

OFC – DROP FTTH-OUTDOOR



Fiber to the X (FTTX) comprises the many variants of fiber optic access infrastructure. These include fiber to the home (FTTH), fiber to the premise (FTTP), fiber to the building (FTTB), fiber to the node (FTTN), and fiber to the curb or cabinet (FTTC).

Fiber to the Home Technology provides an easy and the best solution for providing High Bandwidth and High Speed from Central Office to a different residence and corporate customers. FTTH Drop Cables are mainly used for the last mile applications within premises and from FDH/splitting units to customer premises outside of the buildings. It is manufactured according to international standard and these cables fully conform to PTCL Standard Specification TR-109 as applicable in Pakistan.

Applications:

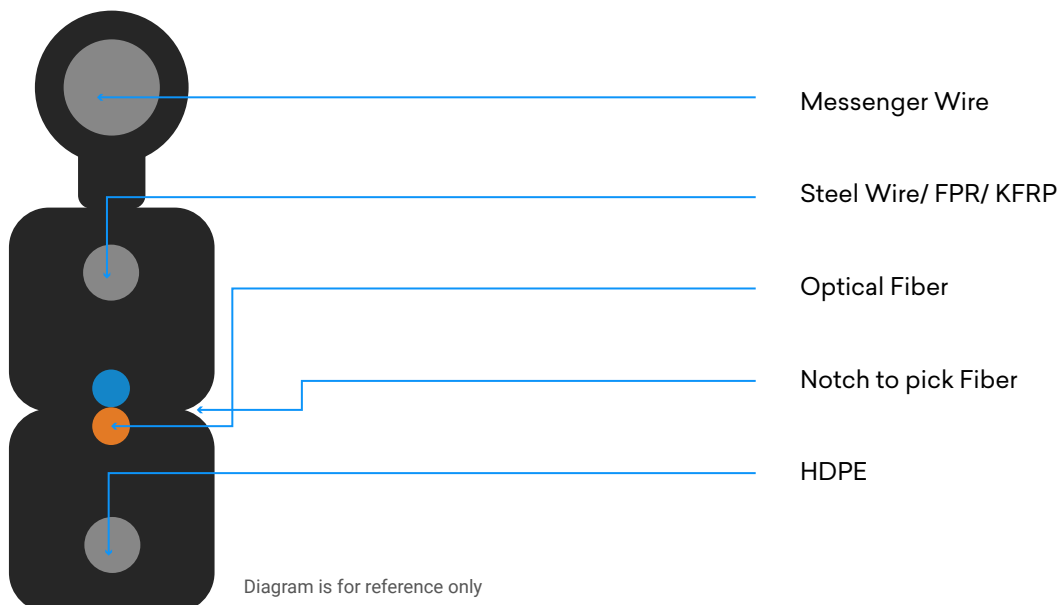
- ◆ The FTTH Drop Cables are designed for Outdoor Applications. These are mainly used for the last mile applications within premises and from FDH/splitting units to customer premises outside of the buildings.

Cable Constructions:

- ◆ The Single Mode Optical Fiber as per ITU-T G.657 fibers are placed in the center, Two Parallel Strength Members (FRP) are placed at the two sides, Zinc-Coated Steel Wire is placed at the top of cable for hanging purpose, the cable is then completed with LSZH sheath having a notch to tear the cable and expose the fibers.

Technical Characteristics:

- ◆ Low Weight
- ◆ Easy to install & joint
- ◆ Flame Retardant Low Smoke Zero Halogen (LSZH) Sheath



Construction Parameters

Fiber Type	ITU-T G.657
Fiber Count	01 or 02 Fibers
Fiber Count	FRP (Fiber Reinforced Plastic) 2 x Parallel Robust strength members of are placed at two sides to keep mechanical strength)
Outer Sheath (Material)	Low Smoke Zero Halogen (LSZH)
Outer Sheath (Color)	White/Black
Outer Diameter of Cable	2.0 ± 0.2mm * 3.0 ± 0.2mm (Nominal)
Outer Sheath Printing	Manufacturer Name, Year of manufacturing & Type of Cable shall be marked with 1 meter intervals and cable length in running meters
Cable Weight	18 kg/km (Maximum)
Packing	Suitable Strong Reel
Cutting Length	1000 Meter or 2000 Meter ± 5%

Optical Characteristics

Single Mode Fiber	CORNING® G.657
Fiber Colour Coding	As per TIA/EIA-598A&C
Mode Field Diameter, μm	8.6 ± 0.4 μm @1310nm
Cladding Diameter, μm	125±1μm
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 @ 1310 ≤ 18 @ 1550
Cabled Attenuation @ 1310 nm (dB/km)	≤ 0.4
Cabled Attenuation @ 1550 nm (dB/km)	≤ 0.3
Polarized Mode Dispersion (PMD) ps/√km	≤ 0.2

Mechanical Characteristics

Temperature Range	
Operating	-20 °C to +70 °C at 100% Humidity
Installation	-10 °C to +50 °C
Storage & Transportation	-20 °C to +70 °C
Tensile Strength (N) (Max)	> 500N
Crush Strength (N) (max)	500N/10cm
Cable Bending Test	30mm (Dynamic) 15mm (Static)

Features & Benefits

Light Weight & Soft	Flexible & Bend Insensitive
High Tensile Strength	Flame Retardant