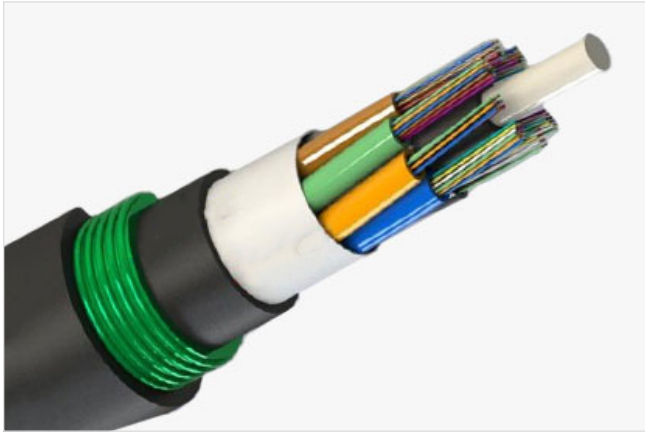


OFC – DIRECT BURIED



PTCL Cables offers Steel Tape Armored Optical Fiber Cables which has been popular cabling solution for Outside Plant Applications. Corrugated Steel Tape and a Robust Polyethylene Outer Jacket combine to deliver rugged durability and added rodent resistance. These cables are manufactured according to international standard and these cables fully conform to Pakistan Telecommunication Company Standard Specification TR-109 as applicable in Pakistan.

Applications:

- ◆ Direct Buried Installation - Data, Video, Voice Transmission - Rodent Resistant.

Cable Constructions:

- ◆ Loose Tube filled with Gel - Stranded around Central Strength Member - Water Blocking Material – Polyethylene Inner Sheath - Corrugated Steel Tape Armour and a Robust 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

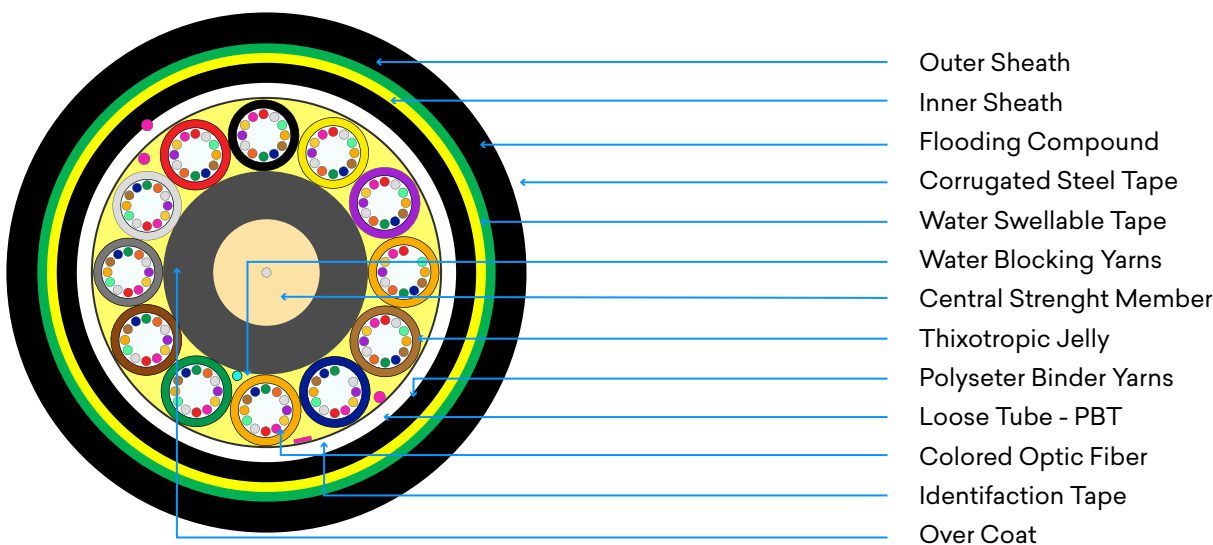


Diagram is for reference only

Construction Parameters

Fiber Type	ITU-T G.652D, G.655 & G.657
Fiber Count	02 to 144 Fibers
Loose tube Filling Material	Thixotropic Terephthalate (PBT)
Central Strength Member	Fiber/Glass Reinforced Plastic (FRP/GRP)
Peripheral Strength Member (if required)	Aramid /Glass yarn
Filler Material	Polyethylene
Core Moisture Protection Methodology	Dry Block Design, Water Blocking Yarns/Tapes
Armouring	Corrugated ECCS (Electro Chrome Coated 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 Meter & 6000 Meters \pm 5%

Optical Characteristics

Single Mode Fiber	CORNING® SMF-28e+ G.652D	CORNING® LEAF G.655	CORNING® G.657
Fiber Colour Coding	As per TIA/EIA-598A&C	As per TIA/EIA-598A&C	As per TIA/EIA-598A&C
Mode Field Diameter, μm	8.6 to 9.5 \pm 0.7	9.6 \pm 0.4	8.6 \pm 0.4 μm @1310nm
Cladding Diameter, μm	125 \pm 1	125 \pm 0.7	125 \pm 1 μm
Core Clad Concentricity error, μm	\leq 0.8 μm	\leq 0.5	\leq 0.6 μm
Cladding Non-Circularity, %	\leq 2 %	\leq 0.7 %	\leq 1 %
Cable Cut-off Wavelength, nm	\leq 1260 nm	\leq 1450 nm	\leq 1260 nm
Chromatic Dispersion (ps/nm.km)	\leq 3.5 @ 1310nm \leq 18 @ 1550nm	2.0 - 5.5 @1530nm 4.5 - 6.0 @1565nm 5.8 - 11.2 @1625nm	\leq 3.5 @ 1310 \leq 18 @ 1550
Cabled Attenuation @ 1310 nm (dB/km)	\leq 0.35 (average)	\leq 0.22 dB/km (Max.Avg)	\leq 0.4
Cabled Attenuation @ 1550 nm (dB/km)	\leq 0.21 (average)		\leq 0.3
Polarized Mode Dispersion (PMD) ps/ $\sqrt{\text{km}}$	\leq 0.2	\leq 0.2	\leq 0.2

Mechanical Characteristics

Tensile Strength (N) (Max)	3000
Minimum Bending Radius	10 x outer without load
Diameter of cable (mm)	20 x outer with load
Crush Strength (N) (max)	2500
Temperature Range	-20 °C to +70 °C

Features & Benefits

Supports all grades of single Mode & Multimode Fibers	Offers excellent Crust Resistance
Protects from rodent attached	

Note:

- ◆ Jelly Filled Cables option is also available for customers as per requirement
- ◆ Multimode Fiber OM1 (62.5 μm) & OM2 (50 μm) option is also available for customers as per requirement