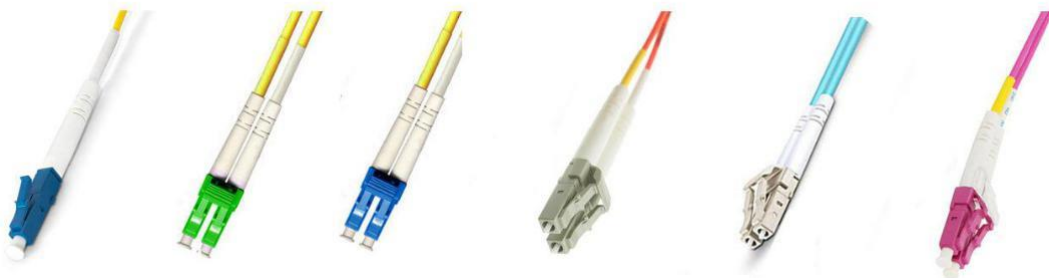


Fiber Optic Patch Cord and Pigtail



SC/UPC & SC/APC Patch Cords/Pigtails



LC/UPC & LC/APC Patch Cords/Pigtails



FC/UPC & FC/APC Patch Cords/Pigtails



ST/UPC & ST/APC Patch Cords/Pigtails

Fiber Optic Patch Cord is also called fiber jumper, fiber patch lead, or fiber optic cable assemblies.

Fiber Optic Patch Cord/Fiber Jumper and Fiber Optic Pigtail are mainly used for providing connectivity between fiber optic devices, Optical Distribution Frame ODF, Fiber Optic Patch Panel, Optical Distribution Box, etc. in telecom, cable TV and FTTH.

We offer a wide range of Fiber Optic Patch Cords and pigtails because of different connectors and fibers, SC jumper, FC jumper, LC jumper, ST jumper, MU jumper, MTRJ jumper, E2000 jumper, MPO jumper and hybrid patchcords, SC to FC patch cord, SC to LC patch cord, FC to LC patch cord for example; there are single mode Fiber Optic Patch Cord, multi-mode Fiber Optic Patch Cord, OM3 10G Fiber Optic Patch Cord, etc.

In the meanwhile, we offer Corning fiber jumpers (Corning fiber patch cords) to meet customers' specific requirement.

The combination of a precision ceramic ferrule of fiber optic connector, reliable fiber and cable performance provides consistent long-term mechanical and optical performance for fiber optic connectivity.

Features:

- OEM order available
- High temperature stability
- Excellent mechanical endurance
- Excellent polished and 100% tested
- Low insertion loss and high return loss

Applications:

- CATV
- LAN & WAN
- Telecommunication networks
- FTTX, FTTH (Fiber to the Home)

Connector Specifications:

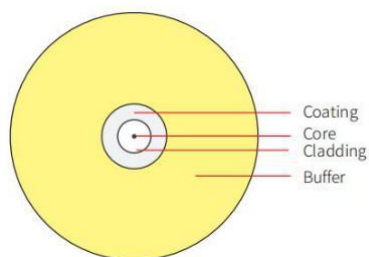
Mode	SM		MM
Polishing	APC	UPC	UPC
Insertion Loss	≤0.3dB	≤0.3dB	≤0.3dB
Return Loss	≥60dB	≥55dB	≥35dB
Interchangeability	≤0.2dB		
Salt Spray	≤0.2dB		
Repeatability	≤0.1dB (1,000 times)		
High Temperature	≤0.2dB (+85°C 168 hours)		
Low Temperature	≤0.2dB (-40°C 168 hours)		
Temperature Cycle	≤0.2dB (-40°C~85 °C 21 cycles 168 hours)		
Humidity	≤0.2dB (95% 75°C 168 hours)		
Apex Offset	0~50um		
Radius of Curvature	7~25mm		
Undercut	-50~50mm		
Durability	≥1,000 matings		
Tensile Strength (Standard is Polyester)	Aramid Yarn: ≥90N (3.0mm), ≥70N (2.0mm) Polyester: ≥50N (3.0mm), ≥40N (2.0mm)		
Vibration	≤0.1dB (10-55Hz 1.5mm)		
Falling	≤0.2dB (1.5m high, 8 times)		

Operating Temp.	-40°C~+80°C
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Note: Insertion loss 0.2dB and 0.1dB (master cord/reference cable) is also available.

