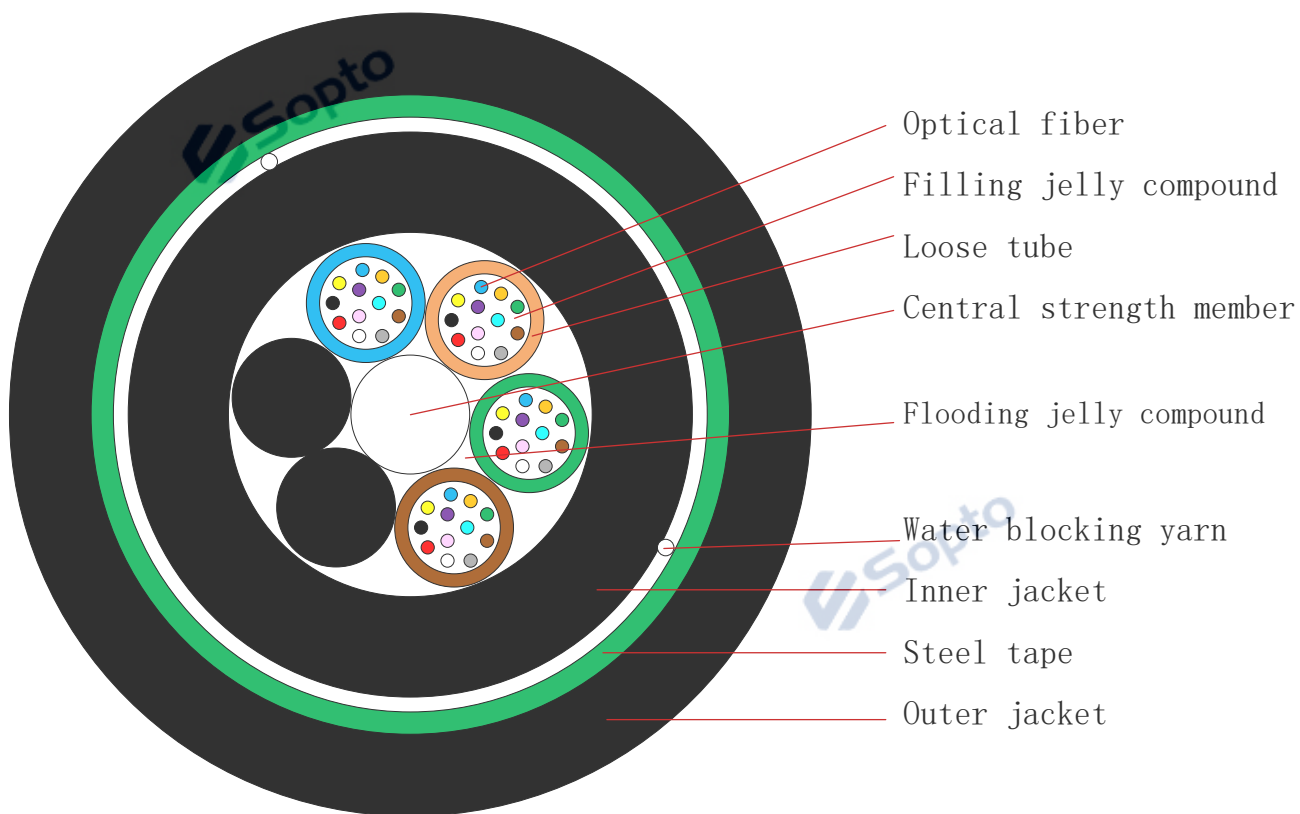


GYFTY53

Cross Section of Cable



Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.652
Mode field diameter	1310nm	μm 9.2 ± 0.4
	1550nm	μm 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 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	13.6±0.5	168
6	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	13.6±0.5	168
8	1+6	4	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	13.6±0.5	168
12	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	13.6±0.5	168
18	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	13.6±0.5	168
24	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	13.6±0.5	169
30	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	13.6±0.5	169
36	1+6	6	2.2±0.1	2.6/2.6	0.9±0.1	1.6±0.1	13.6±0.5	169
48	1+6	12	2.5±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.2±0.5	181
60	1+6	12	2.5±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.2±0.5	182
72	1+6	12	2.5±0.1	2.6/2.6	0.9±0.1	1.6±0.1	14.2±0.5	184
84	1+7	12	2.5±0.1	2.6/3.5	0.9±0.1	1.6±0.1	15.1±0.5	205
96	1+8	12	2.5±0.1	3.0/4.3	0.9±0.1	1.6±0.1	15.9±0.5	228
108	1+9	12	2.5±0.1	3.0/5.1	0.9±0.1	1.6±0.1	16.7±0.5	250
120	1+10	12	2.5±0.1	3.0/5.9	0.9±0.1	1.6±0.1	17.5±0.5	272



132	1+11	12	2.5±0.1	3.0/6.6	0.9±0.1	1.6±0.1	18.2±0.5	292
144	1+12	12	2.5±0.1	3.0/7.5	0.9±0.1	1.6±0.1	19.1±0.5	320

Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	FRP
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:±180° 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.
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Drum

Cable type	Drum				
	Height (mm)	Width (mm)	Inner diameter (mm)	Length (km)	Drum type
GYFTY53-4B1	1100	760	500	2	Iron wood drum
GYFTY53-6B1	1100	760	500	2	Iron wood drum
GYFTY53-8B1	1100	760	500	2	Iron wood drum
GYFTY53-12B1	1100	760	500	2	Iron wood drum
GYFTY53-18B1	1100	760	500	2	Iron wood drum
GYFTY53-24B1	1100	760	500	2	Iron wood drum
GYFTY53-30B1	1100	760	500	2	Iron wood drum
GYFTY53-36B1	1100	760	500	2	Iron wood drum
GYFTY53-48B1	1150	760	450	2	Iron wood drum
GYFTY53-60B1	1150	760	450	2	Iron wood drum
GYFTY53-72B1	1150	760	450	2	Iron wood drum
GYFTY53-84B1	1200	760	500	2	Iron wood drum
GYFTY53-96B1	1250	760	500	2	Iron wood drum
GYFTY53-108B1	1250	760	500	2	Iron wood drum
GYFTY53-120B1	1400	760	650	2	Iron wood drum
GYFTY53-132B1	1400	1000	650	2	Iron wood drum
GYFTY53-144B1	1400	1000	650	2	Iron wood drum

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