BELDEN

PB 308

Fiber*Express*®
Brilliance® Connectors

Brilliant in design and implementation, Fiber*Express* Brilliance no-epoxy, no-polish, no-crimp field-installable connectors make fiber field termination simple and fast with our industry-leading design.

Quick and Simple to Use, Fiber Termination in Only 5 Seconds for Backbone, Horizontal and Fiber-to-the Desk or Fiber-to-the-Home

One Enterprise.
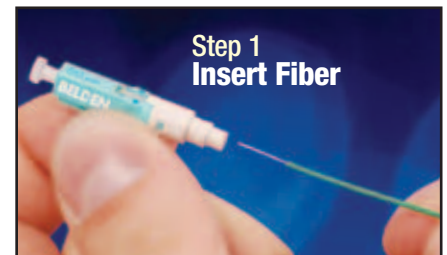### One Infrastructure.
One Partner.

Integrate with 100% Confidence

Belden® is an established leader in mission-critical signal transmission technology. The company's large global presence, with extensive fiber optic expertise garnered over the past quarter century, ensures support for projects of any size or complexity regardless of where in the world they may be. 100% production testing is backed by a 100% yield guarantee[i] and a best in class 25-year warranty[i].

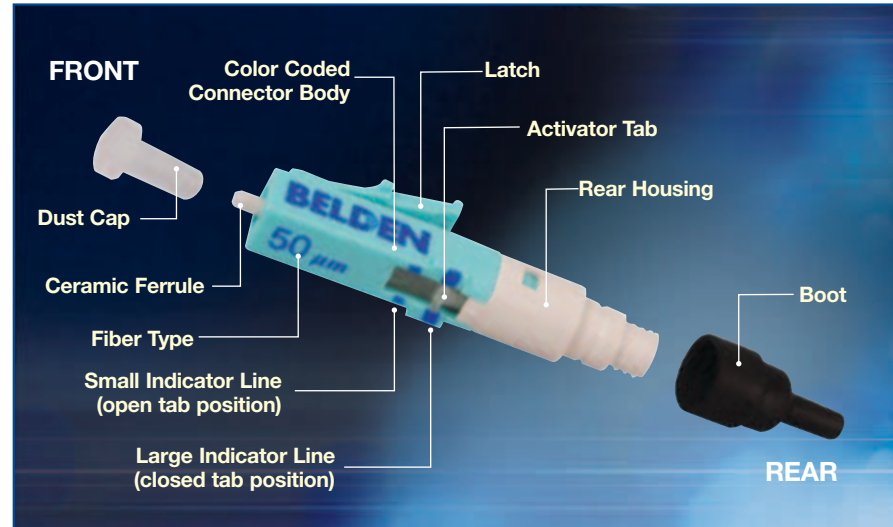### Simplify and Speed Up Fiber Field Termination

Perfect for use in the Data Center, Enterprise, Industrial, Defense, Healthcare or Telco/MSO environments, it only takes three simple steps to terminate the connector.

1. Prepare and insert the fiber.

2. Close the switch-like activator tab on the connector.

3. Install the boot.

Step 1
Insert Fiber

Step 2
Activate Tab

Step 3
Install Boot

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Belden Fiber*Express* Brilliance Connectors

FRONT

- Dust Cap
- Ceramic Ferrule
- Fiber Type
- Small Indicator Line (open tab position)
- Large Indicator Line (closed tab position)
- Color Coded Connector Body
- Latch
- Activator Tab
- Rear Housing
- Boot

REAR

The Fiber*Express* Brilliance connector offers installers and end-users alike the fastest, simplest, most cost-effective and reliable field-installable connector in the industry.

Fiber*Express* Brilliance is the industry's leading connector: saving time, labor and material costs.

Improve Termination Yield

Instantly identify successful terminations before testing by using the Belden Support Handle with integrated Visual Fault Locator (VFL) included in the FX Brilliance Precision Installation Kit. The VFL injects visible laser light into the connector, closing the activator tab on the connector will extinguish the visible light quickly providing a positive indication of a successful termination.

Eliminate Cut-offs

Unique no-crimp installation means connectors may be re-terminated up to 5 times, even after testing, to eliminate connector waste.

Reduce Training and Tooling Expense

Belden's line of Fiber*Express* Brilliance Connectors, one of the most comprehensive in the industry, features LC, SC, SC/APC and ST for multimode OM1, OM2 and OM3/OM4 plus Single-mode OS1/OS2, making them ideal for the latest 10G and future 40G/100G networks. Cable styles include 250 µm loose tube[ii], 900 µm tight buffered and 2 mm or 3 mm jacketed fiber. One universal installation technique and toolkit ensures once prepared, installers can easily handle any job.

A light can be seen through the clear window on the connector body until a fiber has been properly terminated.

