Visual Installation Instructions
FuseLite® Single-Fiber Connector SRP

Table of Contents

CORNING

Visual Installation Instructions

FuseLite® SC/LC Connectors on 250-900 µm Tight-Buffered Fiber

Tools Required

SC or LC FuseLite® Connectors
Fusion Splicer (OptiSplice® Ribbon Fusion Splicer Shown Here)
Connector Holder (SOC-HLD-CON-SCLC)
Fiber Holder (SOC-HLD-900-OS)
Cleaver
Dual-Hole Miller Tool
Fiber Optic Cleaning Fluid
Lint-Free Wipes
Permanent Marker

1 SC

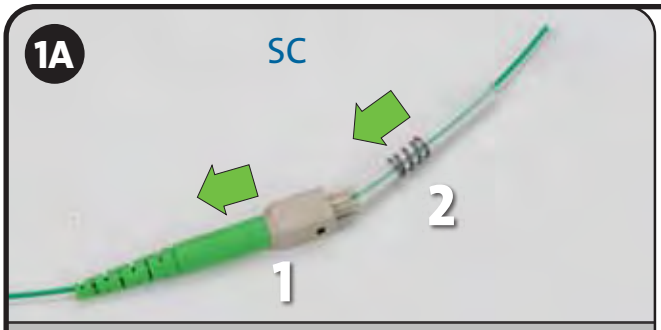
For SC FuseLite® Connector, Go to Step 1A

OR

LC

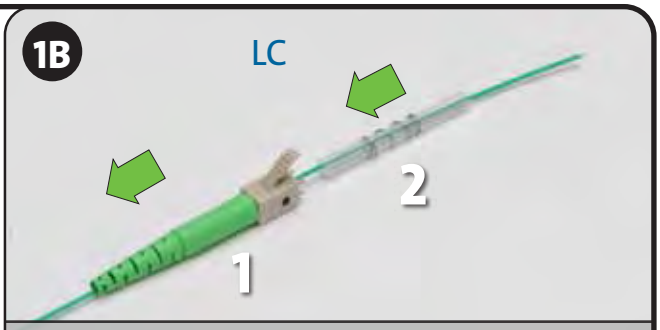
For LC FuseLite Connector, Go to Step 1B

1A SC



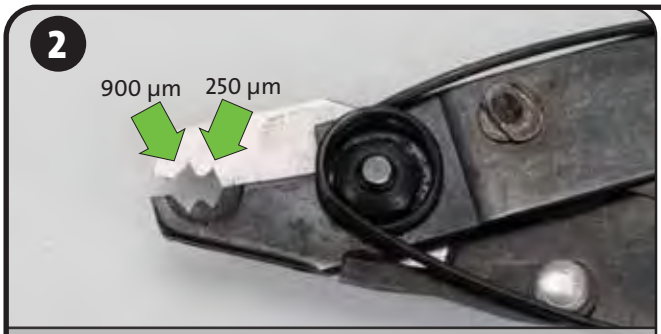
Insert Rear SC Housing and Protection Sleeve onto the Field Fiber. Proceed to Step 2

1B LC



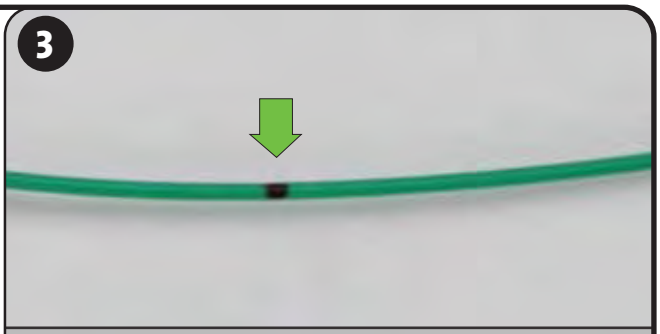
Insert Rear LC Housing and Protection Sleeve onto the Field Fiber. Proceed to Step 2

2



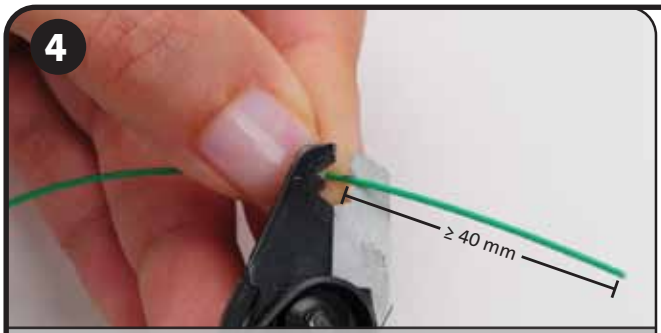
Two-Hole Miller Stripper (900 µm and 250 µm)

3



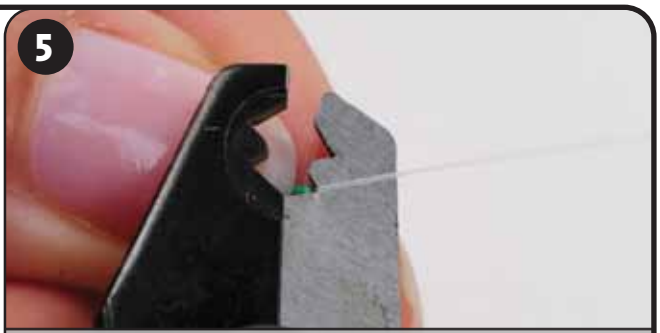
Place a Mark ≥ 40 mm from the End of the Fiber

4



Strip the 900 µm Buffer with Larger Notch

5



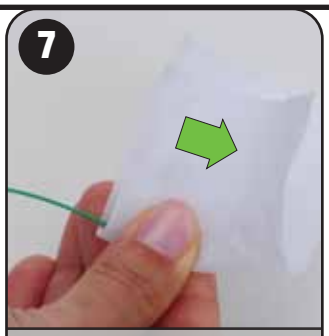
Strip the 250 µm Coating with the Smaller Notch

CORNING

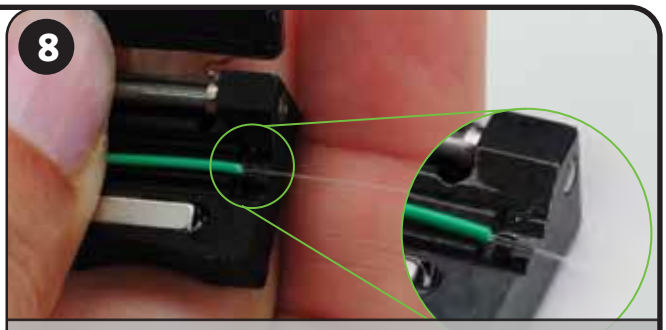
Visual Installation Instructions

FuseLite® SC/LC Connectors on 250-900 µm Tight-Buffered Fiber

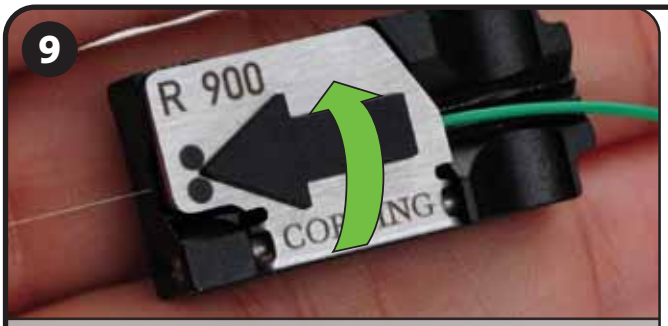
Moisten Wipe with
Fiber Cleaning Fluid



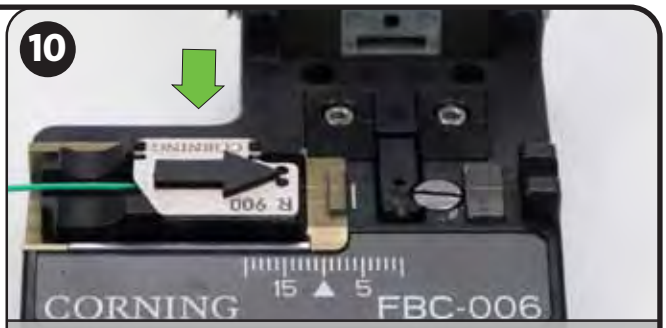
Clean with Fiber
Solution (Wipe Twice)



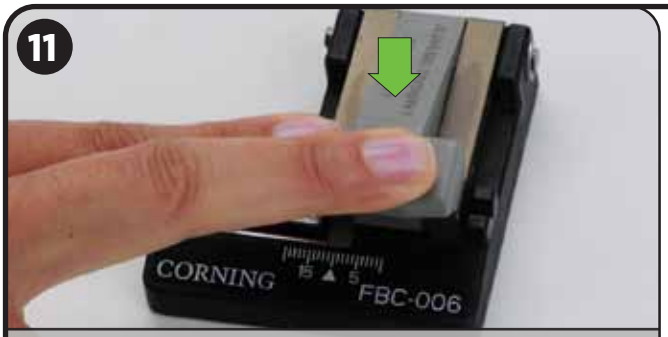
Place Field Fiber in the Holder Groove
Align 900 µm Buffer Flush with Raised Channel



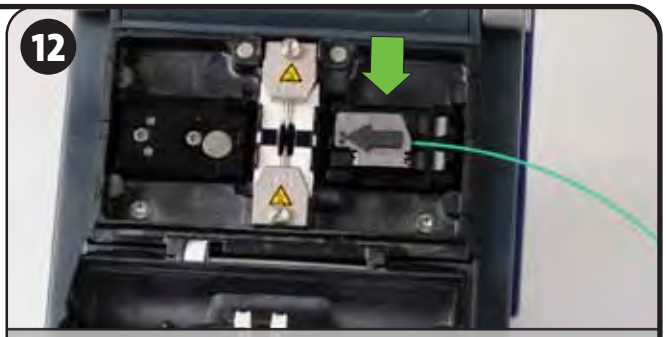
Close Fiber Holder (SOC-HLD-900-OS) Lid,
Keeping Fiber in Place



