

## AX105203-S1 Modular Connectors - FX BRILLIANCE UNIVERSAL LC CONNECTOR



For more Information  
please call

1-800-Belden1

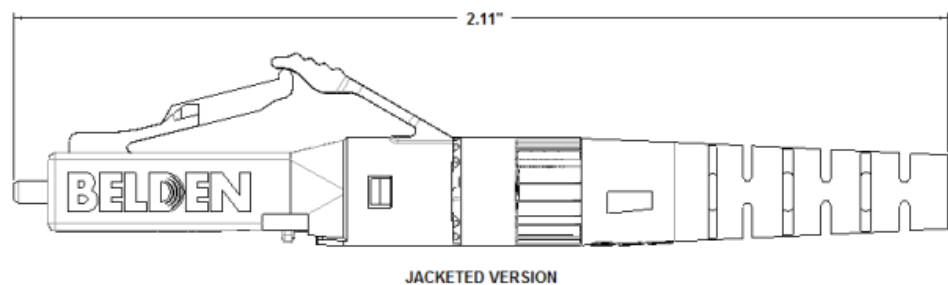
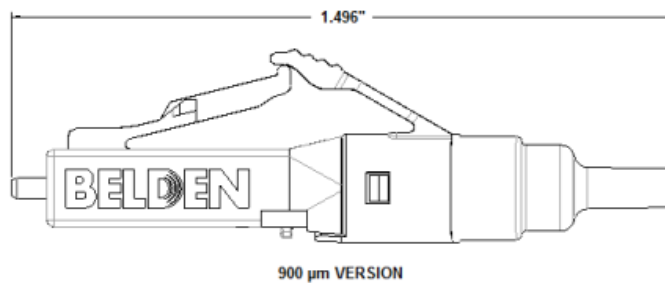
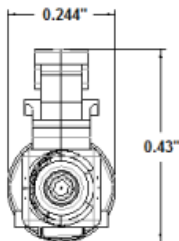


### General Description:

FX Brilliance Universal LC Field Installable Connector, Single-mode, OS2, Blue Housing, 1/Pack, with support for 250 um (using Breakout kit), 900 um, 2 mm and 3 mm fiber (using jacketed boots). Includes 900 um boot, other accessories (Breakout Kit & jacketed boots) sold separately.

### Image

Image:



### Usage (Overall)

**Suitable Applications:**

Field-termination of fiber optic cables within Patch Panels, Distribution Frames, Workstation Outlets for FTTD (Fiber to the Desk), drops for FTTH (Fiber to the home) and MDU (Multiple Dwelling Units).

**Related Parts:**

FX Brilliance Precision Installation Kit, Boots for 2mm and 3mm Jacketed Fiber, 250um to 900um

### Physical Characteristics (Connectivity)

**Materials**

Materials:

Description	Material	Color
Boot	Rubber	Black

## METRIC MEASUREMENT VERSION

### AX105203-S1 Modular Connectors - FX BRILLIANCE UNIVERSAL LC CONNECTOR

Protective Ferrule cap	Plastic	Opaque
Connector Body	Plastic	Blue

#### Weight

**Weight:** 0.003 kg

#### Included Parts

**Included Parts:** 900 µm boot, protective ferrule cap

#### Packaging

**Packaging:** Single (1) connector sample in a sealed plastic bag

### Mechanical Characteristics (Connectivity)

#### Mechanical Specifications:

Parameters	Specifications
Interconnection Compatibility	TIA/EIA-604-10A (FOCIS 10)
Field Assembly Time	40 seconds including fiber preparation
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 µm
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 µm tight buffered fiber	1.12 lb (0.5 Kg), less than 0.2 dB change, FOTP-6
Tensile strength on 250um fiber	0.5lb (0.45Kg), 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

**MIL Order #39 (China RoHS):** EUP 50

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

**Safety Listing:** ACA

#### Suitability

**Suitability - Indoor:** Yes - Indoor

### Transmission Characteristics (Connectivity)

#### Transmission Specifications:

Fiber type	Maximum Insertion Loss	Typical Insertion Loss	Minimum reflectance @ 1550 nm
Multimode	0.50 dB	0.20 dB	-30 dB
Single-mode UPC	0.50 dB	0.30 dB	-50 dB
Single-mode APC	0.50 dB	0.30 dB	-60 dB

### Notes (Overall)

**Notes:** Refer to Installation Guide PX105234 for installation procedures.

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

### Product Family

#### Part Number List:

Description	Color	Belden Part Number
FX Brilliance Universal LC for OM1 Connector 25/PK	Beige	AX105200-B25
FX Brilliance Universal LC for OM1 Sample 1/PK	Beige	AX105200-S1
FX Brilliance Universal LC for OM2 Connector 25/PK	Black	AX105201-B25
FX Brilliance Universal LC for OM2 Sample 1/PK	Black	AX105201-S1
FX Brilliance Universal LC for OM3/OM4 Connector 25/PK	Aqua	AX105202-B25
FX Brilliance Universal LC for OM3/OM4 Sample 1/PK	Aqua	AX105202-S1
FX Brilliance Universal LC for OM4 Connector 25/PK	Erika Violet	AX105252-B25
FX Brilliance Universal LC for OM4 Sample 1/PK	Erika Violet	AX105252-S1
FX Brilliance Universal LC for OS2 Connector 25/PK	Blue	AX105203-B25
FX Brilliance Universal LC for OS2 Sample 1/PK	Blue	AX105203-S1
FX Brilliance Universal 2mm Boot 25/PK	Black	AX105214-B25
FX Brilliance Universal 3mm Boot 25/PK	Black	AX105215-B25
Breakout Kit 6 fibers	N/A	AX101100
Breakout Kit 12 fibers	N/A	AX101101
Breakout Kit 6 fibers for Central Tube Loose Tube Cable	N/A	AX104695

## METRIC MEASUREMENT VERSION

### AX105203-S1 Modular Connectors - FX BRILLIANCE UNIVERSAL LC CONNECTOR

Breakout Kit 12 fibers for Central Tube Loose Tube Cable	N/A	AX104696
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#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX105203-S1	1 EA	0.004 KG			FX BR UNIVERSAL LC SM 1/PK

Revision Number: 0    Revision Date: 08-07-2014

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