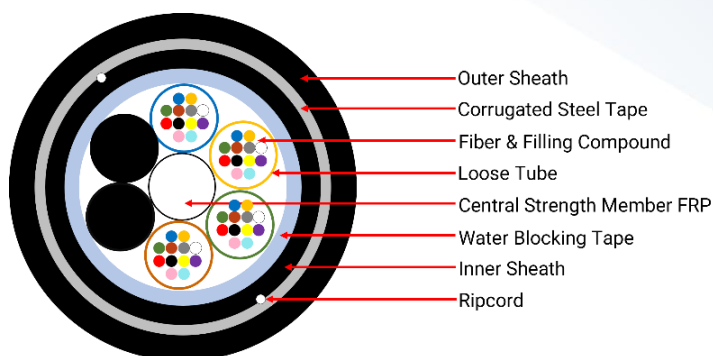


# Direct Burial Single Mode Fiber Optic Cable – 48F



Single Mode Multi Loose Tube, Double Sheath, and optical fiber cables are perfect for direct burial applications. These cables are perfectly suited for both gigabit Ethernet and 10 gigabit Ethernet campus and backbone applications.

## Features

- Conformance to ANSI/TIA-568.3-D, ITU-T G652.D, Telcordia GR-20, IEC 60794-3-10
- UV Protected Outer Sheath
- Excellent waterproof layer and good moisture resistance
- Excellent consistent performance
- Covered under 3C3® Performance Warranty

## Constructional Specifications

Fiber Type	: G652D
Fiber Count	: 48F
Fiber per tube	: 12F/T
Fiber Color	: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink and Aqua
Loose Tube Color	: Blue, Orange, Green, Brown, Filler, Filler
Loose Tube Material	: PBT
Loose Tube Diameter	: 1.9±0.1 mm
Water Blocking Element	: Water Block Tape
Armor	: Corrugated Steel Tape
Central Strength Member	: FRP
Inner Sheath	: HDPE
Inner Sheath Color	: Black
Outer Sheath	: HDPE
Outer Sheath Color	: Black
Cable Diameter	: 13.8±0.5mm
Cable Weight	: 185kg/Km

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## Mechanical Specifications

Specification	Value	Test Method
Tensile Strength Long	: 1500	IEC-60794-1-E1
Tensile Strength Short	: 4000	IEC-60794-1-E1
Crush Resistance Long	: 1500	IEC-60794-1-E3
Crush Resistance Short	: 4000	IEC-60794-1-E3
Bending Radius Installation	: 30 x OD	IEC-60794-1-E11
Bending Radius Operation	: 10 x OD	IEC-60794-1-E11

## Optical Specifications

Specification	Value	Test Method
Core non-circularity	: $\leq 6\%$	
Cladding diameter	: $125.0 \pm 1 \mu\text{m}$	
Core/cladding concentricity error	: $\leq 0.6 \mu\text{m}$	IEC/EN 60793-1-20
Cladding non-circularity	: $\leq 1.0\%$	IEC/EN 60793-1-20
Coating diameter	: $245 \pm 10 \mu\text{m}$	IEC/EN 60793-1-20
Coating/cladding concentricity error	: $\leq 12 \mu\text{m}$	IEC/EN 60793-1-20
Attenuation coefficient	: $1310\text{nm} \leq 0.36\text{dB/km}$	IEC/EN 60793-1-40
	: $1550\text{nm} \leq 0.22\text{dB/km}$	IEC/EN 60793-1-40
Zero dispersion slope	: $\leq 0.092\text{ps}/(\text{nm}^2 \cdot \text{km})$	
Zero dispersion wavelength	: $1302 \sim 1324\text{nm}$	
Polarization mode dispersion	: $\leq 0.20 \text{ ps}/\sqrt{\text{km}}$	
Mode field diameter	: $1310\text{nm} : 9.0 \pm 0.4 \mu\text{m}$	IEC/EN 60793-1-45
Cut-off wavelength ( $\lambda_c$ )	: $\leq 1260\text{nm}$	IEC/EN 60793-1-44
Chromatic dispersion	: $1288 \sim 1339\text{nm} \leq 3.4\text{ps}(\text{nm} \cdot \text{km})$	IEC/EN 60793-1-42
	: $1550\text{nm} \leq 18 \text{ ps}/(\text{nm} \cdot \text{km})$	IEC/EN 60793-1-42
	: $1625\text{nm} \leq 22 \text{ ps}/(\text{nm} \cdot \text{km})$	IEC/EN 60793-1-42

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## Environmental Specifications

Installing temperature	:	-40°C~+60°C
Operating temperature	:	-40°C~+70°C
Storage temperature	:	-40°C~+70°C

## Standard Compliances/Certifications

- RoHS Certified

## Ordering Information

Product Code	Description
55011-0048	High Link Optic Fiber, Multi-loose Tube Outdoor Direct Burial Cable, Gel filled, CSM FRP, Double Sheath Black Inner HDPE Outer HDPE, 48F, OS2.