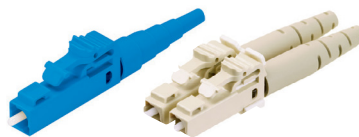


# LC Fiber Optic Connectors

## SPECIFICATIONS

LC small form factor (SFF) field polish connectors with rear pivot latch shall be TIA/EIA-604 FOCIS-10 compatible. LC simplex and duplex connectors shall be field terminable. The fibers shall terminate in 0.049 in. (1.25mm) ceramic ferrules with non-optical disconnect functionality and an average insertion loss of 0.1dB per mated pair for multimode and singlemode fiber.



## TECHNICAL INFORMATION

<b>Standards requirements:</b>	TIA/EIA-604 FOCIS-10 compatible; exceeds TIA/EIA-568-B.3 requirements
<b>Fiber compatibility:</b>	62.5/125µm OM1, 50/125µm OM2, 10Gig <sup>™</sup> 50/125µm laser optimized OM3/OM4 and 9/125µm OS1
<b>Fiber cable type:</b>	900µm tight-buffered fiber recommended 250µm coated fiber, by using F250BT-C 250 micron fiber build-up tube kit or FO6CB or FO12CB fan-out kit
<b>Jacketed cable size:</b>	0.062 in. - 0.078 in. (1.6mm – 2.0mm) jacketed cable
<b>Ferrule type:</b>	Zirconia ceramic
<b>Insertion loss:</b>	0.1dB average (multimode and singlemode)
<b>Return loss:</b>	>20dB (multimode), >40dB (singlemode)

## KEY FEATURES AND BENEFITS

<b>Rear pivot latch design, robust construction:</b>	Longer beam reduces deflection during mating and unmating to reduce latch fatigue, leading to longer cycle life
<b>Audible “click” upon successful mating:</b>	Provides user with a definitive signal of successful connector mating
<b>Field installable duplex clip with integrated polarity markers:</b>	Allows fast, easy field polarity changes without tools; quick identification of polarity
<b>Protective cap locks onto connector latch with audible “click”:</b>	Protective cap automatically locks onto connector latch, completely covering connector end; prevents ferrule end face damage by providing protection from contamination and impact
<b>Anaerobic adhesive field installation:</b>	Simplifies and reduces installation time by 50% compared to heat cured epoxy terminations; curing oven/time not required
<b>Independent free-floating ferrules:</b>	Ensures physical fiber contact for consistent low return loss, unlike unitary multi-fiber ferrule connectors

## APPLICATIONS

LC F LC Fiber Optic Connectors provide a rugged solution for high-density telecommunication rooms, LANs, public networks and fiber-to-the-desk applications. LC simplex and duplex connectors are used for equipment cross-connections or interconnects in backbone, horizontal and work area applications for high-speed data transmissions. The high-density design and 0.049 in. (1.25mm) ferrules double the port density (compared to SC connectors) to reduce space requirements on racks, enclosures, panels and faceplates.

### LC Simplex Fiber Optic Connectors for 900µm Buffered Fiber and 1.6mm – 2.0mm Jacketed Cable

**OM2, OM3, OM4 Multimode:** FLCSMBLY

**OS2 Singlemode:** FLCSSBUY

### Opticom<sup>®</sup> LC Fiber Adapter Panels

**16 duplex 10 GbE (zirc.):** FAP6WAQDLCZ

**6 duplex SM (zirc.):** FAP6WBUDLCZ

**12 simplex SM (zirc.):** FAP12WBULCZ

### LC Termination Tooling

**110V termination kit:** FIELDKIT

**Replacement kit:** FIELDKITRFB

### LC Lock-in Duplex Clip

**LC lock-in duplex clip:** FLCCLIW-X

-X indicates bulk packages of 10 pieces to reduce single-use plastic



All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

# LC Fiber Optic Connectors

## PERFORMANCE INFORMATION

Test Parameter	Description	Result
Qualification test suite (TIA/EIA-568-B.3 requirements)	Complete testing protocol per TIA/EIA-568-B.3 using TIA/EIA FOTPs that include mechanical, environmental and optical test sequences	Compliant; exceeds TIA/EIA-568-B.3 requirements
Connector intermatability	Dimensional and material compliance to TIA/EIA standards	All connectors are FOCIS compatible with TIA/EIA-604-3

