

## AX104243-S1 Modular Connectors - Brilliance LC Connector SM



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Brilliance Field Installable Connector, LC, Singlemode 9  $\mu$ m, OS2, 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	AWG
Connector Body	N/A	Plastic	Blue

#### Color

**Color:** Blue

### 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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**Telecommunications Standards:** TIA 568-C.3

**Safety Listing:** ACA

### Suitability

**Suitability - Indoor:** Yes - Indoor

### Transmission Characteristics (Connectivity)

#### Transmission Specifications:

Fiber type	Maximum Insertion Loss (Precision cleaver)	Typical Insertion Loss (Precision cleaver)	Maximum Insertion Loss (Field cleaver)	Typical Insertion Loss (Field cleaver)	Minimum reflectance
Multimode	0.50 dB	0.20 dB	0.75 dB	0.30 dB	-25 dB
Single-mode UPC	0.50 dB	0.30 dB	0.75 dB	0.30 dB	-50 dB
Single-mode 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 µm Multimode OM1	AX104240-S1
LC 50 µm Multimode OM2	AX104241-S1
LC 50 µm Multimode OM3-4	AX104242-S1
LC, Singlemode OS2	AX104243-S1
LC 62.5 µm Multimode OM1, 25 per package	AX104240-B25
LC 50 µm Multimode OM2, 25 per package	AX104241-B25
LC 50 µm 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
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Revision Number: 1    Revision Date: 03-21-2012

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