

# Fiber Optical Patch Cord

P/N: FX-IPC- SC-S-xx-xx



As the very basic components during fiber optical link, the patch cord jumper can be customized with various connectors and cables, for different purposes, connector like FC, ST, LC, LC flexible boot, LC with pulling tab, SC, SC bendable boot; cable like simplex, drop cable, armored cable with single mode fiber SM and multimode fiber MM OM1, OM2, OM3, OM4 and OM5.

## Feature

1. Precision Zirconia ferrule to guarantee low loss
2. Bend insensitive fiber
3. Flame-retardant Jacket
4. Full optical testing before delivery
5. Compliant to TIA-604 (FOCIS)

## Standard Compliance

1. Compliant with TIA/EIA
2. Compliant with RoHS
3. Compliant with latest IEC standard

## Specification

Item	Parameter
Fiber Count	Simplex
Fiber Mode	Single mode: 9/125um, OS2 G652D G657 Multimode: 50/125um, OM2, OM3, OM4, OM5, 62.5/125um, OM1
Fiber Grade	Single mode: OS2, ITU-T G.652D., ITU-T G.657 Multimode: ITU-T G.651, OM2, OM3, OM4, OM5, OM1
Cable	Indoor Cable, indoor armored cable
Cable Diameter	0.9mm, 1.6mm, 1.8mm, 2.0mm, 3.0mm, 3.5mm
Flame Retardant	Riser (OFNR), Plenum (OFNP)
Jacket Material	PVC, LSZH, TPU
Jacket Color	OS2 G657: Yellow OM1 Orange, OM2 Orange, OM3 Aqua, OM4 Magenta, OM5 Lime Green
Connector Type	SC to SC/MU/SC/FC/ST/E2000
Physical Contact	APC, UPC
Insertion Loss	$\leq 0.3\text{dB}$ / $\leq 0.2\text{dB}$ / $\leq 0.15\text{dB}$
Return Loss	SM UPC $\geq 50\text{dB}$ , APC $\geq 60\text{dB}$ ; MM PC $\geq 25\text{dB}$
Operating Temperature	-20 °C ~ +70 °C
Storage Temperature	-40 °C ~ +85 °C

## Max. Transmission Distance

Fiber Mode		Max. Transmission Distance						
		Fast ETH 100Base- FX	1Gb ETH 1000BASE -SX	1Gb ETH 1000BA SE- LX	10Gb Base SE- SR	25Gb Base SR- S	40Gb Base SR4	100Gb Base SR10
Single Mode	OS2	200m	5000m	5000m	10km	/	/	/
Multimode	OM1	200m	275m	550m	/	/	/	/
	OM2	200m	550m	550m	/	/	/	/
	OM3	200m	550m	550m	300m	70m	100m	100m
	OM4	200m	550m	550m	400m	100m	150m	150m
	OM5	200m	550m	550m	300m	100m	400m	400m