

## AX105208-B25 Modular Connectors - FX BRILLIANCE UNIVERSAL SC CONNECTOR



For more Information  
please call

1-800-Belden1

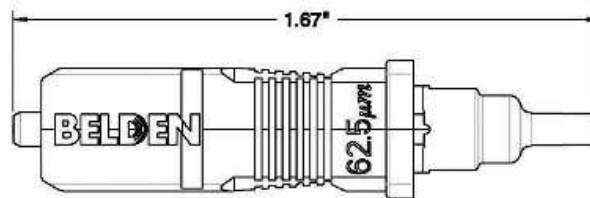
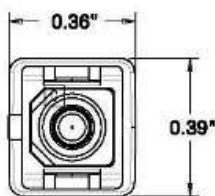


### General Description:

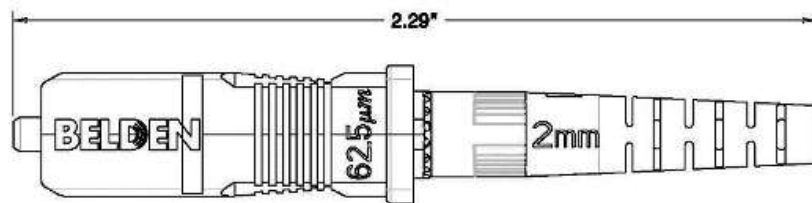
FX Brilliance Universal SC Field Installable Connector, Singlemode, OS2, Blue Housing, 25/Pack, with support for 250  $\mu\text{m}$  (using Breakout kit), 900  $\mu\text{m}$ , 2 mm and 3 mm fiber (using jacketed boots). Includes 900  $\mu\text{m}$  boot, other accessories (Breakout Kit & jacketed boots) sold separately.

### Image

Image:



900  $\mu\text{m}$  VERSION (OM1 SHOWN)



JACKETED VERSION (OM1 SHOWN)

### 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, 250 $\mu\text{m}$  to 900 $\mu\text{m}$  breakout kits.

### Physical Characteristics (Connectivity)

**Materials**

Materials:

| Description            | Material | Color  |
|------------------------|----------|--------|
| Boot                   | Rubber   | Black  |
| Protective Ferrule Cap | Plastic  | Opaque |
| Connector Body         | Plastic  | Blue   |

**Weight**

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**Weight:** 0.264 lbs.

### Included Parts

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

### Packaging

**Packaging:** Twenty-five (25) connectors in a dust and moisture resistant blister package

### 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 250µm 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

**MII 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. 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 SC for OM1 Contractor 25/PK      | Beige        | AX105205-B25       |
| FX Brilliance Universal SC for OM1 Sample 1/PK           | Beige        | AX105205-S1        |
| FX Brilliance Universal SC for OM2 Contractor 25/PK      | Black        | AX105206-B25       |
| FX Brilliance Universal SC for OM2 Sample 1/PK           | Black        | AX105206-S1        |
| FX Brilliance Universal SC for OM3/OM4 Contractor 25/PK  | Aqua         | AX105207-B25       |
| FX Brilliance Universal SC for OM3/OM4 Sample 1/PK       | Aqua         | AX105207-S1        |
| FX Brilliance Universal SC for OM4 Contractor 25/PK      | Erika Violet | AX105253-B25       |
| FX Brilliance Universal SC for OM4 Sample 1/PK           | Erika Violet | AX105253-S1        |
| FX Brilliance Universal SC for OS2 Contractor 25/PK      | Blue         | AX105208-B25       |
| FX Brilliance Universal SC for OS2 Sample 1/PK           | Blue         | AX105208-S1        |
| FX Brilliance Universal SC/APC for OS2 Contractor 25/PK  | Green        | AX105209-B25       |
| FX Brilliance Universal SC/APC for OS2 Sample 1/PK       | Green        | AX105209-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           |
| Breakout Kit 12 fibers for Central Tube Loose Tube Cable | N/A          | AX104696           |

### Put Ups and Colors:

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| Item #       | Putup | Ship Weight | Color | Notes | Item Desc                   |
|--------------|-------|-------------|-------|-------|-----------------------------|
| AX105208-B25 | 25 EA | 6.250 KG    |       |       | FX BR UNIVERSAL SC SM 25/PK |

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