



## OPTI-CORD Single mode Indoor/outdoor Optical Fiber Cable Loose Tubes 6,8,12,24-Core

OPTI-CORD provides high-strength optical fiber cables for use in various industrial, indoor, and outdoor applications. Offering unique properties and benefits for different types of use, our communications optical fiber cable products can easily meet complex application requirements and specifications. TMTGLOBAL optical fiber cable FTTH ,FTTX , indoor/outdoor SM/MM, OS1,OS2 ,OM1,OM2,OM3,OM4 is compliant with ISO/IEC and ANSI/TIA Standard.

### PHYSICAL DESCRIPTION

Products	Fiber optic cable single mode
Tube Filling Compound	Thixotropic jelly
Fiber Type	ITU-T G.657A1/A2,G.652D
Tube material	PBT ( Polybutylene Terephthalate)
Armour	Corrugated steel tape

### Packing Detail

Fiber Count	6,8,12,24,48,96,128
Tube Outer/Inner Diameter(mm)	3.0/2.0 ±
Cable Diameter(mm)	7.2*-12
Cable Weight(kg/km)	45±
Length/ Drum	2000 m Drum ±5%
Ripcord	Polyester cord
Outer Jacket	PE,MDPE, LSZH

### Mechanical and Environmental Properties

Physical tests	Value	Standard
Tensile Strength	2700 N (during Installation) 1700 N (during Operation)	IEC 60794-1-E1
Impact Resistance	10J, 3 impacts	IEC 60794-1-E4
Crush Resistance	220 N/cm	IEC 60794-1-E3
Temperature Cycling	-40 to +70 °C	IEC 60794-1-F1
Flame Retardancy	According to IEC 60332-3	IEC 60332-3
<b>Cable Bending Radius</b>		
Bend Radius (during installation)	20x cable diameter	IEC 60794-1-2-E11A
Bend Radius (during Service)	10x cable diameter	IEC 60794-1-E11
Repeating Bending	20x cable diameter	IEC 60794-1-E6
<b>Temperature Range)</b>		
Operation Temperature	-40 to +70 C	
Storage and Transportation Temperature	-40 to +70 C	IEC 60794-1-2-F1
Installation Temperature	-30 to +60 C	

### Optical Characteristics

Fiber type	ITU-T G.652D	ITU-T G.657/A1	ITU-T G.657/A2
Attenuation (max)	0.40 dB/km (1310 nm) 0.25 dB/km (1550 nm)	0.40 dB/km (1310 nm) 0.25 dB/km (1550 nm)	0.35 dB/km (1310 nm) 0.22 dB/km (1550 nm)
MFD	9.0±0.4 μm (1310 nm) 10.1±0.5 μm (1550 nm)	9.0±0.4 μm (1310 nm) 10.1±0.5 μm (1550 nm)	8.6 ± 0.4 μm (1310 nm)
Cladding diameter	125 ± 0.3 μm	125 ± 0.7 μm	125 ± 0.7 μm
Core/Clad Concentricity error	≤ 0.5 μm	≤ 0.5 μm	≤ 0.5 μm
Zero dispersion wavelength	1300nm ≤ 1324nm	1300nm ≤ 1324nm	1302nm ≤ 1322nm
Cladding non-circularity	≤ 0.7 %	≤ 0.7 %	1%
Coating diameter	245 ± 10 μm	242 ± 7 μm	240 ± 5 μm
Cut Off Wavelength	≤ 1260nm	≤ 1260nm	≤ 1260nm
Proof Test	≥ 1% (100kpsi or 0.7GPa)	≥ 1% (100kpsi or 0.7GPa)	≥ 1% (100kpsi or 0.7GPa)
Macro bending Attenuation : (10 turn on a 15 mm radius mandrel)		≤ 0.25 dB @1550 nm	≤ 0.5dB @1550 nm



**OPTI-CODE**

A SMART SOLUTION

**MULTI CORE  
INDOOR/OUTDOOR  
ARMOURED/ AERIAL  
FIBER CABLE SERIES**

