

Visual Installation Instructions

FuseLite® Single-Fiber Connector SRP

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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

LC

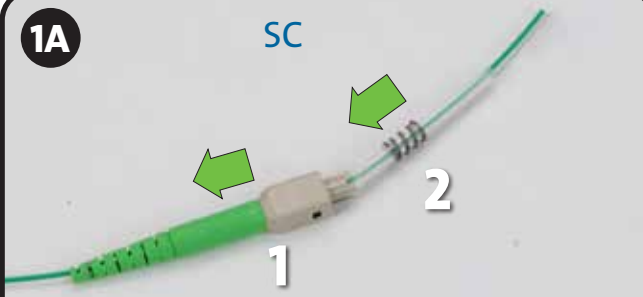


For LC FuseLite Connector,
Go to Step 1B

OR

1A

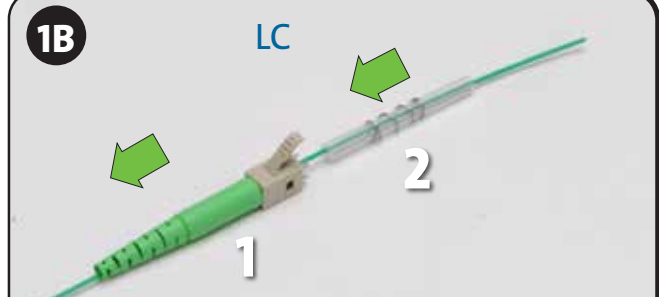
SC



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

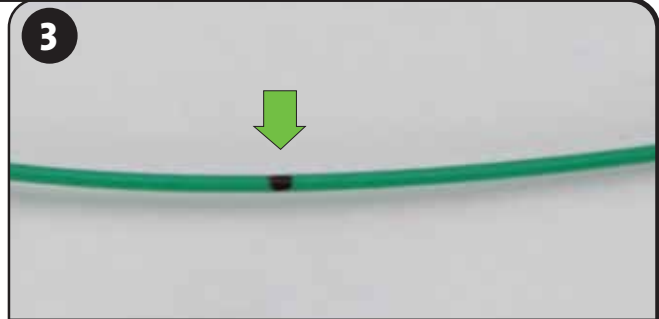
2

900 μm 250 μm



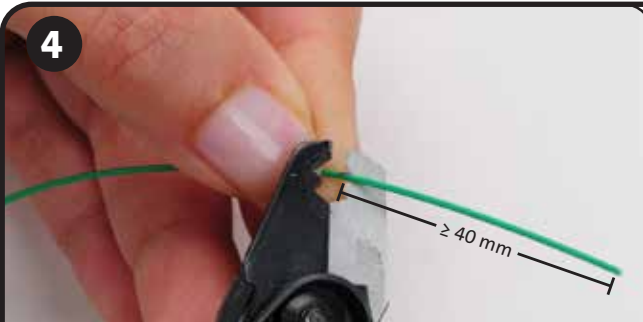
Two-Hole Miller Stripper (900 μm and 250 μm)

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

Visual Installation Instructions

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

6 Moisten Wipe with Fiber Cleaning Fluid

7 Clean with Fiber Solution (Wipe Twice)

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

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

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

11 Gently Press Down the Lever Until It Stops, Then Release

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

13 Fiber Should Be in "V-Groove"

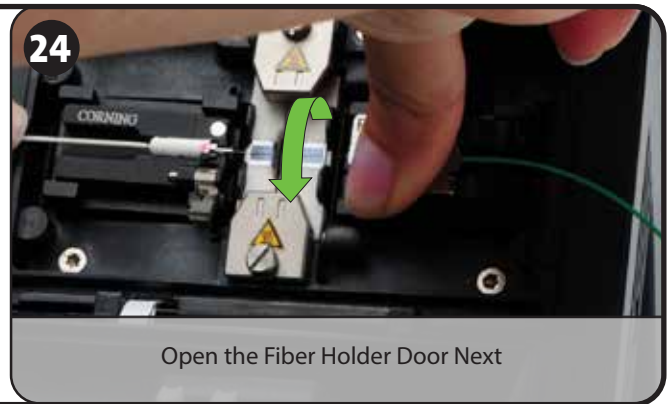
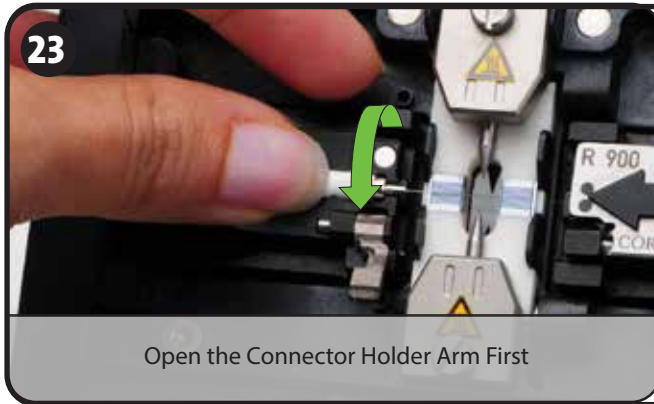
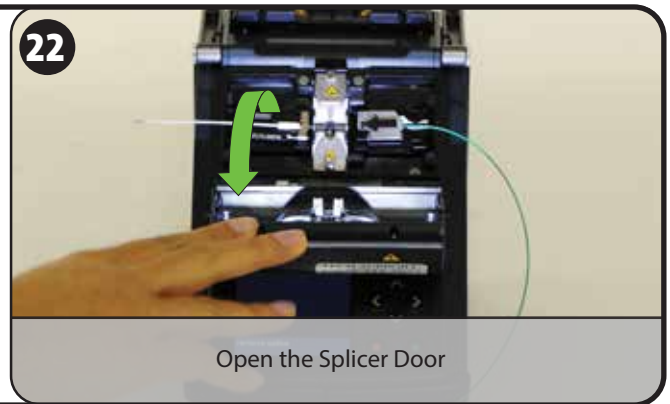
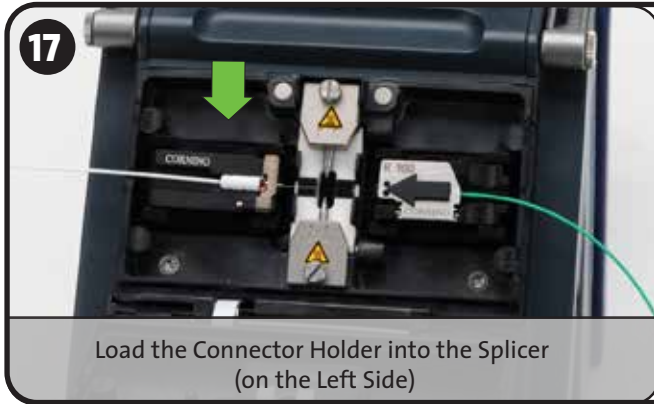
14 Connector Holder
Ferrule Assembly
Next, Select the Connector Holder and Ferrule Assembly

