DATA SHEET

Simplex/Duplex Patch cord

Fiber patch cords are one of the most commonly used components in fiber optic networks. There are usually two fiber patch cords: single mode (9/125um) fiber patch cords and multimode (50/125um or 62.5/125um) fiber patch cords. Fiber patch cords are available for a variety of fiber optic PVC, OFNP, OFNR, LSZH. There are simplex fiber patch cords and duplex fiber patch cords. The cable diameter can be 0.9mm, 2.0mm, 3.0mm. Usually the single mode fiber patch cords is yellow, and the multimode fiber patch cords is orange.

Fiber patch cords are used to connect devices and components in a fiber optic network. They come in a variety of connector types such as SC, FC, LC, ST, etc. At the same time there are PC, APC type fiber patch cords, which are different because of the grinding of the fiber optic connector.

Product Features

• High reliability, high stability
• Low insertion loss, high return loss
• Small insertion loss
• Three fiber ends: PC, UPC, APC
• Full range of fiber optics available:
  single mode (G.652, G655, G657, etc.);
  multimode (50/125,62.5/125, OM3, OM4)

Applications

• FTTX
• Optical fiber data transmission
• Local network, optical area network, cable TV
• Optical fiber data transmission test equipment and active device terminals

General Technical Specifications

Fiber Optic Performance

Item	Unit	Parameter			
Connector	–	FC, SC, ST, LC, MU			
Mode	–	SM			MM
EndFace	–	PC	UPC	APC	PC
Insertion Loss	dB	≤0.3	≤0.3	≤0.3	≤0.3
Return Loss	dB	≥45	≥50	≥65	–
Cable Diameter	mm	Φ3, Φ2, Φ1.6, Φ0.9			
Vibration	dB	≤0.2 (5-50Hz, 1.5mm Amplitude)			
Temperature Cycle	dB	≤0.2 (−40-80°C, 21Cycle)			

Geometric Parameter of Endface

Item		Unit	Parameter	
EndFace		–	PC	APC
Radius Of Curvature	SC	mm	5-30	5-12
	LC	mm	5-30	5-12
Fixed Point Offset		um	≤70	
Fiber Height		nm	−125(Concave)-100(Convex)	
Angle Deviation		°	–	8±0.5

Ordering Information

Patch Cord： FC/APC – SC/UPC – SM – Φ3 – PVC – LM – D
(Pigtail)： ◯1 ◯2   ◯3 ◯4   ◯5   ◯6   ◯7   ◯8 ◯9

Item	Unit	Parameter
◯1 Connector	–	FC, SC, ST, MU, LC
◯2 EndFace	–	PC, UPC, APC
◯3 Connector Type	–	FC, SC, ST, MU, LC
◯4 EndFace	–	PC, UPC, APC
◯5 Fiber Mode	–	SM (G652D,G655,G657), MM(OM1, OM2, OM3, OM4)
◯6 Cable Diameter	mm	Φ3, Φ2, Φ1.6, Φ 0.9
◯7 Cable Material	–	PVC, LSZH
◯8 Cable Length	M	L=1, 2, 3, 4...
◯9 Fiber Cable	–	S: Simplex(Omitted), D:Duplex
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