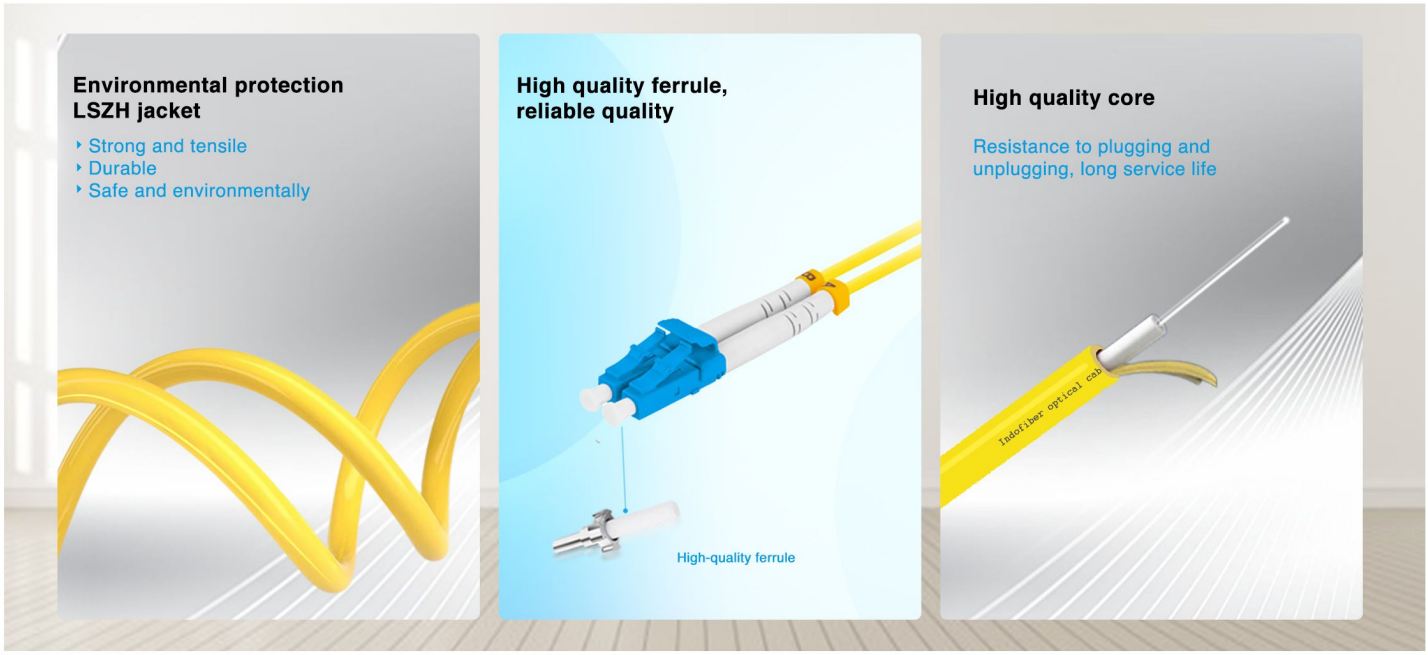
Standard Fiber Patch Cables Datasheet

MAKE HIGH-SPEED ETHERNET NETWORK EQUIPMENT CONNECTIONS

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.



Standard Fiber Patch Cables

Fiber optic patch cables 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 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.

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.
- OS2/OM4/OM3/OM2/OM1 are available.
- Factory terminated and tested for insertion loss, return loss and end face.