Tight Buffered Fiber

For pigtailed



Simplex Patchcord Cable

For patch cords



Fiber Count	Cable Diameter	Crush Resistance (Short)	Minimum bend radius (Dynamic)
1	0.9mm	100	60

Fiber Count	Cable Diameter	Crush Resistance (Short)	Minimum bend radius (Dynamic)
1	2.00	500	60
1	3.00	500	60

Applications:

1. Directly used in patch cords or pigtailed to connect various optical active and passive devices
2. Used in optical connections for instruments and terminal equipments

Transmission Properties:

Fiber Type	G652 SM (1310nm/1550nm)	G657 SM (1310nm/1550nm)	62.5um (850nm/1300nm)	50um (850nm/1300nm)
Maximum Attenuation (dB/km)	0.4/0.3	0.4/0.3	3.5/1.5	3.5/1.5
Typical Attenuation (dB/km)	0.36/0.22	0.36/0.22	3.0/1.0	3.0/1.0

Optical Characteristics

Attenuation	1310nm	≤0.34	[dB/km]
	1383nm(after H ₂ -aging)	≤0.34	[dB/km]
	1550nm	≤0.20	[dB/km]
	1625nm	≤0.24	[dB/km]
Attenuation vs. Wavelength	1285-1330nm, in	≤0.03	[dB/km]

Max. α difference		reference to 1310nm		
		1525-1575nm, in reference to 1550nm	≤ 0.02	[dB/km]
Dispersion Coefficient		1285-1340nm	-3.5 to 3.5	[ps/(nm·km)]
		1550nm	≤ 18	[ps/(nm·km)]
		1625nm	≤ 22	[ps/(nm·km)]
Zero Dispersion Wavelength(λ_0)		--	1300-1324	[nm]
Zero Dispersion Slope(S_0)		--	≤ 0.092	[ps/(nm ² ·km)]
Typical Value		--	0.086	[ps/(nm ² ·km)]
PMD	Maximum Individual Fibre	--	≤ 0.1	[ps/√km]
	Link Design Value (M=20, Q=0.01%)	--	≤ 0.06	[ps/√km]
	Typical Value	--	0.04	[ps/√km]
Cable Cutoff Wavelength (λ_{cc})		--	≤ 1260	[nm]
Mode Field Diameter (MFD)		1310nm	9.1-9.9	[μm]
		1550nm	9.8-10.8	[μm]
Mode Field Diameter Concentricity Error		--	≤ 0.5	[μm]
Effective Group Index of Refraction (N_{eff})		1310nm	1.466	--
		1550nm	1.467	--
Point Discontinuities		1310nm	≤ 0.05	[dB]
		1550nm	≤ 0.05	[dB]

Geometrical Characteristics

Cladding Diameter	--	125.0±0.7	[μm]
Cladding Non-Circularity	--	≤1.0	[%]
Coating Diameter	--	240-250	[μm]
Coating-Cladding Concentricity Error	--	≤12.0	[μm]
Coating Non-Circularity	--	≤5.0	[%]
Core-Cladding Concentricity Error	--	≤0.6	[μm]
Curl(radius)	--	≥4	[m]
Delivery Length	--	Up to 50.4	[km/reel]
Environmental Characteristics	1310nm, 1550nm & 1625nm		
Temperature Dependence Induced Attenuation	-60°C to +85°C	≤0.05	[dB/km]
Temperature-Humidity Cycling Induced Attenuation	-10°C to +85°C, 98% RH	≤0.05	[dB/km]
Water Immersion Dependence Induced Attenuation	23°C, for 30 days	≤0.05	[dB/km]
Damp Heat Dependence Induced Attenuation	85°C and 85% RH, for 30 days	≤0.05	[dB/km]
Dry Heat Aging	85°C, for 30 days	≤0.05	[dB/km]
Mechanical Specifications			
Proof Test	--	≥9.0	[N]
	--	≥1.0	[%]
	--	≥100	[kpsi]
Macro-bend Induced Attenuation	100 Turns Around a Mandrel of 30	1625nm	≤0.05 [dB]

	mm Radius				
	100 Turns Around a Mandrel of 25 mm Radius	1310nm and 1550nm		≤0.05	[dB]
	1 Turn Around a Mandrel of 16 mm Radius	1550nm		≤0.05	[dB]
Coating Strip Force		typical average force	1.5	[N]	
		peak force	1.3-8.9	[N]	
Dynamic Fatigue Parameter(n_d)		--	≥20	--	

Note:

Other fiber types are available upon request.

Ordering Information:

Name	CO: Patch Cord PT: Pigtail
Fiber Count	SX: Simplex DX: Duplex
Connector 1	SCU: SC/UPC SCA: SC/APC LCU: LC/UPC LCA: LC/APC FCU: FC/UPC FCA: FC/APC ST: ST/UPC
Connector 2	SCU: SC/UPC SCA: SC/APC LCU: LC/UPC LCA: LC/APC FCU: FC/UPC FCA: FC/APC ST: ST/UPC None: Pigtail
Fiber Tipe	SM: Single Mode MM: Multi Mode
Cable Diameter	9: 0.9 mm 2: 2.0 mm 3: 3.0 mm
Color	Y: Yellow Single Mode G657A2 OR: Orange OM2 AQ: Aqua OM3 VL: Erika Violet OM4
Jacket Material	P: PVC LH: LSZH
Cable Length	1M: 1 meter 2M: 2 meters 3M: 3 meters etc