

## GYFTA FIBER OPTIC OUTDOOR CABLE

### Cable Description

GYFTA fiber optic cable is stranded loose tube structure, The cable tubes, which are filled with filling compound, are stranded around the FRP strength member. GYFTA cables with aluminum tape armored cables are suitable for installation for long haul communication and LANs, especially suitable for the situation of high requirements of moisture and crush resistance. The GYFTA fiber cable is available from 2C to 244C

### Optical Fiber

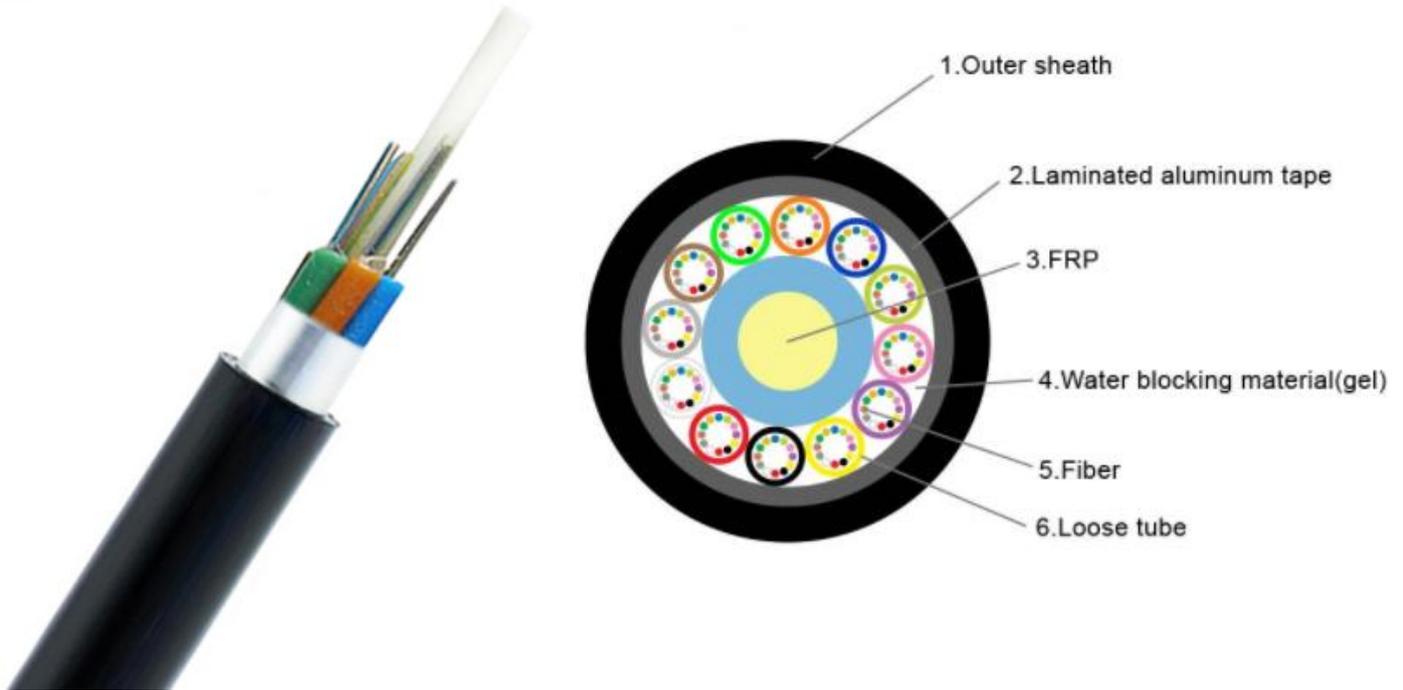
#### Optical fiber characteristics (G.652 FIBER)

ITEM		Construction
Mode field diameter	@ 1310nm	9.2±0.4μm
Cladding diameter		125±1μm
Core concentricity error		≤0.5μm
Cladding non-circularity		≤1.0%
Cut-off wavelength ( $\lambda_{cc}$ ) (for cable)		≤1260nm
Cut-off wavelength ( $\lambda_c$ ) (for fiber)		1180nm~1330nm
Primary coating diameter	(Not included color layer)	245±5μm
	(Included color layer)	245±10μm
Coating-cladding concentricity error		≤12.5μm
Fiber curl radius		≥4m

#### Transmission characteristics

Item		Performance
Attenuation	At 1310nm	≤0.36dB/km(max.)
	At 1383nm	≤0.35dB/km(max.)
	At 1550nm	≤0.22dB/km(max.)
Macro bending loss	Φ=60mm, 100turns at 1550nm	≤0.1dB
Chromatic dispersion	Within 1288~1339nm	≤3.5ps/nm·km
	At 1550nm	≤18ps/nm·km
Zero dispersion wavelength		1300~1324nm
Zero dispersion slope		≤0.090ps/nm <sup>2</sup> ·km
Cut off wavelength		≤1260nm

## Cable Structure



## Cable Characteristics

Item	Contents	Value				
		4~12	24	48	72	96
Loose Tube	No.of tubes*fibers per tube	1	2*12	4*12	6*12	8*12
	Outer Diameter(mm)	1.9	2			
Central Strength Member	Material	FRP				
	Diameter(mm)	0.8~1.2				
Moisture-proof	Material	Cable filling compound				
Aarmor	Material	Laminated aluminum tape				
Sheath	Thickness(mm)	Nominal:1.8				
Cable Diameter(mm)Approx		10.0~13.5				
Cable Weight(KG/KM)Approx		80~160				
Operating Temperature Range(°C)		-40~+70				
Tensile Strength Short/Long Term(N)		2000/600				
Crush Resistance Short/Long Term(N/100mm)		1000/300				

## PACKING AND DRUM

Our cables are packed in carton, coiled on Bakelite & wooden reel. During transportation, right tool should be used to avoid damaging the package, and handle carefully. Cables should be protected from moisture; Cables should be kept away from high temperature condition and spark; Cables should be protected from over bending and crushing; Cables should be protected from mechanical damage.



5.The color of marking is white.( At every meter, the outer sheath of the fiber cable shall be printed )

The inner end of cable is sealed with heat shrinkable end cap to prevent ingress of water and is made available for testing.

The outer end of cable is equipped with heat shrinkable end cap.

Outer sheath making can be changed according to user's requests.