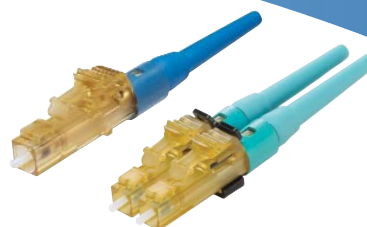


## specifications

LC small form factor (SFF) pre-polished connectors with rear pivot latch shall be TIA/EIA-604 FOCIS-10 compatible and contain a factory-terminated fiber, eliminating field polishing and adhesive. LC pre-polished connectors shall have an average insertion loss of 0.3dB per mated pair for multimode and singlemode fiber. LC pre-polished connectors shall captivate fiber and buffer in one action allowing for up to two re-terminations with no degradation in performance.



## 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™ 50/125µm laser optimized OM3/OM4 and 9/125µm OS1/OS2 |
| <b>Fiber cable type:</b>       | 900µm tight-buffered cable only                                                           |
| <b>Fiber cable size:</b>       | 1.6mm – 2.0mm and 3.0mm jacketed cable with optional boots                                |
| <b>Ferrule type:</b>           | Zirconia ceramic with a pre-polished fiber stub                                           |
| <b>Insertion loss:</b>         | Ceramic: 0.3dB average (multimode and singlemode)                                         |
| <b>Return loss:</b>            | Ceramic: >20dB (multimode), >26dB (10Gig™ multimode), >50dB (singlemode)                  |

## key features and benefits

### LC OptiCam® Connectors

|                                                     |                                                                                                                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Factory pre-polished fiber stub endface</b>      | 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 |
| <b>Dual cam design with fiber and buffer clamps</b> | 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                                           |
| <b>PATENTED</b>                                     | 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                           |
| <b>Translucent housing assembly</b>                 | Facilitates inspection of the fiber termination quality; results in rapid installations, improved termination yields, and lower installed costs                                                                                 |
| <b>Non-optical disconnect</b>                       | Maintains data transmission under tensile loads for jacketed cable                                                                                                                                                              |
| <b>Mechanical cable retention</b>                   | Consistently provides higher than industry standard cable retention; requires no adhesive, speeding installation                                                                                                                |
| <b>Zirconia ceramic ferrules</b>                    | Provide the highest durability for repeated matings                                                                                                                                                                             |

### OptiCam® Termination Tool

|                                                      |                                                                                                                                                                        |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Universal termination tool</b>                    | Secures both fiber and buffer in one action for all OptiCam® Connectors with connector specific cradles (included); ensures fast, consistent, and optimal terminations |
| <b>Integrated visual termination indicator (VTI)</b> | 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 hand-held OptiCam® Termination 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 Connectors with Zirconia Ceramic Ferrules

|                                                   |             |
|---------------------------------------------------|-------------|
| <b>10Gig™ 50/125µm (laser optimized) simplex:</b> | FLCSMCXAQY* |
| <b>10Gig™ 50/125µm (laser optimized) duplex:</b>  | FLCDMCXAQY  |
| <b>50/125µm simplex:</b>                          | FLCSMC5BLY* |
| <b>50/125µm duplex:</b>                           | FLCDMC5BLY  |
| <b>62.5/125µm simplex:</b>                        | FLCSMC6BLY* |
| <b>62.5/125µm duplex:</b>                         | FLCDMC6BLY  |
| <b>9/125µm simplex:</b>                           | FLCSSCBUY*  |
| <b>9/125µm duplex:</b>                            | FLCDSCBUY   |

### OptiCam® 1.6/2.0mm Boots

|                                 |             |
|---------------------------------|-------------|
| <b>10Gig™ multimode (aqua):</b> | FMCBT2AQ-X* |
| <b>Multimode (black):</b>       | FMCBT2BL-X  |
| <b>Singlemode (blue):</b>       | FSCBT2BU-X  |

### OptiCam® 3.0mm Boots

|                                 |             |
|---------------------------------|-------------|
| <b>10Gig™ multimode (aqua):</b> | FMCBT3AQ-X* |
| <b>Multimode (black):</b>       | FMCBT3BL-X  |
| <b>Singlemode (blue):</b>       | FSCBT3BU-X  |

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

### OptiCam® Termination Tooling

|                                                                                                    |             |
|----------------------------------------------------------------------------------------------------|-------------|
| <b>OptiCam® Termination Kit:</b>                                                                   | FCAMKIT     |
| <b>OptiCam® Conversion Kit (upgrades Opti-Crimp® Kit to also terminate OptiCam® Connectors):</b>   | FPPKIT-CVY  |
| <b>Field Polish Kit Upgrade (upgrades Field Polish Kit to also terminate OptiCam® Connectors):</b> | FIELDKITUPG |
| <b>LC cradles (2 per pkg.):</b>                                                                    | FLCC        |

### LC Fiber Optic Adapters

|                          |             |
|--------------------------|-------------|
| <b>10Gig™ multimode:</b> | FADJLCAQ-L* |
| <b>Multimode:</b>        | FADJLCEI-L  |
| <b>Singlemode:</b>       | FADJLCZBU-L |

