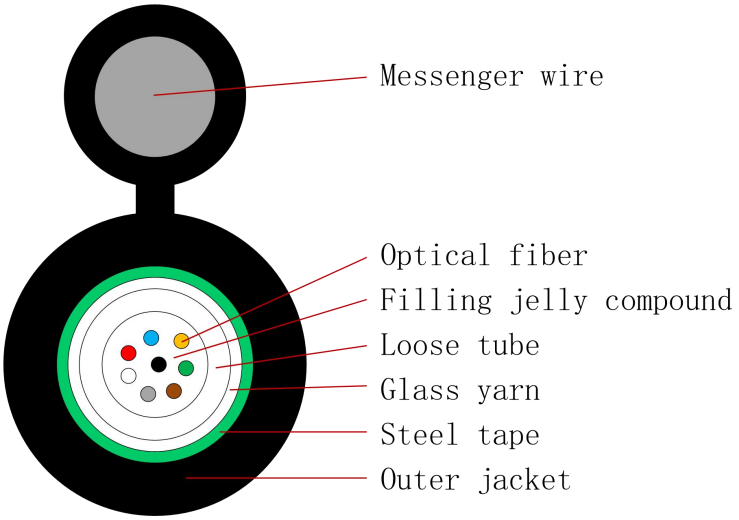
GYFXC8S

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	≤0.36
	1550nm	dB/km	≤0.22
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	≤0.36
	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

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	≤0.36
	1550nm	dB/km	≤0.22
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)	Nominal Thickness of outer jacket (mm)	Cable diameter/ Height (mm)	Cable weight (kg/km)
2	UNITUBE	2	2.4±0.1	1.6	8.0±0.5/13.8±0.8	96
4	UNITUBE	4	2.4±0.1	1.6	8.0±0.5/13.8±0.8	96
6	UNITUBE	6	2.4±0.1	1.6	8.0±0.5/13.8±0.8	96
8	UNITUBE	8	2.4±0.1	1.6	8.0±0.5/13.8±0.8	96
10	UNITUBE	10	2.4±0.1	1.6	8.0±0.5/13.8±0.8	96
12	UNITUBE	12	2.4±0.1	1.6	8.0±0.5/13.8±0.8	96
14	UNITUBE	14	3.2±0.1	1.6	8.6±0.5/14.4±0.8	104
16	UNITUBE	16	3.2±0.1	1.6	8.6±0.5/14.4±0.8	104
18	UNITUBE	18	3.2±0.1	1.6	8.6±0.5/14.4±0.8	104
20	UNITUBE	20	3.2±0.1	1.6	8.6±0.5/14.4±0.8	104
22	UNITUBE	22	3.2±0.1	1.6	8.6±0.5/14.4±0.8	104
24	UNITUBE	24	3.2±0.1	1.6	8.6±0.5/14.4±0.8	105

Cable Performance

Item		Parameters
Fiber	Color	Full color spectrum
Loose tube	Material	PBT
	Color	Natural color
Reinforced pieces	Material	Glass yarn

Armoured	Material	Plastic coated steel strip
Messenger wire	Material	Phosphating steel wire
	Steel wire	2.0mm
Outer jacket	Material	HDPE
	Color	Black
Min. bending radius	Static	15 times cable diameter
	Dynamic	30 times cable diameter
Tensile performance	Short term	1500N （ Additional attenuation≤0.1dB）
Crush	Short term	1000N/100mm （ Additional attenuation≤0.1dB）

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
GYFXC8S	900	750	500	2	Plywood wood drum

Designer: Zhou shuangshuang2019/01/25
Proofreader：Fang duo2019/01/25
Approver:Zhang honglei2019/01/25
Serial number：20171228-1335