





Optical Cable Specifications - Pigtail

Application

A pigtail is a fiber optic cable assembly consisting of a connector and an unterminated fiber at the other end. Normally used in applications wherein a splice is convenient for terminating a device with a connector. Also used when the loss characteristics of the connector must be known precisely.

Optical fibers

- Singlemode 9/125um
- Multimode 50/125um
- Multimode 62.5/125um

Connector features

Connector type: FC Ferrule: Zirconia Ferrule ID(mm): 0.125 - 0.127Ferrule OD(mm): 2.499 ± 0.0005 Boot ID(mm): 0.9

Optical performance

Туре	Singlemode (UPC)	Multimode (UPC)	
Insertion loss	0.1 - 0.3dB	0.1 - 0.3dB	
Return loss	≥ 50dB	≥ 25dB	
Operating temperature	-40°C to +75°C		

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Optical specifications

Fiber Type	Singlemode 9/125um	Multimode 50/125um	Multimode 62.5/125um
Cladding diameter	125.0 ± 0.7μm	125.0 ± 2.0μm	125.0 ± 2.0μm
Mode field diameter (@1310nm)	9.2 ± 0.4μm		
Mode field diameter (@1550nm)	10.4 ± 0.8μm		
Cable cut-off wavelength λ_{ccf}	≤ 1260nm		
Attenuation (@850nm)		≤ 2.4dB/km	≤ 2.9dB/km
Attenuation (@1300nm)		≤ 0.7dB/km	≤ 0.6dB/km
Attenuation (@1310nm)	0.33 - 0.35dB/km		
Attenuation (@1550nm)	0.19 - 0.20dB/km		
Chromatic dispersion (@1550nm)	< 18 ps/nm⋅km	≥ 25dB	≥ 25dB
Numerical Aperture	0.14	0.200 ± 0.015μm	0.275 ± 0.015μm

Dimensional specifications

Fiber Type	Singlemode 9/125um	Multimode 50/125um	Multimode 62.5/125um
Cladding non-circularity	≤ 0.7%	≤ 1.0%	≤ 1.0%
Core-clad concentricity	≤ 0.5µm	≤ 1.5µm	≤ 1.5µm
Coating diameter	245 ± 5μm	245 ± 5μm	245 ± 5μm
Coating-cladding concentricity	< 12 μm	< 12 μm	< 12 μm
Fiber primary coating	Acrylate	Acrylate	Acrylate

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