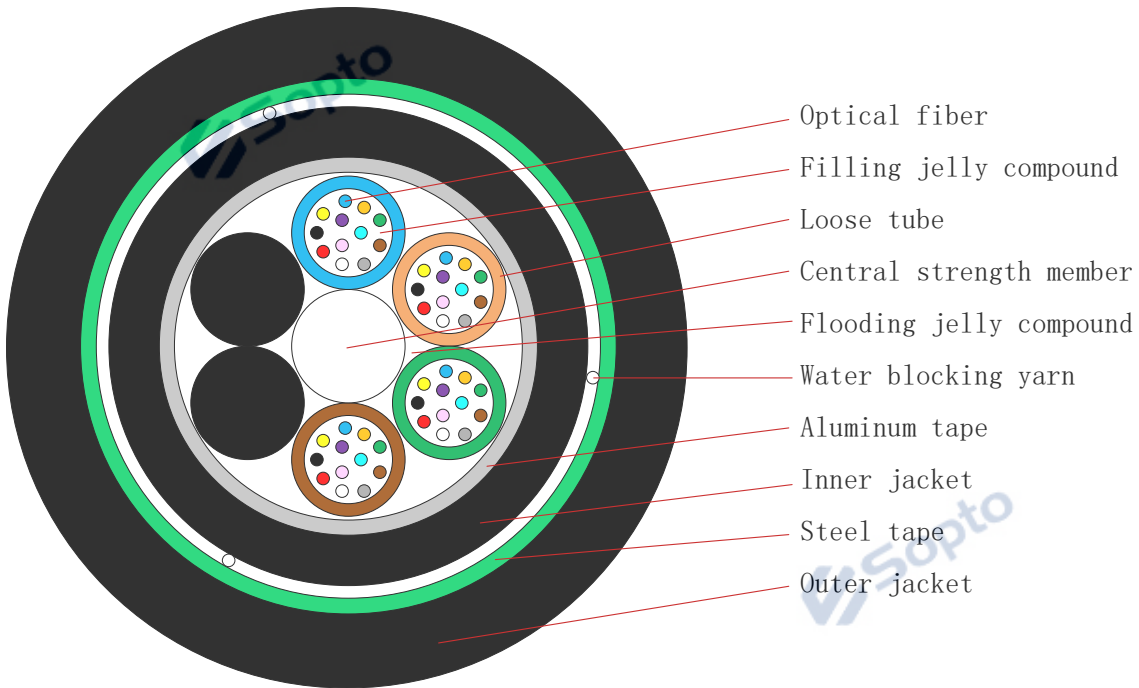


GYFTA53

Cross Section of Cable



Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.652
Mode field diameter	1310nm	9.2 ± 0.4 μm
	1550nm	10.4 ± 0.8 μm
Cladding diameter	μm	125.0 ± 1
Cladding non-circularity	%	≤ 1.0
Core 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 inner jacket (mm)	Thickness of outer jacket (mm)	Cable diameter (mm)	Cable Weight (kg/km)
4	1+6	4	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	191
6	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	191
8	1+6	4	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	191
12	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	192
18	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	192
24	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	192
30	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	192
36	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.4±0.5	192
48	1+6	12	2.5±0.1	2.6/2.6	0.9±0.1	1.6±0.1	15.0±0.5	205
60	1+6	12	2.5±0.1	2.6/2.6	0.9±0.1	1.6±0.1	15.0±0.5	207
72	1+6	12	2.5±0.1	2.6/2.6	0.9±0.1	1.6±0.1	15.0±0.5	208
84	1+7	12	2.5±0.1	2.6/3.5	0.9±0.1	1.6±0.1	15.9±0.5	231
96	1+8	12	2.5±0.1	3.0/4.3	0.9±0.1	1.6±0.1	16.8±0.5	257
108	1+9	12	2.5±0.1	3.0/5.1	0.9±0.1	1.6±0.1	17.6±0.5	279
120	1+10	12	2.5±0.1	3.0/5.9	0.9±0.1	1.6±0.1	18.4±0.5	303
132	1+11	12	2.5±0.1	3.0/6.6	0.9±0.1	1.6±0.1	19.1±0.5	324
144	1+12	12	2.5±0.1	3.0/7.5	0.9±0.1	1.6±0.1	20.0±0.5	353



Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	FRP
Inner armoured	Material	Plastic coated aluminum strip
Inner jacket	Material	HDPE
	Color	Black
Outer armoured	Material	Plastic coated steel tape
Outer jacket	Material	HDPE
	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℃~+60℃
Water penetration	IEC 60794-1-2-F5	Water level: 1m ,sample: 3m, After 24h, no water ingress.



Drum

Cable type	Drum				
	Height (mm)	Width (mm)	Inner diameter (mm)	Length (km)	Drum type
GYFTA53-4B1	1150	760	450	2	Iron wood drum
GYFTA53-6B1	1150	760	450	2	Iron wood drum
GYFTA53-8B1	1150	760	450	2	Iron wood drum
GYFTA53-12B1	1150	760	450	2	Iron wood drum
GYFTA53-18B1	1150	760	450	2	Iron wood drum
GYFTA53-24B1	1150	760	450	2	Iron wood drum
GYFTA53-30B1	1150	760	450	2	Iron wood drum
GYFTA53-36B1	1150	760	450	2	Iron wood drum
GYFTA53-48B1	1150	760	450	2	Iron wood drum
GYFTA53-60B1	1150	760	450	2	Iron wood drum
GYFTA53-72B1	1150	760	450	2	Iron wood drum
GYFTA53-84B1	1250	760	500	2	Iron wood drum
GYFTA53-96B1	1300	760	500	2	Iron wood drum
GYFTA53-108B1	1400	760	650	2	Iron wood drum
GYFTA53-120B1	1400	1000	650	2	Iron wood drum
GYFTA53-132B1	1400	1000	650	2	Iron wood drum
GYFTA53-144B1	1400	1000	650	2	Iron wood drum

E-mail: info@sopto.com.cn

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