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 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.
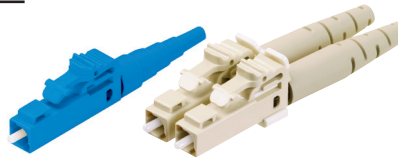
technical information

Standards requirements:	TIA/EIA-604 FOCIS-10 compatible; exceeds TIA/EIA-568-B.3 requirements
Fiber compatibility:	62.5/125µm OM1, 50/125µm OM2,10Gig™ 50/125µm laser optimized OM3/OM4 and 9/125µm OS1
Fiber cable type:	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
Jacketed cable size:	1.6mm – 2.0mm jacketed cable
Ferrule type:	Zirconia ceramic
Insertion loss:	0.1dB average (multimode and singlemode)
Return loss:	>20dB (multimode), >40dB (singlemode)

key features and benefits

Rear pivot latch design, robust construction	Longer beam reduces deflection during mating and unmating to reduce latch fatigue, leading to longer cycle life
Anti-snag latch	Low profile latch resists cable snagging
Wide "positive grip" thumb latch	Multi-grooved, full body width thumb latch improves grip for better control during matings/unmatings; promotes fast, easy MACs (moves, adds, changes) in high-density applications
Audible "click" upon successful mating	Provides user with a definitive signal of successful connector mating
Field installable duplex clip with integrated polarity markers	Allows fast, easy field polarity changes without tools; quick identification of polarity
One connector body design for both simplex and duplex applications	A single connector design is used for both simplex and duplex patch cords and inside the wall applications to simplify installation
Protective cap locks onto connector latch with audible "click"	Protective cap automatically locks onto connector latch, completely covering connector end; prevents ferrule end face damage by providing protection from contamination and impact
Anaerobic adhesive field installation	Simplifies and reduces installation time by 50% compared to heat cured epoxy terminations; curing oven/time not required
Rugged body construction	Stable performance under side loads for improved reliability
Independent free-floating ferrules	Ensures physical fiber contact for consistent low return loss, unlike unitary multi-fiber ferrule connectors
1.25mm ceramic ferrules	Provide the highest durability for repeated matings

applications

Panduit 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-connects or interconnects in backbone, horizontal and work area applications for high-speed data transmissions. The high-density design and 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

OM1 Multimode:	FLCSMEIY
OM2, OM3, OM4 Multimode:	FLCSMBLY
OS2 Singlemode:	FLCSSBUY

LC Simplex Fiber Optic Connectors for 3.0mm Jacketed Cable

OM1 Multimode:	FLCSM3.0EI
OM2, OM3, OM4 Multimode:	FLCSM3.0BL
OS2 Singlemode:	FLCSS3.0BU

LC Duplex Fiber Optic Connectors for 900µm Buffered Fiber

MOM1 Multimode:	FLCDM900EIY
OM2, OM3, OM4 Multimode:	FLCDM900BLY
OS2 Singlemode:	FLCDS900BUY

LC Duplex Fiber Optic Connectors for 1.6mm – 2.0mm Jacketed Cable

OM1 Multimode:	FLCDMEIY
OM2, OM3, OM4 Multimode:	FLCDMBLY
OS2 Singlemode:	FLCDSBUY

LC Duplex Fiber Optic Connectors for 3.0mm Jacketed Cable

OM1 Multimode:	FLCDM3.0EI
OM2, OM3, OM4 Multimode:	FLCDM3.0BL
OS2 Singlemode:	FLCDS3.0BU

Mini-Com® Sr./Jr. LC Adapter Modules

1Duplex MM:	CMDJLC**
Duplex 10 GbE (zirc.):	CMDJAQLCZBL
Duplex SM (zirc.):	CMDJLCZ**

For Sr./Sr., replace J in part number with S.

Opticom® LC Fiber Adapter Panels

16 duplex 10 GbE (zirc.):	FAP6WAQDLCZ
6 duplex MM:	FAP6WEIDLC
6 duplex SM (zirc.):	FAP6WBUDLCZ
12 duplex MM:	FAP12WEIDLC
12 simplex SM (zirc.):	FAP12WBULCZ

QuickNet™ MTP* Cassettes

6 LC to MTP* (12f):	FC^-12-10Y
12 LC to 2 MTP* (24f):	FC^-24-10Y

QuickNet™ Optimized 10 GbE MTP* Cassettes

6 LC to MTP* (12f):	FCXO-12-10Y
12 LC to 2 MTP* (24f):	FCXO-24-10Y

Opti-Core® Fiber Optic Patch Cords

Duplex LC to LC:	F^E10-10M‡Y
Simplex LC to LC:	F^F10-10M‡Y
Duplex SC to LC:	F^E3-10M‡Y
Simplex SC to LC:	F^F3-10M‡Y
Simplex LC to pigtail:	F^B10-NM‡Y