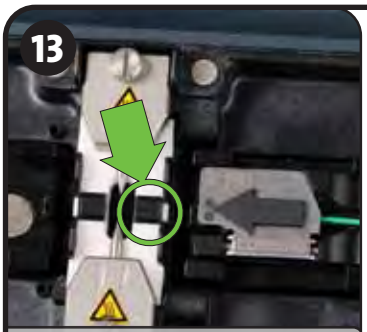
Place Holder in Cleaver and Slide to the Right Until
It Hits the Positive Stop



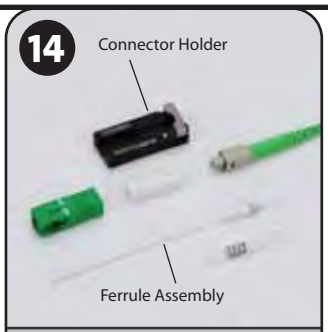
Gently Press Down the Lever Until It Stops, Then Release



Load the Fiber Holder into the Splicer (on the Right Side)

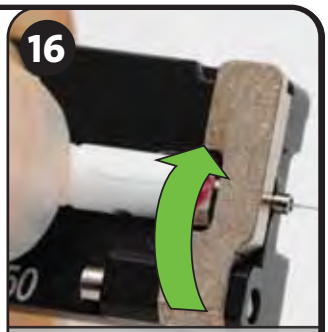


Fiber Should Be in "V-Groove"



Next, Select the Connector
Holder and Ferrule Assembly

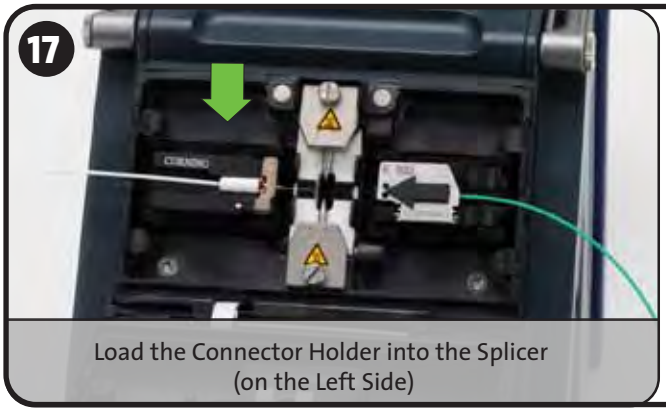
Load Ferrule Assembly into
the Connector Holder;
Dot Facing Out



Close the Holder Arm

Visual Installation Instructions

FuseLite® SC/LC Connectors on 250-900 µm Tight-Buffered Fiber



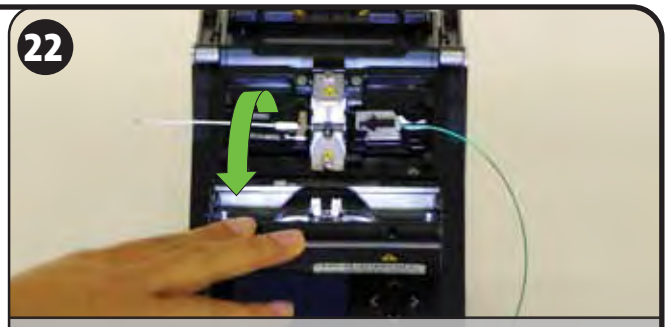
Load the Connector Holder into the Splicer (on the Left Side)

Fiber Should Be in "V-Groove"

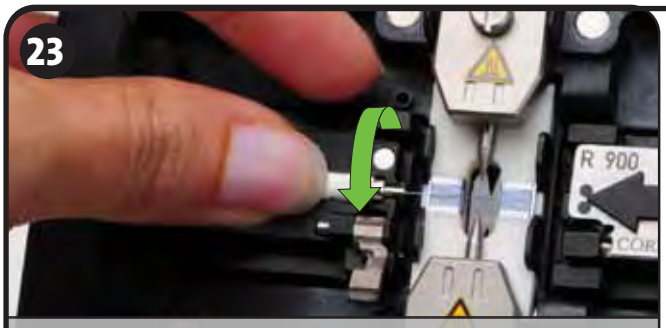
Close the Splicer Door

See OptiSplice One or OptiSplice® Ribbon Fusion Splicer Instructions for Completing the Splice

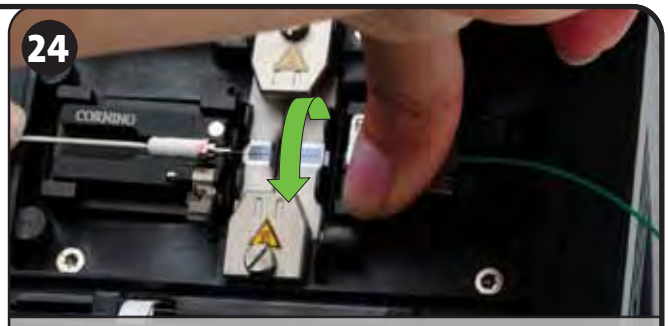
Open the Oven in Preparation



Open the Splicer Door



Open the Connector Holder Arm First

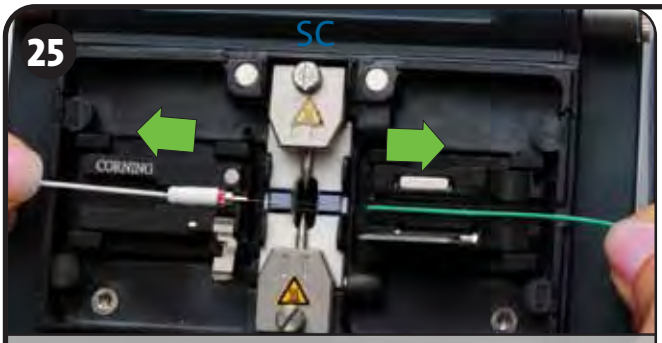


Open the Fiber Holder Door Next

Visual Installation Instructions

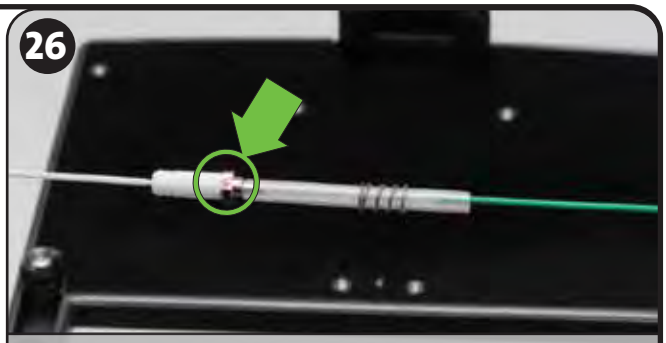
FuseLite® SC/LC Connectors on 250-900 µm Tight-Buffered Fiber

25 SC



Hold Both Sides and Lift Straight Out
Keep Tension on the Splice

26



Center Sleeve Over the Splice

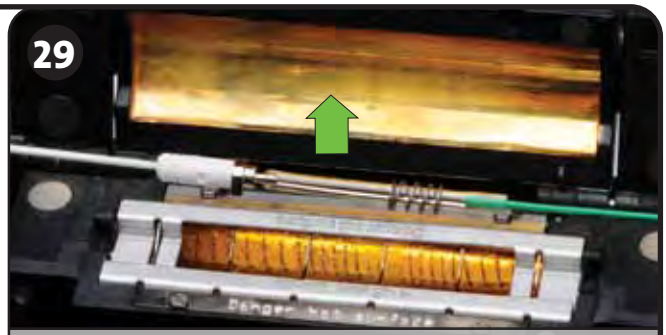
27

Center and Place Splice in Oven

28

Close Lid and Wait for "Bong" Sound

29



Remove from Oven
CAREFUL; OVEN WILL BE HOT

30 SC

For SC FuseLite® Connector,
Go to Step 30A

OR

LC

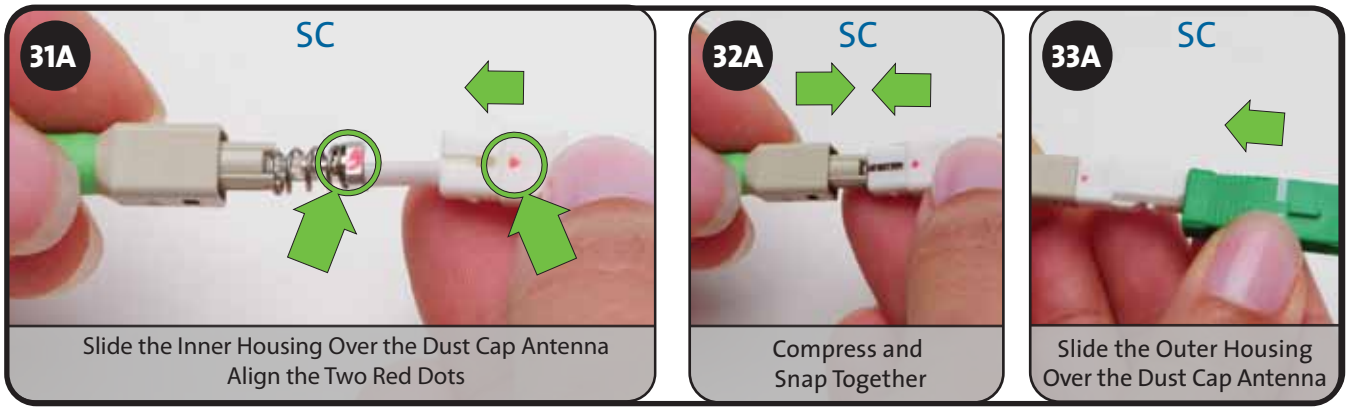
For LC FuseLite® Connector,
Go to Step 30B

