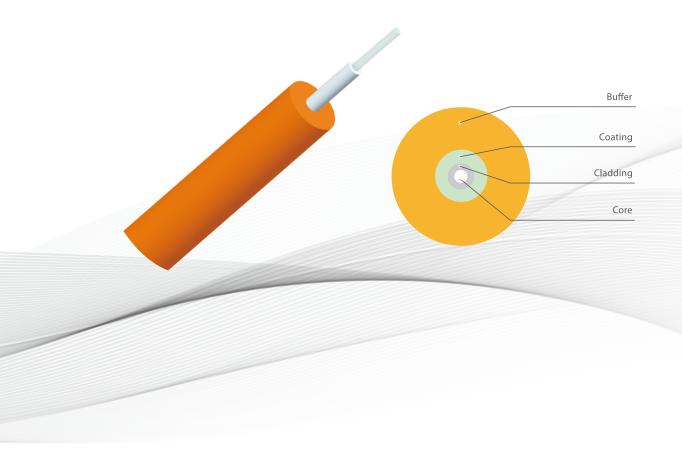


INDOOR CABLE

TIGHT-BUFFERED FIBER



Applications

- Tight-buffered fiber is the basic element of various indoor cables. Different buffer materials can meet different mechanical and environmental requirements, such as large tensile (crush), high or low temperature, frequent bends, low smoke, no corrosive, field use, distribution cabinet (frame) and other generic use.
- Tight-buffered fibers can also be used in pigtails, optical connections of various active and passive devices, instruments and terminal units.

Features

- Good mechanical and environmental characteristics
- The strippability characteristics of buffer meet the customer requirements
- Meet various requirements of market and clients



Cable Performance

ltems	Unit	G.652.A G.652.B G.652.C G.652.D			
Mode Field Diameter(1310nm)	μm	8.6 ~ 9.5±0.6			
Cladding Diameter	μm	125.0±1.0			
Core-Cladding Concentricity Error	μm	≤0.6			
Cladding Non-Circularity	%	≤1.0			
Coating Diameter(un-colored)	μm	245±10			
Coating Diameter(colored)	μm	250±15			
Cladding-Coating Concentricity Error	μm	≤12.5			
Cut-off Wavelength λ CC	nm	≤1260			
Bend Loss R= 30mm, 100turns	dB	1550nm≤0.1 1625nm≤0.1 1625nm≤0.1 1625nm≤0.1			
Attenuation Coefficient 1310nm	dB/km	≤0.35(I Grade) / ≤0.38(∏Grade)			
Attenuation Coefficient 1550nm	dB/km	≤0.21(I Grade) / ≤0.24(∏Grade)			
Attenuation Coefficient 1625nm	dB/km	≤0.24(I Grade) / ≤0.28(∏Grade)			

Items (G657)	Unit	G.657.A1	G.657.A2	G.657.B2	G.657.B3
Mode Field Diameter(1310nm)	μm	8.6 ~ 9.5±0.4	8.6 ~ 9.5±0.4	6.3 ~ 9.5±0.4	6.3 ~ 9.5±0.4
Cladding Diameter	μm	125.0±0.7			
Core-Cladding Concentricity Error	μm	≤0.5			
Cladding Non-Circularity	%	≤1,0			
Coating Diameter(un-colored)	μm	245±10			
Coating Diameter(colored)	μm	250±15			
Cut-off Wavelength λ CC	nm	≤1260			
Bend Loss(1550) R= 15mm,10 turns	dB	0.25	0.03	0.03	-
Bend Loss(1550) R= 10mm,1 turns	dB	0.75	0.10	0.50	0.03



Bend Loss(1550) R= 7.5mm,1 turns	dB	-	0.50	0.50	0.08
Bend Loss(1550) R= 5mm,1 turns	dB	-	-	-	0.15
Bend Loss(1625) R= 15mm,10 turns	dB	1.00	1.00	0.10	-
Bend Loss(1625) R= 10mm,1 turns	dB	1.50	0.20	0.20	0.10
Bend Loss(1625) R= 7.5mm,1 turns	dB	-	1.00	1.00	0.25
Bend Loss(1625) R= 5mm,1 turns	dB	-	-	-	0.45
Attenuation Coefficient(1380nm)	dB/Km	≤0.38	≤0.38	≤0.50	≤0.50
Attenuation Coefficient(1383nm)	dB/Km	≤0.38	≤0.38	-	-
Attenuation Coefficient(1550nm)	dB/Km	≤0.24	≤0.24	≤0.30	≤0.30
Attenuation Coefficient(1625nm)	dB/Km	≤0.28	≤0.28	≤0.40	≤0.40

Items (Multi-Mode)	Unit	A.1a.1	A.1a.2	A.1b		
Core Diameter	μm	50.0±2.5	50.0±2.5	62.5±2.5		
Cladding Diameter	μm	125.0±2.0				
Core Non-Circularity	%	≤6.0				
Cladding Non-Circularity	%	≤2.0				
Core-Cladding Concentricity Error	μm	≤0.5				
Coating Diameter(uncolored)	μm	245±10				
Coating Diameter(colored)	μm	250±15				
Cladding-Coating Concentricity Error	μm	≤12.5				
Numeral Aperture(NA)	-	-	0.20±0.015	0.275±0.015		
Attenuation Coeffcient(850nm)	dB/Km	2.4	2.5	2.8		
Attenuation Coefficient(1300nm)	dB/Km	0.7	0.8	0.7		
Modal Bandwidth(850nm)	Mhz-Km	200	1500	100		
Modal Bandwidth(1300nm)	Mhz-Km	200	500	200		
Note:All the values in the table, which are for reference only, are subject to change without notice.						