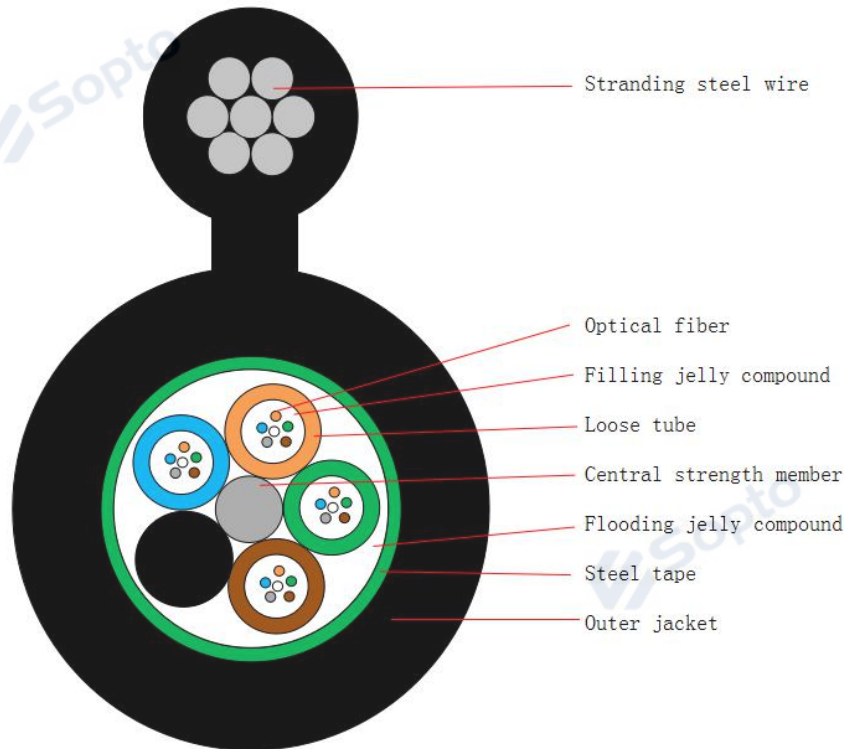


GYTC8S

Cross Section of Cable



Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.652
Mode field diameter	1310nm	9.2 ± 0.4
	1550nm	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)	CSM diameter /pad diameter(mm)	Thickness of outer jacket(mm)	Cable diameter/ Height (mm)	Cable Weight (kg/km)
4	1+5	4	1.7 \pm 0.1	1.4/1.4	1.6 \pm 0.1	9.0 \pm 0.5/15.9 \pm 0.8	146
6	1+5	6	1.7 \pm 0.1	1.4/1.4	1.6 \pm 0.1	9.0 \pm 0.5/15.9 \pm 0.8	146
8	1+5	4	1.7 \pm 0.1	1.4/1.4	1.6 \pm 0.1	9.0 \pm 0.5/15.9 \pm 0.8	146
12	1+5	6	1.7 \pm 0.1	1.4/1.4	1.6 \pm 0.1	9.0 \pm 0.5/15.9 \pm 0.8	146
24	1+5	6	1.7 \pm 0.1	1.4/1.4	1.6 \pm 0.1	9.0 \pm 0.5/15.9 \pm 0.8	147
36	1+6	6	1.7 \pm 0.1	1.8/1.8	1.6 \pm 0.1	9.4 \pm 0.5/16.3 \pm 0.8	162
48	1+5	12	2.0 \pm 0.1	1.4/1.4	1.6 \pm 0.1	9.7 \pm 0.5/16.6 \pm 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 \pm 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: ±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
GYTC8S	900mm	760mm	400mm

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 Serial number: 20170808-815