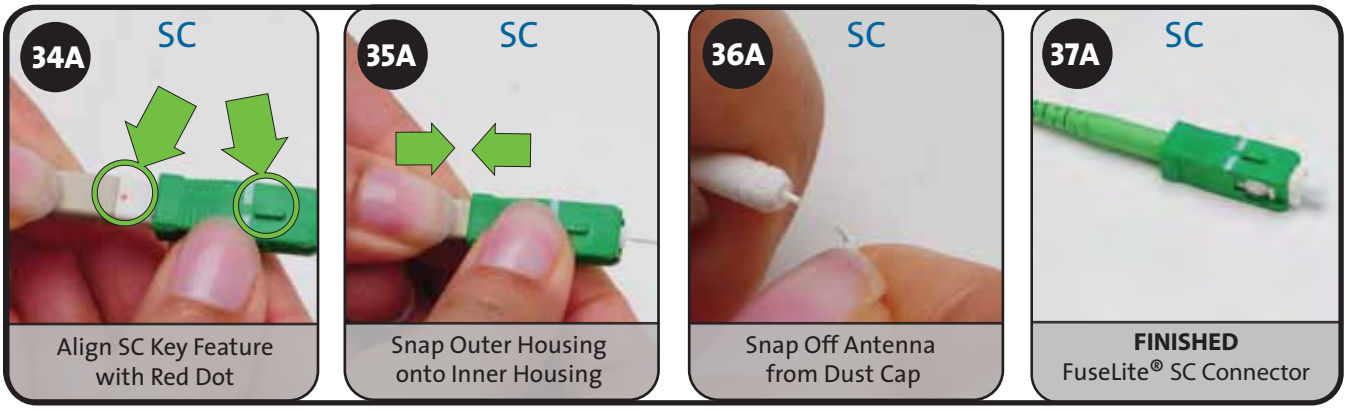
30A SC

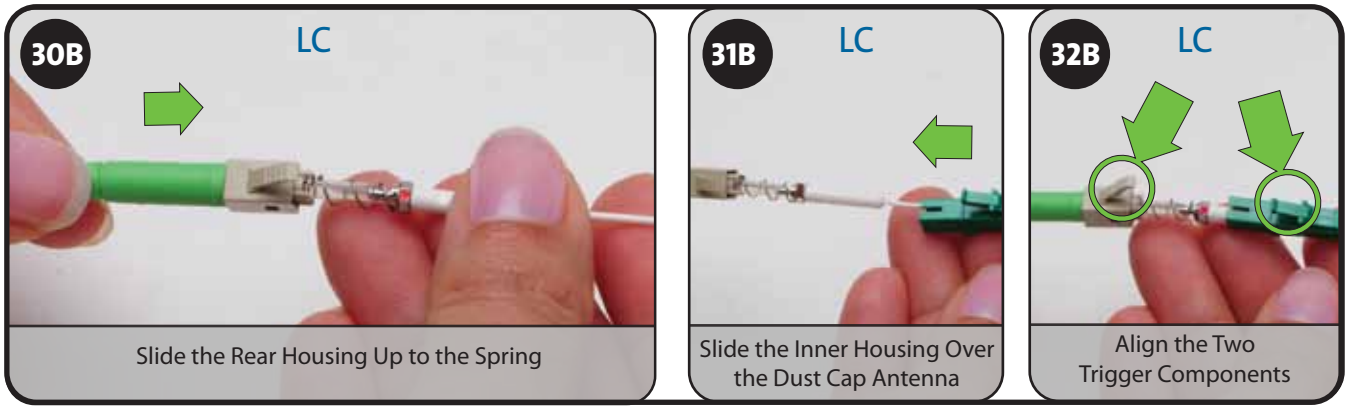
Slide the Rear Housing Up to the Spring

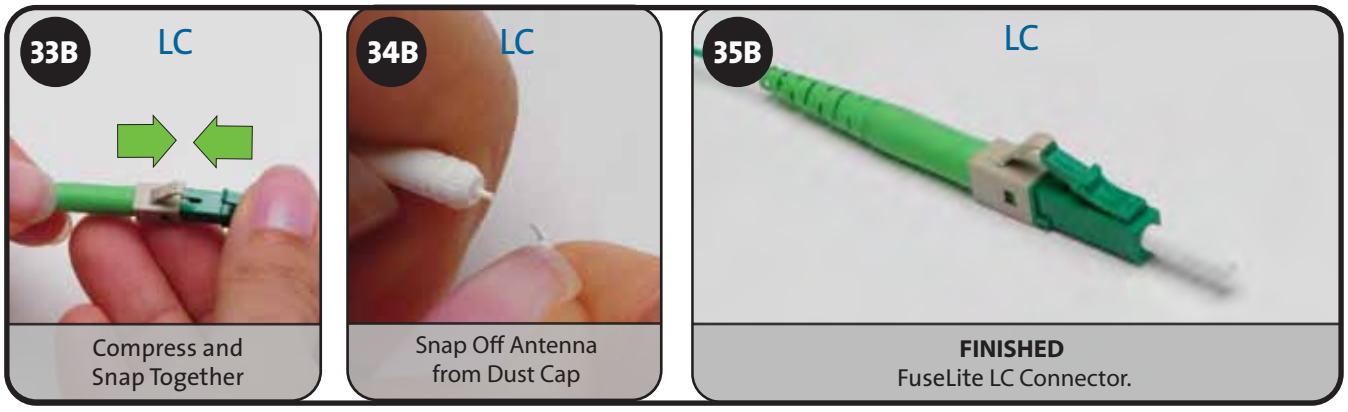
Visual Installation Instructions

FuseLite® SC/LC Connectors on 250-900 µm Tight-Buffered Fiber









Visual Installation Instructions
FuseLite® SC/LC Connectors on Buffer Tube Fan-Out Kits

Tools Required

SC or LC FuseLite® Connectors
Fusion Splicer (OptiSplice® Ribbon Fusion Splicer Shown Here)
Connector Holder (SOC-HLD-CON-SCLC)
Fiber Holder (SOC-HLD-900-OS)
Cleaver
Dual-Hole Miller Tool
Fiber Optic Cleaning Fluid
Lint-Free Wipes
Permanent Marker

1

SC

For SC FuseLite Connector, Go to Step 1A

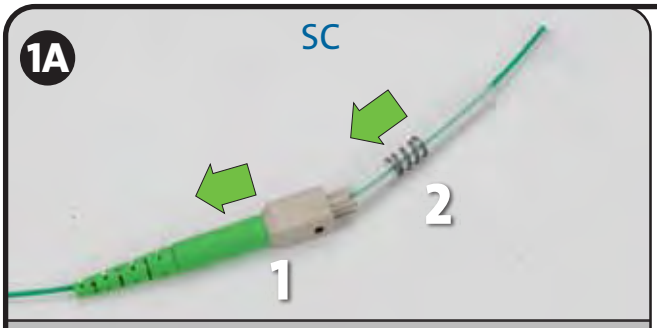
OR

LC

For LC FuseLite Connector, Go to Step 1B

1A

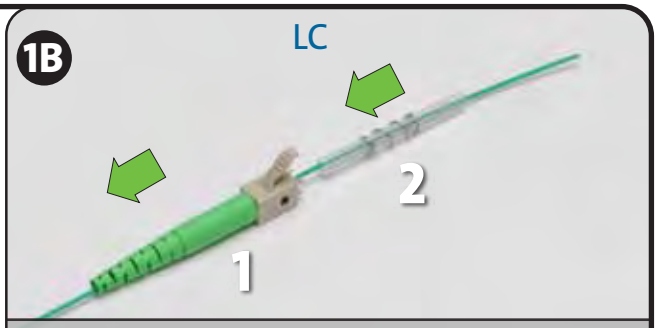
SC



Insert Rear SC Housing and Protection Sleeve onto the Field Fiber. Proceed to Step 2

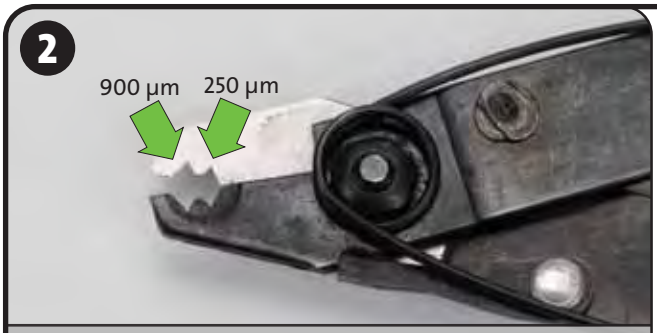
1B

LC



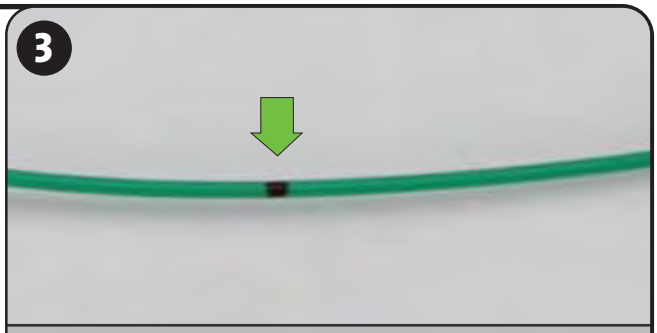
Insert Rear LC Housing and Protection Sleeve onto the Field Fiber. Proceed to Step 2

2



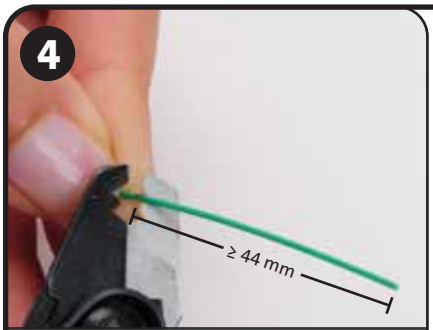
Two-Hole Miller Stripper (900 µm and 250 µm)

