|
| 89003-112-0024 | High Link Fiber Optic, Armored, Multi-loose Tube Outdoor Cable, Gel filled, 6F/T, CSM FRP, Single Sheath Black HDPE, OS2, 24F |