

Pigtails SC/UPC 0.9 mm Tight Buffer 1 Core

Model: LP-FO-SCU-02



SC/UPC Connector

Fiber Parameters

Category	Description	Specifications	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Fiber irregularities point and whole length @1310 nm & 1550 nm	≤0.05 dB/km	
	Attenuation inhomogeneity @1310 nm & 1550 nm	≤0.05 dB/km	
	Dispersion coefficient	@1310 nm ≤3.5ps/nm·km @1550 nm ≤18ps/nm·km	
	Zero dispersion wavelength	1300~1322 nm	
	Zero dispersion slope	≤0.091ps/nm ² ·km	
	Cable cutoff wavelength (λ_{cc})	≤1260 nm	
	Macro bending loss (1 turn; Φ 16 mm) @1550 nm	≤0.05 dB	
	(100 turns; Φ 25 mm) @1310 nm	≤0.05 dB	
(100 turns; Φ 25 mm) @1550 nm	≤0.05 dB		
(100 turns; Φ 30 mm) @1625 nm	≤0.05 dB		
Mode field diameter @1310 nm	8.8±0.4 μ m		
Dimensional Specifications	Cladding diameter	125±1.0 μ m	
	Cladding non circularity	≤1.0%	
	Core / clad concentricity error	≤0.6 μ m	
Mechanical Specifications	Proof stress	≥1.05%	
	Fatigue resistance parameter (Nd)	≥22	
	Peak coating strip force	1.3~8.9N	

*G.657 A1, G.657 A2 and other type of fiber is optional for customers.

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Cable Parameters

Items		Specifications
Fiber Count		1 Core
Colored Coating Fiber	Dimension	250µm±15µm
	Color	Natural
Tight Buffer	Material	LSZH or PVC
	Color	White or as customers' request
	Dimension	0.09±0.05 mm

Mechanical and Environmental Characteristics

Connector Type	Housing Color	Boot Color	Outer Coating
SC/UPC	Blue	Blue	LSZH/PVC (flame-retardant)

Note:

1. Fiber cable according to IEC 60794-1
2. End surface test is according to WI-QJ-021
3. Test standard: IL≤0.30dB, RL≥60dB
4. Operating temperature (°C) -40 ~ +75
5. Operating wavelength (nm) 1310/1550
6. LSZH is flame-retardant
7. ROHS compliant

Length	Tolerance
L≤1m	+50mm/0
1m<L≤3m	+100mm/0
3m<L≤10m	±100mm
10m<L≤30m	±150mm
L>30m	±200mm

Regulatory Compliance / Certificate

ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system
IEC 60794-1	Optical fiber cables-generic specification - Mechanical tests methods