3



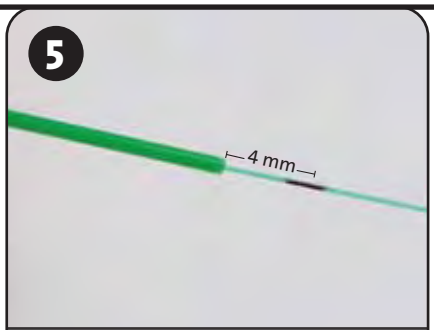
Place a Mark ≥ 44 mm from the End of the Fiber

4



Strip the 900 µm Buffer with Larger Notch

5



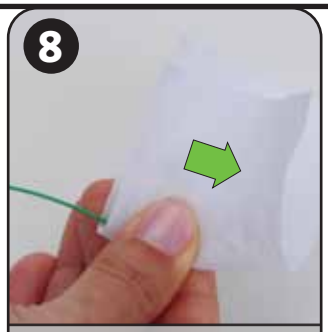
Place a Mark 4 mm Beyond the Buffer Tube on the 250 µm Coating

6

Strip the 250 µm Coating with the Smaller Notch Starting at the Mark

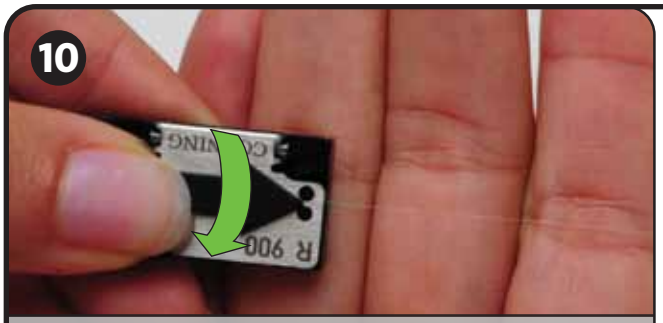
Visual Installation Instructions
FuseLite® SC/LC Connectors on Buffer Tube Fan-Out Kits

Moisten Wipe with Fiber Cleaning Fluid

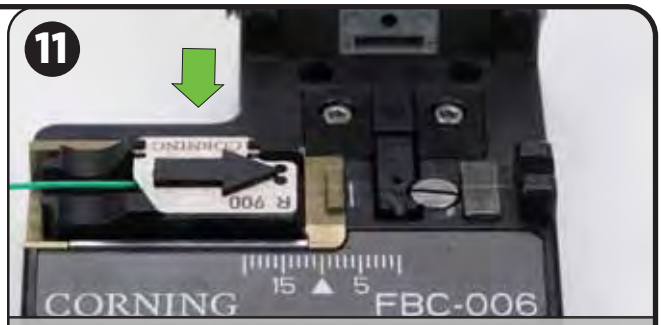


Clean with Fiber Solution (Wipe Twice)

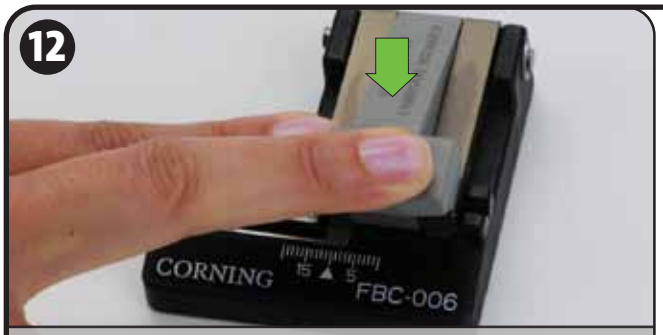
Place Fiber in the Fiber Holder Groove
Align 900 µm Buffer Flush with Raised Channel



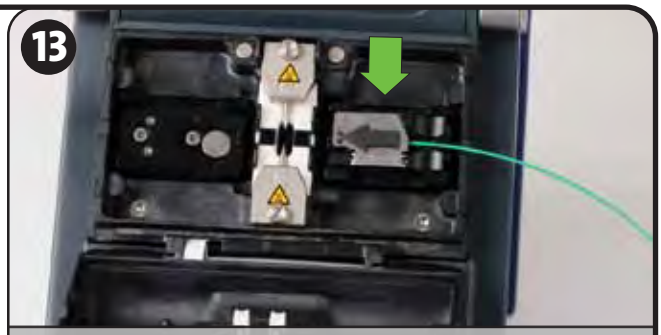
Close Fiber Holder Lid, Keeping Fiber in Place



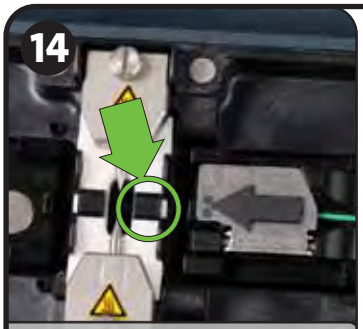
Place Holder in Cleaver, Slide to the Right
Until it Hits the Positive Stop



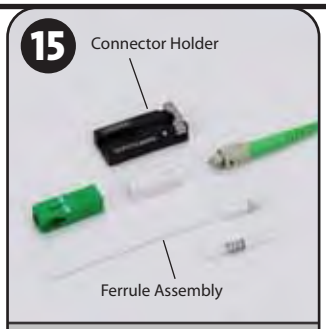
Gently Press Down the Lever Until it Stops, then Release



Load the Field Fiber Holder into the Splicer
(on the Right Side)



Fiber Should Be in "V-Groove"

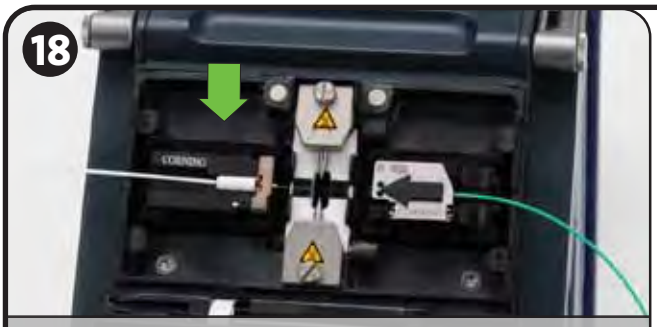


Next, Select the Connector Holder and Ferrule Assembly

Load Ferrule Assembly into the Connector Holder; Dot Facing Out

Close the Holder Arm

Visual Installation Instructions
FuseLite® SC/LC Connectors on Buffer Tube Fan-Out Kits



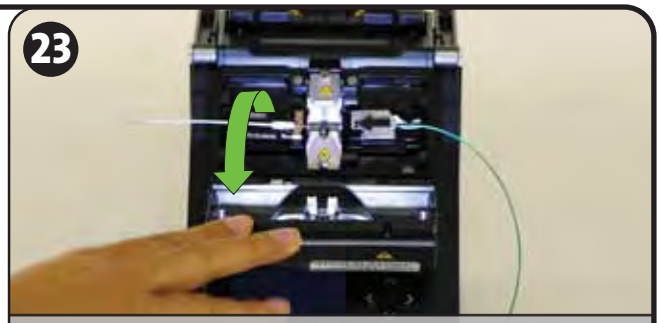
Load the Connector Holder into the Splicer (on the Left Side)

Fiber Should be in "V-Groove"

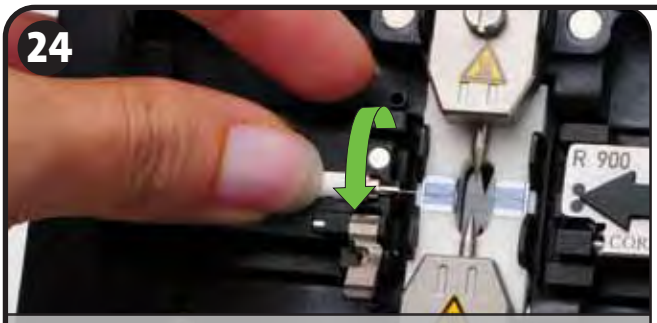
Close the Splicer Door

See OptiSplice® One or OptiSplice Ribbon Fusion Splicer Instructions for Completing the Splice

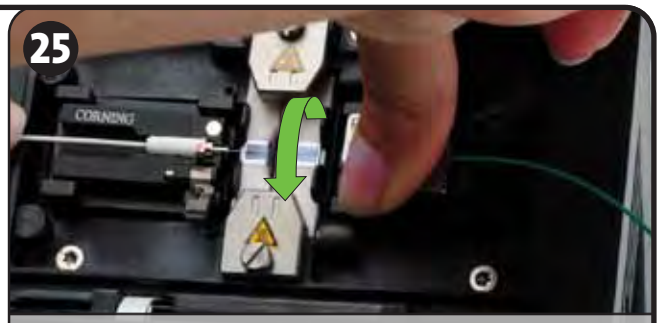
Open the Oven in Preparation



Open the Splicer Door

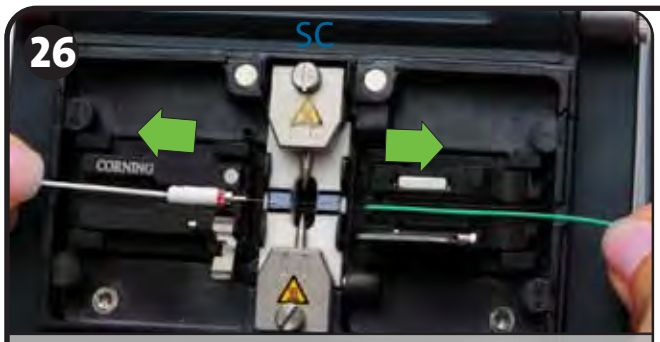


Open the Connector Holder Arm First

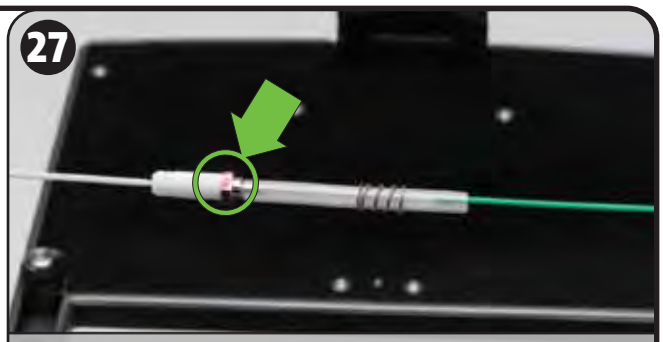


Open the Fiber Holder Door Next

Visual Installation Instructions
FuseLite® SC/LC Connectors on Buffer Tube Fan-Out Kits



