

Fiber Property Singlemode / Multimode Fiber



Optical Characteristic

	G.652	G.655	50/125 m	62.5/125 m
Attenuation	@850nm		≤ 3.0dB/km	≤ 3.0dB/km
	@1300nm		≤ 1.0dB/km	≤ 1.0dB/km
	@1310nm	≤ 0.36dB/km	≤ 0.40dB/km	
Bandwidth	@1550nm	≤ 0.22dB/km	≤ 0.23dB/km	
	@850nm		≥ 500 MHz.km	≥ 200 MHz.km
	@1300nm		≥ 1000 MHz.km	≥ 600 MHz.km

Geometrical Characteristics

	G.652	G.655	50/125 μm	62.5/125 μm
Core diameter			50±2.5 μm	62.5±2.5 μm
Cladding diameter	125±1.0 μm	125±1.0 μm	125±1.0 μm	125±1.0 μm
Cladding non-circularity	≤ 1.0%	≤ 1.0%	≤ 1.0μ%	≤ 1.0%
Coating diameter	242±7 μm	242±7 μm	242±7 μm	242±7 μm
Coating/ Cladding concentricity error	≤ 12.0 μm	≤ 12.0 μm	≤ 12.0 μm	≤ 12.0 μm
Coating non-circularity	≤ 6.0%	≤ 6.0%	≤ 6.0%	≤ 6.0%
Core/cladding concentricity error	≤ 0.8 μm	≤ 0.6 μm	≤ 1.5 μm	≤ 1.5 μm

TBF Color in Indoor Optical Cable

Fiber Number	1	2	3	4	5	6	7	8	9	10	11	12
Color Code	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

TBF: Tight Buffer Fiber (produced as that coated fiber is sheathed by buffer material, diameter 900±50 μm)

Color Arrangement of Fibers in Loose Tube

Fiber Number	1	2	3	4	5	6	7	8	9	10	11	12
Color Code	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

Color Arrangement of Loose Tubes in Cable

Fiber Number	1	2	3	4	5	6	7	8	9	10	11	12
Color Code	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua