BELDEN
SENDING ALL THE RIGHT SIGNALS

AX105206-B25 Modular Connectors - FX BRILLIANCE UNIVERSAL SC CONNECTOR

For more Information
please call

1-800-Belden1

RoHS COMPLIANT
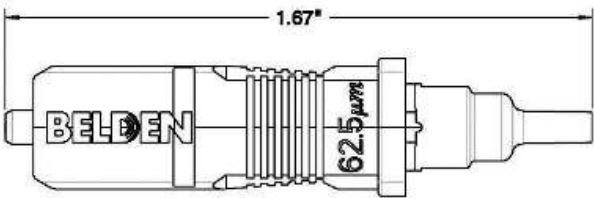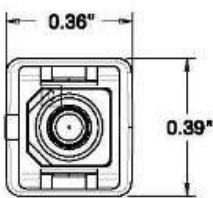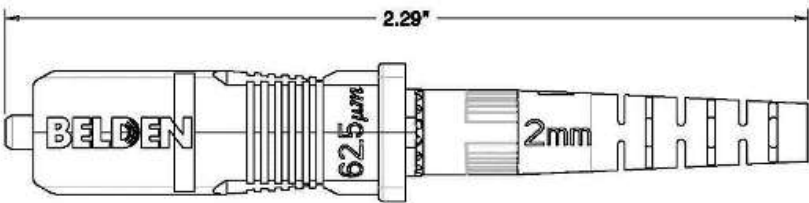ENVIRONMENTALLY FRIENDLY

General Description:

FX Brilliance Universal SC Field Installable Connector, Multimode, OM2, Black Housing, 25/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:

0.36"
0.39"

1.67"
62.5µm

900 µm VERSION (OM1 SHOWN)

2.29"
62.5µm
2mm

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 break out kits.

Physical Characteristics (Connectivity)

Materials
Materials:

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

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	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 um 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
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:

ENGLISH MEASUREMENT VERSION

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Item #	Putup	Ship Weight	Color	Notes	Item Desc

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

  AX105206-B25