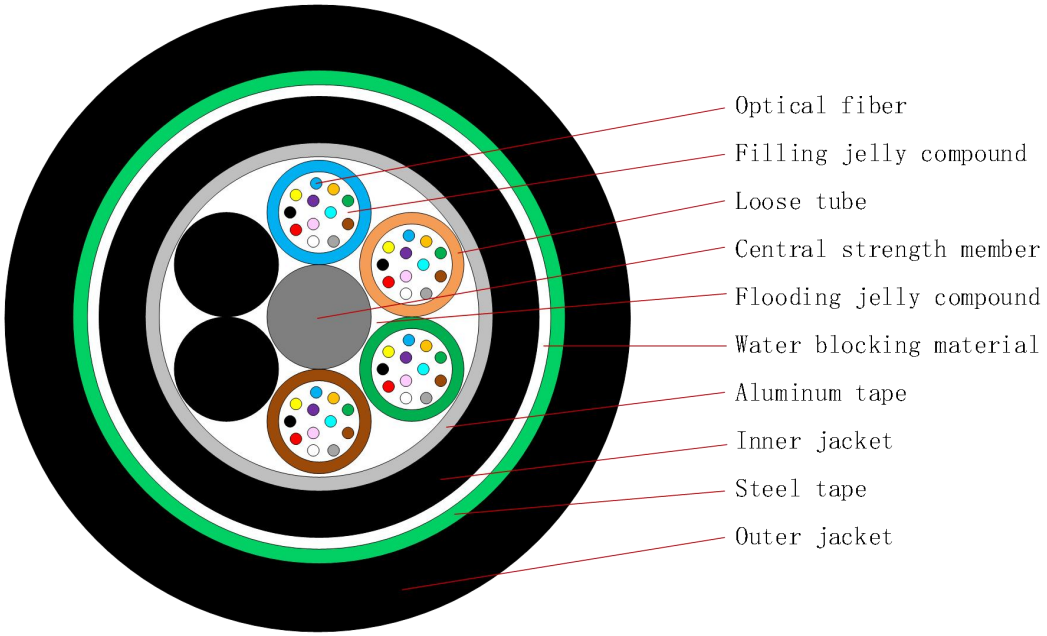
GYTA53

Cross Section of Cable



Optical Fiber Type and Properties

Item		Unit	Specification
Fiber Type			G. 652D
Mode field diameter	1310nm	μm	9.2 ± 0.4
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Coating diameter		μm	245± 10
Coating/cladding concentricity error		μm	≤12.5
Cable cut-off wavelength		nm	≤ 1260
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1550nm	dB/km	≤0.21

Proof stress level	kpsi	≥100

Note: Other parameters meet standard ITU-T G.652

Item		Unit	Specification
Fiber Type			G. 657A1
Mode field diameter	1310nm	μm	8.6 ± 0.4
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Coating diameter		μm	245 ± 10
Coating/cladding concentricity error		μm	≤12.5
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1550nm	dB/km	≤0.21
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

Item		Unit	Specification
Fiber Type			G. 657A2
Mode field diameter	1310nm	μm	8.6 ± 0.4
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Coating diameter		μm	245±10
Coating/cladding concentricity error		μm	≤12.5
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1550nm	dB/km	≤0.21
Macro-bend loss (1 turn,7.5mm radius)	1550nm	dB/km	≤0.5
	1625nm	dB/km	≤1.0
Proof stress level		kpsi	⩾100

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

Item		Unit	Specification
Fiber Type			OM1
Core diameter		μm	62.5±2.5
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Core/cladding concentricity error		μm	≤1.5
Coating diameter		μm	245 ± 10
Coating/cladding concentricity error		μm	≤12
Bandwidt	850nm	MHz • km	⩾ 160
	1300nm	MHz • km	⩾ 500
Attenuation Coefficient	850nm	dB/km	≤3.5
	1300nm	dB/km	≤1.5
Proof stress level		kpsi	⩾100

Note: Other parameters meet standard IEC 60793-2-10

Item		Unit	Specification
Fiber Type			OM2
Core diameter		μm	50±2.5
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Core/cladding concentricity error		μm	≤1.5
Coating diameter		μm	245 ± 10
Coating/cladding concentricity error		μm	≤12
OFL Bandwidth	850nm	MHz • km	⩾ 500
	1300nm	MHz • km	⩾ 500
Attenuation Coefficient	850nm	dB/km	≤3.5
	1300nm	dB/km	≤1.5
Proof stress level		kpsi	⩾100

Note: Other parameters meet standard IEC 60793-2-10

Item		Unit	Specification
Fiber Type			OM3
Core diameter		μm	50±2.5
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Core/cladding concentricity error		μm	≤1.5
Coating diameter		μm	245 ± 10
Coating/cladding concentricity error		μm	≤12
OFL Bandwidth	850nm	MHz • km	⩾ 1500
	1300nm	MHz • km	⩾ 500
Attenuation Coefficient	850nm	dB/km	≤3.5
	1300nm	dB/km	≤1.5
Proof stress level		kpsi	⩾100

