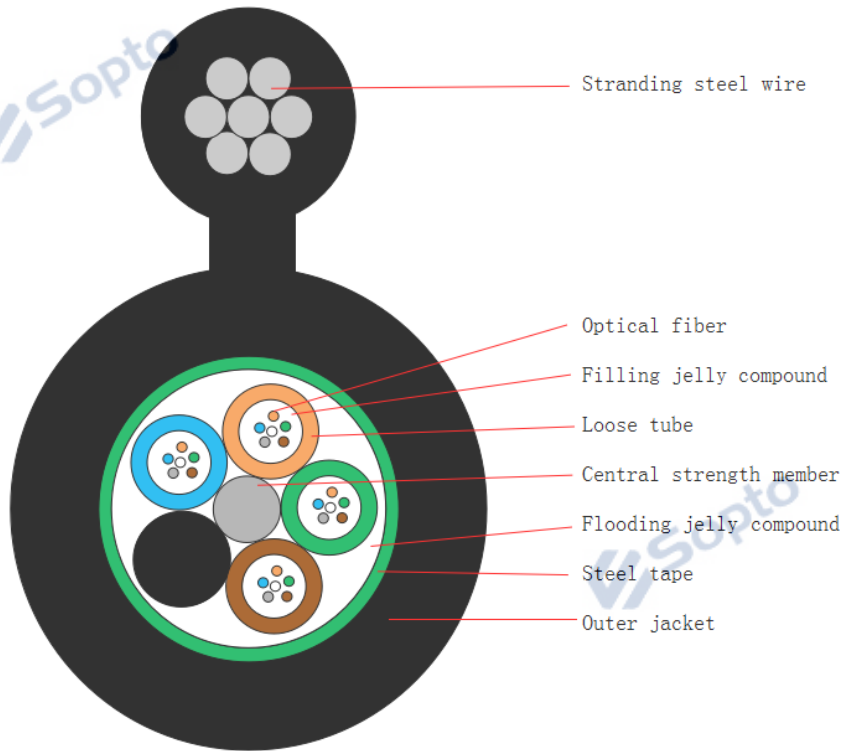


# GYTC8S

## 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/cladding concentricity error	$\mu\text{m}$	$\leq 0.5$
Coating diameter	$\mu\text{m}$	$242 \pm 7$

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)	CSM diameter /pad diameter(mm)	Thickness of outer jacket(mm)	Cable diameter/ Height (mm)	Cable Weight (kg/km)
4	1+5	4	1.7±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5/15.9 ±0.8	146
6	1+5	6	1.7±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5/15.9 ±0.8	146
8	1+5	4	1.7±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5/15.9 ±0.8	146
12	1+5	6	1.7±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5/15.9 ±0.8	146
24	1+5	6	1.7±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5/15.9 ±0.8	147
36	1+6	6	1.7±0.1	1.8/1.8	1.6±0.1	9.4 ±0.5/16.3 ±0.8	162
48	1+5	12	2.0±0.1	1.4/1.4	1.6±0.1	9.7 ±0.5/16.6 ±0.8	158

## Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	Phosphating steel wire
Messenger wire	Thickness	1.1 ±0.1mm
	Diameter	5.2 ±0.2mm

	Stranding steel wire	1.0mm*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	5000N
Crush	Short term	1000N/100mm
Torsion	Load: 150N; number of cycles:10; twist angle: $\pm 180^\circ$ 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°C ~ +60°C
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
GYTC8S	900mm	760mm	400mm

E-mail: [info@sopto.com.cn](mailto:info@sopto.com.cn)

Web : <http://www.sopto.com.cn>