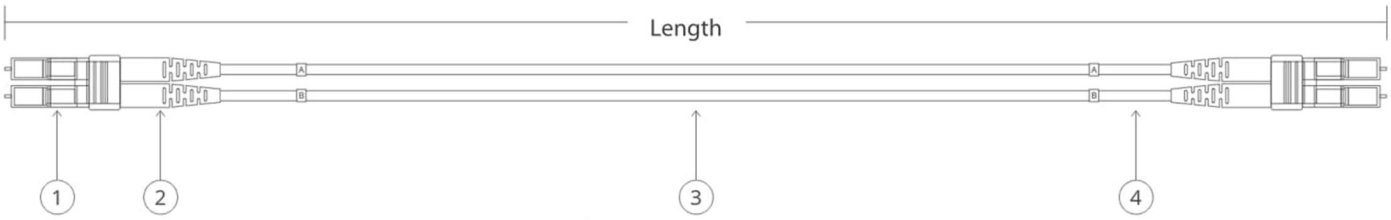
Technical Specification

Physical Characteristics	Description
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-UPC; APC-APC; MMF: UPC-UPC
Connector Ferrule	Zirconia Ceramic
Cable Outside Diameter	Duplex: 3.0mm, Simplex: 3.0mm
Interchangeability	≤0.2dB
Vibration	≤0.2dB
Mechanical Characteristics	**Description**
Fiber Types	Standard Boots: OS2/OM4/OM3/OM2/OM1; Short Boots: OS2/OM4/OM3
Fiber Count	Duplex/Simplex
Cable Jacket	PVC (Riser/OFNR)/LSZH/Plenum (OFNP)
Jacket Color	OM1/OM2: Orange; OM3/OM4: Aqua; OS2: Yellow
Fiber Grade	SMF: G.657.A1; OM4/OM3/OM2: Bend Insensitive; OM1: G.651
Optical Characteristics	**Description**
Connector Insertion Loss	LC/SC/ST/FC/LSH/MU/MTRJ≤0.3dB
Connector Return Loss	SMF: UPC≥50, APC≥60 (LC/SC/ST/FC/MU/MTRJ), UPC≥55, APC≥75 (LSH) MMF: UPC≥30 (LC/SC/ST/FC/LSH/MU), UPC≥35 (MTRJ)
Attenuation at 1310nm	0.36dB/km
Attenuation at 1550nm	0.22dB/km
Attenuation at 850nm	3.0dB/km
Attenuation at 1300nm	1.0dB/km
Environmental Characteristics	**Description**
Operating Temperature	-20~70℃
Storage Temperature	-40~80℃

Transmission Distance Comparison

Data Rate	Interface Type	Fiber Mode	Wavelength	Maximum Distance
1G	1000BASE-LX	OM4	1300nm	550m
		OM3	1300nm	550m
		OM2	1300nm	550m
		OM1	1300nm	550m
		SMF	1310nm	10 km
	1000BASE-SX	OM4	850nm	550m
		OM3	850nm	550m
		OM2	850nm	550m
		OM1	850nm	275m
10G	10GBASE-SR	OM4	850nm	400m
		OM3	850nm	300m
		OM2	850nm	82m
		OM1	850nm	33m
	1000BASE-SX	OM3	1300nm	220m
		OM2	1300nm	220m
		OM1	1300nm	220m
	10GBASE-LR	SMF	1310nm	10km
	10GBASE-ER	SMF	1550nm	30-40km
	10GBASE-ZR	SMF	1550nm	80-100km
40G	40G-BIDI	OM4	850nm	150m
		OM3	850nm	100m
	40GBASE-SR4	OM4	850nm	150m
		OM3	850nm	100m
	40G-SWDM4	OM4	850nm	350m
		OM3	850nm	240m
	40GBASE-LR4	SMF	1310nm	10km
100G	100GBASE-SR4	OM4	850nm	100m
		OM3	850nm	70m
	100G-SWDM4	OM4	850nm	100m
		OM3	850nm	75m
	100GBASE-SR10	OM4	850nm	125m
		OM3	850nm	100m
	100GBASE-LR4	SMF	1310nm	10km
	100GBASE-ER4	SMF	1310nm	40km

Technical Drawing

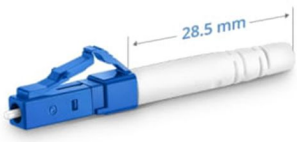


① LC Connector ② Connector Boot ③ Cable Jacket 2.00mm OD ④ Heat Shrink Tub

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

Connectors Boot Type Introduction

1. LC Boot Type



• Standard Boot (28.5mm)

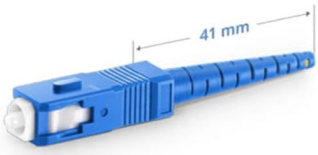


• Short Boot (18mm)



• Short Boot (12mm)

2. SC Boot Type



• Standard Boot (41mm)



• Short Boot (25mm)

3. FC Boot Type



• Standart Boot (25.5mm)

4. ST Boot Type



• Standart Boot (40mm)

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