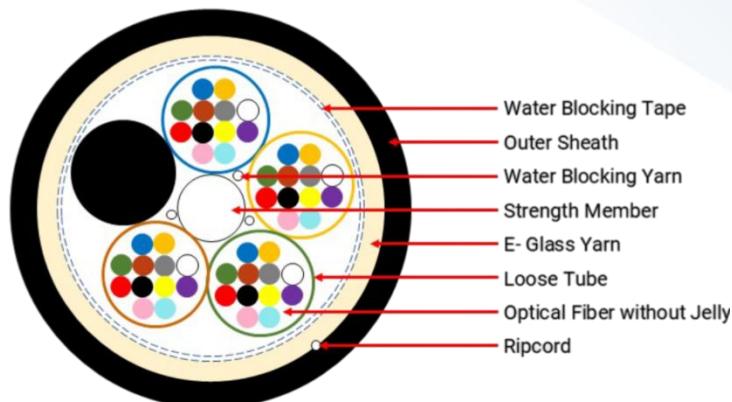


# Multi - Mode Indoor/Outdoor Fiber Optic Cable



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

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

## Constructional Specifications

|                         |   |   |
|-------------------------|---|---|
| Fiber Count             | : | 48F   |
| No. of Loose Tube       | : | 4   |
| Fibers per loose Tube   | : | 12F   |
| Fiber colors            | : | Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua |
| Loose Tube Color        | : | Blue, Orange, Green, Brown, Filler  |
| Loose Tube Diameter     | : | 2.3±0.2mm   |
| Central Strength Member | : | FRP   |
| Water Blocking Material | : | Yarns/ Tape   |
| Outer Sheath            | : | LSZH  |
| Sheath Color            | : | Black   |
| Nominal Cable diameter  | : | 10.5±0.5mm  |
| Drum Length             | : | 2 Km ± 5 %  |

# Multi – Mode Indoor/Outdoor Fiber Optic Cable

## 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                           | : 50/125 $\mu$ m   |                   |
| Fiber Coating Color                  | : Colored  |                   |
| Core non-circularity                 | : $\leq 5\%$   | IEC/EN 60793-1-20 |
| Cladding Diameter                    | : $125.0 \pm 0.7 \mu\text{m}$                                      | IEC/EN 60793-1-20 |
| Core/cladding Concentricity Error    | : $\leq 1.0 \mu\text{m}$   | IEC/EN 60793-1-20 |
| Cladding non-circularity             | : $\leq 1.0\%$   | IEC/EN 60793-1-20 |
| Coating Diameter                     | : $245 \pm 7 \mu\text{m}$  | IEC/EN 60793-1-21 |
| Coating/cladding Concentricity Error | : $\leq 12 \mu\text{m}$  | IEC/EN 60793-1-20 |
| Attenuation Co-efficient             | : $850\text{nm} \leq 2.3\text{dB/km}$                              | IEC/EN 60793-1-40 |
|                                      | : $1300\text{nm} \leq 0.6\text{dB/km}$                             | IEC/EN 60793-1-40 |
| Effective Modal Bandwidth            | : $\geq 4700\text{MHz.km}$ (OM4)<br>$\geq 2000\text{MHz.km}$ (OM3) |                   |
| Attenuation inhomogeneity            | : $\leq 0.1\text{dB}$ (500)  |                   |
| Numerical Aperture                   | : $0.275 \pm 0.015$  |                   |

# Multi – Mode Indoor/Outdoor Fiber Optic Cable

## Environmental Specifications

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

## Standard Compliances/Certifications

- RoHS Certified

## Ordering Information

| Product Code | Description  |
|--------------|--|
| 52C22-0048   | High Link Fiber Optic, Multi-loose Tube Indoor/Outdoor Cable, Gel free, 12F/T, CSM FRP, Single Sheath Black LSZH, MM, 48F<br>C = (2 - OM2, 3 - OM3, 4 - OM4) |