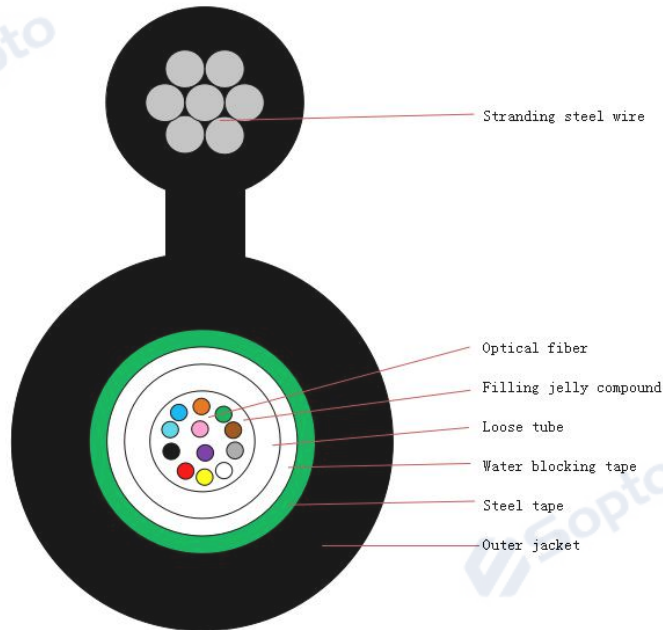


# GYXTC8S

## Cross Section of Cable



## Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.652
Mode field diameter	1310nm	$\mu\text{m}$ $9.2 \pm 0.4$
	1550nm	$\mu\text{m}$ $10.4 \pm 0.8$
Cladding diameter	$\mu\text{m}$	$125.0 \pm 1$
Cladding non-circularity	%	$\leq 1.0$
Core concentricity error	$\mu\text{m}$	$\leq 0.5$
Coating diameter	$\mu\text{m}$	$242 \pm 7$
Coating/cladding concentricity error	$\mu\text{m}$	$\leq 12$
Cable cut-off wavelength	nm	$\leq 1260$

Attenuation Coefficient	1310nm	dB/km	≤0.4
	1550nm	dB/km	≤0.3
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)	Thickness of outer jacket(mm)	Cable diameter/ Height (mm)	Cable Weight (kg/km)
12	Central tube	12	2.4±0.1	1.2±0.1	6.6 ±0.5/10.4 ±0.8	53

## Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Natural color
Messenger wire	Thickness	0.8±0.1mm
	Diameter	2.8±0.2mm
	Stranding steel wire	0.4mm*7
Armoured	Material	Plastic coated steel strip
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	400N
Crush	Short term	1000N/100mm The addition attention ≤0.1dB

## 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
GYXTC8S -12B1	700mm	760mm	350mm

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