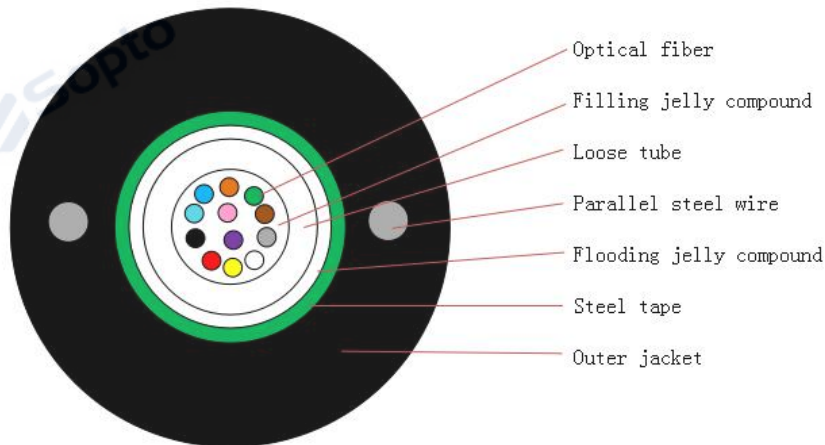


# GYXTW

## Cross Section of Cable



## Optical Fiber Type and Properties

Item		Unit	Specification
Fiber Type			G.652
Mode field diameter	1310nm	μm	9.2 ± 0.4
	1550nm	μm	10.4 ± 0.8
Cladding diameter		μm	125.0 ± 1
Cladding non-circularity		%	≤1.0
Core/cladding concentricity error		μm	≤0.5
Coating diameter		μm	242 ± 7
Coating/cladding concentricity error		μm	≤12
Cable cut-off wavelength		nm	≤ 1260
Attenuation Coefficient	1310nm	dB/km	≤0.36

	1550nm	dB/km	≤0.22
Proof stress level		kpsi	≥100

Note: Other parameters meet standard ITU-T G.652

## Dimensions of Cable Constructions

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	Wire diameter (mm)	Thickness of outer jacket(mm)	Cable diameter (mm)	Cable Weight (kg/km)
2	Central tube	2	2.4±0.1	1.0	2.3±0.1	8.3±0.5	72
4	Central tube	4	2.4±0.1	1.0	2.3±0.1	8.3±0.5	72
6	Central tube	6	2.4±0.1	1.0	2.3±0.1	8.3±0.5	72
8	Central tube	8	2.4±0.1	1.0	2.3±0.1	8.3±0.5	72
10	Central tube	10	2.4±0.1	1.0	2.3±0.1	8.3±0.5	72
12	Central tube	12	2.4±0.1	1.0	2.3±0.1	8.3±0.5	73

## Cable Performance

Item	Parameters	
Loose tube	Material	PBT
	Color	Natural color
Armoured	Material	Plastic coated Steel strip
Reinforced pieces	Material	Phosphating steel wire
Outer jacket	Material	MDPE
	Color	Black
Min. bending radius	Static	10 times cable diameter
	Dynamic	20 times cable diameter

Repeating bending	Load: 150N;number of cycles:30 No obvious addition attention, no fiber break and no cable damage.	
Tensile performance	Short term	1500N
Crush	Short term	1000N/100mm
Torsion	Load: 150N; number of cycles:10; twist angle:±180° No obvious addition attention, no fiber break and no cable damage.	
Impact	Impact energy: 450g×1m; radius of hammer head:12.5mm; number of impact: 5 No obvious addition attention, no fiber break and no cable damage.	

## Working Condition

Item	Standard	Parameters
Operation temperature	IEC 60794-1-2 F1	-20℃~+60℃
Water penetration	IEC 60794-1-2-F5	Water level: 1m ,sample: 3m, After 24h, no water ingress.

## Drum

Cable type	Drum		
	Height	Width	Inner diameter
GYXTW	800mm	760mm	400mm

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