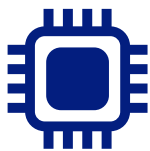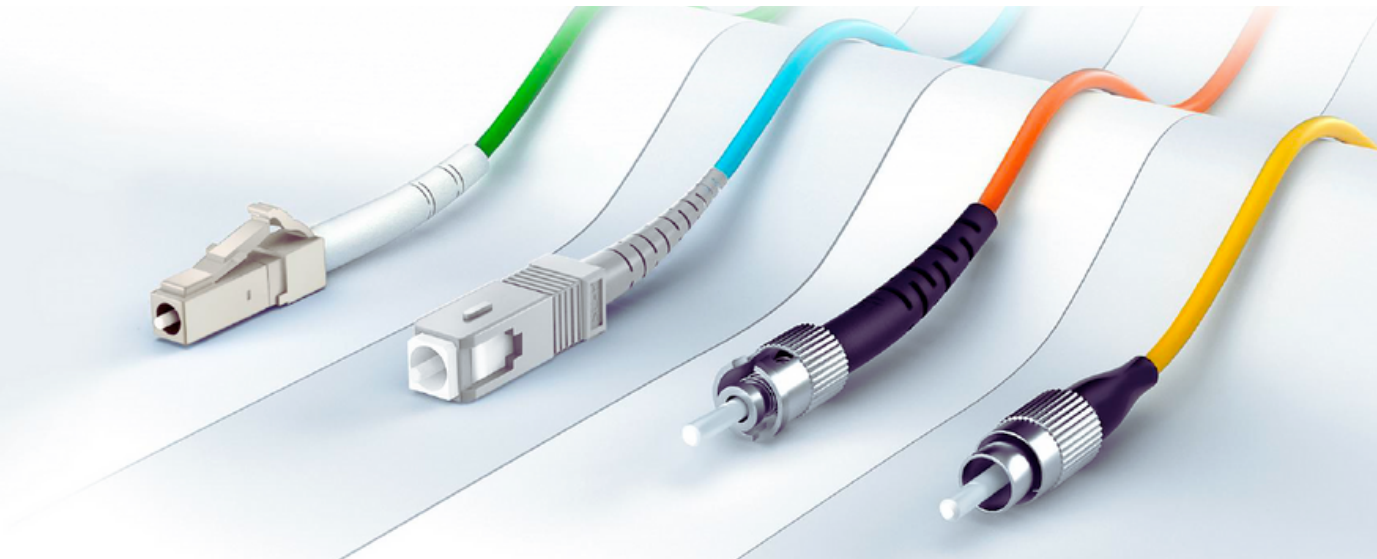# STANDARD FIBER PATCH CABLES

ELfCAM

VERSATILITY

- Multiple fiber types: OM1, OM2, OM3, OM4, OM5, and OS2.
- Supports Gigabit Ethernet, 10 Gigabit Ethernet, and high-speed Fiber Channel.

CONNECTOR OPTIONS

- Wide range of connectors: LC/SC/ST/FC/LSH/MTRJ/MU.
- Short boot options for LC and SC connectors.
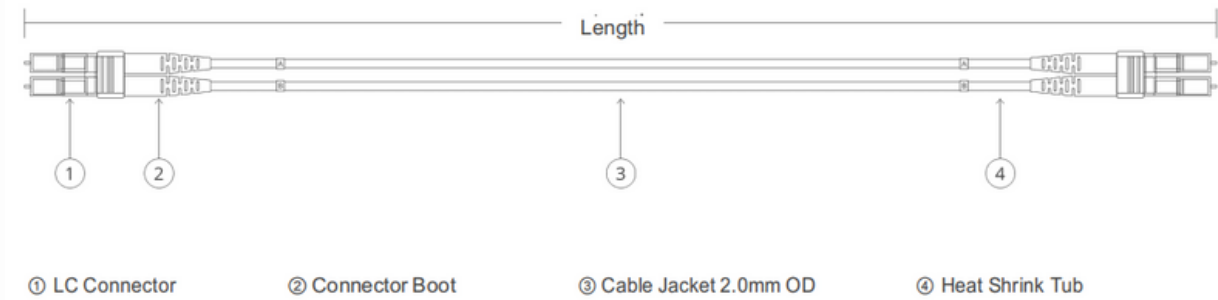
HIGH-QUALITY COMPONENTS

- Repeatability&interchangeability.
- Meets Telcordia GR-326-core, JIS C-5973, TIA/EIA 604 standards.

CUSTOMIZATION

- Customer-specific lengths.
- Various connector types available.

