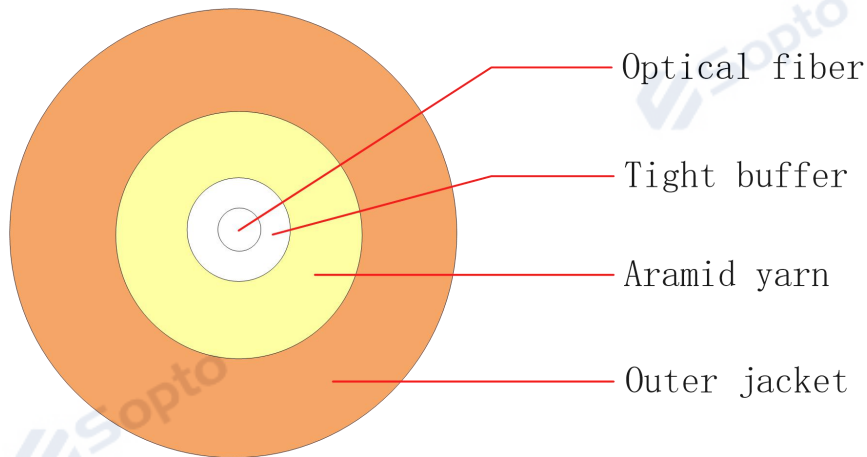
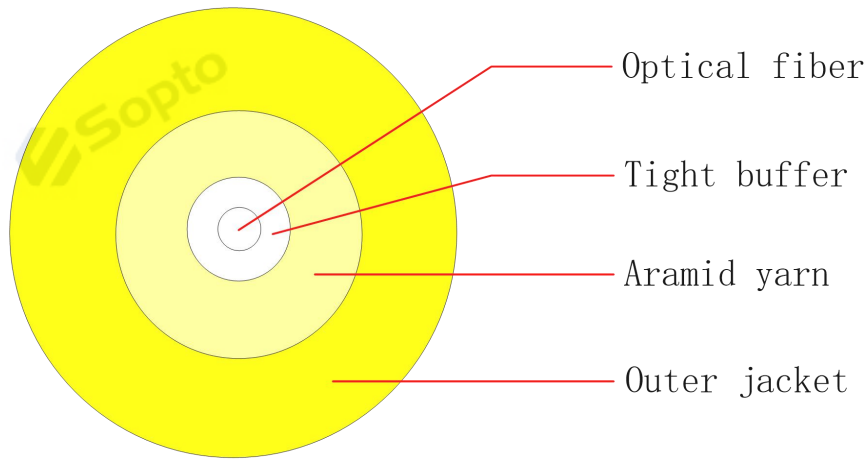


# GJFJH

## Cross Section of Cable



## Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.652
Mode field diameter	1310nm	$\mu\text{m}$ $9.2 \pm 0.4$
	1550nm	$\mu\text{m}$ $10.4 \pm 0.8$
Cladding diameter	$\mu\text{m}$	$125.0 \pm 1$
Cladding non-circularity	%	$\leq 1.0$



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
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
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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	1
	Diameter	0.9±0.05mm
	Material	LSZH (Oxygen index ≥25%)
	Tight buffer color	White
	Fiber color	Natural color
Strength member	Material	Aramid yarn
Outer jacket	Diameter	1.9±0.1mm
		2.9±0.1mm



	Thickness	0.35 ± 0.05mm	0.45 ± 0.05mm
	Material	LSZH (Oxygen index ≥ 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	100N	
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
GJFJH(2.0)	250	275	110	1	Plywood wood drum
GJFJH(3.0)	300	275	110	1	Plywood wood drum

Designer: Yang Chengfu 2018/05/22

Approver: Wang Yingli 2018/05/22

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