

## AX104240-S1 Modular Connectors - Brilliance LC Connector OM1



For more Information  
please call

1-800-Belden1

**Description:**

FiberExpress Brilliance Field Installable Connector, LC, Multimode 62.5  $\mu$ m, OM1, for 900  $\mu$ m tight buffered fiber

**Usage (Overall)****Suitable Applications:**

Indoor termination of fiber cables: Patch panels, Communication outlets, Fiber-to-the-desk, Distribution frames, Campus, Customer premise, Access network, Data Centers, OM4 solutions

**Related Parts:**

FiberExpress Brilliance installation kits, Breakout kits

**Physical Characteristics (Connectivity)****Dimensions****Dimensions:**

| Height (in.) | Width (in.) | Length (in.) |
|--------------|-------------|--------------|
| 0.395        | 0.232       | 1.594        |

**Materials****Materials:**

| Description    | Type | Material | Color |
|----------------|------|----------|-------|
| Connector Body | N/A  | Plastic  | Beige |

**Color****Color:**

Beige

**Included Parts****Included Parts:**

900  $\mu$ m boot, dust cap

**Packaging****Packaging:**

Individually packaged in a plastic bag.

**Mechanical Characteristics (Connectivity)****Mechanical Specifications:**

| Parameters                                           | Specifications                                     |
|------------------------------------------------------|----------------------------------------------------|
| Interconnection Compatibility                        | compliant with TIA/EIA-604-10A (FOCIS 10)          |
| Field Assembly Time                                  | 40 seconds                                         |
| Durability (Multimode)                               | 500 cycles, less than 0.2 dB change, FOTP-21       |
| Durability (Single-mode)                             | 500 cycles, less than 0.3 dB change, FOTP-21       |
| Nominal Fiber OD                                     | 125 $\mu$ m                                        |
| Storage Temperature                                  | -40°F to +140°F (-40°C to +60°C)                   |
| Operating Temperature                                | -40°F to +167°F (-40°C to +75°C)                   |
| Tensile strength on 2 mm Jacketed fiber              | 11.24 lb (5.1 Kg), less than 0.2 dB change, FOTP-6 |
| Tensile strength on 900 $\mu$ m tight buffered fiber | 1.12 lb (0.5 Kg), less than 0.2 dB change, FOTP-6  |
| Ferrule                                              | Ceramic                                            |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 07/01/2006

MII Order #39 (China RoHS): EUP 50

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|                                      |             |
|--------------------------------------|-------------|
| <b>Telecommunications Standards:</b> | TIA 568-C.3 |
|--------------------------------------|-------------|

|                        |     |
|------------------------|-----|
| <b>Safety Listing:</b> | ACA |
|------------------------|-----|

**Suitability**

|                              |              |
|------------------------------|--------------|
| <b>Suitability - Indoor:</b> | Yes - Indoor |
|------------------------------|--------------|

**Transmission Characteristics (Connectivity)****Transmission Specifications:**

| Fiber type         | Maximum Insertion Loss<br>(Precision cleaver) | Typical Insertion Loss<br>(Precision cleaver) | Maximum Insertion Loss<br>(Field cleaver) | Typical Insertion Loss<br>(Field cleaver) | Minimum<br>reflectance |
|--------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------|
| Multimode          | 0.50 dB                                       | 0.20 dB                                       | 0.75 dB                                   | 0.30 dB                                   | -25 dB                 |
| Single-mode<br>UPC | 0.50 dB                                       | 0.30 dB                                       | 0.75 dB                                   | 0.30 dB                                   | -50 dB                 |
| Single-mode<br>APC | 0.75 dB                                       | 0.30 dB                                       | 0.75 dB                                   | 0.30 dB                                   | -60 dB                 |

**Notes (Overall)**

**Notes:** Refer to Installation Guide PX105234 for installation procedures. Supplied with FiberExpress Brilliance installation kit.

**Notes (Cont'd.):** Fiber can be reterminated up to 5 times with the same connector.

**Product Family****Part Number List:**

| Description                                   | Belden Part Number |
|-----------------------------------------------|--------------------|
| LC 62.5 $\mu$ m Multimode OM1                 | AX104240-S1        |
| LC 50 $\mu$ m Multimode OM2                   | AX104241-S1        |
| LC 50 $\mu$ m Multimode OM3-4                 | AX104242-S1        |
| LC, Singlemode OS2                            | AX104243-S1        |
| LC 62.5 $\mu$ m Multimode OM1, 25 per package | AX104240-B25       |
| LC 50 $\mu$ m Multimode OM2, 25 per package   | AX104241-B25       |
| LC 50 $\mu$ m Multimode OM3-4, 25 per package | AX104242-B25       |
| LC Singlemode OS2, 25 per package             | AX104243-B25       |

**Put Ups and Colors:**

| Item #      | Putup | Ship Weight | Color | Notes | Item Desc                     |
|-------------|-------|-------------|-------|-------|-------------------------------|
| AX104240-S1 | 1 EA  | 0.007 LB    |       |       | Brilliance LC OM1 900um 1 per |

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