

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



For more Information  
please call

1-800-Belden1

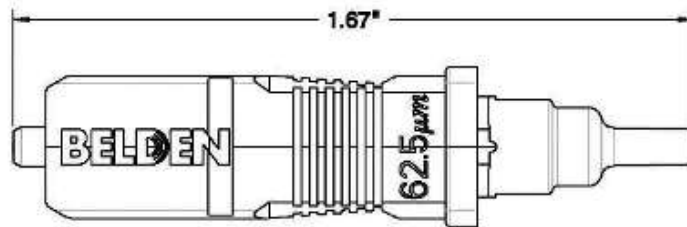
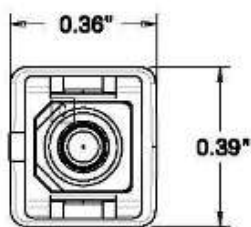


### General Description:

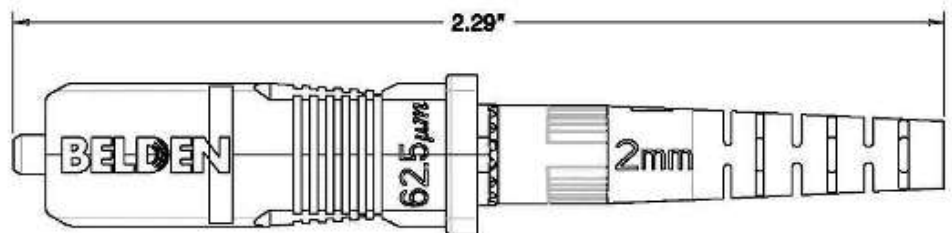
FX Brilliance Universal SC Field Installable Connector, Multimode, OM1, Beige Housing, 1/Pack, with support for 250  $\mu\text{m}$  (using Breakout kit), 900  $\mu\text{m}$ , 2 mm and 3 mm fiber (using jacketed boots). Includes 900  $\mu\text{m}$  boot, other accessories (Breakout Kit & jacketed boots) 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 FTTH (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 $\mu\text{m}$  break out kits.

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## Physical Characteristics (Connectivity)

## Materials

## Materials:

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

## 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
Ferrule	Ceramic

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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

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

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	AX105214-B25	
FX Brilliance Universal 3mm Boot 25/PK	AX105215-B25	
Breakout Kit 6 fibers	AX101100	
Breakout Kit 12 fibers	AX101101	
Breakout Kit 6 fibers for Central Tube Loose Tube Cable	AX104695	
Breakout Kit 12 fibers for Central Tube Loose Tube Cable	AX104696	

### Put Ups and Colors:

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

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[AX105209-S1](#) [AX105209-B25](#) [AX105214-B25](#)