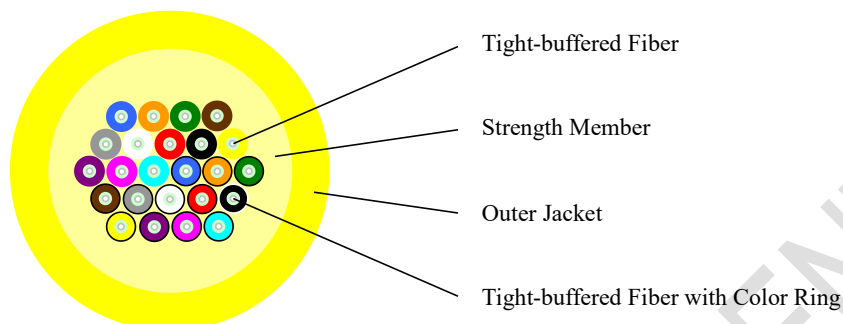


Fiber Distribution Indoor Cable

Profile View



Cable Parameters

Items		Specifications									
Tight-buffered Fiber	Dimension	850μm±50μm									
	Material	LSZH									
	Color	Blue、Orange、Green、Brown、 Grey、White、Red、Black、 Yellow、Purple、Pink、Aqua									
Tight-buffered Fiber with Color Ring	Dimension	850μm±50μm									
	Material	LSZH									
	Color	Blue、Orange、Green、Brown、 Grey、White、Red、Black、 Yellow、Purple、Pink、Aqua									
Strength Member	Material	Aramid Yarn									
Outer Jacket	Fiber Type	OS2			OM3			OM4			
	Color	Yellow			Aqua			Violet/Aqua③			
	Material	LSZH①、PVC② or LSZH-B1①									
Cable Dimension（mm±0.4mm）	Fiber Count	2	4	6	8	12	16	24	36	48	
	Dimension	3.5	4.8	5.0	5.6	6.3	7.5	8.5	9.5	10.5	
Cable Weight(For reference)(Kg/km)		18.0	19.0	23.0	26.0	36.5	44.5	54.5	72.0	90.0	

Note : ①If LSZH jacket is applied, there be options as IEC 60332-1 or IEC 60332-3-24,others please specify when ordering; ②If PVC jacket is applied, there are options as OFN, OFNR, OFNP. ③For OM4 cable jacket, LSZH/B1 to apply violet color, PVC to apply Aqua color.

Fiber Characteristics

Item		Unit	Specification
			G.652D
Mode field diameter		μm	8.6~9.2 ± 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
	1383nm	dB/km	≤0.36
	1550nm	dB/km	≤0.22
Chromatic dispersion	1285~1340nm	ps/(nm·km)	≤3.5
	1550	ps/(nm·km)	≤18
	1625	ps/(nm·km)	≤22
Zero Dispersion Wavelength(λ_0)		nm	1300~1324
Zero-dispersion slope(S_0)		ps/(nm ² ·km)	≤0.092
Polarization mode dispersion coefficient(M=20, Q=0.01%)		ps/√km	≤0.1
Macro-bending loss (100turns ,Radius=30mm)	1625	dB	≤0.05
Proof stress level		kpsi	≥100

❖ Other parameters meet standard ITU-T G.652

Item		Unit	Specification	
			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
		1383nm	dB/km	≤0.36
		1550nm	dB/km	≤0.22
Chromatic dispersion		1285~1340nm	ps/(nm·km)	≤3.5
		1550	ps/(nm·km)	≤18
		1625	ps/(nm·km)	≤22
Zero Dispersion Wavelength(λ_0)			nm	1300~1324
Zero-dispersion slope(S_0)			ps/(nm ² ·km)	≤0.092
Polarization mode dispersion coefficient(M=20, Q=0.01%)			ps/√km	≤0.1
Macro-bending loss	10 turns,15mm radius	1550nm	dB/km	≤0.25
		1625nm	dB/km	≤1.0
	1 turn,10mm radius	1550nm	dB/km	≤0.75
		1625nm	dB/km	≤1.5
Proof stress level			kpsi	≥100

❖ Other parameters meet standard ITU-T G.657

Item		Unit	Specification	
			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	≤0.36
		1383nm	dB/km	≤0.36
		1550nm	dB/km	≤0.22
Chromatic dispersion		1285~1340nm	ps/(nm·km)	≤3.5
		1550	ps/(nm·km)	≤18
		1625	ps/(nm·km)	≤22
Zero Dispersion Wavelength(λ ₀)			nm	1300~1324
Zero-dispersion slope(S ₀)			ps/(nm ² ·km)	≤0.092
Polarization mode dispersion coefficient(M=20, Q=0.01%)			ps/√km	≤0.1
Macro-bending loss	10 turns,15mm radius	1550nm	dB/km	≤0.25
		1625nm	dB/km	≤1.0
	1 turn,10mm radius	1550nm	dB/km	≤0.75
		1625nm	dB/km	≤1.5
Proof stress level			kpsi	≥100