15 Load Ferrule Assembly into the Connector Holder; Dot Facing Out

16 Close the Holder Arm

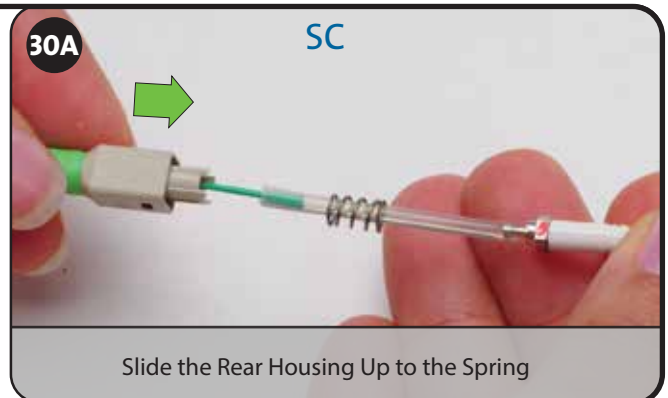
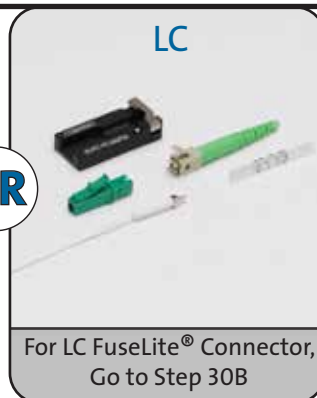
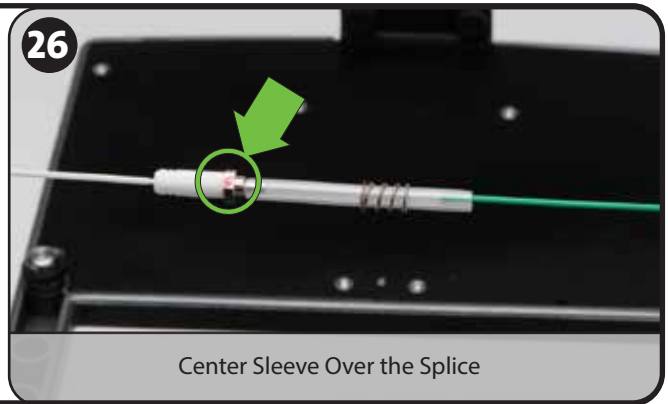
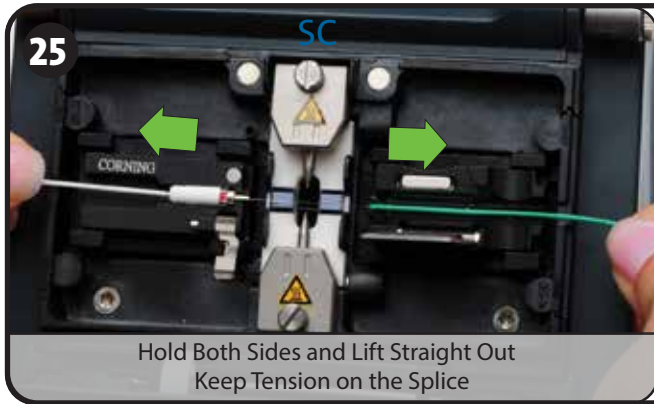
Visual Installation Instructions

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



Visual Installation Instructions

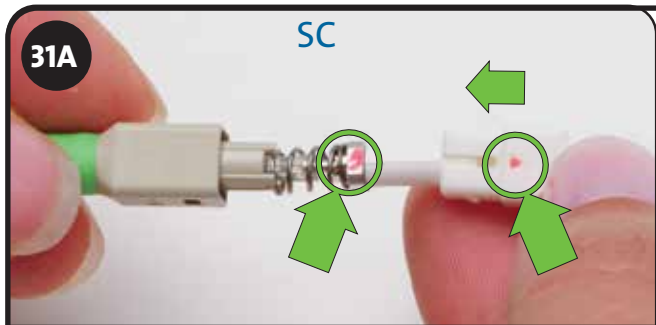
FuseLite® SC/LC Connectors on 250-900 μm Tight-Buffered Fiber



Visual Installation Instructions

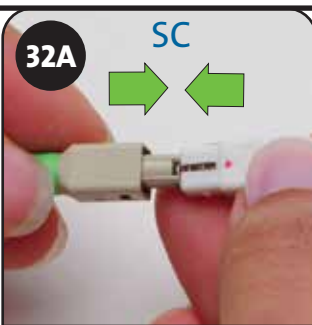
FuseLite® SC/LC Connectors on 250-900 μm Tight-Buffered Fiber

31A SC



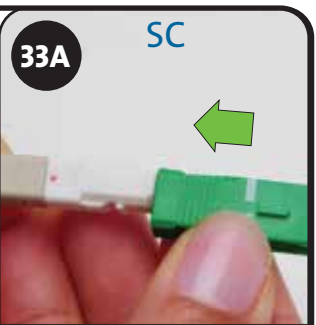
Slide the Inner Housing Over the Dust Cap Antenna
Align the Two Red Dots

32A SC



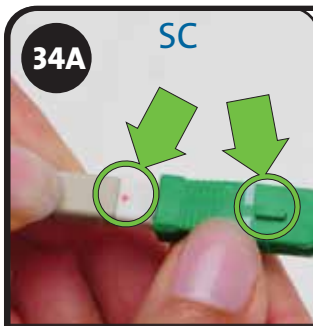
Compress and Snap Together

33A SC



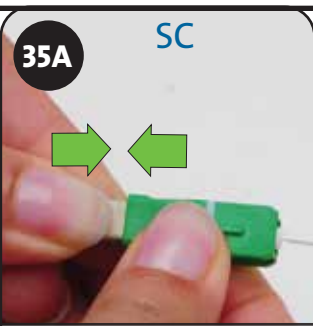
Slide the Outer Housing Over the Dust Cap Antenna