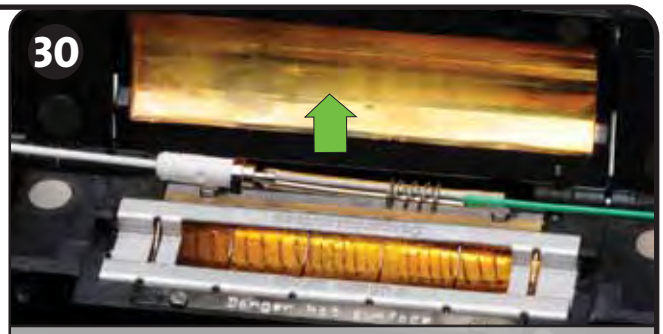
Hold Both Sides and Lift Straight Out
Keep Tension on the Splice



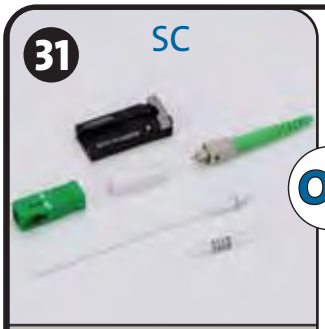
Center Sleeve Over the Splice

Center and Place Splice in Oven

Close Lid and Wait for "Bong" Sound

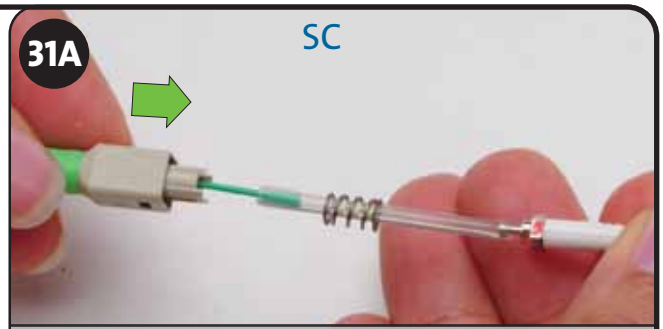


Remove from Oven
CAREFUL; OVEN WILL BE HOT



For SC FuseLite® Connector,
Go to Step 31A

For LC FuseLite Connector,
Go to Step 31B



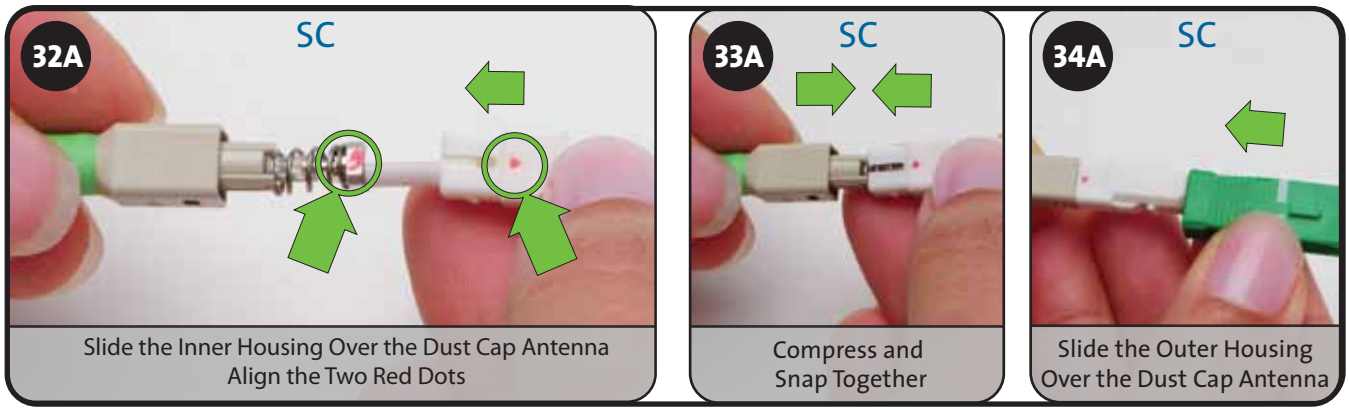
Slide the Rear Housing Up to the Spring

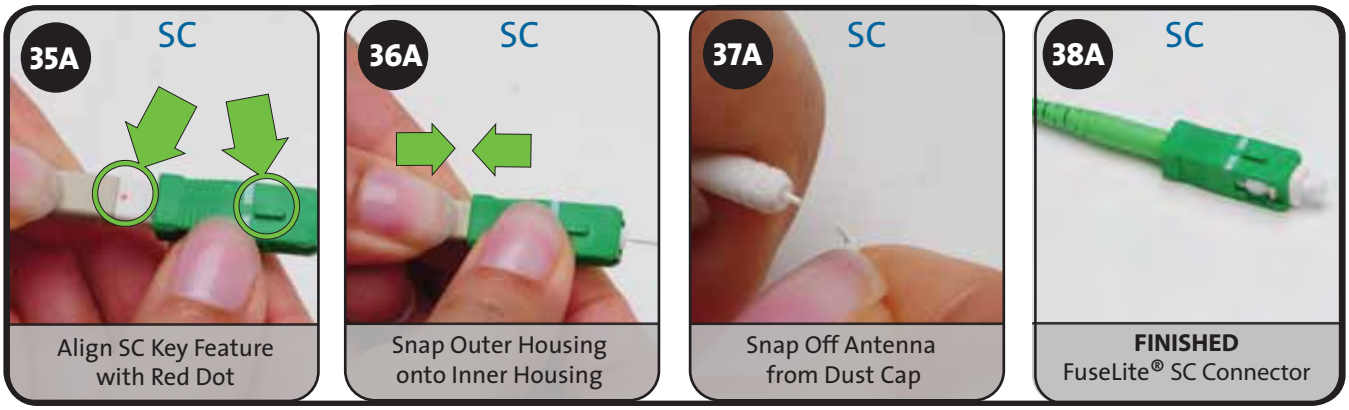
OR

CORNING

Visual Installation Instructions

FuseLite® SC/LC Connectors on Buffer Tube Fan-Out Kits





Visual Installation Instructions

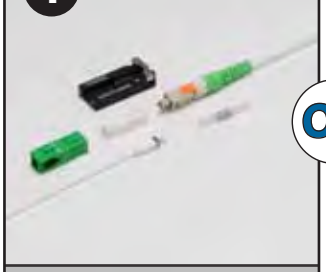
FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)

Tools Required

SC or LC FuseLite® Connectors
Fusion Splicer (OptiSplice® Ribbon Fusion Splicer Shown Here)
Connector Holder (SOC-HLD-CON-SCLC)
Fiber Holder (SOC-HLD-900-OS)
Cleaver
Dual-Hole Miller Tool
Fiber Optic Cleaning Fluid
Lint-Free Wipes
Permanent Marker

1

SC



For SC Fuselite Connector, Go to Step 1A

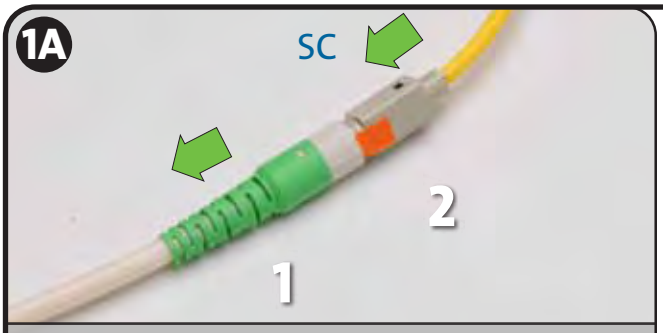
OR

LC

For LC Fuselite Connector, Go to Step 1B

1A

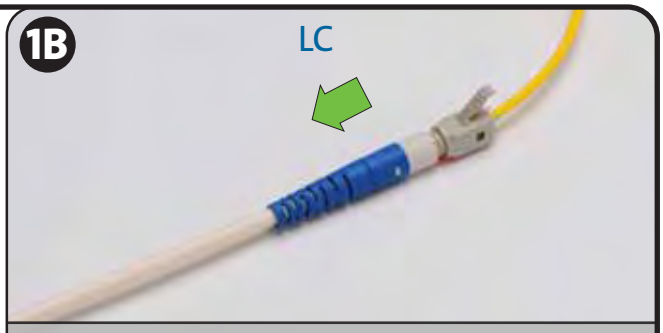
SC



Insert Rear SC Housing and Protection Sleeve onto the Field Fiber. Proceed to Step 2

1B

LC

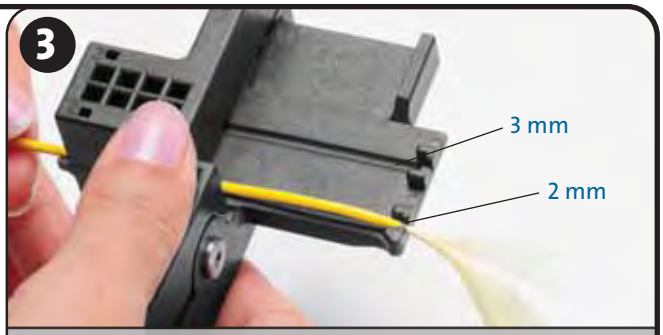


Insert Rear Housing onto the Field Fiber Proceed to Step 2

2

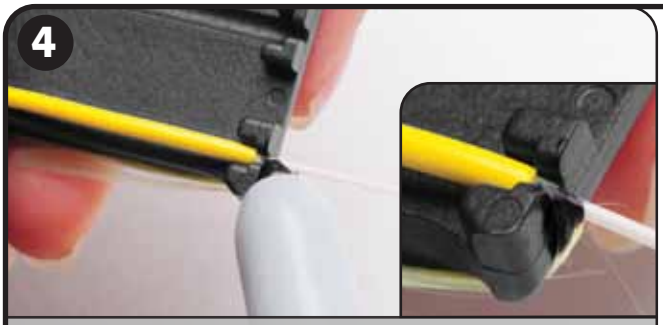
Ring Cut the Outer Jacket; Use Tool to Measure Length Remove Jacket

