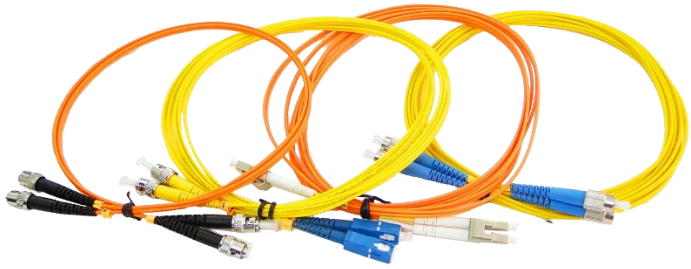
High Quality Fiber Optic Patch Cord



- **High quality zirconia ferrules**
- **Good repeatability and interchangeability**
- **LC/SC/ST/FC/LSH/MTRJ/MU connectors with standard boots are available**
- **LC connectors with12mm/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 with12mm/18mm and SC connectors with 25mm short boots are available
- Flame-retardant, rugged and durable jacket
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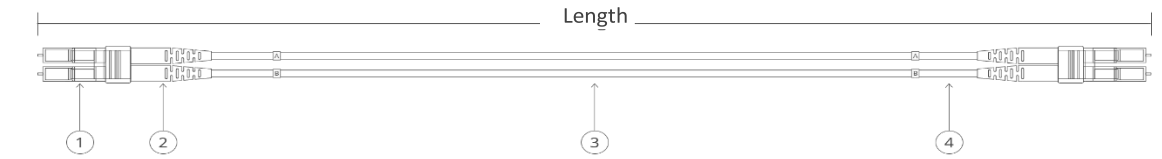
Standard Compliance

- 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



① LC Connector ② Connector Boot ③ Cable Jacket 2.0mm OD ④ Heat Shrink Tub

* 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 SC ST FC	Blue/Green Black	Yellow
OM1/OM2	LC SC ST	Beige Black	Orange
OM3	LC SC ST	Beige Aqua Black	Aqua
OM4	LC SC	Beige Beige	Aqua Aqua
OM5	LC	Beige	Lime Green
Vibration	≤0.2dB	≤0.2dB	≤0.2dB

Minimum Bend Radius		SMF	MMF
Fiber Cable (Dynamic/Static)	OD 2.0/3.0mm	10/5D	20/10D
	OD 1.6mm	10/5D	-
Fiber Core	OD 0.9mm	10mm	OM1: 15mm Others: 7.5mm
	OD0.9/2.0/3.0mm	G.657.A1: 10mm G.657.A2: 7.5mm	OM1: 15mm Others: 7.5mm
	OD1.6mm	G.657.A1: 10mm	-

Tensile Strength (Long Term/Short Term)	Duplex	Simplex
OD 3.0mm	120/225N	80/150N
OD 2.0mm	90/150N	60/100N
OD 1.6mm	90/150N	-
OD 0.9mm	-	3/6N

Optical Characteristics	Description
Connector Insertion Loss	LC/SC/ST/FC/LSH/MU/MTRJ≤0.3dB
Connector Return Loss	SMF: UPC≥50dB, APC≥60dB (LC/SC/ST/FC/MU/MTRJ), UPC≥55dB, APC≥75dB (LSH) MMF: UPC≥30dB (LC/SC/ST/FC/LSH/MU), UPC≥35 (MTRJ)
Attenuation at 1310nm	G.657.A1: 0.36dB/km G.657.A2: 0.4dB/km
Attenuation at 1550nm	G.657.A1: 0.22dB/km G.657.A2: 0.25dB/km
Attenuation at 850nm	3.0dB/km
Attenuation at 1300nm	1.0dB/km

Environmental Characteristics	Description
Operating Temperature	-20~70℃
Storage Temperature	-40~80℃

Cable Length Tolerances

Cable Length	Duplex/Simplex	Multifiber
L≤0.5m	+5cm/-0cm	+8cm/-0cm
0.5m＜L≤5m	+10cm/-0cm	+12cm/-0cm
5m＜L≤10m	+15cm/-0cms	+15cm/-0cm
10m＜L≤30m	+20cm/-0cm	+20cm/-0cm
30m＜L≤100	+1%m/-0cm	+1%m/-0cm
L＞100m	+1.5%m/-0cm	+1.5%m/-0cm

Ordering Information

PCD series Patch Cord Ordering Information

PCD-XX-	XX-	XXX-	X	X-	X-	XXX

	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
PL	LC/PC

	Connector B
SA	SC/APC
ST	ST/APC
SU	SC/UPC
ST	ST/UPC
FA	FC/APC
UF	FC/UPC
LA	LC/APC
LU	LC/UPC
PL	LC/PC

Fiber Mode
OS2
OM1
OM2
OM3
OM4
OM5

	Fiber Count
S	Simplex
D	Duplex

	Cable Diameter
2	2mm
3	3mm
B	900μm jacketed

Cable Jacket
LSZH
OFNP
PVC

	Cable Length
003	3 meters
005	5 meters
010	10 meters
050	50 meters
100	100 meters
500	500 meters

References Part Numbers*

**Contact your local sales representatives for more configuration*

PCD-PL-PL-OS2-D2-LSZH-500 Optical Patch Cord LC/PC to LC/PC, Single Mode Fiber, Duplex, 2mm, LSZH 500m

Contact Information

Ascent Communication Technology Ltd

AUSTRALIA
140 William Street, Melbourne
Victoria 3000, AUSTRALIA
Phone: +61-3-8691 2902

Hong Kong SAR
Room 1210, 12th Floor, Wing Tuck Commercial Centre
181 Wing Lok Street, Sheung Wan , Hong Kong SAR
Phone: +852-2851 4722

CHINA
Unit 1933, 600 Luban Road
200023, Shanghai, CHINA
Phone: +86-21-60232616

USA
2710 Thomes Ave
Cheyenne, WY 82001, USA
Phone: +1 203 350 9822

EUROPE
Pfarrer-Bensheimer-Strasse 7a
55129 Mainz, GERMANY
Phone: +49 (0) 6136 926 3246

VIETNAM
11th Floor, Hoa Binh Office Tower
106 Hoang Quoc Viet Street, Nghia Do Ward
Cau Giay District, Hanoi 10649, VIETNAM
Phone: +84-24-37955917

WEB: www.ascentcomtec.com

EMAIL: sales@ascentcomtec.com

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