Connector Types	Fiber Types	Cable Styles
LC SC SC/APC ST	Multimode OM1 OM2 OM3/OM4	250 µm Loose-tube[ii] 900 µm Tight-buffered 2 mm Jacketed
	Single-mode OS1/OS2	3 mm Jacketed

Belden Fiber*Express* Brilliance Installation Kits

Improve Installer Comfort, Repeatability and Performance

Although termination of the Fiber*Express* Brilliance connector can be done with no specialized tools, installation kits are available to provide the tools necessary to prepare the fiber as well as provide a stable work platform to achieve optimal installation results.

The **Support Handle** facilitates the handling of the fiber connector and maintaining the bow in the fiber prior to termination. Easily integrating the VFL and adapter cords, it is designed to accommodate varying real-world installation positions and is equally usable by both right and left handed installers.

The **Precision Cleaver** achieves superior quality cleaves, even in high volumes, exceeds TIA requirements and eliminates the need to use a microscope to verify every cleave. The latest auto-rotating blade design further eliminates cleaver maintenance providing worry-free operation for up to 36,000 cleaves.

The **Rugged Installation Pouch** holds the tools necessary to prepare and terminate fiber connectors. Its simple, flexible design allows the installation pouch to easily adapt to the installation environment. It can be used in many different ways, from shoulder strap, to belt mounted and even hand held. When purchased as part of an installation toolkit, it comes fully loaded with everything needed for successful fiber termination including installation and troubleshooting videos and guides, cutting and stripping tools as well as safety and cleaning supplies.

Stand Out with IBDN Training

BICSI accredited training provides RCDDs, Installers and Techs as well as organizations with certified staff recognition of their skills and competence to help differentiate themselves from the competition. The BICSI accredited IBDN-749 course covers the basics of fiber safety to advanced topics including test methodologies and troubleshooting with industry leading automated Optical Loss Test Sets (OLTS). A key component of this training is the hands on Fiber*Express* Brilliance connector termination where students master the art and feel of fiber termination from expert instructors.

Available Accessories include: Support Handle, VFL, Precision Cleaver, Field Cleaver, Installation Guide, Card, Video, and fiber preparation tools.
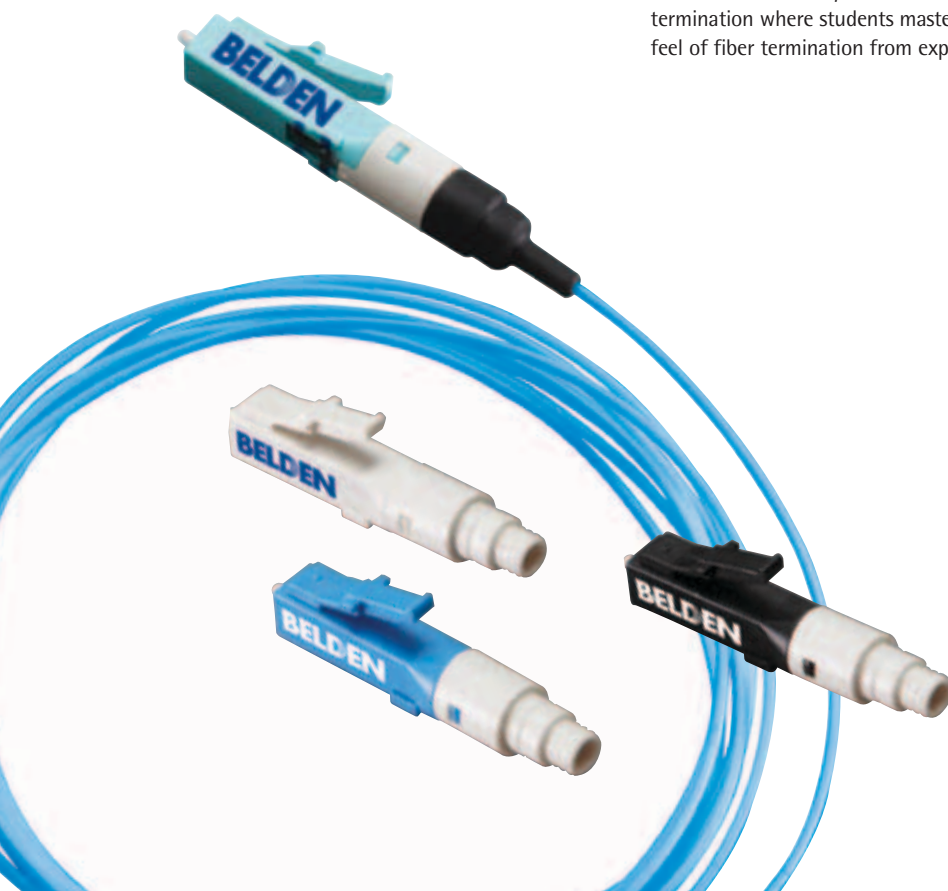