34A SC



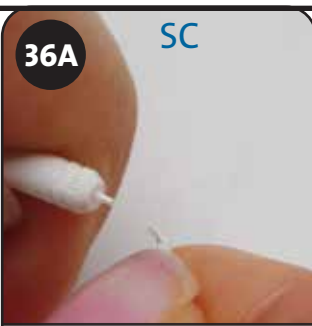
Align SC Key Feature with Red Dot

35A SC




Snap Outer Housing onto Inner Housing

36A SC



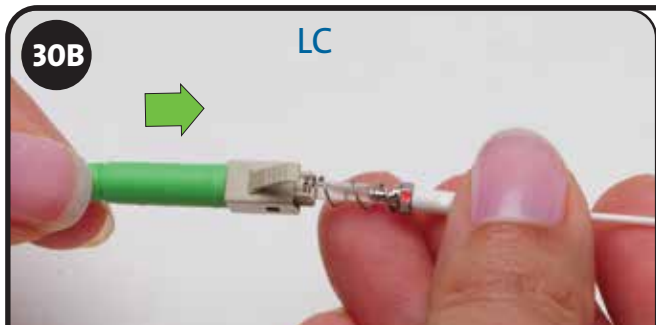
Snap Off Antenna from Dust Cap

37A SC



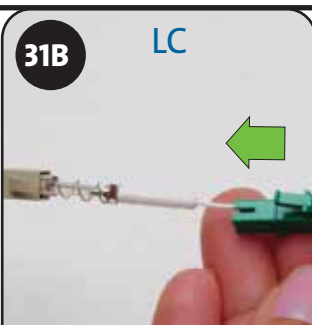
FINISHED
FuseLite® SC Connector

30B LC



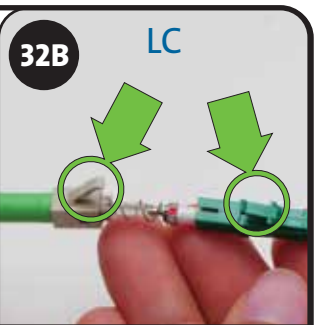
Slide the Rear Housing Up to the Spring

31B LC



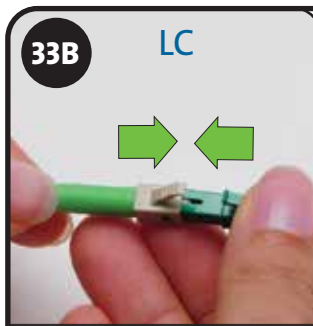
Slide the Inner Housing Over the Dust Cap Antenna

32B LC



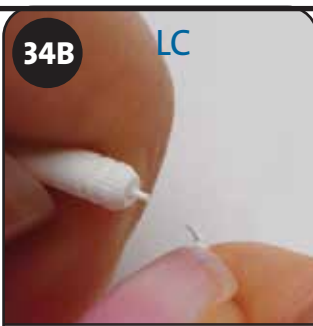
Align the Two Trigger Components

33B LC




Compress and Snap Together

34B LC



Snap Off Antenna from Dust Cap

35B LC



FINISHED
FuseLite LC Connector.

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

LC

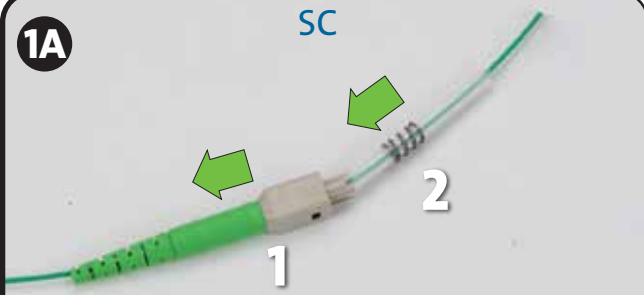
OR



For LC FuseLite Connector,
Go to Step 1B

1A

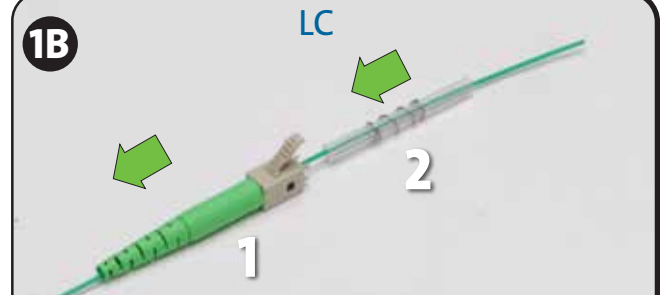
SC



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

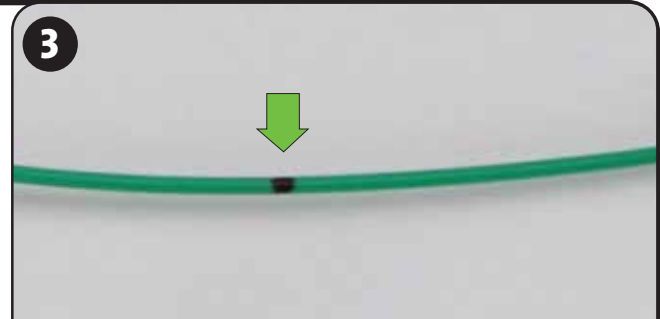
2

900 μ m 250 μ m



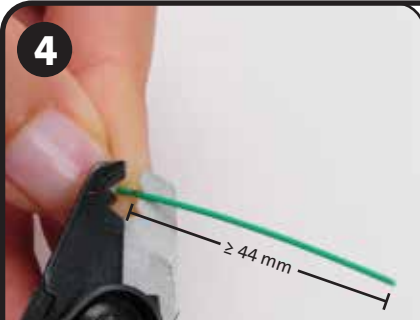
Two-Hole Miller Stripper (900 μ m and 250 μ m)

3



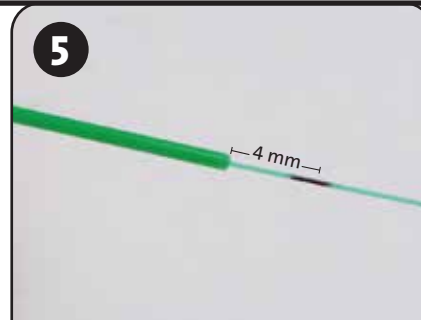
Place a Mark \geq 44 mm from the End of the Fiber

