



TECHNICAL DATA SHEET

SINGLE MODE G.652.D CLT TYPE OPTICAL FIBER CABLE

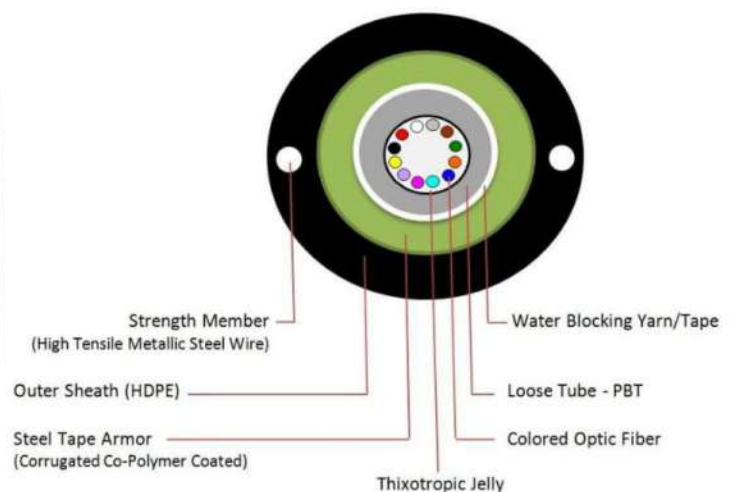
CLT (Central Loose Tube) Optical Fiber Cables. CLT Optical Fiber Cables are solution for High Performance Aerial Environments including Power Transmission and Distribution Networks, Robust Construction Reduces Installation Costs, by avoiding the need for expensive cable shielding and grounding.

Applications:

Aerial Installation - Lightning Protection - Junction Communication System, Subscriber Network System

Cable Constructions:

Loose Tube Filled With Gel - Dry Core - Water Blocking Material - Corrugated Steel Tape - Two Steel Strength Members - Polyethylene Outer Jacket



Technical Characteristics

- The unique extruding technology provides the fibers in the tube with good flexibility and bending endurance
- The unique fiber excess length control method provides the cable with excellent mechanical and environmental properties
- Provides good crush resistance

Features & Benefits

- Small Diameter
- Light Weight & Flexible
- Compatible for any telecommunication grade optical fiber

CONSTRUCTION PARAMETERS						
Fiber Type	ITU-T G.652D					
Fiber Count	2 Fiber	4 Fiber	6 Fiber	8 Fiber	12 Fiber	24 Fiber
Loose Tube Filling Material	Thixotropic Terephthalate (PBT)					
Strength Member	Phosphorus Coated Steel Wire (Placed longitudinally opposite to each other alongside loose tube)					
Armouring	Corrugated Steel Tape					
Outer Sheath Material	Medium/High Density Polyethylene (HDPE/MDPE)					
Outer Diameter *	7.5mm Nominal	7.5mm Nominal	7.5mm Nominal	7.5mm Nominal	7.5mm Nominal	8.5mm Nominal
Printing on Outer Sheath	Engraved Hot Foil Ink or Inkjet Printing					
Drum Length	2000m ± 5%					
<i>* Outer Diameter 9.5mm for CLT Type OFC also available upon request.</i>						

OPTICAL CHARACTERISTICS	
Single Mode Fiber	CORNING SMF-28e+ G.652D
Fiber Colour Coding	As per TIA/EIA-598A&C
Mode Field Diameter, μm	8.6 to 9.5 ± 0.7
Cladding Diameter, μm	125 ± 1
Core Clad Concentricity error, μm	≤ 0.8 μm
Cladding Non-Circularity, %	≤ 2 %
Cable Cut-off Wavelength, nm	≤ 1260 nm
Chromatic Dispersion (ps/nm.km)	≤ 3.5 @ 1310nm ≤ 18 @ 1550nm
Cabled Attenuation @ 1310 nm (dB/km)	≤ 0.35 (average)
Cabled Attenuation @ 1550 nm (dB/km)	≤ 0.21 (average)
Polarized Mode Dispersion (PMD) ps/√km	≤ 0.2

MECHANICAL CHARACTERISTICS	
Tensile Strength (N) (Max)	1000
Minimum Bending Radius	10 x outer without load
Diameter of cable (mm)	20 x outer with load
Crush Strength (N) (max)	500
Temperature Range	-20 °C to +70 °C