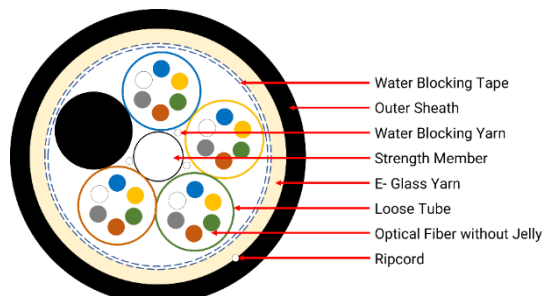


# Single Mode Indoor/Outdoor Fiber Optic Cable (6F~24F)



The Indoor/outdoor fiber optic cables are PBT Multi loose tube with colored fiber cores. The constructions are of dry water-blocking material with Non-Metallic Central Strength member. This cable has LSZH outer jacket and makes it perfect for indoor/outdoor applications.

## Features

- Conformance to ANSI/TIA-568.3-D, ITU-T G652.D, Telcordia GR-20, IEC 60794-2/ 60794-3-10
- LSZH jacket
- Waterproof layer & excellent moisture resistance provided
- Excellent consistent performance
- Covered under 3C3® Performance Warranty

## Constructional Specifications

Fiber Count	:	6F	12F	24F
Fibers per loose Tube	:	6F/T		
Fillers	:	4	3	1
Fiber colors	:	Blue, Orange, Green, Brown, Grey, White		
Loose Tube Color	:	Blue, Orange, Green, Brown		
Loose Tube Diameter	:	1.9±0.2mm		
Central Strength Member	:	FRP		
Water Blocking Material	:	Yarns/ Tape		
Outer Sheath	:	LSZH		
Sheath Color	:	Black		
Nominal Cable diameter	:	9.5±0.5mm		
Nominal Cable weight	:	115 ±10 kg/km		
Drum Length	:	2 Km ± 5 %		

# Single Mode Indoor/Outdoor Fiber Optic Cable (6F~24F)

## Mechanical Specifications

Specification	Value	Test Method
Tensile Strength (Long Term)	: 1000N	IEC-60794-1-E1
Tensile Strength (Short Term)	: 2500N	IEC-60794-1-E1
Bend Radius	: 20D	IEC-60794-1-E11
Kink Radius	: 10D	IEC-60794-1-E11
Crush Resistance (Short)	: 2000N /100mm	IEC-60794-1-E3
Crush Resistance (Long)	: 1000N /100mm	IEC-60794-1-E3
Impact Resistance	: 1Nm	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	: $\leq 6\%$	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 $\leq$ 0.22dB/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	: 1310nm: 9.0 $\pm$ 0.4 $\mu$ m	IEC/EN 60793-1-45
Cut-off wavelength ( $\lambda_c$ )	: 1170~1330nm	IEC/EN 60793-1-44
Chromatic dispersion	: 1288~1339nm $\leq$ 3.4ps(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 Indoor/Outdoor Fiber Optic Cable (6F~24F)

## Environmental Specifications

Installation Temperature	:	-40°C~+60°C
Storage Temperature	:	-45°C~+70°C
Operating Temperature	:	-40°C~+70°C

## Standard Compliances/Certifications

- RoHS Certified

## Ordering Information

### Product Code

52022-0XXX

### Description

High Link Fiber Optic, Multi-loose Tube Indoor/Outdoor Cable, Gel free, 6F/T, CSM FRP, Single Sheath Black LSZH, OS2  
XXX – Cores (006 – 6F, 012 - 12F, 024 - 24F)