TECHNICAL DRAWING

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

SPECIFICATION

Fiber Mode	Transmission	SFP Connections	Wavelength	Max Length		
OS2	1G	1000MBase-LX	1310nm	10km		SINGLEMODE
	10G	10GBase-LR	1310nm	10km		
		10GBase-ER	1550nm	30km		
		10GBase-ZR	1550nm	80km		
	40G	40GBase-LR4	1310nm	10km		
	100G	100GBase-LR4	1310nm	10km		
		100GBase-ER4	1310nm	40km		
OM3	1G	1000MBase-LX	1300nm	550m		MULTIMODE
		1000MBase-SX	850nm	550m		
	10G	10GBase-SR	850nm	300m		
		10GBase-LRM	1300nm	220m		
	40G	40G-BIDI	850nm	100m		
		40GBASE-SR4	850nm	100m		
		40GSWDM4	850nm	240m		
	100G	100GBase-SR4	850nm	70m		
		100GSWDM4	850nm	75m		
		100GBase-SR10	850nm	100m		
OM4	1G	1000MBase-LX	1300nm	550m		MULTIMODE
		1000MBase-SX	850nm	550m		
	10G	10GBase-SR	850nm	400m		
	40G	40G-BIDI	850nm	150m		
		40GBASE-SR4	850nm	150m		
		40GSWDM4	850nm	350m		
	100G	100GBase-SR4	850nm	100m		
		100GSWDM4	850nm	100m		
		100GBase-SR10	850nm	125m		
OM2	1G	1000MBase-LX	1300nm	550m		MULTIMODE
		1000MBase-SX	850nm	550m		
	10G	10GBase-SR	850nm	80m		
		10GBase-LRM	850nm	220m		
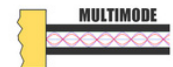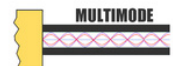
Elfcam has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.

TRANSMISSION DISTANCE COMPARISON

Data Rate	Interface Type	Fiber Mode	Wavelength	Maximum Distance
1G	1000BASE-LX	OM5	850nm	550m
		OM4	1300nm	550m
		OM3	1300nm	550m
		OM2	1300nm	550m
		OM1	1300nm	550m
		SMF	1310nm	10km
	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
	10GBASE-LRM	OM5	850nm	220m
		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	OM5	850nm	200m
		OM4	850nm	150m
		OM3	850nm	100m
	40GBASE-SR4	OM5	850nm	150m
		OM4	850nm	150m
		OM3	850nm	100m
	40G-SWDM4	OM5	850nm	440m
		OM4	850nm	350m
		OM3	850nm	240m
	40GBASE-LR4	SMF	1310nm	10km
100G	100GBASE-SR4	OM5	850nm	100m
		OM4	850nm	100m
		OM3	850nm	70m
	100G-SWDM4	OM5	850nm	150m
		OM4	850nm	100m
		OM3	850nm	75m
	100GBASE-SR10	OM4	850nm	125m
		OM3	850nm	100m
	100GBASE-LR4	SMF	1310nm	10km
	100GBASE-ER4	SMF	1310nm	40km

CABLE LENGTH TOLERANCES

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

FIBER OPTIC CONNECTORS GUIDANCE

LC

Long Form

• Lucent Connector/Little Connector/Local Connector

Typical Applications

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

SC

Long Form

• Subscriber Connector/Square Connector/Standard Connector

Typical Applications

• Datacom and telecom; GPON; EPON; GBIC

FC

Long Form

• Ferrule Connector or Fiber Channel

Typical Applications

• Datacom, telecom, measurement equipment, single mode lasers

ST

Long Form

• Straight Tip

Typical Applications

Datacom

LSH

Typical Applications

• Telecom, DWDM systems
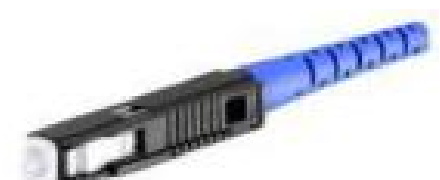
MU

Long Form
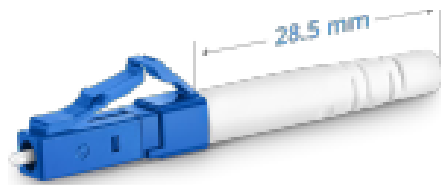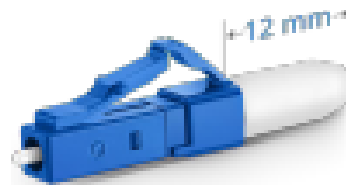
• Miniature Unit

Typical Applications

• LANs and telecommunication networks
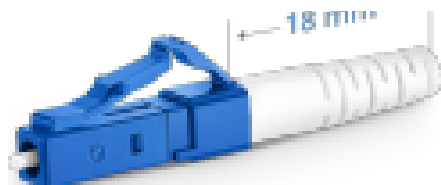
CONNECTORS BOOT TYPE INTRODUCTION

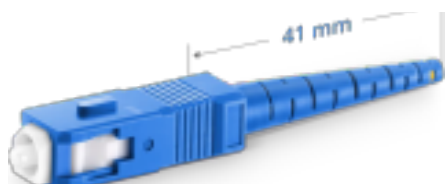## 1. LC BOOT TYPE

28.5 mm

**STANDARD BOOT
(28.5MM)**

12 mm

**SHORT BOOT
(12MM)**

18 mm

**SHORT BOOT
(18MM)
OD: 1.6/2.0MM**

18 mm

**SHORT BOOT (18MM)
OD: 3.0MM**

2. SC BOOT TYPE

41 mm

**STANDARD BOOT
(41MM)**

25 mm

**SHORT BOOT
(25MM)**

**The Fiber
Solution
Specialist**
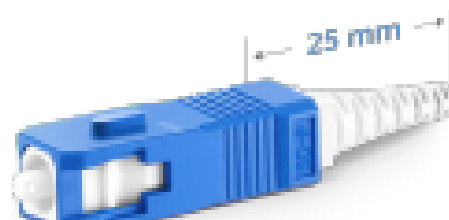
ELfCAM

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