

NEW!

LC OPTICAM™ Pre-Polished Fiber Optic Connectors



SPECIFICATION SHEET

specifications

LC small form factor (SFF) pre-polished connectors with rear pivot latch are TIA/EIA-604 FOCIS-10 compatible and contain a factory-terminated fiber, eliminating field polishing and adhesive. LC pre-polished connectors have an average insertion loss of .3dB per mated pair for multimode fiber. LC pre-polished connectors captivate fiber and buffer in one action allowing for up to two re-terminations with no degradation in performance.




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
Fiber cable type:	900µm tight-buffered cable only
Fiber cable size:	1.6mm – 2.0mm and 3.0mm jacketed cable with optional boots
Ferrule type:	Zirconia ceramic with a pre-polished fiber stub
Insertion loss:	Ceramic: .3dB average (multimode)
Return loss:	Ceramic: >20dB (multimode), >26dB (10Gig™ multimode)

key features and benefits

LC OPTICAM™ Connectors

Factory pre-polished fiber stub endface	Eliminates inconsistent and time-consuming field polishing to deliver required optical performance; reduces termination time (less than half the time of field polish connectors) and the number of installation tools required
Dual cam design with fiber and buffer clamps	Secures both the fiber and the buffer during the camming step to facilitate consistent termination results; reduces the termination time compared to conventional termination methods
	Allows up to two re-terminations to achieve optimum termination results; reduces the number of rejected connectors and terminations to provide yield rates approaching 100% for lower installed costs
Translucent housing assembly	Facilitates inspection of the fiber termination quality; results in rapid installations, improved termination yields, and lower installed costs
Non-optical disconnect	Maintains data transmission under tensile loads for jacketed cable
Mechanical cable retention	Consistently provides higher than industry standard cable retention; requires no adhesive, speeding installation

OPTICAM™ Termination Tool

Universal termination tool	Secures both fiber and buffer in one action for OPTICAM™ Connectors with connector specific cradles; ensures fast, consistent, and optimal terminations
Integrated visual fault locator (VFL)	Offers visual indication of proper termination after the cam step has been completed; virtually eliminates operator error to deliver a lower installed cost

applications

LC fiber optic connectors are widely used in fiber optic backbone and horizontal applications for high-speed data transmission. Typical applications for LC OPTICAM™ Connectors include maintenance or emergency restoration of fiber networks and retrofit/initial install in both behind-the-wall (BTW) and in the permanent side of panelized interconnect and cross-connect.

LC OPTICAM™ Connectors eliminate the need for end face polishing and adhesive providing easier, faster installation, especially in remote areas and confined spaces. The OCTT hand-held tool gives installers the flexibility to terminate in very close proximity to the application without having to switch tools or find benchtop space.

LC OPTICAM™ Pre-Polished Multimode Connectors

10Gig™ 50/125µm (laser optimized) simplex:	FLCSMCXAQ
10Gig™ 50/125µm (laser optimized) duplex:	FLCDMCXAQ
50/125µm simplex:	FLCSMC5BL
50/125µm duplex:	FLCDMC5BL
62.5/125µm simplex:	FLCSMC6BL
62.5/125µm duplex:	FLCDMC6BL

OPTICAM™ 1.6/2.0mm Boots

10Gig™ multimode (aqua):	FMCBT2AQ-X*
Multimode (black):	FMCBT2BL-X

OPTICAM™ 3.0mm Boots

10Gig™ multimode (aqua):	FMCBT3AQ-X*
Multimode (black):	FMCBT3BL-X

*X = Bag of 10 Boots; 100 per carton.

OPTICAM™ Termination Tooling

Pre-polished termination kit – includes OCTT Tool (terminates OPTICAM™ and OPTI-CRIMP® Connectors): FPPKIT

Pre-polished conversion kit – includes OCTT Tool (upgrades OPTI-CRIMP® Kit to also terminate OPTICAM™ Connectors): FPPKIT-CV
LC cradle (2 per pkg.): FLCC

LC Fiber Optic Adapters

10Gig™ multimode:	FADJLCAQ-L
Multimode:	FADJLCEI-L

*L = Bag of 50 adapters; 100 per carton.