Note: Other parameters meet standard IEC 60793-2-10

Item		Unit	Specification
Fiber Type			OM4
Core diameter		μm	50±2.5
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤0.8
Core/cladding concentricity error		μm	≤1.5
Coating diameter		μm	245 ± 10
Coating/cladding concentricity error		μm	≤12
OFL Bandwidth	850nm	MHz • km	⩾ 3500
	1300nm	MHz • km	⩾ 500
Attenuation Coefficient	850nm	dB/km	≤3.5
	1300nm	dB/km	≤1.5

Proof stress level	kpsi	⩾100

Note: Other parameters meet standard IEC 60793-2-10

Dimensions of Cable Constructions

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter/ pad diameter (mm)	Nominal Thickness of Inner jacket (mm)	Nominal Thickness of outer jacket (mm)	Cable diameter (mm)	Cable weight (kg/km)
4	1+6	4	1.7±0.1	2.0/2.0	0.9	1.8	13.1 ±0.5	163
6	1+6	6	1.7±0.1	2.0/2.0	0.9	1.8	13.1 ±0.5	163
8	1+6	4	1.7±0.1	2.0/2.0	0.9	1.8	13.1 ±0.5	164
12	1+6	6	1.7±0.1	2.0/2.0	0.9	1.8	13.1 ±0.5	164
18	1+6	6	1.7±0.1	2.0/2.0	0.9	1.8	13.1 ±0.5	165
24	1+6	6	1.7±0.1	2.0/2.0	0.9	1.8	13.1 ±0.5	165
30	1+6	6	1.7±0.1	2.0/2.0	0.9	1.8	13.1 ±0.5	166
36	1+6	6	1.7±0.1	2.0/2.0	0.9	1.8	13.0 ±0.5	166
48	1+6	12	2.0±0.1	2.0/2.0	0.9	1.8	13.8 ±0.5	180
60	1+6	12	2.0±0.1	2.0/2.0	0.9	1.8	13.8 ±0.5	180
72	1+6	12	2.0±0.1	2.0/2.0	0.9	1.8	13.8 ±0.5	181
84	1+7	12	2.0±0.1	2.2/2.9	0.9	1.8	14.7 ±0.5	206
96	1+8	12	2.0±0.1	2.2/3.5	0.9	1.8	15.4 ±0.5	222
108	1+9	12	2.0±0.1	2.2/4.2	0.9	1.8	16.1 ±0.5	239
120	1+10	12	2.0±0.1	2.2/4.9	0.9	1.8	16.8 ±0.5	258
132	1+11	12	2.0±0.1	2.4/5.5	0.9	1.8	17.4 ±0.5	279
144	1+12	12	2.0±0.1	2.4/6.3	0.9	1.8	18.2 ±0.5	301
288	1+9+15	12	2.0±0.1	2.2/4.2	0.9	1.8	20.1 ±0.5	364

Item		Parameters
Fiber	Color	Full color spectrum
Loose tube	Material	PBT
	Color	Full color spectrum
Filler	Material	PE
	Color	Black
CSM	Material	Phosphating steel wire
Inner Armoured	Material	Plastic coated aluminum strip
Inner jacket	Material	MDPE
	Color	Black
Outer Armoured	Material	Plastic coated steel strip
Outer jacket	Material	MDPE
	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 attenuation, no fiber break and no cable damage.	
Tensile performance	Short term	3000N （ Additional attenuation≤0.1dB）
Crush	Short term	3000N/100mm （ Additional attenuation≤0.1dB）
Torsion	Load：250N; number of cycles:10; twist angle:±180° No obvious addition attenuation, no fiber break and no cable damage.	

Working Condition

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

Drum

Cable type	Drum				
	Height (mm)	Width (mm)	Inner diameter (mm)	Length (km)	Drum type
GYTA53-4	1000	750	400	2	Plywood wood drum
GYTA53-6	1000	750	400	2	Plywood wood drum
GYTA53-8	1000	750	400	2	Plywood wood drum
GYTA53-12	1000	750	400	2	Plywood wood drum
GYTA53-18	1000	750	400	2	Plywood wood drum
GYTA53-24	1000	750	400	2	Plywood wood drum
GYTA53-30	1000	750	400	2	Plywood wood drum
GYTA53-36	1000	750	400	2	Plywood wood drum
GYTA53-48	1100	750	500	2	Iron wood drum
GYTA53-60	1100	750	500	2	Iron wood drum
GYTA53-72	1100	750	500	2	Iron wood drum
GYTA53-84	1200	750	500	2	Iron wood drum
GYTA53-96	1200	750	500	2	Iron wood drum
GYTA53-108	1250	750	500	2	Iron wood drum
GYTA53-120	1300	750	500	2	Iron wood drum
GYTA53-132	1400	750	650	2	Iron wood drum
GYTA53-144	1400	1000	650	2	Iron wood drum
GYTA53-288	1400	1000	650	2	Iron wood drum