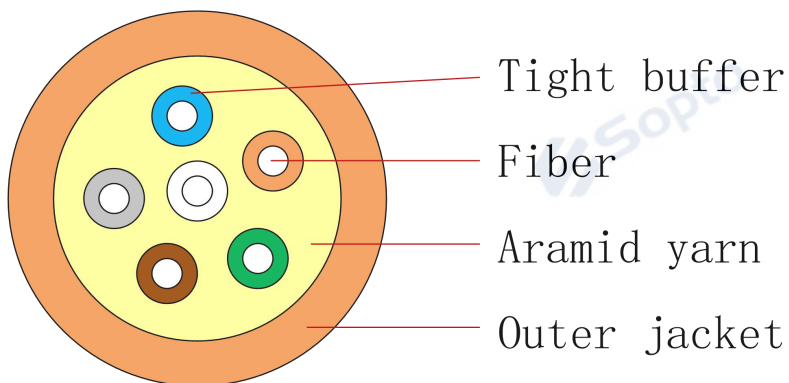
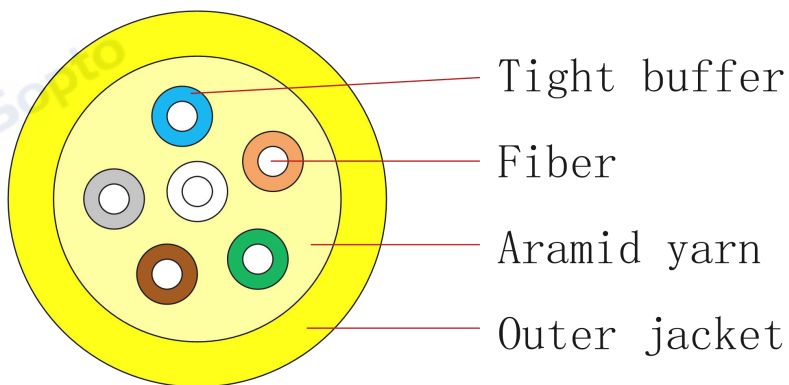


GJPFJH

Cross Section of Cable



Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.652
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	≤0.4
	1550nm	dB/km	≤0.3
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	8.6-9.5 ± 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	≤0.4
	1550nm	dB/km	≤0.3
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	8.6-9.5 ± 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	≤0.4
	1550nm	dB/km	≤0.3
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 ± 1.0	
Cladding non-circularity	%	≤1.0	
Core/cladding concentricity error	μm	≤1.5	
Coating diameter	μm	245 ± 10	
Coating/cladding concentricity error	μm	≤12	
Bandwidth	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
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Fiber Type			OM2
Core diameter		μm	50±2.5
Cladding diameter		μm	125.0 ± 1.0
Cladding non-circularity		%	≤1.0
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 ± 1.0
Cladding non-circularity		%	≤1.0
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 ± 1.0	
Cladding non-circularity	%	≤1.0	
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

Item		Parameters			
Tight buffer fiber	Number of cores	4	6	8	12
	Diameter	0.9±0.05mm			
	Material	LSZH (Oxygen index ≥25%)			
	Tight buffer color	Full color spectrum			
	Fiber color	Natural color			
Strength member	Material	Aramid yarn			
Outer jacket	Diameter	4.7±0.3mm	5.2±0.3mm	5.8±0.3mm	6.3±0.3mm
	Thickness	0.8 ± 0.1mm	0.9 ± 0.1mm	0.9 ± 0.1mm	0.9 ± 0.1mm



	Material	LSZH (Oxygen index \geq 25%)
	Color	G.652、G.657A1、G.657A2: Yellow
		OM1、OM2、OM3、OM4: Orange
Min. bending radius	Static	10 times cable diameter
	Dynamic	20 times cable diameter
Tensile performance	Short term	400N
Crush	Short term	1000N/100mm

Working Condition

Item	Standard	Parameters
Operation temperature	IEC 60794-1-2 F1	0°C ~ +50°C

Drum

Cable type	Drum				
	Height (mm)	Width (mm)	Inner diameter (mm)	Length (km)	Drum type
GJPFJH-4	700	760	500	2	Plywood wood drum
GJPFJH-6	700	760	500	2	Plywood wood drum
GJPFJH-8	700	760	500	2	Plywood wood drum
GJPFJH-12	750	760	500	2	Plywood wood drum

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Approver: Wang Yingli 2018/05/22

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