

## AX105205-S1 Modular Connectors - FX BRILLIANCE UNIVERSAL SC CONNECTOR



For more Information  
please call

1-800-Belden1

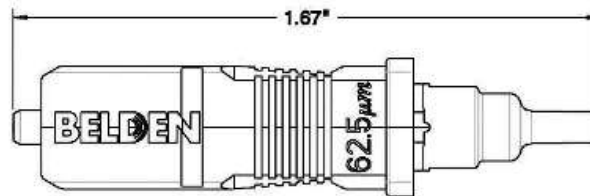
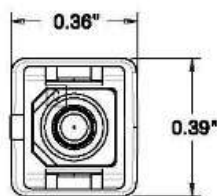


### General Description:

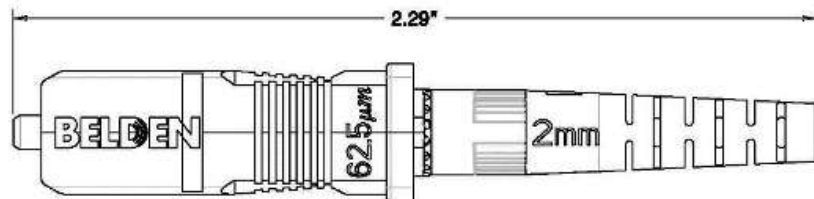
FX Brilliance Universal SC Field Installable Connector, Multimode, OM1, Beige Housing, 1/Pack, with support for 250 µm (using Breakout kit), 900 µm, 2 mm and 3 mm fiber (using jacketed boots). Includes 900 µm boot, other accessories (Breakout Kit & jacketed boots) sold separately.

### Image

Image:



900 µm 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, 250µm to 900µm breakout kits.

### Physical Characteristics (Connectivity)

**Materials**

Materials:

Description	Material	Color
Boot	Rubber	Black
Protective Ferrule Cap	Plastic	Opaque
Connector Body	Plastic	Beige

**Weight**

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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	Compliant with TIA/EIA-604-3 (FOCIS 3)
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
Ferrule	Ceramic
Field Assembly Time	40 seconds including fiber preparation
Nominal Fiber OD	125 µm
Operating Temperature	-40°F to +167°F (-40°C to +75°C)
Storage Temperature	-40°F to +140°F (-40°C to +60°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 250 µm fiber	0.5 lb (0.45Kg), 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

### 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. 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:

## METRIC MEASUREMENT VERSION

### AX105205-S1 Modular Connectors - FX BRILLIANCE UNIVERSAL SC CONNECTOR

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX105205-S1	1 EA	0.005 KG			FX BR UNIVERSAL SC OM1 1/PK

Revision Number: 0    Revision Date: 09-14-2017

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