

## Optical Patch Cord and Pigtails

### Features:

- ◆ High dense spaces
- ◆ Low insertion loss, high return loss
- ◆ Excellent mechanical endurance
- ◆ High credibility and stability
- ◆ Good in repeatability and exchangeability
- ◆ 100% Insertion, Return Loss, End Face and Interference inspection



### Applications:

- ◆ Telecommunication
- ◆ CATV, FTTH, LAN
- ◆ Fiber optic sensors
- ◆ Optical transmission system
- ◆ Test equipment

### Description:

Fiber optic patch cord is used for linking the equipment and components in fiber optic network, is comprised of a polymer outer body and inner assembly fitted with a precision alignment mechanism. The combination of a ceramic/phosphor bronze alignment sleeves and precision molded polymer housing provides consistent long-term mechanical and optical performance.

OSM offer kinds of fiber patch cord, such as FC, SC, ST, LC, MU, MTRJ, MPO, E2000 series, available for PC/UPC/APC version, provide with SM, MM, OM3 fiber cable, simplex and duplex types, 0.9mm, 2.0mm, 3.0mm cable diameter for choose, different fiber length by customers request.

**Performance Specifications:**

Parameter	Unit	FC, SC, LC				ST, MU			MTRJ, MPO			E2000	
		SM			MM	SM		MM	SM		MM	SM	
		PC	UPC	APC	PC	PC	UPC	PC	PC	UPC	PC	PC	APC
Insertion Loss	dB	≤0.3	≤0.2	≤0.3	≤0.2	≤0.3	≤0.2	≤0.2	≤0.3	≤0.2	≤0.2	≤0.3	≤0.3
Return Loss	dB	≥45	≥50	≥60	≥30	≥45	≥50	≥30	≥45	≥50	≥35	≥55	≥75
Repeatability	dB	≤0.1											
Durability	dB	≤0.2dB typical change, 1000 matings											
Operating Temperature	°C	-20 ~ +75											
Storage Temperature	°C	-40 ~ +85											

**Nomenclature:**

Connector 1	Polishing	Connector 2	Polishing	Fiber Core	Diameter	Fiber Type	Length	Remarks	Color
1: SC SX	P: PC	1: SC SX	P: PC	1: Simplex	1: 0.9mm	6: 62.5/125	1M	A: Armored	BL: Blue
2: ST	U: UPC	2: ST	U: UPC	2: Duplex	2: 2.0mm	5: 50/1255	2M	P: PVC(OFNFR)	YL: Yellow
3: FC	A: APC	3: FC	A: APC	3: 4 fibers	3: 3.0mm	9: 9/125	3M	L: LSZH	OR: Orange
4: LC		4: LC		4: 6 fibers	F: Flat	2: 50/125 OM3 150	...	N: OFNP	RD: Red
5: MTRJ		5: MTRJ		5: 8 fibers		3: 50/125 OM3 300		H: Hytel	BK: Black
6: MTRJ MALE		6: MTRJ MALE		6: 12 fibers		4: 50/125 OM4		O: NYCON	GN: Green
7:SMA		7:SMA		7: 24 fibers				U: TPU	PK: Pink
8: MPO		8: MPO		8: 48 fibers				E: PE	AQ: Aqua
				9: Duplex Round					GR: Grey
A: ESCON		A: ESCON		11: Flat Twin Duplex					WH: White
B: DIN		B: DIN		12: 12 fibers Mini Round					PL: Purple
C: MU		C: MU		13: FTTH 1 fiber					VT: Violet
D: D4		D: D4		14: FTTH 2 fibers					12: 12 colored
E: LX .5		E: LX .5							
F: VF45		F: VF45							
G: SC DX with chips		G: SC DX with chips							
H: LC Uniboot		H: LC Uniboot							
M: FSMA		M: FSMA							