4



Strip the 900 μ m Buffer
with Larger Notch

5



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

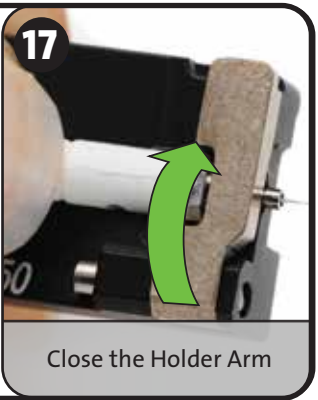
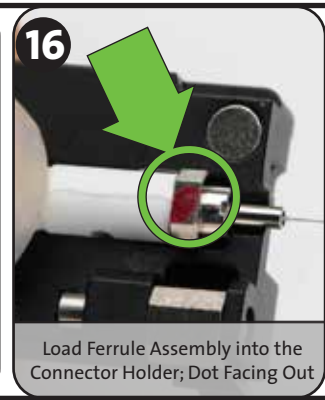
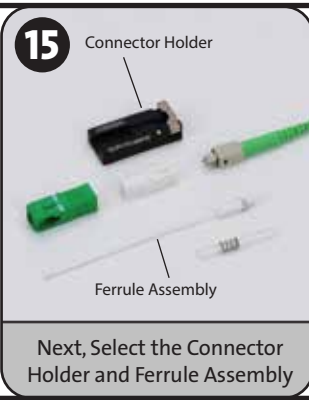
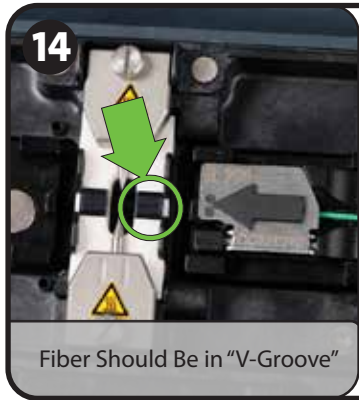
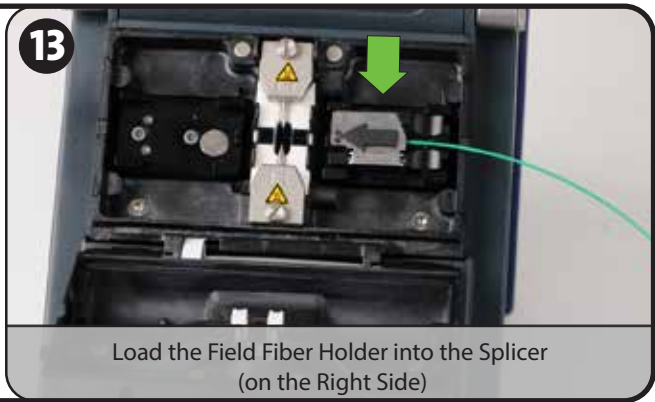
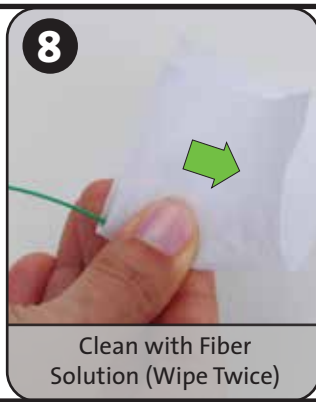
6



Strip the 250 μ m Coating with the
Smaller Notch Starting at the Mark

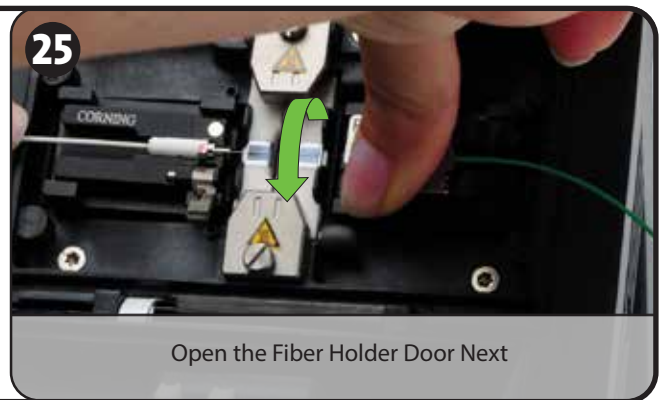
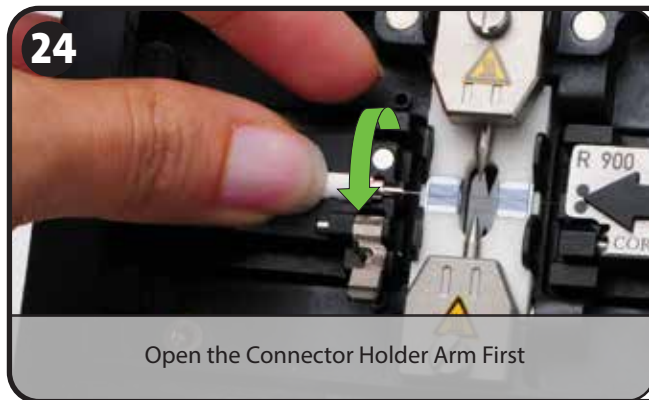
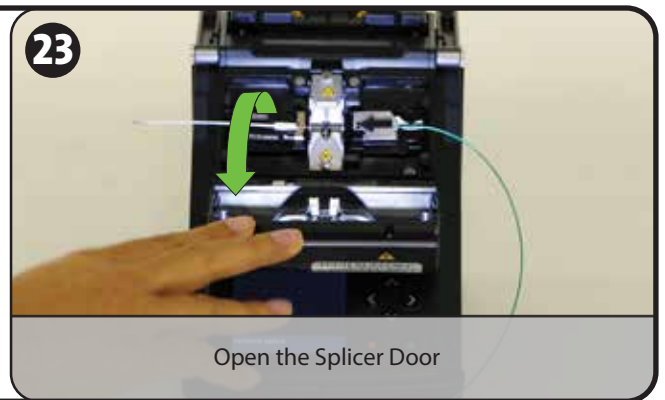
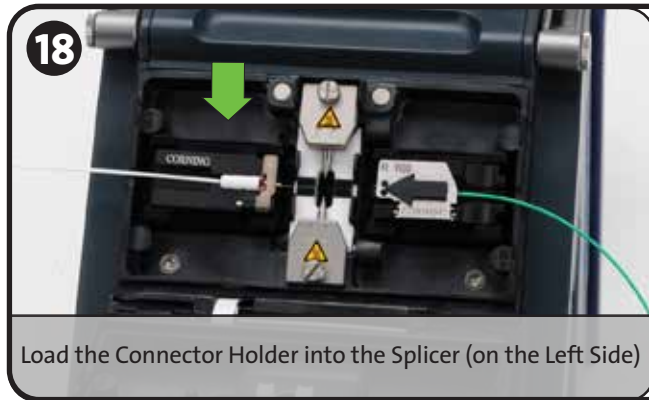
Visual Installation Instructions