## SELECTION INFORMATION

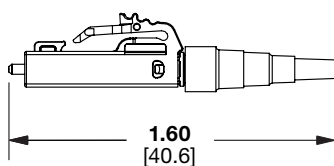
Part Number	Connector Type	Cable Type in. (mm)	Fiber	Ferrule	Housing Color	Boot Color	Average Insertion Loss**	Return Loss
FLCSMEIY	Simplex	900µm buffered fiber and 0.062 - 0.078 (1.6 - 2.0) jacketed cable	OM1 Multimode	Zirconia Ceramic	Electric Ivory	Electric Ivory	0.1dB	>20
FLCSM3.0EI	Simplex	0.118 (3.0) jacketed cable						
FLCDMEIY	Duplex	0.062 - 0.078 (1.6 - 2.0) jacketed cable						
FLCDM900EIY	Duplex	900µm buffered fiber						
FLCDM3.0EI	Duplex	0.118 (3.0) jacketed cable						
FLCSMBLY	Simplex	900µm buffered fiber and 0.062 - 0.078 (1.6 - 2.0) jacketed cable	OM2, OM3, OM4 Multimode	Zirconia Ceramic	Black	Aqua	0.1dB	>20
FLCSM3.0BL	Simplex	0.118 (3.0) jacketed cable						
FLCDMBLY	Duplex	0.062 - 0.078 (1.6 - 2.0) jacketed cable						
FLCDM900BLY	Duplex	900µm buffered fiber						
FLCDM3.0BL	Duplex	0.118 (3.0) jacketed cable						
FLCSSBUY	Simplex	900µm buffered fiber and 0.062 - 0.078 (1.6 - 2.0) jacketed cable	Singlemode	Zirconia Ceramic	Blue	Blue	0.1dB	>40
FLCSS3.0BU	Simplex	0.118 (3.0) jacketed cable						
FLCDSBUY	Duplex	0.062 - 0.078 (1.6 - 2.0) jacketed cable						
FLCDS900BUY	Duplex	900µm buffered fiber						
FLCDS3.0BU	Duplex	0.118 (3.0) jacketed cable						

\*All connector insertion loss values calculated from tests taken with precision launch jumper assemblies per TIA/EIA-FOTP-171.

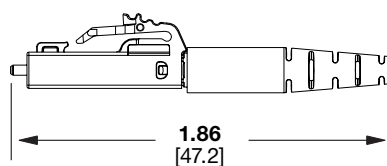
## ENGINEERING DRAWING

### LC Simplex Connectors

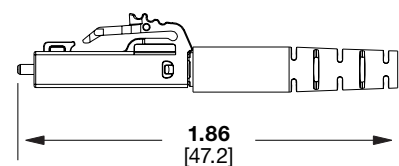
For 900µm Buffered Fiber or 1.6mm – 2.0mm Jacketed Cable



FLCSMEIY, FLCSSBUY



For 3.0mm Jacketed Cable



FLCSM3.0EI, FLCSS3.0BU

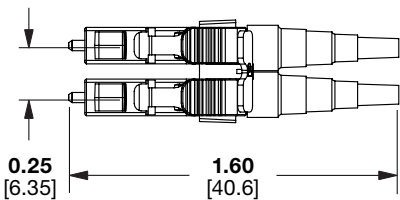
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# LC Fiber Optic Connectors

## ENGINEERING DRAWING (CONTINUED)

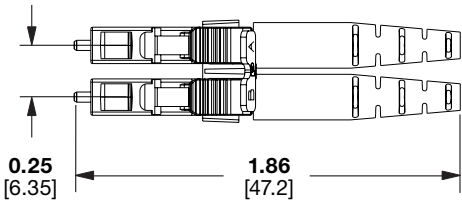
### LC Duplex Connectors

For 900µm Buffered Fiber



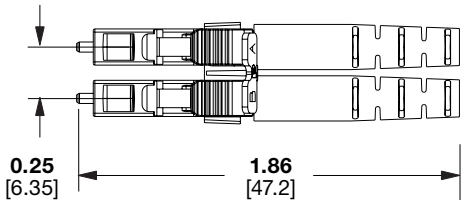
FLCDM900EIY, FLCDS900BUY

For 1.6mm – 2.0mm Jacketed Cable



FLCDMEIY, FLCDSBUY

For 3.0mm Jacketed Cable



FLCDM3.0EI, FLCDS3.0BU

Dimensions are in inches. [Dimensions in brackets are metric].

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