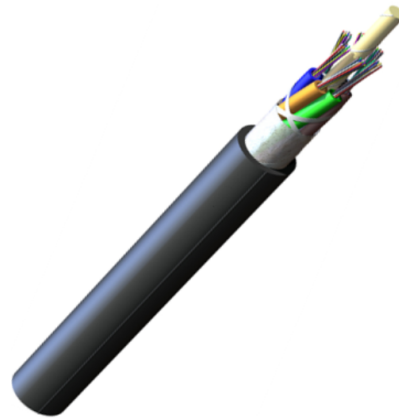


## Single Jacket



The cable's composition consists of several key components. A 250µm optical fiber is securely housed within a high modulus loose tube, further reinforced with a waterproof compound for with FRP (Fiber Reinforced Plastic) central core, providing structural stability.

To create a compact, rounded cable core, the loose tube and filler rope are carefully twisted around the central reinforcing core, ensuring the cable's shape and integrity.

Gaps within the cable core are diligently filled with a water-blocking filler, safeguarding the optical fibers from moisture.

Additionally, a longitudinally applied corrugated plastic-coated steel tape (PSP) enhances the cable's resistance to external forces and environmental conditions. The cable is sealed with a polyethylene sheath, adding further protection and insulation.

## Highlights:

- All-dielectric: Requires no grounding or bonding
- Key Components: 250µm optical fiber in a high modulus loose tube with waterproof reinforcement.
- Core Stability: Non-metallic FRP central core for structural stability.
- Compact Design: Twisted loose tube and filler rope maintain shape and integrity.
- Moisture Protection: Water-blocking filler safeguards optical fibers.

## Structure Design:

- Central strength member (CSM): FRP rod
- Fiber 12-288F ITU-T G652D (A1 & A2 Glass options are available)
- Loose tube containing fibers and filled with a suitable water tightness filling compound
- Longitudinal water tightness: dry core with water swellable yarns

## Specifications:

Fiber Count		12	24	48	72	96	144	288
Fiber counts per tube		6	6	12	12	12	12	12
Loose Tube	Counts	2	4	4	6	8	12	24
	Diameter (mm)	1.8	1.8	2.1	2.1	2.1	2.1	2.1
	Material	PBT						
	Water Blocking	Tube filling compound						
Central Strength Member	Material	FRP						
	Size (mm)	2.0	2.0	2.2	2.2	2.2	3.0	3.2
Outer Jacket	Material	HDPE, Black						
	Nominal Thickness (mm)	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Temperature Range	Operation	-30°C~+70°C						
	Installation	-20°C~+60°C						
	Storage	-10°C~+70°C						

## Optical Characteristics:

Attenuation Coefficient	@1310nm	≤ 0.35 dB/Km
	@1550nm	≤ 0.21 dB/Km

\*Full compliance with the ITU-T G.652D Standard

## Mechanical Characteristics:

- Minimum bending radius Static 10D and 15D Dynamic (D is the cable diameter in mm)

## Color:

- The individual fibers and loose tubes comply with the TIA/EIA-598-A Standard.