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



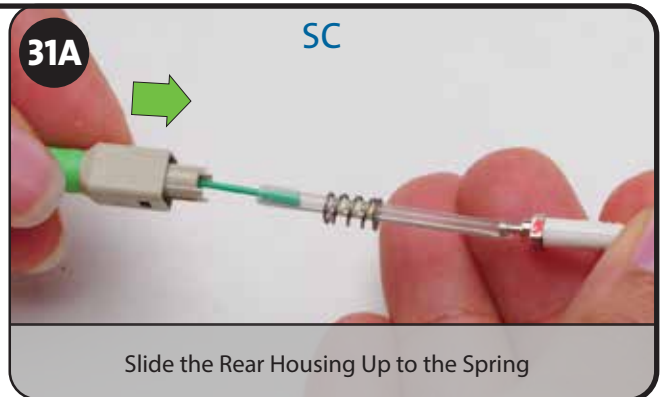
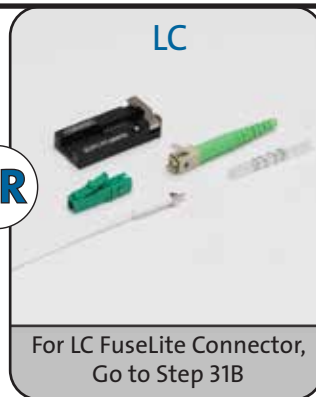
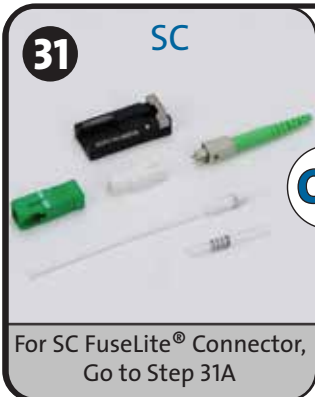
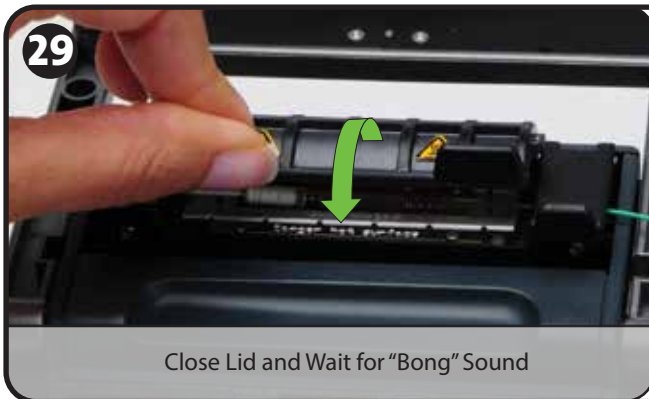
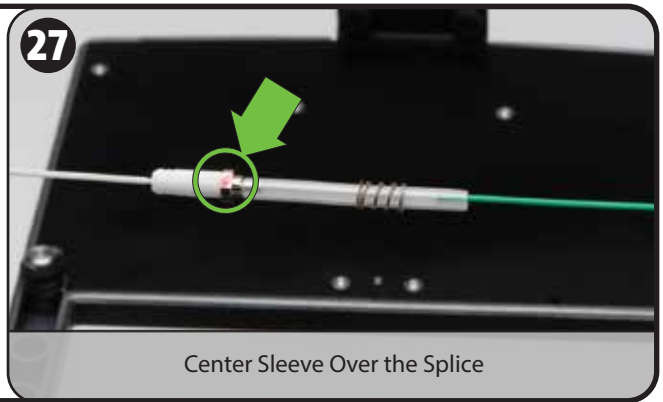
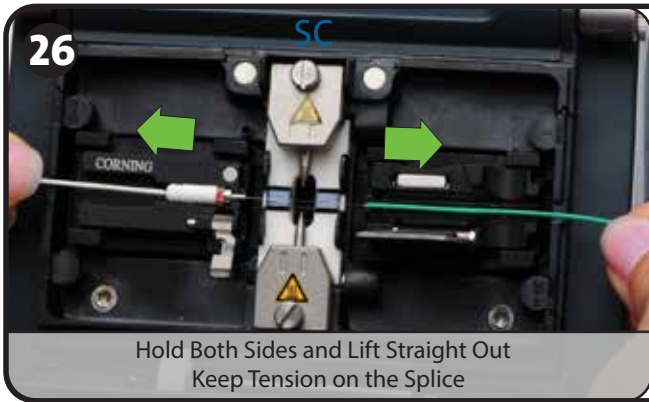
Visual Installation Instructions

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



Visual Installation Instructions

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



Visual Installation Instructions

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

32A SC

Slide the Inner Housing Over the Dust Cap Antenna
Align the Two Red Dots

33A SC

Compress and Snap Together

34A SC

Slide the Outer Housing Over the Dust Cap Antenna

35A SC

Align SC Key Feature with Red Dot

36A SC

Snap Outer Housing onto Inner Housing

37A SC

Snap Off Antenna from Dust Cap

38A SC

FINISHED
FuseLite® SC Connector

31B LC

Slide the Rear Housing Up to the Spring

32B LC

Slide the Inner Housing Over the Dust Cap Antenna

33B LC

Align the Two Trigger Components

34B LC

Compress and Snap Together

35B LC

Snap Off Antenna from Dust Cap

36B LC

FINISHED
Fuselite LC Connector

Visual Installation Instructions

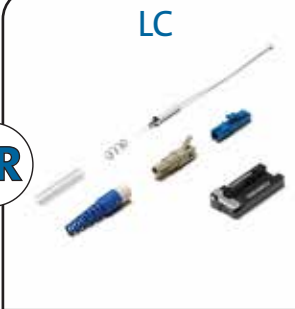
FuseLite® SC/LC Connectors on Jacketed Cable (2.0/3.0 mm)

