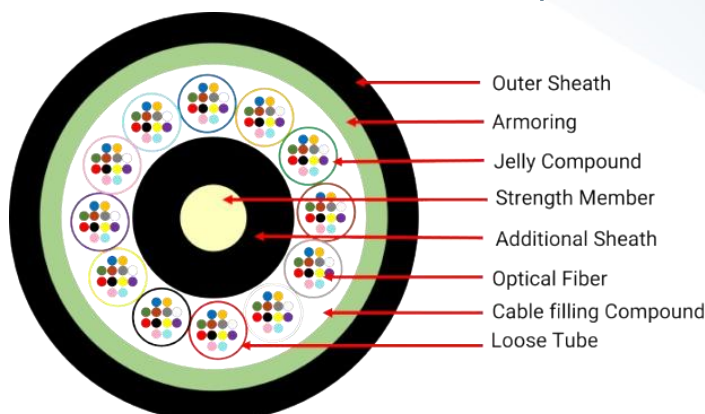


# Multi - Mode Outdoor Fiber Optic Cable – 144F



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 & armoring. This cable has HDPE outer jacket which makes it perfect for outdoor applications.

## Features

- Complies to ANSI/TIA-568.3-D, Telcordia GR-20, IEC 60794-2, ISO/IEC 11801, ISO/IEC 24702
- HDPE jacket
- Steel Strip Armoring
- Waterproof layer & excellent moisture resistance provided
- Excellent consistent performance
- Covered under 3C3® Performance Warranty

## Constructional Specifications

Fiber Count	: 144F
Fibers per loose Tube	: 12
Fiber colors	: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink and Aqua
Loose Tube Color	: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink and Aqua
Loose Tube Diameter	: 2.3±0.3mm
Central Strength Member	: FRP
Diameter of CSM	: 2.8±0.3mm
Additional Sheath	: MDPE
Water Blocking Material	: Cable Filling Compound
Outer Sheath	: HDPE
Sheath Color	: Black
Nominal Cable diameter	: 16.0±0.2mm
Sheath Thickness	: 1.70 mm nominal
Drum Length	: 2 Km ± 5 %

# Multi - Mode Outdoor Fiber Optic Cable – 144F

## Mechanical Specifications

Specification	Value	Test Method
Tensile Strength (Long Term)	: 1200N	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 (Short)	: 1000N /100mm	IEC-60794-1-E3
Crush Resistance (Long)	: 300N /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	: 50/125μm	
Fiber Coating Color	: Colored	
Core Non-circularity	: ≤ 6%	IEC/EN 60793-1-20
Cladding Diameter	: 125.0±0.7μm	IEC/EN 60793-1-20
Core/cladding Concentricity Error	: ≤ 1.5μm	IEC/EN 60793-1-20
Cladding Non-circularity	: ≤ 1.0%	IEC/EN 60793-1-20
Coating Diameter	: 242±7μm	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	: ≤ 12μm	IEC/EN 60793-1-20
Attenuation Co-efficient	: 850nm≤2.5dB/km	IEC/EN 60793-1-40
	: 1300nm≤0.8dB/km	IEC/EN 60793-1-40
Effective Modal Bandwidth	: ≥ 4700MHz.km (OM4)	
	: ≥ 2000MHz.km (OM3)	
Attenuation inhomogeneity	: ≤ 0.1dB(500)	
Numerical Aperture	: 0.275±0.015	

# Multi - Mode Outdoor Fiber Optic Cable – 144F

## Environmental Specifications

Installation Temperature	:	-20°C~+60°C
Storage Temperature	:	-40°C~+70°C
Operating Temperature	:	-40°C~+70°C

## Standard Compliances/Certifications

- ROHS Certified

## Ordering Information

### Product Code

53C31-0144

### Description

High Link Fiber Optic, Armored, Multi-loose Tube Outdoor Cable, Gel filled, 12F/T, CSM FRP, Single Sheath Black HDPE, MM,144F C = (2 - OM2, 3 - OM3, 4 - OM4)