

## Fibre Optical Patch Cords

### 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.

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

#### Pictures



**Singlemode Simplex Patchcord  
with APC Connectors**



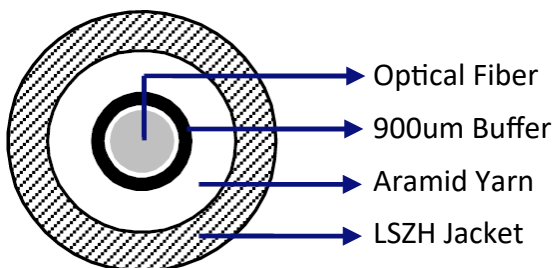
**Multimode Duplex  
Patchcord**



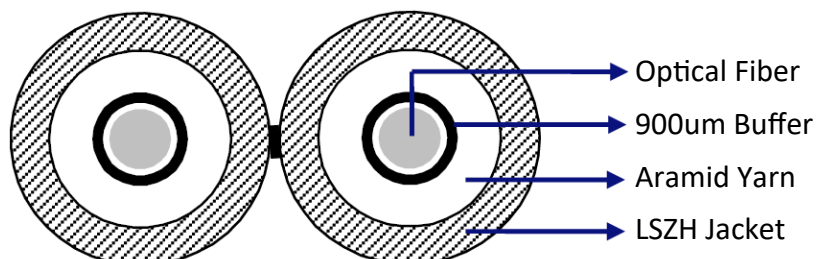
**OM3 Patchcord**

#### Patch Cable Basic Construction

##### Simplex Fiber Optic Patchcord



##### Duplex Fiber Optic Patchcord



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#### Optical Fiber

900um buffer Singlemode (9/125um G.652D –Standard, G.655 or G.657A), or Multimode (50/125um or 62.5/125um) fibers FRLSZH. 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 (9/125µm G.652D, G.655 & G.657A)  
 Orange for Multimode (50/125µm OM2 & 62.5/125µm OM1)  
 Turquoise for OM3 (50/125µm OM3)  
 Rose for OM4 (50/125µm OM4)

#### Standards

- IEC 60874-20, IEC 60874-10, IEC 60874-14
- IEC 60793-2-50 B1.1, IEC 60793-2-10 A1a, IEC 60793-2-50 B1.3, IEC 60793-2-10 A1b, IEC 60793-2-10
- ISO/IEC 11801 2nd Ed. Amd 1.0, Amd 2.0
- TIA/EIA 568, EIA/TIA 492AAAB, EN 50173-1:2002

#### Applications

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

#### Specifications

Fiber Core Diameter:	(SM) 9/125µm (G.652D, G.655& G.657A), (MM) 50/125µm (OM2,OM3& OM4), 62.5/125µm (OM1)
quality:	Premium
Return Loss(SM only):	<-50dB (UPC), ≤ -65dB (APC)
Insertion Loss:	<0.3dB max.
Durability (500 matings):	<0.2dB max increase
Electrical data:	LC Connector according to CEI 61754-20
Operating Temperature:	-20 ~ +70 degree Celsius
Overall cable diameter:	F8 2.0 x 4.1 mm (±0.15)
Cable Diameter:	2.1 mm

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#### Electrical data

STANDARD : LC Connector according to CEI 61754-20

#### 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

Protection class IP: IP 20

#### Ordering Information

Fibre Optical Patch Cords Multimode	
Reference	Description
AD-CO-MM50/125-XY-Z	ADTronics Fibre Optical Patch Cords Multimode 50/125 XY for a Length of Z meter
AD-CO-MM50/125-3-XY-Z	ADTronics Fibre Optical Patch Cords Multimode 50/125 OM3 XY for a Length of Z meter
AD-CO-MM50/125-4-XY-Z	ADTronics Fibre Optical Patch Cords Multimode 50/125 OM4 XY for a Length of Z meter
Fibre Optical Patch Cords Singlemode	
Reference	Description
AD-CO-SM-Z-XY	ADTronics Fibre Optical Patch Cords Singlemode XY for a Length of Z meter
AD-CO-SM-Z-XY-AR	ADTronics Armored Fibre Optical Patch Cords Singlemode XY for a Length of Z meter

X = SC-ST-LC  
 Y = SC-ST-LC  
 Z = 1,2,3,4,5 or 10m