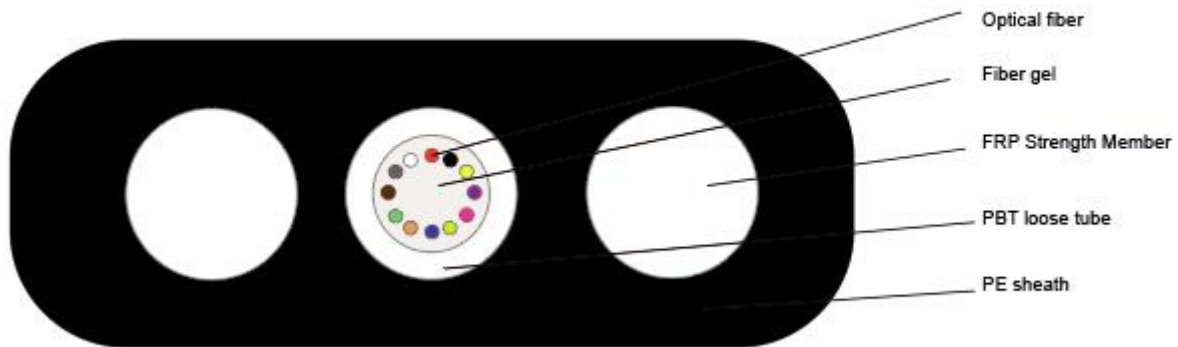

Specification FOR FLAT Outdoor Cable GY(F)XTY

1. Cable Construction

1.1 Cross Sectional Diagram



2. Technical Specification

Fiber Counts	1-12F
OD of Loose Tube (mm)	1.8 ± 0.1 mm
Max Fiber Counts/tube	12
NO. of Tube	1
FRP strength member	1.8 ± 0.1 mm
Outer Sheath Thickness	1.1 ± 0.1 mm
Outer Sheath Material	PE
OD of Cable	$4.5*8.0 \pm 0.3$ mm
Net weight (kg/km)	43
Tensile strength (N)	800
Operating temperature	- 40℃~+70℃
Store/Transport temperature	- 20℃~+70℃
Installation temperature	- 10℃~+60℃

3. Fiber and Loose buffer tube Identification

NO.	1	2	3	4	5	6	7	8	9	10	11	12
Tube Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
NO.	1	2	3	4	5	6	7	8	9	10	11	12
Fiber Color	Blue	Orange	Green	Brown	Grey	natural	Red	Black	Yellow	Violet	Pink	Aqua

	Test	-Impact energy: 10 J with striking surface radius of 300 mm -Impact point: ≥ 5 -Impact frequency: $\geq 3/\text{point}$	- No jacket cracking and fiber breakage
4	Repeated Bending	#Test method: IEC 60794-1-E6 -Mandrel diameter: 20 D (D = cable diameter) -Bent backwards and forwards through angles: 180° -Bending frequency: 25 times -Bending speed: 2s/time	- Attenuation increment@1550 nm: ≤ 0.1 dB - No jacket cracking and fiber breakage
5	Torsion Test	#Test method: IEC 60794-1-E7 -Length: 2 m -Tension : 50 N -Angle: ± 180 degree -Frequency: $\geq 10/\text{point}$	- Attenuation increment@1550 nm: ≤ 0.1 dB - No jacket cracking and fiber breakage
6	Water Penetration Test	#Test method: IEC 60794-1-F5B -Height of pressure head: 1 m -Length of specimen: 3 m -Test time: 24 hours	- No leakage through the open cable end
7	Temperature Cycling Test	#Test method: IEC 60794-1-F1 -Temperature steps: $+ 20^\circ\text{C}$ 、 $- 40^\circ\text{C}$ 、 $+ 70^\circ\text{C}$ 、 $+ 20^\circ\text{C}$ -Testing Time: 24 hours/step -Cycle index: 2	- Attenuation increment@1550 nm: ≤ 0.1 dB - No jacket cracking and fiber breakage
8	Drop Performance	#Test method: IEC 60794-1-E14 -Testing length: 30 cm -Temperature range: $70 \pm 2^\circ\text{C}$ -Testing Time: 24 hours	- No filling compound drop out

5.2 Fiber Optical Cable bending radius

Static bending: ≥ 12.5 times than cable out diameter

Dynamic bending: ≥ 25 times than cable out diameter.

6. Reference Standard

ITU-T G.657 : Characteristics of a single-mode optical fibre and cable

IEC 60794-4-2018--Optical fibre cables. Sectional specification. Aerial op.

7. Package and Mark

7.1 Package

Not allowed two length units of cable in one drum, two ends should be sealed, Two ends should be packed inside drum, reserve length of cable not less than 3 meters.

3km/roll Fumigated Wooden Drum

7.2 Mark

According to customer requirements