MINI-COM® LC Adapter Modules

10Gig™ multimode:	CMDJAQLC**
Multimode:	CMDJEILC**

**Substitute for module color: EI = Electric Ivory, BU = Blue, BL = Black, IW = Off White, AW = Arctic White

OPTICOM® LC Fiber Adapter Panels

6 duplex MM adapters:	FAP6WEIDL
12 duplex MM adapters:	FAP12WEIDL

OPTI-CORE® LC Patch Cords

Duplex LC to LC	F^E10-10M‡
Simplex LC to LC:	F^F10-10M‡
Duplex LC to SC:	F^E10-3M‡
Simplex LC to SC:	F^F10-3M‡

^Substitute for fiber type: 6 = 62.5/125µm OM1, 5 = 50/125µm OM2, X = 10Gig™ 50/125µm OM3 or 9 = 9/125µm OS1.

‡Substitute for length in meters: 1, 2, 3, 5 or 10. Contact Customer Service for other available lengths.

LC OPTICAM™ Pre-Polished Fiber Optic Connectors

performance information

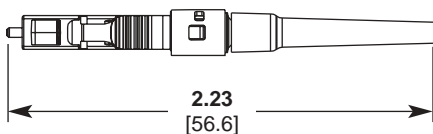
Test Parameter	Description	Result
Qualification test suite (TIA/EIA-568-B.3 requirements)	Complete testing protocol per TIA/EIA-568-B.3 using TIA/EIA FOTPs that include mechanical, environmental, and optical test sequences	Exceeds TIA/EIA-568-B.3 requirements
Connector intermatability	Dimensional and material compliance to TIA/EIA standards	All connectors are FOCIS compatible with TIA/EIA-604-10
Repeated mating	500 mate/unmate cycles Max. insertion loss: .75dB Min. return loss: 20dB	Exceeds TIA/EIA-568-B.3 test requirements: < .1dB additional insertion loss
Fiber tensile load (straight pull)	TIA/EIA-568-B.3 requirement; minimum load of .5 lb. applied without change in insertion loss for 900µm tight-buffered fiber	Exceeds TIA/EIA-568-B.3 requirements for 900µm tight-buffered fiber: >1.0 lb. with < .05 additional insertion loss

selection information

Part Number	Connector Type	Fiber	Ferrule	Ferrule Finish	Backbone Color	Boot Color	Average Insertion Loss*	Return Loss
FLSCMCXAQ	Simplex	10Gig™ 50/125µm (laser optimized) OM3	Zirconia Ceramic	SPC	Aqua	Aqua	.3dB	>26dB
FLCDMCXAQ	Duplex							
FLSCMC5BL	Simplex	50/125µm OM2	Zirconia Ceramic	SPC	Black	Black	.3dB	>20dB
FLCDMC5BL	Duplex							
FLSCMC6BL	Simplex	62.5/125µm OM1	Zirconia Ceramic	SPC	Electric Ivory	Black	.3dB	>20dB
FLCDMC6BL	Duplex							

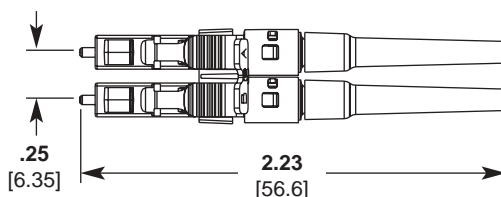
*All connector insertion loss values calculated from tests taken with precision launch jumper assemblies per TIA/EIA-FOTP-171.

LC OPTICAM™ Pre-Polished Simplex Connector



FLSCMC***

LC OPTICAM™ Pre-Polished Duplex Connector



FLCDMC***

OPTICAM™ Termination Tool



OCTT

***Substitute for fiber type: XAQ for 10Gig™ 50/125µm, 5BL for 50/125µm, 6BL for 62.5/125µm

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

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