3



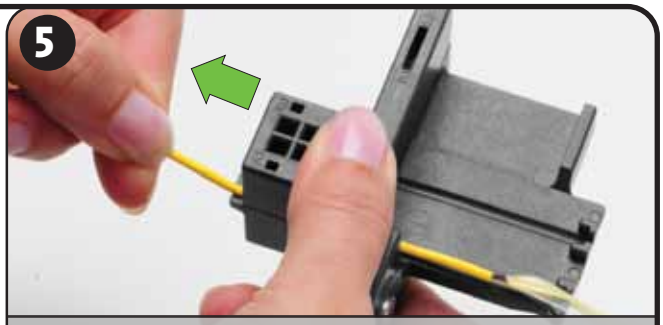
Place Fiber in Groove (20 mm Shown)

4



Mark the 900 µm Fiber at Edge of Tool for Stripping

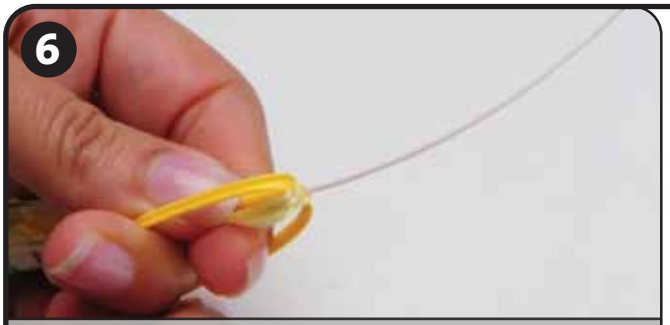
5



Pull Cable Through the Jacket Cutter (Slices in Half)

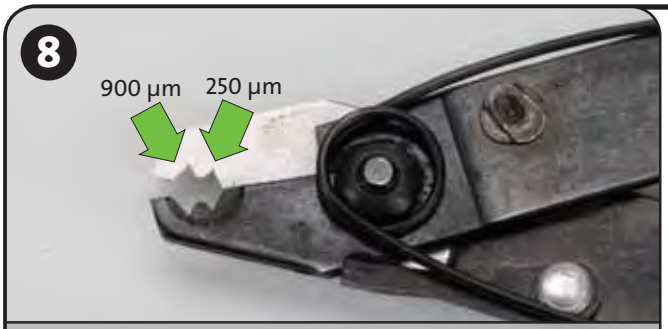
Visual Installation Instructions

FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)



Pull Back the Aramid Yarn

Slide the Protection Sleeve onto the Field Fiber



Two-Hole Miller Stripper (900 µm and 250 µm)

Strip 900 µm Buffer with Larger Notch

Strip 250 µm Coating with Smaller Notch

Moisten Wipe with Fiber Cleaning Fluid

Clean with Fiber Solution (Wipe Twice)

Place Field Fiber in the Fiber Holder (SOC-HLD-900-OS) Groove
Align 900 µm Buffer Flush with Raised Channel

Align 900 µm Buffer Flush with Raised Channel

Close Fiber Holder Lid, Keeping Fiber in Place

Visual Installation Instructions

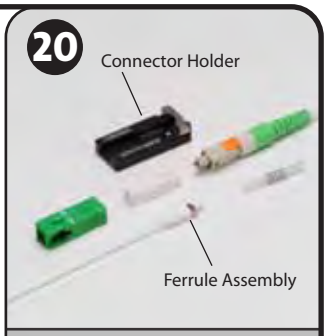
FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)

Place Holder in Cleaver, Slide to the Right Until it Hits the Positive Stop

Gently Press Down the Lever Until it Stops, Then Release

Load the Fiber Holder into the Splicer (on the Right Side)

Fiber Should Be in "V-Groove"

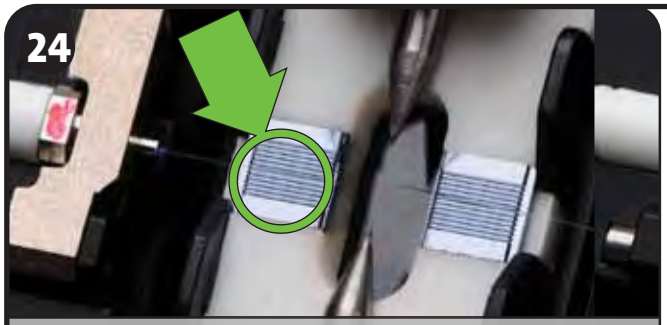


Next, Select the Connector Holder and the Ferrule Assembly

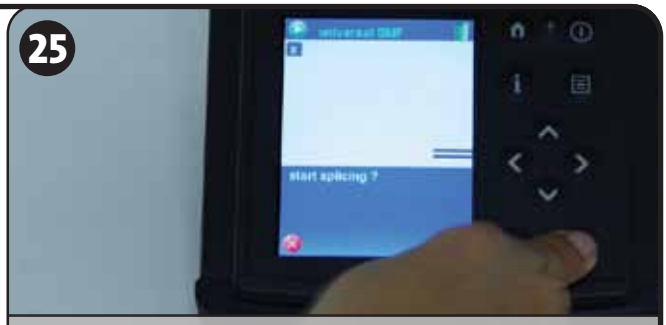
Load Ferrule Assembly into the Connector Holder; Dot Facing Out

Close the Holder Arm

Load the Holder into the Splicer (on the Left Side)



Fiber Should Be in the "V-Groove"

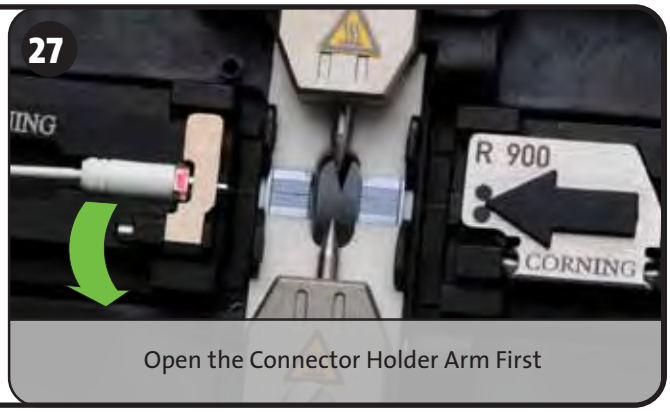


See OptiSplice® One or OptiSplice Ribbon Fusion Splicer Instructions for Completing the Splice

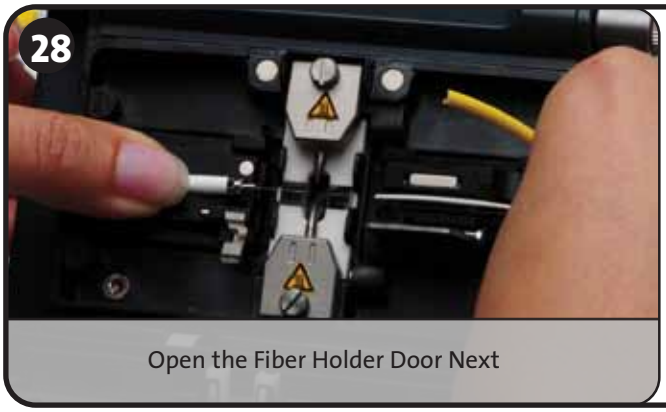
Visual Installation Instructions

FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)