Tools Required

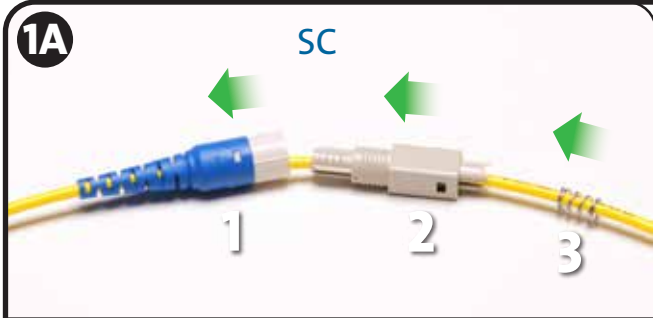
SC or LC FuseLite® Connectors
 Fusion Splicer (OptiSplice® Ribbon Fusion Splicer Shown Here)
 Connector Holder (SOC-HLD-CON-SCLC)
 Cleaver
 3-Hole Jonard Tool
 Fiber Optic Cleaning Fluid
 Lint-Free Wipes
 Permanent Marker



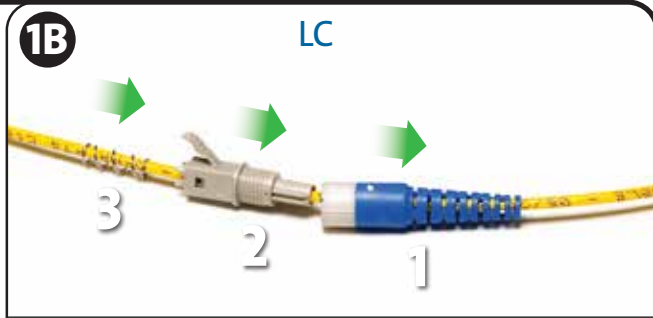
For SC FuseLite Connector,
Go to Step 1A



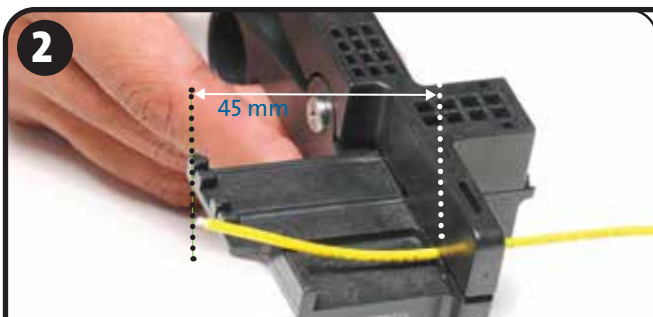
For LC FuseLite Connector,
Go to Step 1B



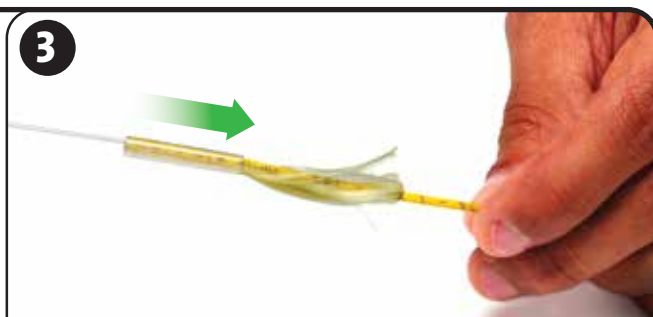
Insert Rear SC Housing and Spring onto the Field Fiber. Proceed to Step 2



Insert Rear Housing and Spring onto the Field Fiber. Proceed to Step 2



Ring Cut the Outer Jacket at approximately 45mm, Remove Jacket



Place Heat-shrink over Aramid Yarn, Folding the Yarn back over the Jacket



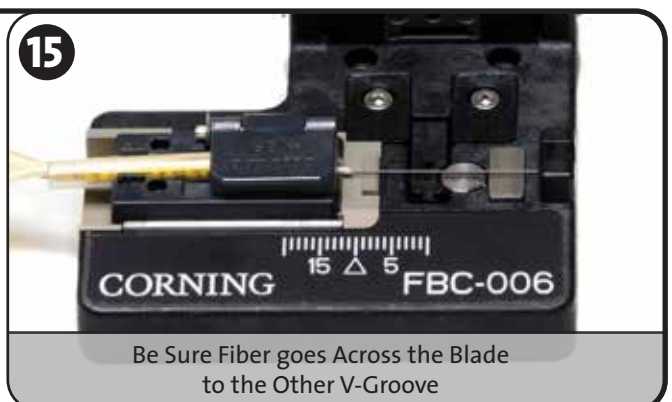
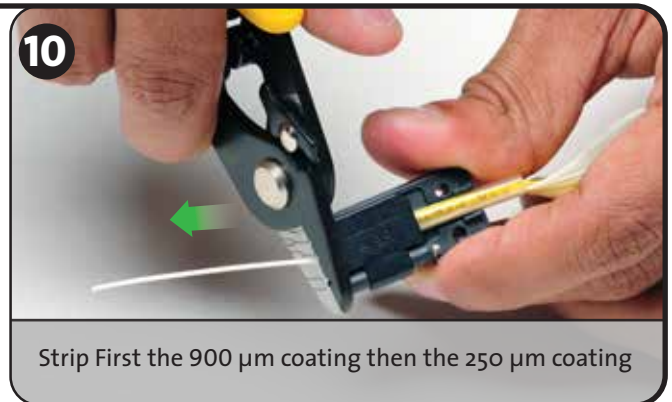
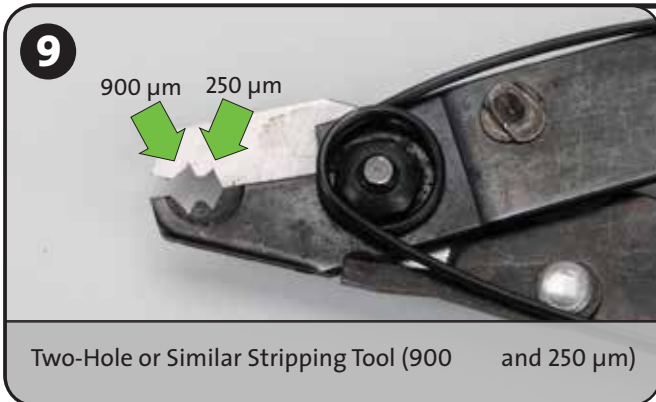
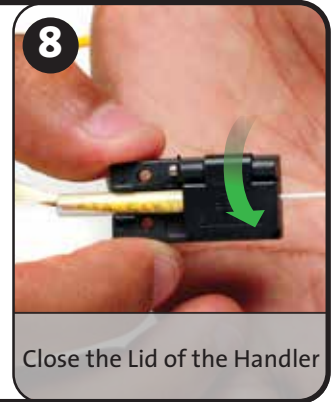
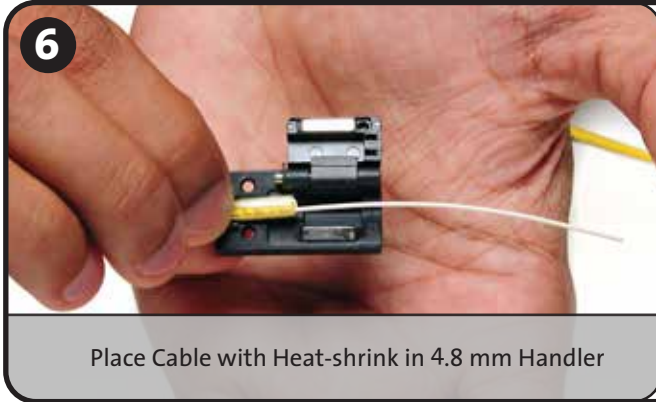
With the Heat-shrink Flush against the end of the Jacket, Trim Yarn the Same Length as Heat-shrink



