

FIBER OPTICAL PATCHCORDS

Simplex and Duplex Patchcords

General Description

Fiber Optic Patchcords are basically jumper cables for the connection of fiber optic equipment to equipment or patch panel to equipment. It comprised of a patch cable terminated with connectors. There are many variations for fibers, cables and connectors. For fiber, it can be Singlemode or Multimode (50um, 62.5um, OM3 etc.) type. As for cable, there are simplex and duplex types. For connector, to name a few common ones are ST, SC, FC, LC, MTRJ, SMA etc.

FiberTek is able to offer the complete range of Fiber Optic Patchcords mentioned in this data sheet.

Pictures



Singlemode Simplex Patchcord with APC Connectors



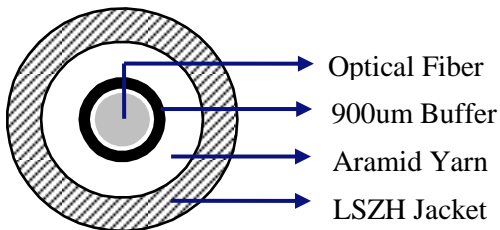
Multimode Duplex Patchcord



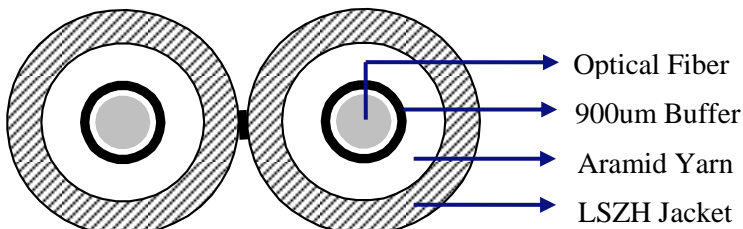
OM3 Patchcord

Patch Cable Basic Construction

Simplex Fiber Optic Patchcord



Duplex Fiber Optic Patchcord



TERMINATION ACCESSORIES

Optical Fiber

900um buffer Singlemode (9/125um G.652D – Standard, G.655 or G.657A), or Multimode (50/125um or 62.5/125um) fibers. Refer to Fiber Properties & Specification Data Sheet for more details.

Aramid Yarn

Aramid yarn is laid over the cable core to serve as peripheral strength member.

Jacket

LSZH jacket is extruded over the aramid yarn.

Outer Jacket Color

Yellow for Singlemode (9/125um G.652D, G.655 & G.657A)

Orange for Multimode (50/125um OM2 & 62.5/125um OM1)

Turquoise for OM3 (50/125um OM3)

Rose for OM4 (50/125um OM4)

Applications

- Patch panels within communications closets
- Communications closet jumper
- Communications closet to wall outlet
- Wall outlet to transceiver
- High bit rate data communications
- Analogue Video Transmission
- Subscriber loop
- Local Area Networks (LANs)

Specifications

Fiber Core Diameter: (SM) 9/125um (G.652D, G.655 & G.657A),
(MM) 50/125um (OM2, OM3 & OM4), 62.5/125um (OM1)

Return Loss (SM only): $\leq -50\text{dB}$ (UPC), $\leq -65\text{dB}$ (APC)

Insertion Loss: $\leq 0.3\text{dB}$ max.

Durability (500 matings): $\leq 0.2\text{dB}$ max increase

Operating Temperature: -20 ~ +70 degree Celsius

Safety Compliance

LSZH Grade Halogen Content Test: IEC 60754-1
Acidity Test: IEC 60754-2
Smoke Emission Test: IEC 61034-1/2
Flammability Test: IEC60332-1 & -3C



TERMINATION ACCESSORIES

Ordering Information

Product Part No.: AABCC%%PP###Z	
Part No. Abbreviation	Description
AABB	Indicate type of connector AA & BB: MTRJ UPC Connector MT – MTRJ Female MTM – MTRJ Male E2 – E2000 UPC Connector E2A – E2000 APC Connector LC – LC UPC Connector LCA – LC APC Connector SC – SC UPC Connector SCA – SC APC Connector ST – ST UPC Connector FC – FC UPC Connector FCA – FC APC Connector MU – MU UPC Connector SA – SMA UPC Connector
CC%%	Indicate Fiber type of the patchcord MM50 – Multimode 50/125um (OM2) SM09 – Singlemode 9/125um (G.652D) MM53 – Multimode 50/125um (OM3) SM95 – Singlemode 9/125um (G.655) MM54 – Multimode 50/125um (OM4) SM97 – Singlemode 9/125um (G.657A) MM62 – Multimode 62.5/125um (OM1)
PP	Indicate fiber patch cable type SX – Simplex Type DX – Duplex Type
###	Indicate Length of the patchcord Eg. 001 / 010 – 1 meter / 10 meter
Z	Indicate the patch cable jacket material Z – LSZH
REMARKS Product Part No. Example.: LCSCASM09DX005Z – LC(UPC) SCA(APC) Singlemode Duplex Patchcord, 5M, LSZH 1. Singlemode patchcord is not available for SMA connector. 2. APC connector is available in both Singlemode and Multimode types. 3. APC connector is not available for ST, MTRJ, MU and SMA types. 4. APC connector and boot are green in colour.	