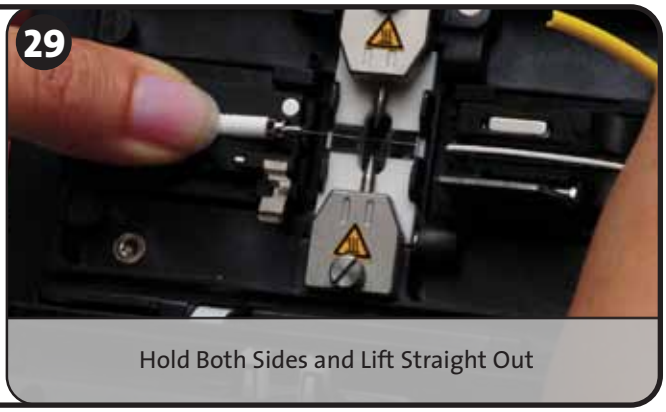
Open the Oven in Preparation



Open the Connector Holder Arm First

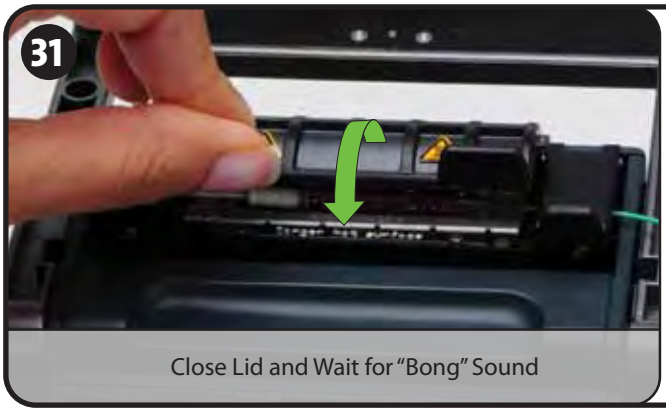


Open the Fiber Holder Door Next



Hold Both Sides and Lift Straight Out

Center and Place Splice in Oven

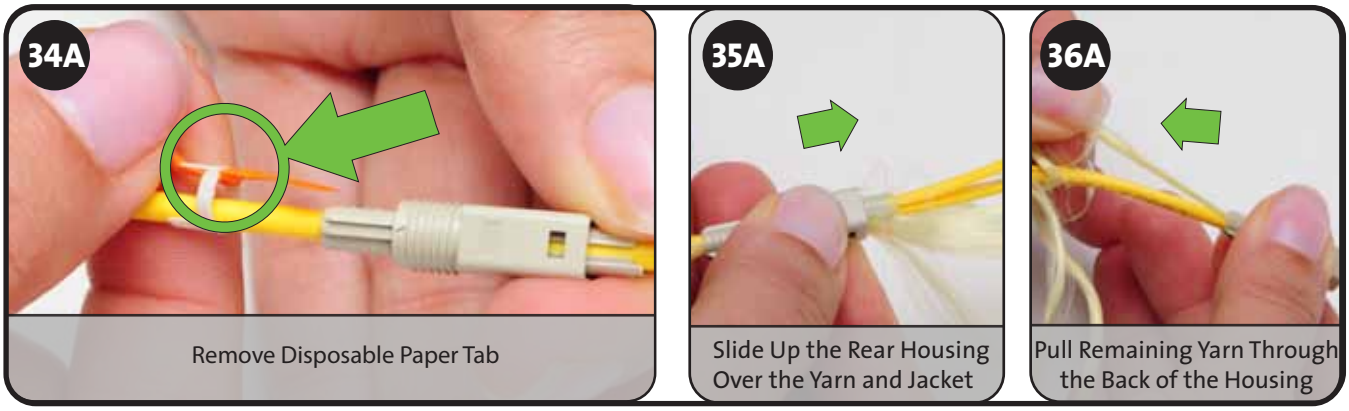


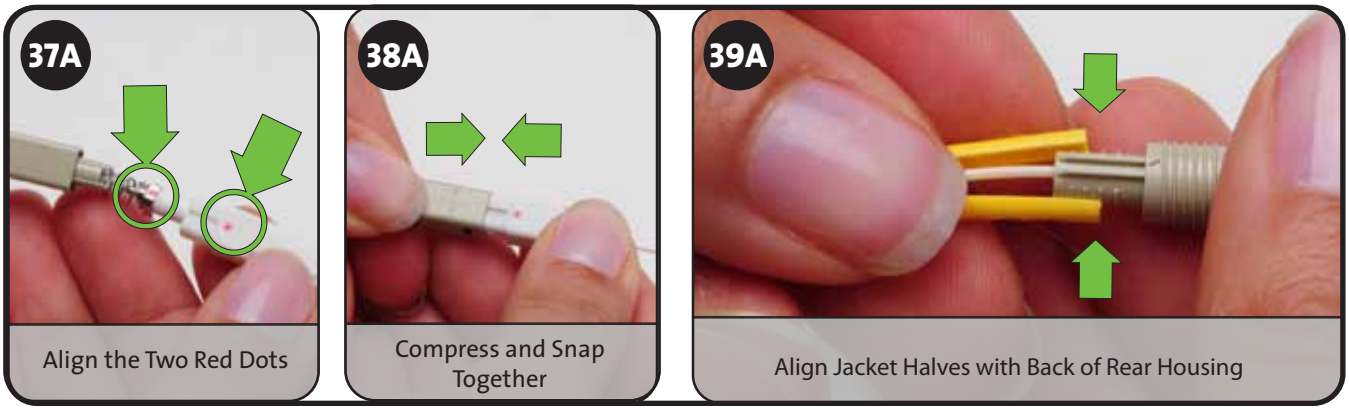
Close Lid and Wait for "Bong" Sound

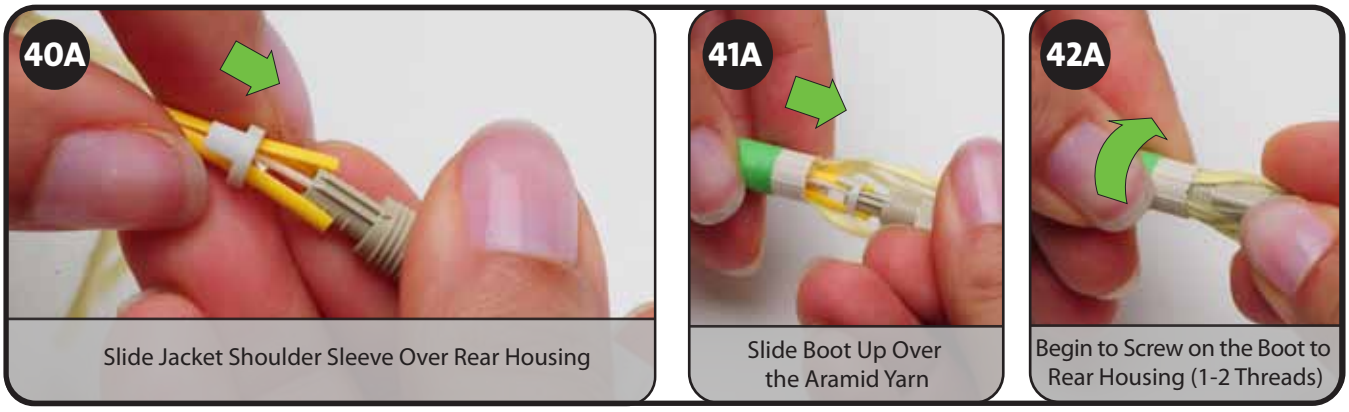
Remove From Oven
CAREFUL; OVEN WILL BE HOT

Visual Installation Instructions

FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)

