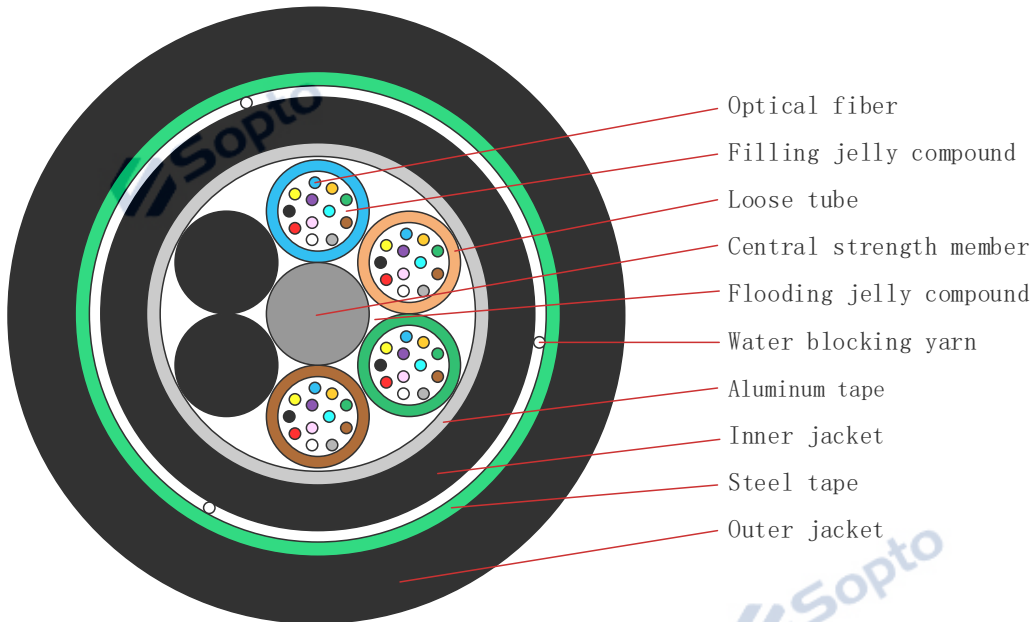


# GYTA53

## 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	≤0.22
Proof stress level		kpsi	≥100

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

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter /pad diameter (mm)	Thickness of inner jacket (mm)	Thickness of outer jacket (mm)	Cable diameter (mm)	Cable Weight (kg/km)
4	1+6	4	1.7±0.1	1.8 /1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	164
6	1+6	6	1.7±0.1	1.8 /1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	164
8	1+6	4	1.7±0.1	1.8 /1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	164
12	1+6	6	1.7±0.1	1.8 /1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	164
18	1+6	6	1.7±0.1	1.8 /1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	165
24	1+6	6	1.7±0.1	1.8 /1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	165
30	1+6	6	1.7±0.1	1.8/1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	166
36	1+6	6	1.7±0.1	1.8 /1.8	0.9±0.1	1.8±0.1	12.8 ±0.5	166
48	1+6	12	2.0±0.1	2.0/2.0	0.9±0.1	1.8±0.1	13.8 ±0.5	191
60	1+6	12	2.0±0.1	2.0/2.0	0.9±0.1	1.8±0.1	13.8 ±0.5	191
72	1+6	12	2.0±0.1	2.0/2.0	0.9±0.1	1.8±0.1	13.8 ±0.5	192
84	1+7	12	2.0±0.1	2.2/2.9	0.9±0.1	1.8±0.1	14.7 ±0.5	218
96	1+8	12	2.0±0.1	2.2/3.5	0.9±0.1	1.8±0.1	15.4 ±0.5	234
108	1+9	12	2.0±0.1	2.2/4.2	0.9±0.1	1.8±0.1	16.1 ±0.5	253
120	1+10	12	2.0±0.1	2.2/4.9	0.9±0.1	1.8±0.1	16.8 ±0.5	272
132	1+11	12	2.0±0.1	2.4/5.5	0.9±0.1	1.8±0.1	17.4 ±0.5	293
144	1+12	12	2.0±0.1	2.4/6.3	0.9±0.1	1.8±0.1	18.2 ±0.5	317
288	1+9+15	12	2.0±0.1	2.2/4.2	0.9±0.1	1.8±0.1	20.1 ±0.5	383



## Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	Phosphating steel wire
Inner armoured	Material	Plastic coated aluminum strip
Inner jacket	Material	MDPE
	Color	Black
Outer armoured	Material	Plastic coated steel strip
Outer jacket	Material	MDPE
	Color	Black
Min. bending radius	Static	12.5 times cable diameter
	Dynamic	25 times cable diameter
Repeating bending	Load: 250N; number of cycles:30 No obvious addition attention, no fiber break and no cable damage.	
Tensile performance	Short term	3000N
Crush	Short term	3000N/100mm
Torsion	Load: 250N; number of cycles:10; twist angle: $\pm 180^\circ$ 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.



Cable type	Drum				
	Height (mm)	Width (mm)	Inner diameter (mm)	Length (km)	Drum type
GYTA53-4B1	950	760	400	2	Plywood wood drum
GYTA53-6B1	950	760	400	2	Plywood wood drum
GYTA53-8B1	950	760	400	2	Plywood wood drum
GYTA53-12B1	950	760	400	2	Plywood wood drum
GYTA53-18B1	950	760	400	2	Plywood wood drum
GYTA53-24B1	950	760	400	2	Plywood wood drum
GYTA53-30B1	950	760	400	2	Plywood wood drum
GYTA53-36B1	950	760	400	2	Plywood wood drum
GYTA53-48B1	1100	760	500	2	Iron wood drum
GYTA53-60B1	1100	760	500	2	Iron wood drum
GYTA53-72B1	1100	760	500	2	Iron wood drum
GYTA53-84B1	1150	760	450	2	Iron wood drum
GYTA53-96B1	1200	760	500	2	Iron wood drum
GYTA53-108B1	1250	760	500	2	Iron wood drum
GYTA53-120B1	1300	760	500	2	Iron wood drum
GYTA53-132B1	1400	760	650	2	Iron wood drum
GYTA53-144B1	1400	1000	650	2	Iron wood drum
GYTA53-288B1	1400	1000	650	2	Iron wood drum

E-mail: [info@sopto.com.cn](mailto:info@sopto.com.cn)Web : <http://www.sopto.com.cn>