LC Termination Tooling

110V termination kit:	FIELDKIT
230V termination kit:	FIELDKIT-G
Refurbishment kit:	FIELDKITRFB

HD Connector Removal Tool

For LC and SC:	HDCRT

LC Lock-in Duplex Clip

LC lock-in duplex clip:	FLCCLIW-X

****Substitute for module color:**
EI = Electric Ivory	BU = Blue
IG = International Gray	WH = White
TG = Technical Gray	BL = Black
AW = Arctic White	W = Off White
EW = European White	

^Substitute for fiber type: Z (OM4-10 GbE 50/125µm), X (OM3-10 GbE 50/125µm), 5 (OM2-50/125µm), 6 (OM1-62.5/125µm) or 9 (OS1-9/125µm).

‡Substitute for length in meters: 1, 2, 3, 5 or 10 for patch cords, and 1, 2 or 3 for pigtails; singlemode patch cords are also available in 12, 15, 25 or 30 meter lengths. Contact Customer Service for other available lengths.

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

*All connector insertion loss values calculated from tests taken with precision launch jumper assemblies per TIA/EIA-FOTP-171.
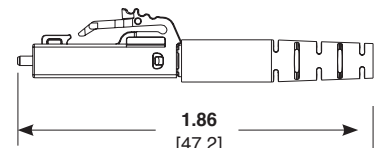
LC SIMPLEX CONNECTORS
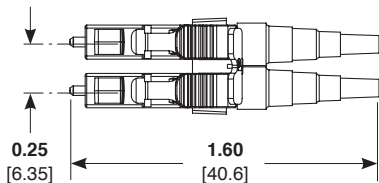
FOR 900μM BUFFERED FIBER OR 1.6MM – 2.0MM JACKETED CABLE

1.60 [40.6]

1.86 [47.2]
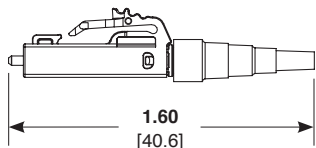
FLCSMEIY, FLCSSBUY

FOR 3.0MM JACKETED CABLE

1.86 [47.2]
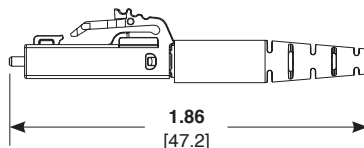
FLCSM3.0EI, FLCSS3.0BU

LC DUPLEX CONNECTORS

FOR 900μM BUFFERED FIBER

0.25 [6.35] 1.60 [40.6]

FLCDM900EIY, FLCDS900BUY

FOR 1.6MM – 2.0MM JACKETED CABLE

0.25 [6.35] 1.86 [47.2]
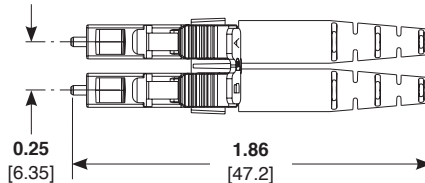
FLCDMEIY, FLCDSBUY

FOR 3.0MM JACKETED CABLE

0.25 [6.35] 1.86 [47.2]
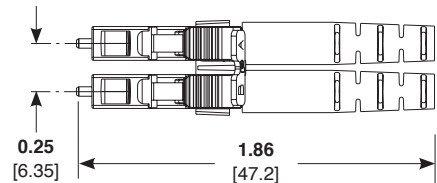
FLCDM3.0EI, FLCDS3.0BU

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

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information
Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

FBSP13--WW-ENG
3/2015

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Fibre Optic Connectors *category:*

Click to view products by Panduit *manufacturer:*

Other Similar products are found below :

0004700001 6100-R 6313 F709722200 F709730000 F718183204 F727403500 F727752800 8119 9440F20-27S-190 944-120-6001 9441F10SL-3S 9444W28-21S 9444W36-10S 9446F10SL-4S 9446W20-16S 953-101-5310-P 954-101-57202B A0270169 12-9122 12-5702 AX101713 AX102420 AX103923 AX104024 AX104193 AX104230 AX104562 AX105203-B25 AX105205-S1 EHSC2M 17-300800 181-011-126 181-011-S 181-057-126 HRFC-R2(40) NKSOPBUY 20500002116 2064996-1 20800001065 2170 9132 2612 2620 9291 9440F16-10S 9440F20-18S 9446F16-10S-190 953-106-50231 953-120-5003