

# UniCam® High-Performance Connectors, LC

50 µm multimode (OM3/OM4 compatible)

271300-2.7A

CORNING

Corning Cable Systems UniCam® High-Performance Connectors offer best-in-class optical performance in a fast, easy field-termination solution. These high-precision connectors guarantee exceptional insert loss – 0.1 dB typical/0.5 dB maximum per connector pair for multi-mode, 0.2 dB typical/0.5 dB maximum per connector pair for single-mode. Installation of an LC, SC, or ST® Compatible Connector can be accomplished in about 45 seconds with the UniCam High-Performance Tool Kit. The lightweight, handheld installation tool and the high-performance cleaver virtually eliminate human variability from installation, ensuring terminations are right, the first time, every time. This kit was designed with consideration for the network installers, from the cleaver, with its integrated fiber scrap bin and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance guaranteed. Every UniCam Connector is guaranteed to meet the published specification at the time of installation or Corning Cable Systems will replace it.



Part Number: 95-050-99-X

## Features and Benefits

### Broad operating temperature (-40° to +75°C)

Utility and flexibility

### Factory-polished end face

Consistent optical performance

### Fast termination and no consumables

Low installation cost

### Minimum insertion loss

Optimum optical performance

## Standards

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Approval and Listings | Passed EIA/TIA 568-B.3                                              |
| Intermateability      | Connectors are FOCIS compliant with TIA/EIA 604-10A and IEC61754-20 |



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## Specifications

### General Specifications

|                |                               |
|----------------|-------------------------------|
| Technology     | No-Epoxy/No-Polish            |
| Keyed          | No                            |
| Product Type   | Field-Installable Connectors  |
| Corning Logo   | Yes                           |
| Packaging      | Single Pack                   |
| Fiber Category | 50 µm MM (OM3/OM4 compatible) |

### Temperature Range

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| Operation | -40 °C to 75 °C exceeding EIA/TIA 568-B.3 (-40 °F to 167 °F exceeding EIA/TIA 568-B.3) |
|-----------|----------------------------------------------------------------------------------------|

### Design - Connector A

|                  |           |
|------------------|-----------|
| Connector Type   | LC        |
| Ferrule          | Ceramic   |
| Housing Material | Composite |
| Housing Color    | Black     |
| Boot Color       | Aqua      |

### Mechanical Specifications - Connector A

|                                 |                                                                  |
|---------------------------------|------------------------------------------------------------------|
| Durability                      | ≤ 0.2 dB change by 500 rematings, FOTP-21                        |
| Tensile Strength Jacketed Cable | 44 N, change ≤ 0.2 dB, FOTP-6 (10 lb, change ≤ 0.2 dB, FOTP-6)   |
| Tensile Strength 900µ Cable     | 2.2 N, change ≤ 0.2 dB, FOTP-6 (0.5 lb, change ≤ 0.2 dB, FOTP-6) |
| Temperature Cycling             | ≤ 0.3 dB IL, -40° to +75°C, 21 cycles                            |
| Nominal Fiber Outer Diameter    | 125 µm                                                           |

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## Optical Specifications - Connector A

|                         |          |
|-------------------------|----------|
| Insertion Loss, Typical | 0.1 dB   |
| Insertion Loss, Max.    | 0.5 dB   |
| Reflectance             | ≤ -20 dB |

## Chemical Characteristics

|      |                                                           |
|------|-----------------------------------------------------------|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|-----------------------------------------------------------|

## Ordering Information

|                     |                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number         | 95-050-99-X                                                                                                                                |
| Product Description | UniCam® High-Performance Connector, LC, 50 µm multimode (OM3/OM4 compatible), ceramic ferrule, logo, single pack, black housing, aqua boot |

## Shipping Information

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Units per Delivery | 1/1                                                                         |
| Package Contents   | Connector, trigger, crimp band, boot (900 µm), boot (3.0 mm), boot (2.0 mm) |



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77 Westport Plaza  
Suite 250  
St. Louis, MO 63146

**TRANSMITTAL**

**No. 15051-0010**

Paric Corporation

**PROJECT:** Webster University Interdisciplinary Science Building

**DATE:** 03/10/2016

**TO:** Cannon Design  
1100 Clark Ave  
St Louis MO 63102

**RE:** FO connections

**ATTN:** Kelvin Patel

| WE ARE SENDING:                                         | SUBMITTED FOR:                               | ACTION TAKEN:                                     |
|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Shop Drawings                  | <input checked="" type="checkbox"/> Approval | <input type="checkbox"/> Approved as Submitted    |
| <input type="checkbox"/> Letter                         | <input type="checkbox"/> Your Use            | <input type="checkbox"/> Approved as Noted        |
| <input type="checkbox"/> Prints                         | <input type="checkbox"/> As Requested        | <input type="checkbox"/> Returned After Loan      |
| <input type="checkbox"/> Change Order                   | <input type="checkbox"/> Review and Comment  | <input type="checkbox"/> Resubmit                 |
| <input type="checkbox"/> Plans                          |                                              | <input type="checkbox"/> Submit                   |
| <input type="checkbox"/> Samples                        | <b>SENT VIA:</b>                             | <input type="checkbox"/> Returned                 |
| <input type="checkbox"/> Specifications                 | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Returned for Corrections |
| <input checked="" type="checkbox"/> Other: product data | <input type="checkbox"/> Separate Cover Via: | <input type="checkbox"/> Due Date:                |

| Item      | Package | Code       | Rev. | Copies | Date       | Description    | Status    |
|-----------|---------|------------|------|--------|------------|----------------|-----------|
| Submittal |         | 273100-002 | 1    |        | 03/10/2016 | FO connections | Submitted |

**NOTES:**



**CC:**

**PARIC CORPORATION  
SUBMITTAL STAMP**

**Signed:** \_\_\_\_\_  
Devin Gates

**THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC  
CORPORATION**

Subcontractor remains responsible for dimensions, quantities, coordination  
with other trades and compliance with contract documents.

**By:**

**Devin D. Gates**

**Date:**

**Mar 10, 2016**

**Submittal #:**

**271300-002 - FO connectors.pdf**