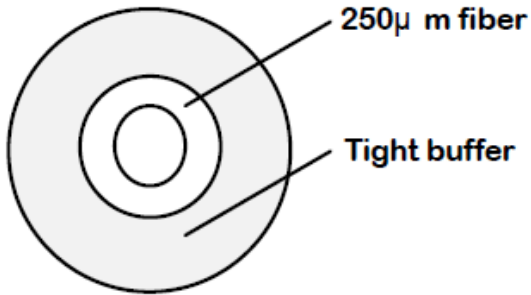


Invisible Fiber (G657B3)

1. Structure



Remark: The fiber type is G657B3.

2. The properties of single mode fiber

Items	Description	
	Before cabled	After cabled
atten.1310	$\leq 0.35\text{dB/km}$	$\leq 0.36\text{dB/km}$
atten.1383	$\leq 0.35\text{dB/km}$	$\leq 0.35\text{dB/km}$
atten.1550	$\leq 0.21\text{dB/km}$	$\leq 0.25\text{dB/km}$
atten.1625	$\leq 0.23\text{dB/km}$	$\leq 0.27\text{dB/km}$
Cable cut-off wavelength	$\leq 1260\text{ nm}$	
Zero-dispersion wavelength	1300 ~ 1324 nm	
Zero-dispersion slope	$\leq 0.092\text{ ps}/(\text{nm}^2.\text{km})$	
Chromatic dispersion @ 1285 ~ 1340m @ 1550 nm	$\leq 3.0/(\text{nm}^2.\text{km})$ $\leq 18.0\text{ ps}/(\text{nm}^2.\text{km})$	
Mode field diameter @ 1310 nm	8.4~9.2 μm	
Core/Clad concentricity error	$\leq 0.5\mu\text{m}$	
Cladding diameter	125 \pm 0.7 μm	
Cladding non-circularity	$\leq 0.7\%$	
Primary Coating diameter	245 \pm 5 μm	
Proof test level	$\geq 100\text{ kpsi}$	
Attenuation with bending Loss 5 mm radius, 1turn 7.5 mm radius 1turn 10 mm radius , 10turns	1550nm $\leq \Delta 0.15\text{ dB/km}$ 1550nm $\leq \Delta 0.08\text{ dB/km}$ 1550nm $\leq \Delta 0.03\text{ dB/km}$	



3. Cable Dimensions and Constructions

Items		Descriptions
Optical Fiber	Fiber count	1
Tight buffer fiber	Material	PVC
	Diameter	0.85±0.05mm
	Color	Transparent
	Stripping length in one pass	100mm
Weight		0.9kg/km

4. Mechanical and Environmental Characteristics

Items		Descriptions	
Tensile Strength	IEC 60794-1-E1	short-term	6N
		long-term	3N
Crush Resistance	IEC 60794-1-E3	short-term	500N
		long-term	100N
Temperature Range	IEC 60794-1-2-F1	-20°C - +60°C	
Bending Radius	Static	10X cable diameter	
	Dynamic	20X cable diameter	

5. Packing

5.1 Reel Length

Standard reel length: 2000m/reel

5.2 Cable Drum

The cables are packed in plastics drums

5.3 Cable Packing

10 drums in one box, the box size is 620*500*300mm