Support Handle

Precision Cleaver

Installation Pouch

Ordering Information

Ordering Information – Fiber*Express* Brilliance Connectors

Description	Belden Part Number					
	Multimode, OM1, 62.5 µm		**Multimode, OM2, 50 µm**		**Multimode, OM3/OM4, 50 µm**	
	1 per package	25 per package	1 per package	25 per package	1 per package	25 per package
LC 900 µm Tight Buffer	AX104240-S1	AX104240-B25	AX104241-S1	AX104241-B25	AX104242-S1	AX104242-B25
SC 900 µm Tight Buffer	AX104244-S1	AX104244-B25	AX104245-S1	AX104245-B25	AX104246-S1	AX104246-B25
ST 900 µm Tight Buffer	AX104248-S1	AX104248-B25	AX104249-S1	AX104249-B25	AX104250-S1	AX104250-B25
LC jacketed 2.0 mm *	AX104254-S1	AX104254-B25	AX104255-S1	AX104255-B25	AX104256-S1	AX104256-B25
SC jacketed 2.0 mm *	AX104258-S1	AX104258-B25	AX104259-S1	AX104259-B25	AX104260-S1	AX104260-B25
ST jacketed 2.0 mm *	AX104262-S1	AX104262-B25	AX104263-S1	AX104263-B25	AX104264-S1	AX104264-B25

Description	Belden Part Number			
	Single-mode, OS2		**Single-mode, OS2 - APC**	
	1 per package	25 per package	1 per package	25 per package
LC 900 µm Tight Buffer	AX104243-S1	AX104243-B25	–	–
SC 900 µm Tight Buffer	AX104247-S1	AX104247-B25	AX104253-S1	AX104253-B25
ST 900 µm Tight Buffer	AX104251-S1	AX104251-B25	–	–
LC jacketed 2.0 mm *	AX104257-S1	AX104257-B25	–	–
SC jacketed 2.0 mm *	AX104261-S1	AX104261-B25	AX104467-S1	AX104467-B25
ST jacketed 2.0 mm *	AX104265-S1	AX104265-B25	–	–

* The jacketed version includes a 2 mm boot. A separate part number is available for the 3 mm boot.

Description	Belden Part Number
3 mm jacketed boot, bag of 25	AX104577

Ordering Information – Installation Toolkits

Description	Belden Part Number		
	Individual Option PN	**Basic Installation Kit AX104268**	**Precision Installation Kit (recommended) AX104271**
Belden Installation Pouch	AX104272	✔	✔
Installation Guide	AX104273	✔	✔
USB Key with Demo Video	AX104274	✔	✔
Visual Fault Locator (VFL) with Adapter Cords	AX104283		✔
FX Brilliance Support Handle	AX104276	✔	✔
FX Brilliance Support Handle SC Adapter	AX104290	✔	✔
FX Brilliance Support Handle LC Adapter	AX104289	✔	✔
FX Brilliance Support Handle ST Adapter	AX104291	✔	✔
VFL Adapter Cord LC-LC	AX203567	✔	✔
VFL Adapter Cord LC-SC (suitable for ST)	AX203568	✔	✔
Belden Optimax-to-Brilliance Transition Cleaver Marker		✔	
Cleave Inspection Microscope	AX100910		✔
Belden Precision Cleaver	AX104286		✔
Alcohol Wipes and Ink Marker	AX100951		✔
Waste Bottle	AX104281		✔
Safety Glasses	AX104282		✔
Fiber/Cable Strippers	AX103151		✔
Scissors	AX104280		✔
Tweezers	AX104278		✔
Optional Accessories			
FX Brilliance Support Handle SC/APC Adapter and VFL Adapter Cord LC-SC/APC	AX203895		
FX Brilliance Support Handle LC Universal Secure/Keyed Adapter	AX104604		
Belden Precision Cleaver Replacement Blade	AX104293		

Fiber*Express* Optical Fiber Solutions Ordering Information

Belden FiberExpress optical fiber solutions consist of a full range of cable, patch panels, patch cords, cable assemblies, connectors and work area outlets satisfying the need for faster, reliable less complex fiber network deployment. Pre-validated components ensure compatibility within a system eliminating additional inter-operability troubleshooting effort and expense. Request a copy of the Belden Optical Fiber Catalog at www.belden.com for more on the complete product offering.

[i] Terms and conditions apply
[ii] Additional 250 µm to 900 µm loose tube breakout kit required

Mouser Electronics

Authorized Distributor

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

[Belden Wire & Cable](#):
[AX100951](#) [AX104272](#) [AX104273](#) [AX104274](#) [AX104276](#) [AX104278](#) [AX104280](#) [AX104282](#) [AX104283](#) [AX104286](#)
[AX104289](#) [AX104290](#) [AX104291](#) [AX104293](#) [AX203567](#) [AX203568](#)