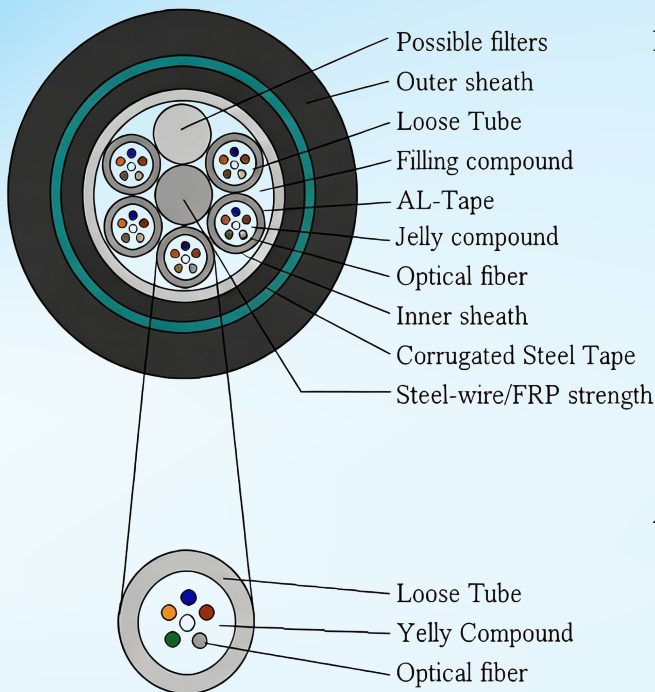


Cable Specification

Optical cable type:GYTA53

Cross section of cable:



Description

- Loose tube style, Gel-filled, layer-stranded.
- optical fiber cable with metallic/non-metallic, central strength member of steal wire/FRP
- Filling compound and inner sheath With aluminum tape proteted cable core
- Double-sided FE corrugated steel taper PE outer sheath.
- Tve-layer sheath for excellent crush-resistant performance
- Good mechanical&environmental performance and moisture-resistance

Application

- Suitable for direct buried, ducts and aerial.
- Long distance communication system
- Local area network system
- Subscriber network system

Optical fiber type and properties:

Item	Unit	Specification	
		G. 652D	
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	

ITU-T G.652D (Other parameters meet standard ITU-T)



Dimensions of cable constructions:

Optical fiber number	4	6	8	12	24	36	48	72	96	144
(Optical fiber type)	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
(Core structure)	1+5	1+5	1+5	1+5	1+5	1+5	1+5	1+6	1+8	1+12
(The casing diameter) mm±0.1	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.1
(Each tube number)	4	6	4	6	6	12	12	12	12	12
(diameter of) mm±0.5	12	12	12	12	12	13.0	13.5	14.0	14.5	18.5
(Unit weight) kg/km±10	160	160	160	160	160	170	180	210	265	340
(Outer sheath thickness) mm±0.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
(Inner sheath thickness) mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
(The wire diameter)mm	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0
(Loose casing wall thickness) mm	0.3	0.3	0.3	0.3	0.3	0.3	0.35	0.35	0.35	0.35

Cable performance:

Item	Parameters	
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PP
	Color	Gray
Outer sheath	material	MDPE
	Color	Black
Within the sheath	material	MDPE
	Color	Black
CSM	Material	Phosphating steel wire
The armor inside	Material	Corrugated aluminium strip
The armor on the outside	Material	Corrugated steel belt
Min.bending radius	Static	10.0 times cable diameter
	Dynamic	20 times cable diameter
Tensile performance	Short term	3000N
Fattening	Short term	1000N/100mm

Environmental performance

Item	Standard	Parameters
Operation temperature	IEC 60794-1-2 F1	-20℃ ~ +60℃

Drum:

Optical fiber number	Height (mm)	Width (mm)	Length(m)	Drum type
4-24	1100	750	3000	Wooden plate
36-48	1200	750	3000	Wooden plate
72-96	1300	750	3000	Wooden plate
144	1400	100	2000	Wooden plate