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

### Mini-Com® LC Adapter Modules

|                          |            |
|--------------------------|------------|
| <b>10Gig™ multimode:</b> | CMDJAQLC** |
| <b>Multimode:</b>        | CMDJEILC** |
| <b>Singlemode:</b>       | CMDJLCZBU  |

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

### Opticom® LC Fiber Adapter Panels

|                                |             |
|--------------------------------|-------------|
| <b>6 duplex MM adapters:</b>   | FAP6WEIDLC  |
| <b>6 duplex SM adapters:</b>   | FAP6WBUDLCZ |
| <b>12 duplex MM adapters:</b>  | FAP12WEIDLC |
| <b>12 simplex SM adapters:</b> | FAP12WBULCZ |

### Opti-Core® LC Patch Cords

|                          |             |
|--------------------------|-------------|
| <b>Duplex LC to LC:</b>  | F^E10-10M±Y |
| <b>Simplex LC to LC:</b> | F^F10-10M±Y |
| <b>Duplex SC to LC:</b>  | F^E3-10M±Y  |
| <b>Simplex SC to LC:</b> | F^F3-10M±Y  |

### LC Lock-in Duplex Clip

|                                |           |
|--------------------------------|-----------|
| <b>LC lock-in duplex clip:</b> | FLCCLIW-X |
|--------------------------------|-----------|

\*Add -C to simplex connector part numbers for bulk packs of 100 connectors.

^Substitute for fiber type: 6 = 62.5/125µm OM1, 5 = 50/125µm OM2, X = 10Gig™ 50/125µm OM3/OM4 or 9 = 9/125µm OS1/OS2.

‡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<br>(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<br>Max. insertion loss: 0.75dB<br>Min. return loss: 20dB                                                                                                              | Exceeds TIA/EIA-568-B.3 test requirements:<br><0.1dB additional insertion loss                                                                                                                              |
| Cable retention (straight pull):<br>900µm tight-buffered fiber<br><br>Jacketed cable | TIA/EIA-568-B.3 requirement:<br><br>0.5 lbs. load applied with <0.5dB increase in insertion loss after test<br><br>11.24 lbs. load applied with <0.5dB increase in insertion loss after test | Exceeds TIA/EIA-568-B.3 requirements:<br><br>1.0 lbs. avg. load applied with <0.2dB increase in insertion loss after test<br><br>11.24 lbs. load applied with <0.1dB increase in insertion loss after test* |

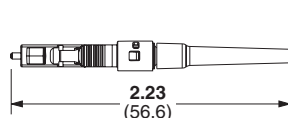
\*Jacketed cable retention tensile load may vary based on specific manufacturer's jacketed cable diameter and aramid yarn count.

## selection information

| Part Number | Connector Type | Ferrule Material | Fiber                                     | Ferrule Finish | Backbone Color | Boot Color | Average Insertion Loss** | Return Loss |
|-------------|----------------|------------------|-------------------------------------------|----------------|----------------|------------|--------------------------|-------------|
| FLCSMCXAQY  | Simplex        | Zirconia Ceramic | 10 GbE 50/125µm (laser optimized) OM3/OM4 | SPC            | Aqua           | Aqua       | 0.3dB                    | >26dB       |
| FLCDMCXAQY  | Duplex         |                  |                                           |                |                |            |                          |             |
| FLCSMC5BLY  | Simplex        | Zirconia Ceramic | 50/125µm OM2                              | SPC            | Black          | Black      | 0.3dB                    | >20dB       |
| FLCDMC5BLY  | Duplex         |                  |                                           |                |                |            |                          |             |
| FLCSMC6BLY  | Simplex        | Zirconia Ceramic | 62.5/125µm OM1                            | SPC            | Electric Ivory | Black      | 0.3dB                    | >20dB       |
| FLCDMC6BLY  | Duplex         |                  |                                           |                |                |            |                          |             |
| FLCSSCBUY   | Simplex        | Zirconia Ceramic | 9/125µm OS1/OS2                           | UPC            | Blue           | Blue       | 0.3dB                    | >50dB       |
| FLCDSCBUY   | Duplex         |                  |                                           |                |                |            |                          |             |

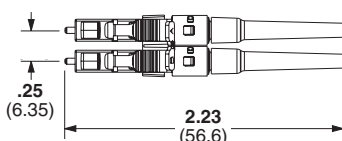
\*\*All connector insertion loss values calculated from tests taken with precision launch jumper assemblies per TIA/EIA-FOTP-171.

**LC OptiCam® Pre-Polished Simplex Connector**



**FLCSMC\*\*\*Y**

**LC OptiCam® Pre-Polished Duplex Connector**



**FLCDMC\*\*\*Y**

**OptiCam® Termination Tool**



**OCTT**  
(Patch cords available separately or in termination kits)

**LC Lock-In Duplex Clip**



**FLCLLIW-X**

\*\*\*Substitute for fiber type: For multimode, insert XAQ for 10Gig™ 50/125µm, 5BL for 50/125µm, 6BL for 62.5/125µm. For singlemode, insert BU for 9/125µm, and replace M with S.

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

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