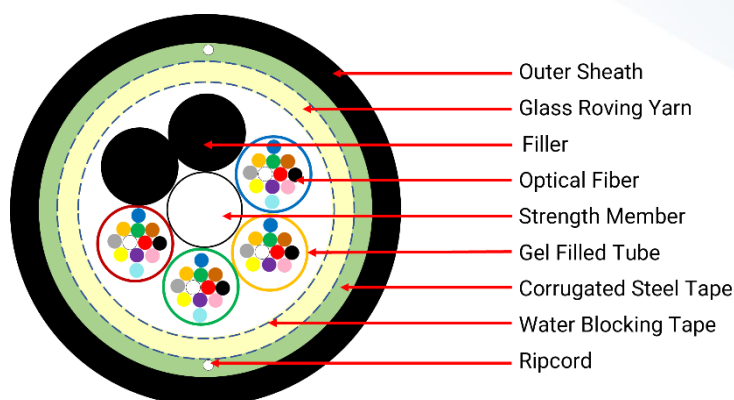


Multi-Mode Outdoor Fiber Optic Cable (48F)



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-E, Telcordia GR-20, IEC 60794-2, ISO/IEC 11801, ISO/IEC 24702
- 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
Loose Tube Diameter	: 2.0mm
Central Strength Member	: FRP
Diameter of CSM	: 1.4mm
Water Blocking Material	: Thixotropic Gel
Outer Sheath	: HDPE UV Resistance
Sheath Color	: Black
Nominal Cable diameter	: 12.5±0.5mm
Sheath Thickness	: 2.0mm
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	: $\pm 180^\circ$	IEC/EN 60794-1-E7

Optical Specifications

Specification	Value	Test Method
Fiber Type	: 50/125 μ m	
Fiber Coating Color	: Colored	
Core Non-circularity	: $\leq 6\%$	IEC/EN 60793-1-20
Cladding Diameter	: 125.0 \pm 0.7 μ m	IEC/EN 60793-1-20
Core/cladding Concentricity Error	: $\leq 1.5\mu$ m	IEC/EN 60793-1-20
Cladding Non-circularity	: $\leq 1.0\%$	IEC/EN 60793-1-20
Coating Diameter	: 242 \pm 7 μ m	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	: $\leq 12\mu$ m	IEC/EN 60793-1-20
Attenuation Co-efficient	: 850nm \leq 2.5dB/km	IEC/EN 60793-1-40
	: 1300nm \leq 0.8dB/km	IEC/EN 60793-1-40
Effective Modal Bandwidth	: ≥ 4700 MHz.km (OM4) ≥ 2000 MHz.km (OM3)	
Attenuation inhomogeneity	: ≤ 0.1 dB (500)	
Numerical Aperture	: 0.275 \pm 0.015	

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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

53C31-0048

Description

High Link Fiber Optic, Armored, Multi-loose Tube Outdoor Cable,
Gel filled, 12F/T, CSM FRP, Single Sheath Black HDPE, MM
C = (2 - OM2, 3 - OM3, 4 - OM4)