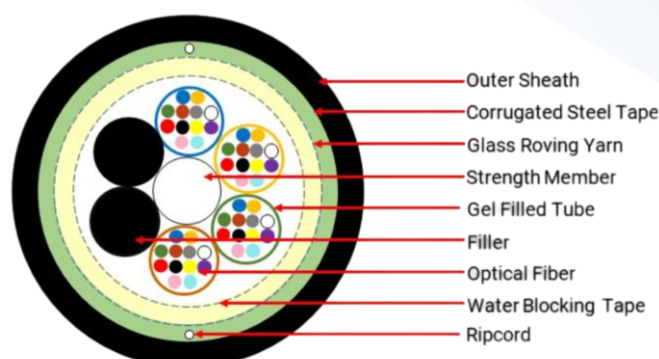


Single Mode Outdoor Fiber Optic Cable (48F)



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 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
- HDPE jacket
- UV Protected Outer Sheath
- ECCS Armoring
- Waterproof layer & excellent moisture resistance provided
- Excellent consistent performance
- Covered under 3C3® Performance Warranty

Constructional Specifications

Fiber Count	: 48F
Fibers per loose Tube	: 12F/T
Fiber colors	: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink and Aqua
Loose Tube Color	: Blue, Orange, Green, Brown, Filler, Filler
Loose Tube Diameter	: 2.0±0.02mm
Central Strength Member	: FRP
Diameter of CSM	: 2.0±0.01mm
Water Blocking Material	: Thixotropic Gel
Outer Sheath	: HDPE
Sheath Color	: Black
Nominal Cable diameter	: 12.5 ±0.5mm
Sheath Thickness	: 2.00 mm nominal
Nominal Cable weight	: 145 ±5 kg/km
Drum Length	: 2 Km ± 5 %

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Mechanical Specifications

Specification	Value	Test Method
Tensile Strength (Long Term)	: 2500N	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 (Short)	: 4000N /100mm	IEC-60794-1-E3
Crush Resistance (Long)	: 3000N /100mm	IEC-60794-1-E3
Impact Resistance	: 10 Nm	IEC/EN 60794-1-E4
Torsion Strength	: ±180 degree	IEC/EN 60794-1-E7

Optical Specifications

Specification	Value	Test Method
Fiber Type	: 9/125μm	
Fiber Coating Color	: Colored	
Core Non-circularity	: ≤ 1%	IEC/EN 60793-1-20
Cladding Diameter	: 125.0±0.7μm	IEC/EN 60793-1-20
Core/cladding Concentricity Error	: ≤ 0.6μm	IEC/EN 60793-1-20
Cladding Non-circularity	: ≤ 1.0%	IEC/EN 60793-1-20
Coating Diameter	: 245±10μm	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	: ≤ 12μm	IEC/EN 60793-1-20
Attenuation Co-efficient	: 1310nm≤0.36dB/km	IEC/EN 60793-1-40
	: 1550nm≤0.24dB/km	IEC/EN 60793-1-40
Zero dispersion slope	: ≤ 0.092ps/(nm ² ·km)	
Zero dispersion wavelength	: 1300~1324nm	
Polarization mode dispersion	: ≤ 0.20 ps/√km	
Mode field diameter	: 1310nm : 9.0±0.4μm	IEC/EN 60793-1-45
Cut-off wavelength (λ _c)	: 1260nm	IEC/EN 60793-1-44
Chromatic dispersion	: 1288~1339nm≤3.5ps(nm·km)	IEC/EN 60793-1-42
	: 1550nm≤18 ps/(nm·km)	IEC/EN 60793-1-42
	: 1625nm≤22 ps/(nm·km)	IEC/EN 60793-1-42

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Environmental Specifications

Installation Temperature	:	-10°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
53031-0048	High Link Fiber Optic, Armored, Multi-loose Tube Outdoor Cable, Gel filled, 12F/T, CSM FRP, Single Sheath Black HDPE, SM, 48Cores