

# FC Fiber Optic Connectors

## Application and Properties:

FC Fiber optic connectors have a dense and compact design, and is therefore used in simplex and duplex connections. The connectors are widely used in a variety of telecommunication equipment, and thus reduces the space required on racks, casings, panels

### Applications:

- Telecommunication
- CATV
- LAN & WAN
- Network
- Broadband



## - Other Details

- Single mode and Multi mode
- PC, UPC, APC polishing
- High resistance of the connector to the flammability
- Available in simplex, duplex
- Low return loss & insertion loss
- Excellent optical performance
- High stability & durability
- Compliant with TIA/EIA, ANSI, IEC, NTT, JIS
- Compliant with ROHS
- High tensile strength
- High temperature stability



## - Technical Specification

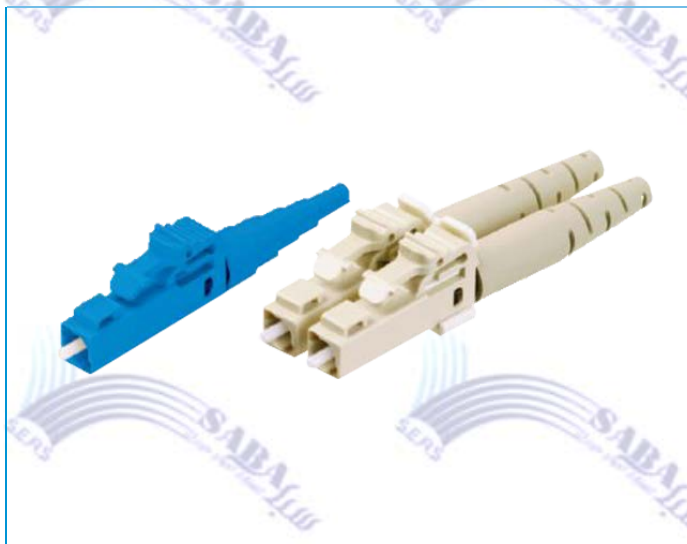
Item	Data
Fiber compatibility	62.5/125μm OM1, 50/125μm OM2, 10Gig 50/125μm laser optimized OM3/OM4 and 9/125μm OS1
Insertion loss	<0.2db , max:0.3 dB
Return loss	PC>45 dB , UPC>50dB , APC>60 dB
Cable size	0.9mm, 2.0mm or 3.0mm
Ferrule type	Zirconia Ceramic
Durability	< 0.2dB change, 500 mating cycles
Temperature	-40 to +85°C
	IEC 61754-13, TIA/EIA 604-4

## Ordering Information

Item	Connector type	Ferrule type	Fiber type		Connector model		Cable diameter	
Fiber Optical Connector	SC	UPC	SM	Single Mode, 9/125	SX	Simplex	09	0.9 mm
	LC		OM1	Multi Mode, 62.5/125			20	2.0 mm
	ST	APC	OM2	Multi Mode, 50/125	DX	Duplex		
	FC		OM3	Multi Mode, 50/125				
	MU		OM4	Multi Mode, 50/125	30	3.0 mm		

Ordering Information: SABA-FOC-FC-UPC-SX-SM-20

# LC Fiber Optic Connectors



## Application and Properties:

LC Fiber optic connectors are widely used in a variety of telecommunication equipment, in other words, it is half the standard of the other connectors, and thus reduces the space required on racks, casings, panels

### Applications:

- Telecommunication
- CATV
- LAN & WAN
- Network
- Broadband

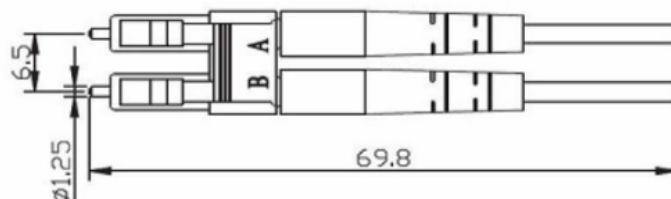
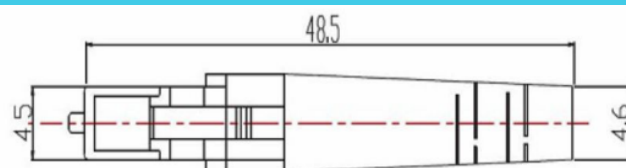
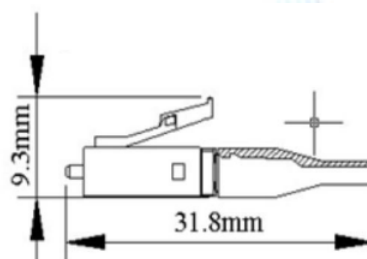
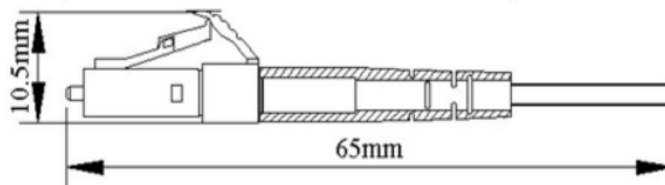
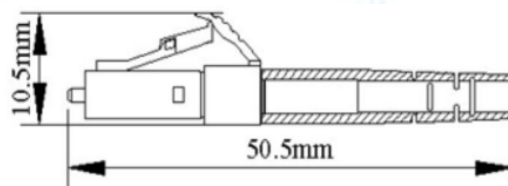
## - Other Details