Heat-shrink will Remain until Needed

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)

16



Slowly Press the Lever Down Fully Against the Fiber and Release

17



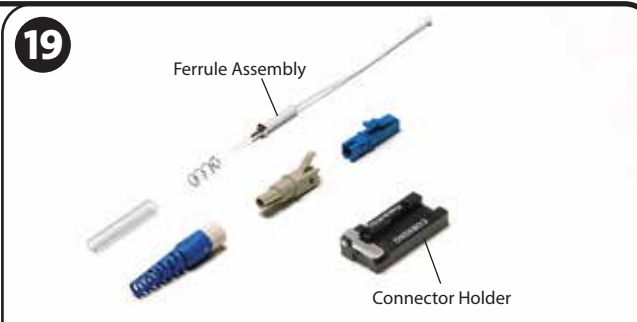
Load the Handler into the Splicer (on the Right Side)

18



Fiber Should Be in V-Groove

19



Ferrule Assembly

Connector Holder

Next, Select the Connector Holder and the Ferrule Assembly

20



Load Ferrule Assembly into the Connector Holder

21



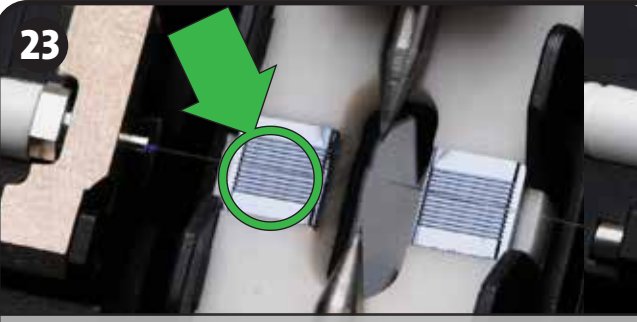
Close the Holder Arm

22



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

23



Fiber Should Be in the V-Groove

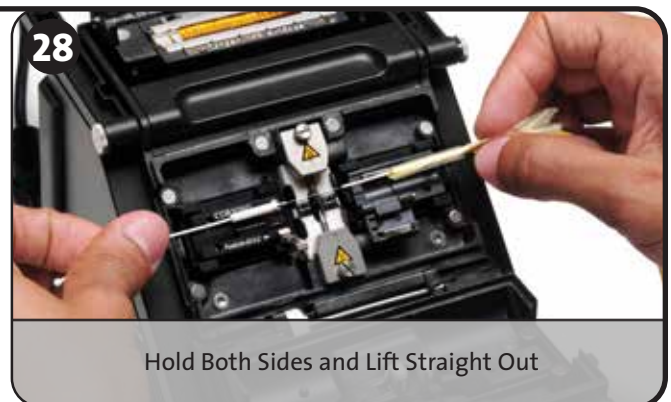
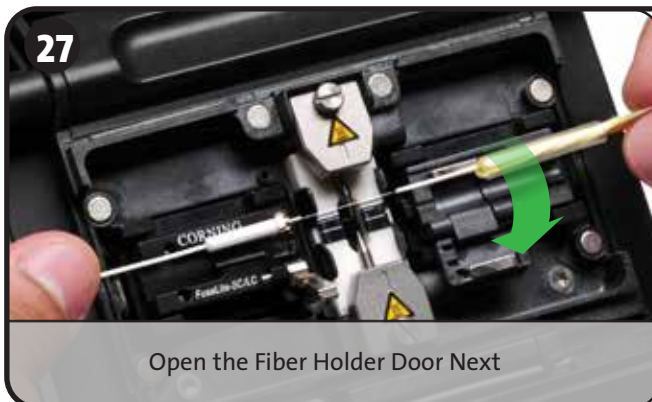
24



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


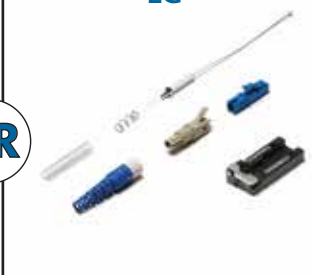
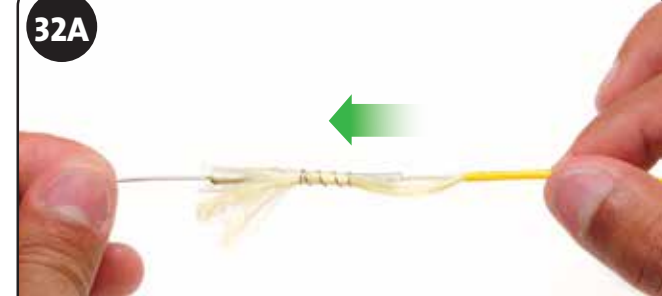
Visual Installation Instructions



