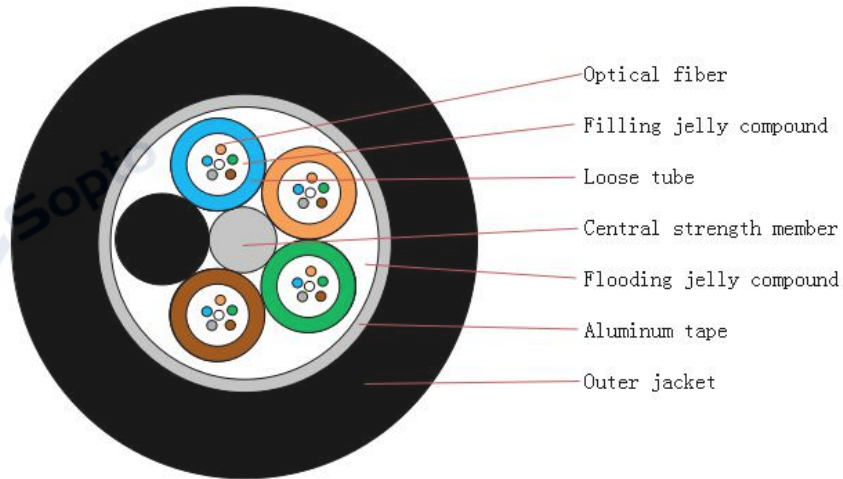


# GYTA

## 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	$\mu\text{m}$	$\leq 12$
Cable cut-off wavelength	nm	$\leq 1260$
Attenuation Coefficient	1310nm	dB/km $\leq 0.36$
	1550nm	dB/km $\leq 0.22$
Proof stress level	kpsi	$\geq 100$

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 (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	73
6	1+5	6	1.7 ±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5	73
8	1+5	4	1.7 ±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5	73
12	1+5	6	1.7 ±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5	74
18	1+5	6	1.7 ±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5	74
24	1+5	6	1.7 ±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5	74
30	1+5	6	1.7 ±0.1	1.4/1.4	1.6±0.1	9.0 ±0.5	75
36	1+6	6	1.7 ±0.1	1.8/1.8	1.6±0.1	9.4 ±0.5	88
48	1+5	12	2.0 ±0.1	1.4/1.4	1.6±0.1	9.7 ±0.5	84
60	1+5	12	2.0 ±0.1	1.4/1.4	1.6±0.1	9.7 ±0.5	85
72	1+6	12	2.0 ±0.1	2.0/2.0	1.6±0.1	10.4 ±0.5	109
84	1+7	12	2.0 ±0.1	1.8/2.9	1.6±0.1	11.3 ±0.5	120
96	1+8	12	2.0 ±0.1	1.8/3.5	1.6±0.1	12.0 ±0.5	132
108	1+9	12	2.0 ±0.1	1.8/4.2	1.6±0.1	12.7 ±0.5	146
120	1+10	12	2.0 ±0.1	1.8/4.9	1.6±0.1	13.4 ±0.5	160
132	1+11	12	2.0 ±0.1	1.8/5.5	1.6±0.1	14.0 ±0.5	173
144	1+12	12	2.0 ±0.1	1.8/6.3	1.6±0.1	14.8 ±0.5	190
192	1+6+12	12	2.0 ±0.1	2.2/2.2	1.6±0.1	14.7 ±0.5	202
216	1+6+12	12	2.0 ±0.1	2.2/2.2	1.6±0.1	14.7 ±0.5	203
288	1+9+15	12	2.0 ±0.1	2.2/4.2	1.6±0.1	16.7 ±0.5	257

## Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	Phosphating steel wire
Armoured	Material	Plastic coated aluminum 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	1500N
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 $\times$ 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 $^\circ$ C $\sim$ +60 $^\circ$ C
Water penetration	IEC 60794-1-2-F5	Water level: 1m ,sample: 3m, After 24h, no water ingress.

## Drum

Cable type	Drum
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	Height	Width	Inner diameter
GYTA - 4B1	750mm	760mm	350mm
GYTA - 6B1	750mm	760mm	350mm
GYTA - 8B1	750mm	760mm	350mm
GYTA - 12B1	750mm	760mm	350mm
GYTA - 18B1	750mm	760mm	350mm
GYTA - 24B1	750mm	760mm	350mm
GYTA - 30B1	750mm	760mm	350mm
GYTA - 36B1	800mm	760mm	400mm
GYTA - 48B1	800mm	760mm	400mm
GYTA - 60B1	800mm	760mm	400mm
GYTA - 72B1	850mm	760mm	400mm
GYTA - 84B1	900mm	760mm	400mm
GYTA - 96B1	950mm	760mm	400mm
GYTA - 108B1	950mm	760mm	400mm
GYTA - 120B1	1000mm	760mm	400mm
GYTA - 132B1	1100mm	760mm	400mm
GYTA - 144B1	1100mm	760mm	400mm
GYTA - 192B1	1100mm	760mm	400mm
GYTA - 216B1	1100mm	760mm	400mm
GYTA - 288B1	1250mm	760mm	500mm

Designer: Wang Yingli 2017/08/20  
 Approver: Zhang Honglei 2017/08/20  
 Serial number: 20170808-815

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

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