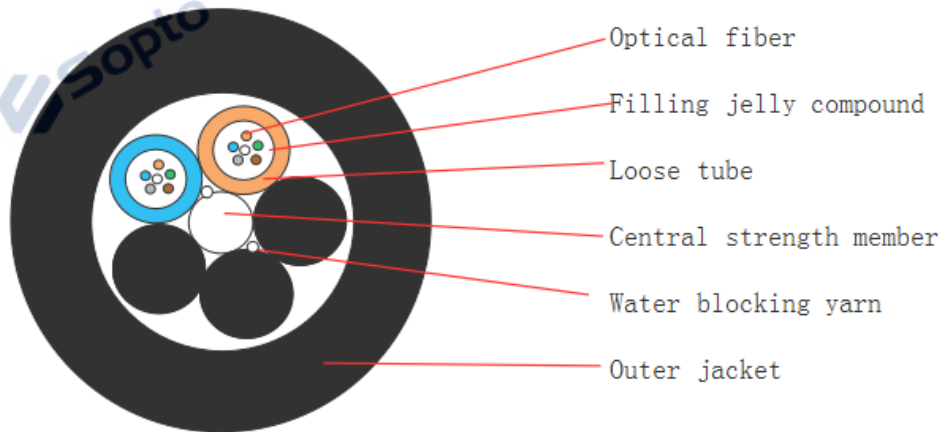


# GCFYFY

## Cross Section of Cable



## Optical Fiber Type and Properties

Item		Unit	Specification
Fiber Type			G.657A1
Mode field diameter	1310nm	μm	8.6-9.5 ± 0.4
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤1.0
Core/cladding concentricity error		μm	≤0.5
Coating diameter		μm	245 ± 5
Coating/cladding concentricity error		μm	≤12
Cable cut-off wavelength		nm	≤ 1260
Attenuation Coefficient	1310nm	dB/km	≤0.36
	1550nm	dB/km	≤0.22
Macro-bend loss (1 turn, 10mm radius)	1550nm	dB/km	≤0.75

	1625nm	dB/km	≤1.5
Proof stress level		kpsi	≥100

Note: Other parameters meet standard ITU-T G.657

## Dimensions of Cable Constructions

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter /pad diameter(mm)	Thickness of outer jacket(mm)	Cable diameter (mm)	Cable Weight (kg/km)
4	1+5	4	1.4±0.05	1.2/1.2	0.55±0.05	5.1 ±0.5	20
12	1+5	6	1.4±0.05	1.2/1.2	0.55±0.05	5.1 ±0.5	20
24	1+5	6	1.4±0.05	1.2/1.2	0.55±0.05	5.1 ±0.5	21
48	1+5	12	1.6±0.05	1.2/1.2	0.55±0.05	5.5 ±0.5	25
96	1+8	12	1.6±0.05	2.0/2.9	0.55±0.05	7.2 ±0.5	44
144	1+12	12	1.6±0.05	2.0/4.9	0.55±0.05	9.2 ±0.5	70

## Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	FRP
Outer jacket	Material	HDPE
	Color	Black
Min. bending radius	Static	10 times cable diameter
	Dynamic	20 times cable diameter
Tensile performance	Short term	0.5G

Crush	Short term	450N/100mm
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## 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	Width	Inner diameter
GCYFY -4B6a1	600mm	760mm	350mm
GCYFY -12B6a1	600mm	760mm	350mm
GCYFY -24B6a1	600mm	760mm	350mm
GCYFY -48B6a1	600mm	760mm	350mm
GCYFY -96B6a1	650mm	760mm	350mm
GCYFY -144B6a1	750mm	760mm	350mm

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