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





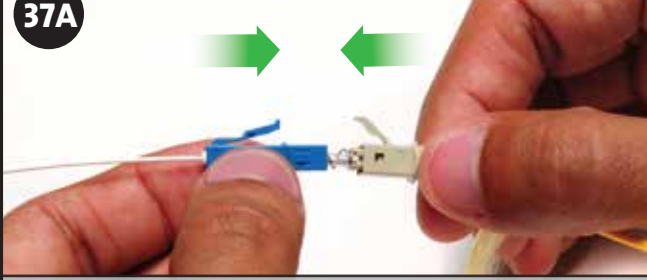
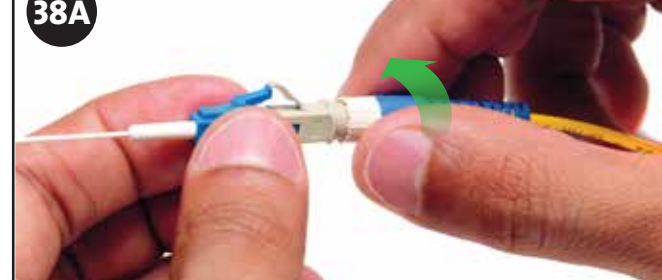
Visual Installation Instructions

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

<p>32 SC</p>  <p>For SC FuseLite® Connector, Go to Step 32B</p>	<p>OR</p> <p>LC</p>  <p>For LC FuseLite Connector, Go to Step 32A</p>	<p>32A</p>  <p>Slide the Spring Over the Heat-shrink</p>
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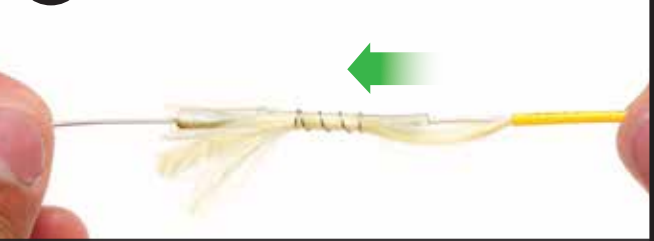
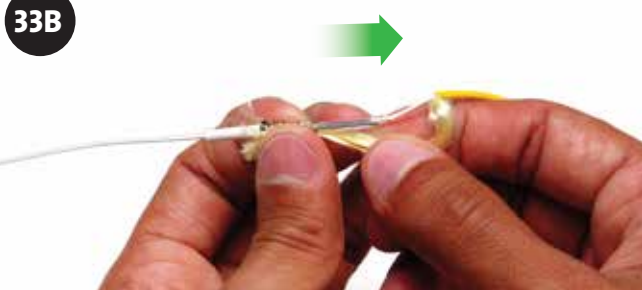


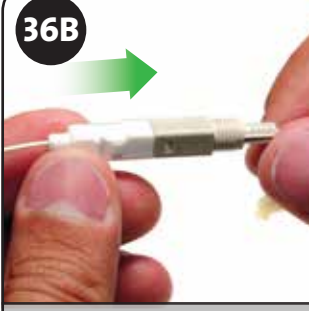
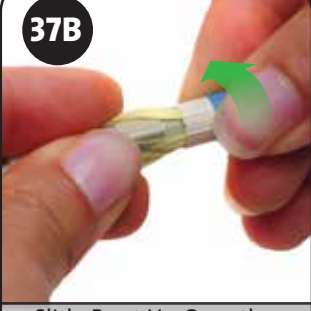
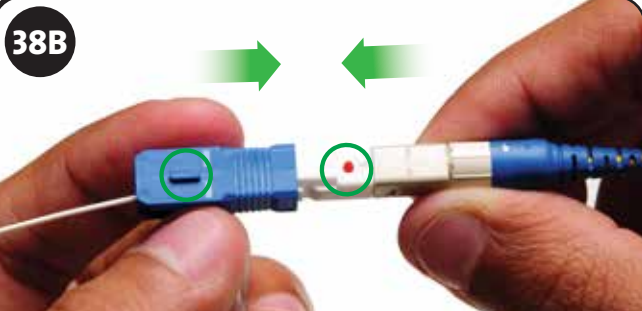

<p>33A</p>  <p>Pull Yarn Back so it's Not Under the Spring</p>	<p>34A</p>  <p>Spring Remains Up Against the Back of the Metal Body</p>
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<p>35A</p>  <p>Slide the Rear Housing Up to the Spring</p>	<p>36A</p>  <p>Pull Yarn Out From Under the Rear Housing</p>
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<p>37A</p>  <p>Slide the Inner Housing Over the Dust Cap Antenna. Align Trigger Components and Press Together</p>	<p>38A</p>  <p>Slide Boot Up Over the Aramid Yarn. Be Sure Threads Capture the Aramid Yarn</p>
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Visual Installation Instructions

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


<p>39A</p>  <p>Trim Aramid Yarn if Necessary. Termination Complete</p>	<p>32B</p>  <p>Slide the Spring Over the Heat-shrink</p>	
<p>33B</p>  <p>Pull Yarn Back so it's Not Under the Spring</p>	<p>34B</p>  <p>Spring Remains Against the Back of the Metal Body</p>	
<p>35B</p>  <p>Slide the Rear Housing Up to the Spring and Pull Yarn Out</p>	<p>36B</p>  <p>Slide the Inner Housing Over the Dust Cap and Snap Together</p>	<p>37B</p>  <p>Slide Boot Up Over the Aramid Yarn. Aramid Yarn is Captured in Threads</p>
<p>38B</p>  <p>Slide the Shroud over the Dust Cap Aligning the Key With the Red Dot</p>	<p>39B</p>  <p>Snap the Shroud to the Inner Housing. Termination Complete</p>	

Visual Installation Instructions


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

Safety 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.
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Chemical Precautions

	CAUTION: Fiber Cleaning Fluids 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.
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Personal Protection Equipment (PPE) Precautions

	CAUTION: Corning 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.
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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.
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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 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 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 NEGLIGENCE IN HANDLING OF FIBERS
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