- Single mode and Multi mode
- PC, UPC, APC polishing
- High resistance of the connector to the flammability
- Available in simplex, duplex
- Low return loss & insertion loss
- Excellent optical performance
- High stability & durability
- Compliant with TIA/EIA, ANSI, IEC, NTT, JIS
- Compliant with ROHS
- High tensile strength
- High temperature stability

## - Technical Specification

Item	Data
Fiber compatibility	62.5/125 $\mu$ m OM1, 50/125 $\mu$ m OM2, 10Gig 50/125 $\mu$ m laser optimized OM3/OM4 and 9/125 $\mu$ m OS1
Insertion loss	<0.2db , max:0.3 dB
Return loss	PC>45 dB , UPC>50dB , APC>60 dB
Cable size	0.9mm, 2.0mm or 3.0mm
Ferrule type	Zirconia Ceramic
Durability	< 0.2dB change, 500 mating cycles
Temperature	-40 to +85°C
Standard	IEC61754-20, IEC61300-2-2, IEC61753-1, TIA-604-10 RoHS

## Types of LC/PC Connectors



## Ordering Information

Item	Connector type	Ferrule type	Fiber type		Connector model		Cable diameter	
Fiber Optical Connector	SC	UPC	SM	Single Mode, 9/125	SX	Simplex	09	0.9 mm
	LC		OM1	Multi Mode, 62.5/125			20	2.0 mm
	ST	APC	OM2	Multi Mode, 50/125	DX	Duplex	30	3.0 mm
	FC		OM3	Multi Mode, 50/125				
	MU		OM4	Multi Mode, 50/125				

Ordering Information: SABA-FOC-LC-UPC-SX-SM-20

# MU Fiber Optic Connector



## Application and Properties:

MU fiber optic connectors and related MU fiber products feature the small form design. This small form factor connector is approximately half the size of the SC connector, and has a push-pull style design and are therefore well suited for high density applications.

Applications:

CATV, LAN, SONET/SDH, ATM and WDM

## - Other Details

- Available fiber diameter: 0.9mm, 2.0mm, 3.0mm
- Usually mounted in a distribution panel or wall box.
- Available in single mode & multi-mode
- Compact, pull-proof design
- Low insertion loss and back reflection loss
- One piece construction
- Housing and boot are made from UL-rated material.
- High corrosion resistant body
- NTT-MU hardware compatibility
- NTT & JIS compliance

## - Technical Specification

Item	Parameter
Fiber compatibility	62.5/125 $\mu$ m OM1, 50/125 $\mu$ m OM2, 10Gig 50/125 $\mu$ m laser optimized OM3/OM4 and 9/125 $\mu$ m OS1
Insertion loss	<0.2db
Return loss	PC>45 dB , UPC>50dB , APC>60 dB
Ferrule type	Tunable zirconia
Resistance to corrosion	High
Durability	< 0.2dB change, 1000 mating cycles
Temperature	-40°C to +80°C

## Ordering Information

Item	Connector type	Ferrule type	Fiber type		Connector model		Cable diameter	
Fiber Optical Connector	SC	UPC	SM	Single Mode, 9/125	SX	Simplex	09	0.9 mm
	LC		OM1	Multi Mode, 62.5/125			20	2.0 mm
	ST	APC	OM2	Multi Mode, 50/125	DX	Duplex		
	FC		OM3	Multi Mode, 50/125				
	MU		OM4	Multi Mode, 50/125				

Ordering Information: SABA-FOC-MU-UPC-SX-SM-20



# SC Fiber Optic Connectors



## Application and Properties:

SC Fiber optic connectors have a dense and compact design, and is therefore used in simplex and duplex connections.

SC Fiber optic connectors, although are old, but are currently most used connectors in WAN networks and It's getting more popular day by day. SC connector is a snap in connector.

### Applications:

- Telecommunication
- CATV
- LAN & WAN
- Network
- Broadband

## - Other Details

- Single mode and Multi mode
- PC, UPC, APC polishing
- High resistance of the connector to the flammability
- Available in simplex, duplex
- Low return loss & insertion loss
- Excellent optical performance
- High stability & durability
- Compliant with TIA/EIA, ANSI, IEC, NTT, JIS
- Compliant with ROHS
- High tensile strength
- High temperature stability



## - Technical Specification

Item	Data
Fiber compatibility	62.5/125μm OM1, 50/125μm OM2, 10Gig 50/125μm laser optimized OM3/OM4 and 9/125μm OS1
Insertion loss	<0.2db , max:0.3 dB
Return loss	PC>45 dB , UPC>50dB , APC>60 dB
Cable size	0.9mm, 2.0mm or 3.0mm
Ferrule type	Zirconia Ceramic
Durability	< 0.2dB change, 500 mating cycles
Temperature	-40 to +85°C
Standard	EIA/TIA-568A, JIS C 5973, ANSI, IEC RoHS

## Ordering Information

Item	Connector type	Ferrule type	Fiber type		Connector model		Cable diameter	
Fiber Optical Connector	SC	UPC	SM	Single Mode, 9/125	SX	Simplex	09	0.9 mm
	LC		OM1	Multi Mode, 62.5/125			20	2.0 mm
	ST	APC	OM2	Multi Mode, 50/125	DX	Duplex		
	FC		OM3	Multi Mode, 50/125				
	MU		OM4	Multi Mode, 50/125	30	3.0 mm		

Ordering Information: SABA-FOC-SC-UPC-SX-SM-20