❖ Other parameters meet standard ITU-T G.657

Item		Unit	Specification
			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
Effective Mode Bandwidth	850nm	MHz·km	≥ 2000
Attenuation Coefficient	850nm	dB/km	$\leq 2.5(3.0 \text{ as cabled})$
	1300nm	dB/km	$\leq 0.8(1.0 \text{ as cabled})$
Proof stress level		kpsi	≥ 100

❖ Other parameters meet standard IEC 60793-2-10

Item	Unit	Specification
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			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
Effective Mode Bandwidth	850nm	MHz·km	≥ 4700
Attenuation Coefficient	850nm	dB/km	≤2.5(3.0 as cabled)
	1300nm	dB/km	≤0.8(1.0 as cabled)
Proof stress level		kpsi	≥100

❖ Other parameters meet standard IEC 60793-2-10

Transmission Characteristics(As cabled)

Fiber Type	G.652D,G.657A1,G.657A2		OM1,OM2,OM3,OM4	
Wavelength(nm)	1310	1550	850	1300
Attenuation(dB/km)	≤0.5	≤0.5	≤3.5	≤1.5

Mechanical and Environmental Characteristics

Items	Unit	Specifications		
Fiber Count	-	2~4	4~12	16~48
Tension (Long Term)	N	70	130	200
Tension (Short Term)	N	220	440	660
Crush (Long Term)	N/10cm	200	200	300
Crush (Short Term)	N/10cm	350	1000	1000
Min. Bend Radius (Dynamic)	mm	20D		
Min. Bend Radius (Static)	mm	10D		
Operating/Storage Temperature	°C	-20~+60		

Packaging Information

Packaging length: 1km and 2km per drum as standard.

Ordering Information

Product Description	Part No.
Fibers Distribution Indoor Cable,OS2, ** Cores,LSZH(IEC 60332-1)	ZTB9HF**X
Fibers Distribution Indoor Cable,OM3, ** Cores,LSZH(IEC 60332-1)	ZTB50HF**X3
Fibers Distribution Indoor Cable,OM4, ** Cores,LSZH(IEC 60332-1)	ZTB50HF**X4
Fibers Distribution Indoor Cable,OS2, ** Cores,LSZH(IEC 60332-3-24)	ZTB9HF**XC
Fibers Distribution Indoor Cable,OM3, ** Cores,LSZH(IEC 60332-3-24)	ZTB50HF**X3C
Fibers Distribution Indoor Cable,OM4, ** Cores,LSZH(IEC 60332-3-24)	ZTB50HF**X4C
Fibers Distribution Indoor Cable,OS2, ** Cores,LSZH-B1	ZTB9HF**X-B1
Fibers Distribution Indoor Cable,OM3, ** Cores,LSZH-B1	ZTB50HF**X3-B1

Fibers Distribution Indoor Cable,OM4, ** Cores,LSZH-B1	ZTB50HF**X4-B1
Fibers Distribution Indoor Cable,OS2, ** Cores,OFN	ZTB9CM**X
Fibers Distribution Indoor Cable,OM3, ** Cores,OFN	ZTB50CM**X3
Fibers Distribution Indoor Cable,OM4, ** Cores,OFN	ZTB50CM**X4
Fibers Distribution Indoor Cable,OS2, ** Cores,OFNR	ZTB9NR**X
Fibers Distribution Indoor Cable,OM3, ** Cores,LOFNR	ZTB50NR**X3
Fibers Distribution Indoor Cable,OM4, ** Cores,LOFNR	ZTB50NR**X4
Fibers Distribution Indoor Cable,OS2, ** Cores,OFNP	ZTB9NP**X
Fibers Distribution Indoor Cable,OM3, ** Cores,OFNP	ZTB50NP**X3
Fibers Distribution Indoor Cable,OM4, ** Cores,OFNP	ZTB50NP**X4

Note:

- (1) ** represents fiber total counts: 2/4/6/8/12/16/24/36/48 as options.
- (2) OS2 fiber to apply G.652D as defaulted. For BIF single mode fiber please specify when ordering or contact us for more information.

End of Document.

Issued: Chuanchun,Li	Checked: Donghua,Ni	Approved: Donghua,Ni
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Revision History

Revision	Date	Page/Location	Description
A01	2021-8-11	All	Initial release
A02	2022-05-10	All	Combination of product families to add PVC and B1 grade cables.