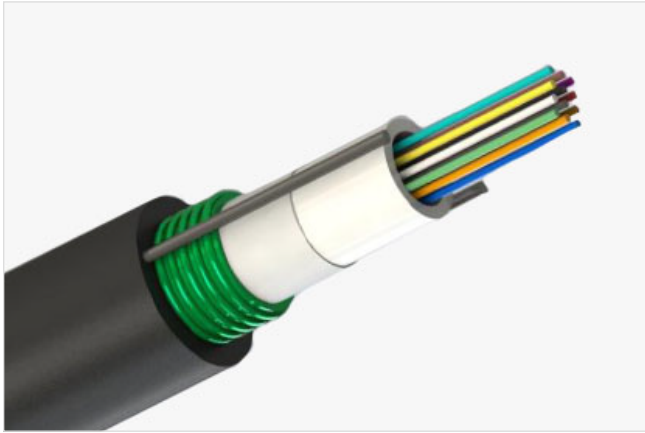


OFC – CLT



PTCL Cables offer CLT (Central Loose Tube) Optical Fiber Cables. CLT Optical Fiber Cables are the 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

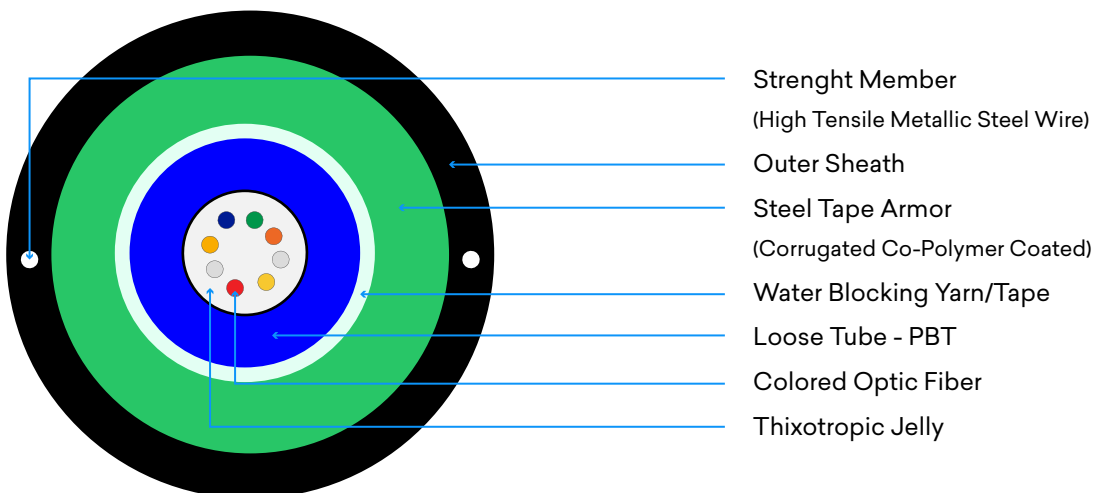
Cable Constructions:

- ♦ 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
- ♦ Multiple water blocking material filling provides dual water blocking function
- ♦ Provides good crush resistance

Diagram is for reference only



Construction Parameters

Fiber Type	ITU-T G.652D
Fiber Count	02 to 12 Fibers
Loose tube Filling Material	Thixotropic Terephthalate (PBT)
Strength Member	Phosphorus Coated Steel Wire (Placed longitudinally opposite to each other alongside loose tube)
Water Blocking	Water Swallable Yarn/Tape
Armouring	Corrugated Steel Tape
Outer Sheath Material	Medium/High Density Polyethylene (HDPE/MDPE)
Printing on Outer Sheath	Engraved Hot Foil Ink or Inkjet Printing
Drum Length	4000 Meters ± 5%

Optical Characteristics

Fiber Type	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

Temperature Range	
Operating	-10 °C to +70 °C
Installation	-10 °C to +70 °C
Storage & Transportation	-10 °C to +70 °C
Tensile Strength (N) (Max)	1000
Crush Strength (N) (max)	500
Crush Strength (N) (max)	10 x Cable Diameter (No load) 20 x Cable Diameter (Full load)

Features & Benefits

Small Diameter	Light Weight & Flexible
Aramid Yarn can be used to achieve High Tensile Strength and specification can be modified accordingly	