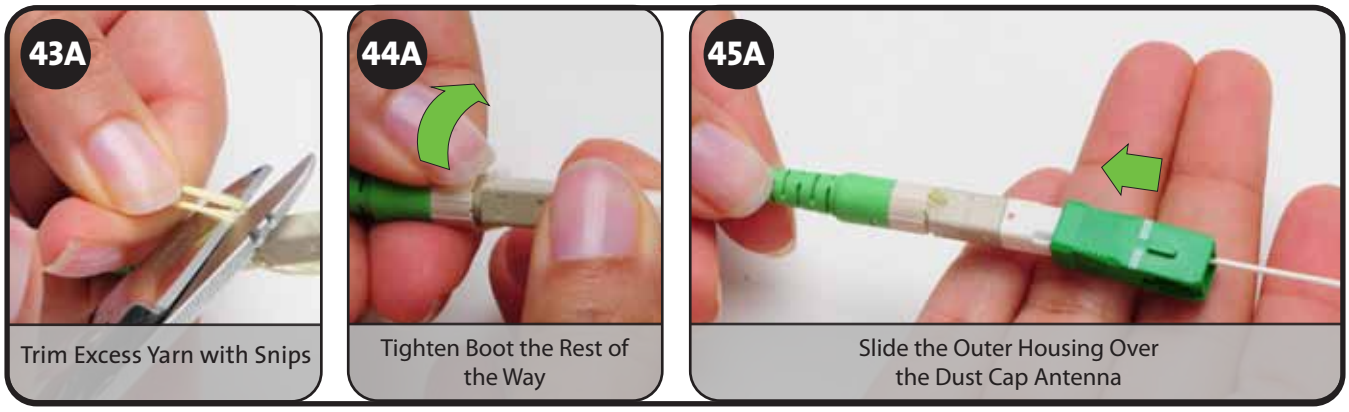


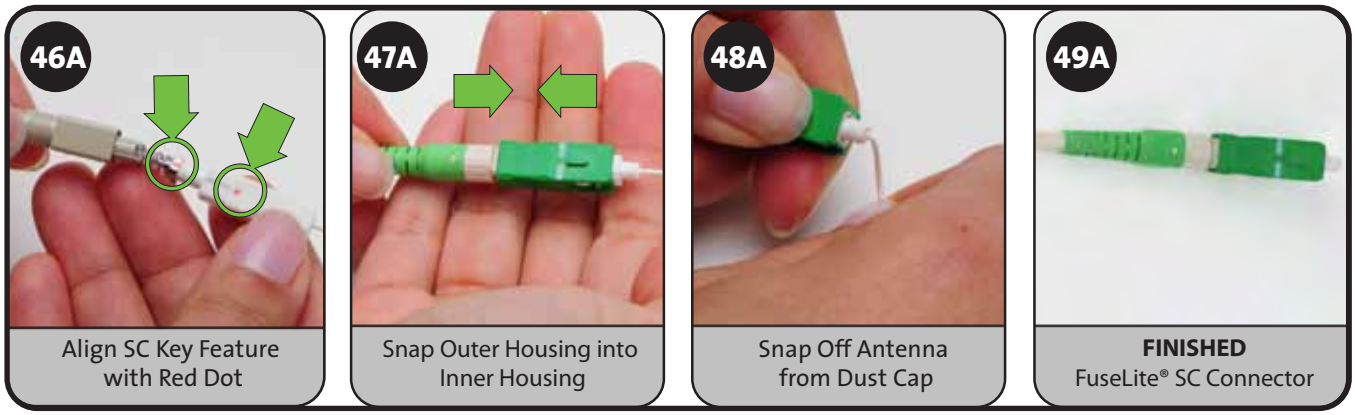


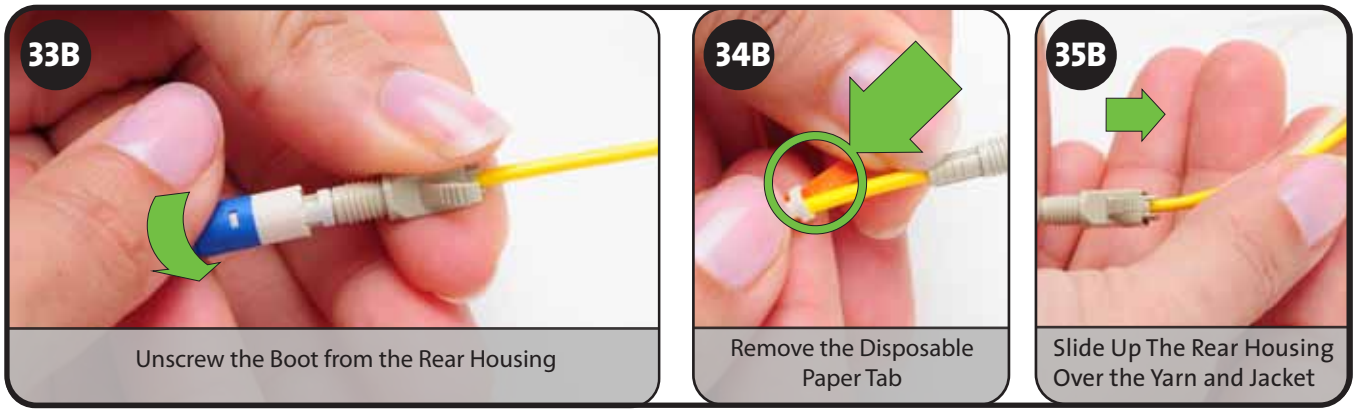


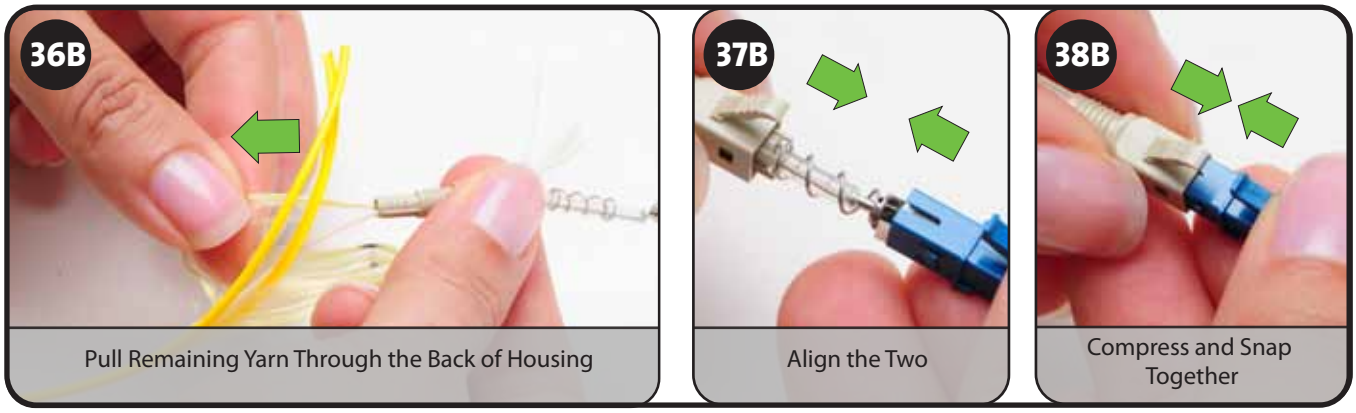
Visual Installation Instructions

FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)



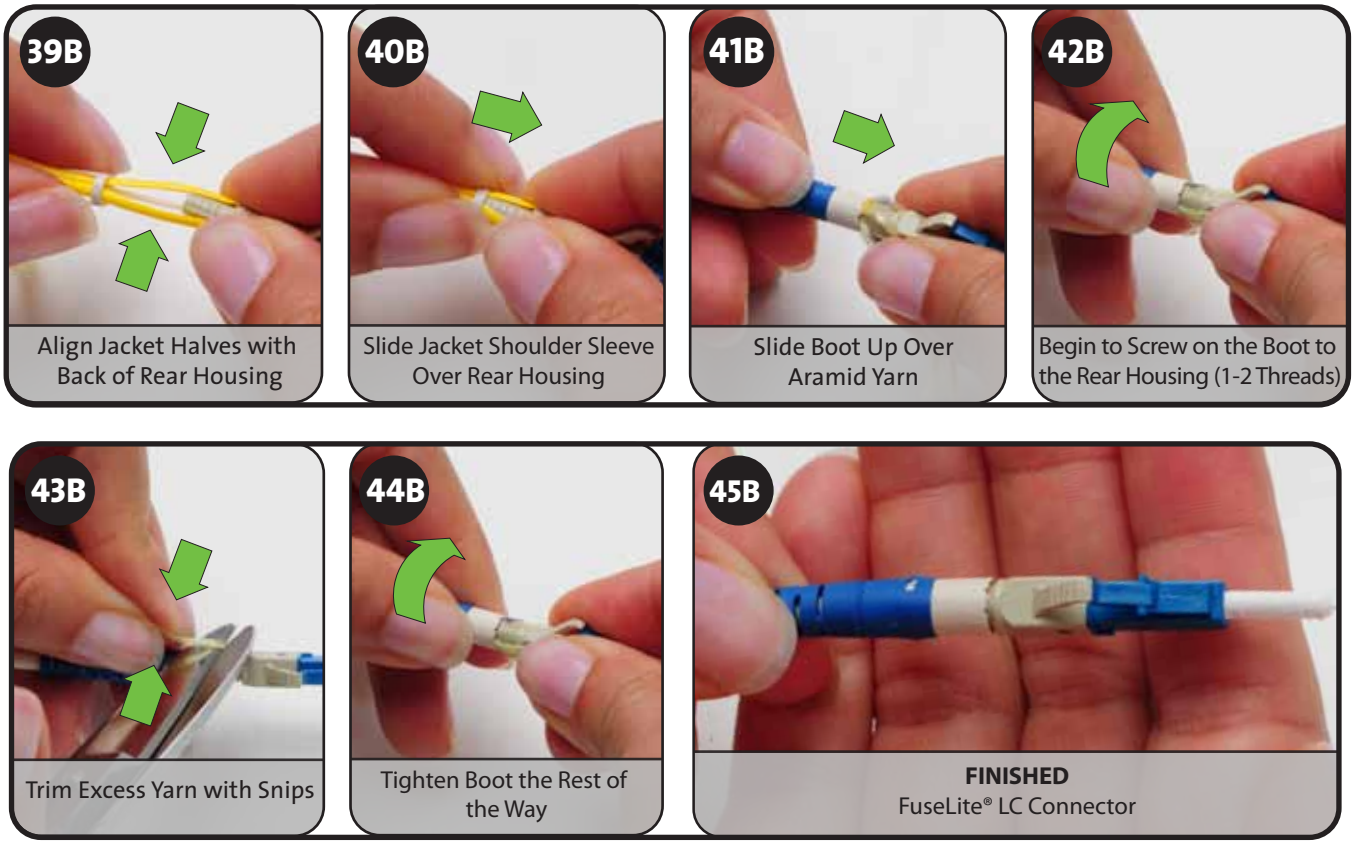






Visual Installation Instructions

FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)



Visual Installation Instructions
FuseLite® Single-Fiber Connector SRP

Satety Precautions

Optical Fiber Precautions

	**WARNING:** Cleaved or broken glass fibers are very sharp and can pierce the skin or damage the eyes easily. Do not let pieces of fiber stick to your clothing or drop in the work area where they can cause injury later. Use tweezers to pick up pieces of fiber and place them on a loop of tape or approved “Fiber Optic/Sharps” disposal container.

Chemical Precautions

	**CAUTION:** Fiber Clean Wipes contain hydrocarbons. Apply in rooms having normal room ventilation. For prolonged and/or repeated use, gloves are recommended. Avoid eye contact. Keep away from open flames and ignition sources. If ingested, do not induce vomiting. Consult a physician. In case of eye contact, flush eyes with water for 15 minutes.

Personal Protection Equipment (PPE) Precautions

	**CAUTION:** Corning Cable Systems recommends the use of safety glasses (spectacles) conforming to ANSI Z87 for eye protection from accidental injury when handling chemicals, cables or working with fiber. Pieces of glass fiber are very sharp and have the potential to damage the eye. **CAUTION:** The wearing of cut-resistant safety gloves to protect your hands from accidental injury when using sharp-bladed tools is strongly recommended. To minimize the chance of injury from sharp-bladed tools, always cut away from yourself and others. Dispose of used blades and armor scrap properly.

Laser Precautions

	**CAUTION:** Never look directly into the end of a fiber that may be carrying laser light. Laser light can be invisible and can damage your eye. Viewing it directly does not cause pain. The iris of the eye will not close involuntarily as when viewing a bright bulb. Consequently, serious damage to the retina of the eye is possible. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.

Cable Handling Precautions

	**CAUTION:** Fiber optic cable is sensitive to excessive pulling, bending and crushing forces. Consult the cable specification sheet for the cable you are installing. Do not bend the cable more sharply than the minimum recommended bend radius. Do not apply more pulling force to the cable than specified. Do not crush the cable or allow it to kink. Doing so may cause damage that can alter the transmission characteristics of the cable; the cable may have to be replaced. **CAUTION:** The typical filler rod color in the cable described in this procedure is black. Careful attention should be taken to avoid accidental cutting of live buffer tubes; particularly white and black tubes. In mid-span applications, Corning Cable Systems recommends coiling all tubes and filler rods in the slack storage area of the splice closure; especially for cables with fiber counts above 96 fibers. Avoid cutting any filler rods unless necessary for storage space considerations. When in doubt regarding the buffer tube color code and filler rod replacements, contact Corning Cable Systems Engineering Services for assistance prior to cutting. **WARNING:** Care must be taken while handling fibers during mid-span access procedures to avoid causing large deviations in optical power throughput on fibers carrying communications traffic. INTERRUPTION OF SYSTEM TRAFFIC MAY RESULT FROM NEGLECT IN HANDLING OF FIBERS

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

CORNING