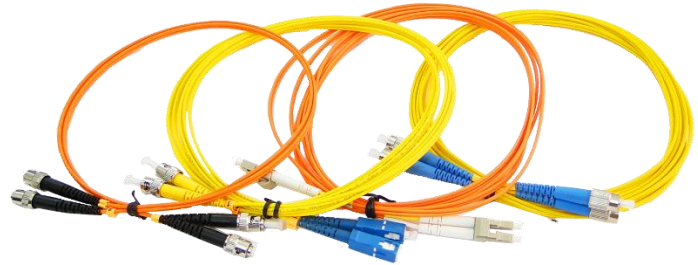


High Quality Fiber Optic Patch Cord



- **High quality zirconia ferrules**
- **Good repeatability and interchangeability**
- **LC/SC/ST/FC/LSH/MTRJ/MU connectors with standard boots are available**
- **LC connectors with 12mm/18mm and SC connectors with 25mm short boots are available**
- **Flame-retardant, rugged and durable jacket**
- **OS2/OM5/OM4/OM3/OM2/OM1 are available**
- **Factory terminated and tested for insertion loss, return loss and end face**

Ascent's fiber optic patch cords make high speed ethernet network equipment connections. They provide superior connections from the workstation to the wall outlet, or from active equipment to the patch panel. These applications include connecting to network interface cards (NIC), or to a fiber hub, router, or switch.

Designed for data center, enterprise, FTTx, LAN and WAN, CATV network, telecom network applications, etc. requiring quick infrastructure deployment such as main, horizontal, and zone distribution areas.

Fiber optic patch cords are ideal for supporting high speed telecommunication network fiber applications. They are manufactured and tested in compliance with TIA 604 (FOCIS), IEC 61754 and YD/T industry standards.

OM1, OM2, OM3, OM4, OM5 or OS2 fiber types are available to meet the demand of Gigabit Ethernet, 10 Gigabit Ethernet and high speed Fiber Channel. Every termination is through rigorous parameter test to ensure the highest network performance.

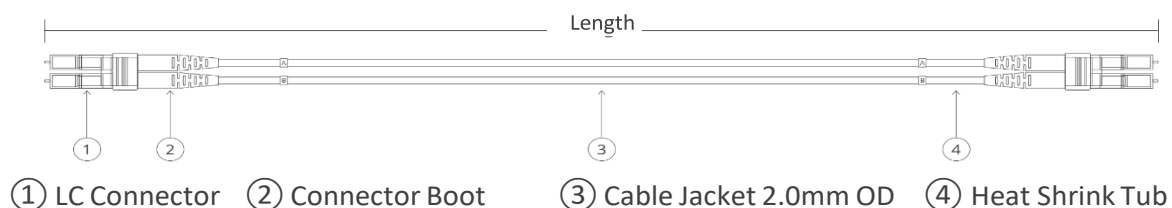
Key Features

- High quality zirconia ferrules
- Good repeatability and interchangeability
- LC/SC/ST/FC/LSH/MTRJ/MU connectors with standard boots are available
- LC connectors with 12mm/18mm and SC connectors with 25mm short boots are available
- Flame-retardant, rugged and durable jacket
- OS2/OM5/OM4/OM3/OM2/OM1 are available
- Factory terminated and tested for insertion loss, return loss and end face

Standard Compliance

- RoHS, ISO 9001, CE, REACH, WEEE Compliant
- TIA 604 (FOCIS)
- TIA/EIA 492AAAE
- IEC 61754
- IEC 60793-2-10
- IEC 61300-3-35
- YD/T1272.1-2003

Technical Drawing



* The total length of this cable is the distance from the connector ferrule at one end to the ferrule at the other end.

Fiber Optic Connectors Guidance

1. LC



Long Form

Lucent Connector/Little Connector/Local Connector

Typical Applications

High-density connections, SFP and SFP+ transceivers,
XFP transceivers

2. SC



Long Form

Subscriber Connector/Square Connector/Standard Connector

Typical Applications

Datacom and telecom; GPON; EPON; GBIC

3. FC



Long Form

Ferrule Connector or Fiber Channel

Typical Applications

Datacom, telecom, measurement equipment,
single mode lasers Datacom

4. ST



Long Form

Straight Tip

Typical Applications

Datacom

5. LSH



Typical Applications

Telecom, DWDM systems

6. MU



Long Form

Miniature Unit

Typical Applications

LANs and telecommunication networks

Specifications

Physical Characteristics

Name	
Connector Types	LC/SC/ST/FC/LSH/MTRJ/MU with Standard Boots; LC 12mm/18mm with Short Boots; SC 25mm with Short Boots
Polish Type	SMF: UPC-UPC; UPC-APC; APC-APC; MMF: UPC-UPC
Connector Ferrule	Zirconia Ceramic
Cable Outside Diameter	Duplex: 1.6/2.0/3.0mm, Simplex: 0.9/2.0/3.0mm
Interchangeability	≤0.2dB
Vibration	≤0.2dB

Mechanical Characteristics

Description	
Fiber Type	Standard Boots: OS2/OM5/OM4/OM3/OM2/OM1; Short Boots: OS2/OM4/OM3
Fiber Count	Duplex/Simplex
Cable Jacket	PVC (Riser/OFNR)/LSZH/Plenum (OFNP)
Fiber Grade	SMF: G.657.A1/ G.657.A2; OM5/OM4/OM3/OM2: Bend Insensitive; OM1: G.651

