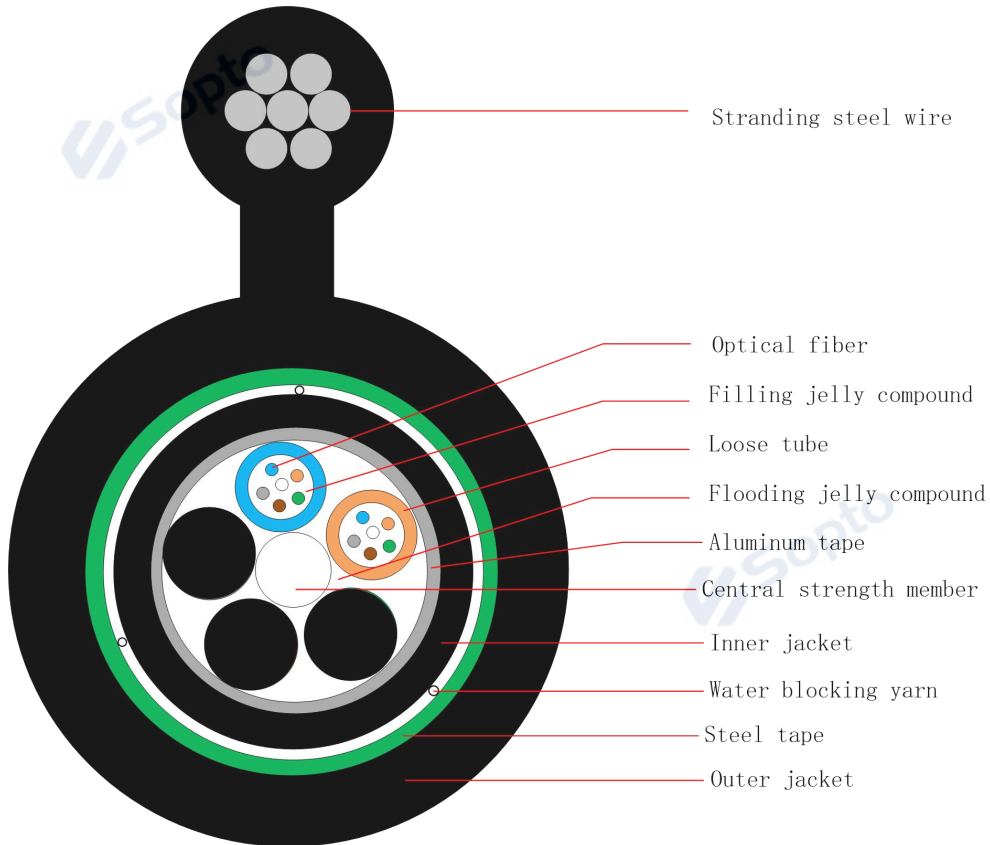


GYFTC8A53

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/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/ Height (mm)	Cable Weight (kg/km)
4	1+5	4	1.7 ± 0.1	1.5/1.5	1.0 ± 0.1	1.7 ± 0.1	$12.5 \pm 0.5 / 19.5 \pm 0.8$	205
6	1+5	6	1.7 ± 0.1	1.5/1.5	1.0 ± 0.1	1.7 ± 0.1	$12.5 \pm 0.5 / 19.5 \pm 0.8$	205
8	1+5	4	1.7 ± 0.1	1.5/1.5	1.0 ± 0.1	1.7 ± 0.1	$12.5 \pm 0.5 / 19.5 \pm 0.8$	205
12	1+5	6	1.7 ± 0.1	1.5/1.5	1.0 ± 0.1	1.7 ± 0.1	$12.5 \pm 0.5 / 19.5 \pm 0.8$	205
24	1+5	6	1.7 ± 0.1	1.5/1.5	1.0 ± 0.1	1.7 ± 0.1	$12.5 \pm 0.5 / 19.5 \pm 0.8$	206
36	1+6	6	1.7 ± 0.1	1.8/1.8	1.0 ± 0.1	1.7 ± 0.1	$12.8 \pm 0.5 / 19.8 \pm 0.8$	215
48	1+5	12	2.0 ± 0.1	1.5/1.5	1.0 ± 0.1	1.7 ± 0.1	$13.2 \pm 0.5 / 20.2 \pm 1.0$	222
72	1+6	12	2.0 ± 0.1	2.0/2.0	1.0 ± 0.1	1.7 ± 0.1	$13.8 \pm 0.5 / 20.9 \pm 1.0$	239
96	1+8	12	2.0 ± 0.1	2.6/3.5	1.0 ± 0.1	1.7 ± 0.1	$15.4 \pm 0.5 / 22.5 \pm 1.0$	280



Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	FRP
Messenger wire	Thickness	$1.0 \pm 0.1 \text{ mm}$
	Diameter	$5.0 \pm 0.2 \text{ mm}$
	Stranding steel wire	1.0mm*7
Inner armoured	Material	Plastic coated aluminum strip
Inner jacket	Material	HDPE
	Color	Black
Outer armoured	Material	Plastic coated steel strip
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
GYFTC8A53-4B1	1150	760	450	2	Iron wood tray
GYFTC8A53-6B1	1150	760	450	2	Iron wood tray
GYFTC8A53-8B1	1150	760	450	2	Iron wood tray
GYFTC8A53-12B1	1150	760	450	2	Iron wood tray
GYFTC8A53-24B1	1150	760	450	2	Iron wood tray
GYFTC8A53-36B1	1150	760	450	2	Iron wood tray
GYFTC8A53-48B1	1200	760	500	2	Iron wood tray
GYFTC8A53-72B1	1250	760	500	2	Iron wood tray
GYFTC8A53-96B1	1350	760	500	2	Iron wood tray

Designer: Wang Yingli 2018/02/12

Approver: Yu Wenshuang 2018/02/12

Serial number: 20170808-815