Fiber Mode	Connector Type	Connector Color	Jacket Color
OS2	LC	Blue/Green Black	Yellow
	SC		
	ST		
	FC		
OM1/OM2	LC	Beige Black	Orange
	SC		
	ST		
OM3	LC	Beige Aqua Black	Aqua
	SC		
	ST		
OM4	LC	Beige Beige	Aqua Aqua
	SC		
OM5	LC	Beige	Lime Green
Vibration	≤0.2dB	≤0.2dB	≤0.2dB
Minimum Bend Radius		SMF	MMF
	OD 2.0/3.0mm	10/5D	20/10D
Fiber Cable (Dynamic/Static)	OD 1.6mm	10/5D	-
	OD 0.9mm	10mm	OM1: 15mm Others: 7.5mm
	OD 0.9/2.0/3.0mm	G.657.A1: 10mm G.657.A2: 7.5mm	OM1: 15mm Others: 7.5mm
Fiber Core	OD 1.6mm	G.657.A1: 10mm	-

Tensile Strength (Long Term/Short Term)

OD 3.0mm
OD 2.0mm
OD 1.6mm
OD 0.9mm

Duplex

120/225N
90/150N
90/150N
-

Simplex

80/150N
60/100N
-
3/6N

Optical Characteristics

Connector Insertion Loss
Connector Return Loss
Attenuation at 1310nm
Attenuation at 1550nm
Attenuation at 850nm
Attenuation at 1300nm

Description

LC/SC/ST/FC/LSH/MU/MTRJ $\leq$ 0.3dB
SMF: UPC $\geq$ 50dB, APC $\geq$ 60dB (LC/SC/ST/FC/MU/MTRJ),
UPC $\geq$ 55dB, APC $\geq$ 75dB (LSH) MMF: UPC $\geq$ 30dB
(LC/SC/ST/FC/LSH/MU), UPC $\geq$ 35 (MTRJ)
G.657.A1: 0.36dB/km
G.657.A2: 0.4dB/km
G.657.A1: 0.22dB/km
G.657.A2: 0.25dB/km
3.0dB/km
1.0dB/km

Environmental Characteristics

Operating Temperature
Storage Temperature

Description

-20~70°C
-40~80°C

Cable Length Tolerances

Cable Length

L $\leq$ 0.5m
0.5m<L $\leq$ 5m
5m<L $\leq$ 10m
10m<L $\leq$ 30m
30m<L $\leq$ 100
L>100m

Duplex/Simplex

+5cm/-0cm
+10cm/-0cm
+15cm/-0cms
+20cm/-0cm
+1%/-0cm
+1.5%/-0cm

Multifiber

+8cm/-0cm
+12cm/-0cm
+15cm/-0cm
+20cm/-0cm
+1%/-0cm
+1.5%/-0cm

Ordering Information

PCD series Patch Cord Ordering Information

PCD-XX-	XX-	XXX-	X	X-	X-	XXX																																																				
<table><tr><th></th><th>Connector A</th></tr><tr><td>SA</td><td>SC/APC</td></tr><tr><td>ST</td><td>ST/APC</td></tr><tr><td>SU</td><td>SC/UPC</td></tr><tr><td>ST</td><td>ST/UPC</td></tr><tr><td>FA</td><td>FC/APC</td></tr><tr><td>UF</td><td>FC/UPC</td></tr><tr><td>LA</td><td>LC/APC</td></tr><tr><td>LU</td><td>LC/UPC</td></tr><tr><td>LP</td><td>LC/PC</td></tr><tr><td>SP</td><td>SC/PC</td></tr></table>		Connector A	SA	SC/APC	ST	ST/APC	SU	SC/UPC	ST	ST/UPC	FA	FC/APC	UF	FC/UPC	LA	LC/APC	LU	LC/UPC	LP	LC/PC	SP	SC/PC		<table><tr><th>Fiber Mode</th></tr><tr><td>OS2</td></tr><tr><td>OM1</td></tr><tr><td>OM2</td></tr><tr><td>OM3</td></tr><tr><td>OM4</td></tr><tr><td>OM5</td></tr></table>	Fiber Mode	OS2	OM1	OM2	OM3	OM4	OM5		<table><tr><th></th><th>Cable Diameter</th></tr><tr><td>2</td><td>2mm</td></tr><tr><td>3</td><td>3mm</td></tr><tr><td>B</td><td>900µm jacketed</td></tr></table>		Cable Diameter	2	2mm	3	3mm	B	900µm jacketed		<table><tr><th></th><th>Cable Length</th></tr><tr><td>003</td><td>3 meters</td></tr><tr><td>005</td><td>5 meters</td></tr><tr><td>010</td><td>10 meters</td></tr><tr><td>050</td><td>50 meters</td></tr><tr><td>100</td><td>100 meters</td></tr><tr><td>500</td><td>500 meters</td></tr></table>		Cable Length	003	3 meters	005	5 meters	010	10 meters	050	50 meters	100	100 meters	500	500 meters	
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References Part Numbers*

*Contact your local sales representatives for more configuration

PCD-LP-SP-OS2-D2-LSZH-020

Optical Patch Cord LC/PC to SC/PC, Single Mode Fiber, Duplex, 2mm, LSZH 20m

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