

# OCC Xpress Fiber Connector Termination Procedure



## XPRESS CONNECTOR TERMINATION AND ASSEMBLY INSTRUCTIONS

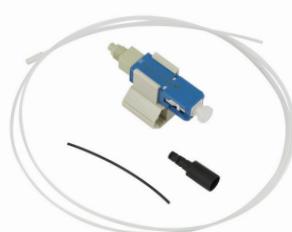
This document provides termination instructions for OCC's Xpress SC, LC and ST connectors. Read these instructions carefully before proceeding. Termination instructions are provided for 250 µm, 900 µm, 2 mm and 3 mm fiber/cable. Different termination options after cleaving the fiber are provided for each fiber type. Please choose the best option for your application.

**WARNING:** Always wear eye protection when handling optical fibers. Dispose of any cut or cleaved ends properly.  
Do not touch the cleaver wedge with bare hands.

### MATERIALS



Xpress Connector Install Tool Kit



Xpress SC Connector



Xpress LC Connector



Xpress ST Connector

### ORDERING INFORMATION

#### SC CONNECTORS

Fiber Type	Color	OCC Part No.
900µm boot only		
Multimode 62.5/125 µm, OM1	Beige	FXC-SC6-6
Multimode 50/125 µm, OM2	Black	FXC-SC5-6
Multimode 50/125 µm 10G, OM3/4	Aqua	FXC-SC5G-6
Single-mode, UPC	Blue	FXC-SC8-6
Single-mode, APC-AU	Green	FXC-SCAPC-6

#### ST CONNECTORS

Fiber Type	Color	OCC Part No.
900µm boot only		
Multimode 62.5/125 µm, OM1	Beige	FXC-ST6-6
Multimode 50/125 µm, OM2	Black	FXC-ST5-6
Multimode 50/125 µm 10G, OM3/4	Aqua	FXC-ST5G-6
Single-mode, UPC	Blue	FXC-ST8-6

#### LC CONNECTORS

Fiber Type	Color	OCC Part No.
900µm boot only		
Multimode 62.5/125 µm, OM1	Beige	FXC-LC6-6
Multimode 50/125 µm, OM2	Black	FXC-LC5-6
Multimode 50/125 µm 10G, OM3/4	Aqua	FXC-LC5G-6
Single-mode, UPC	Blue	FXC-LC8-6

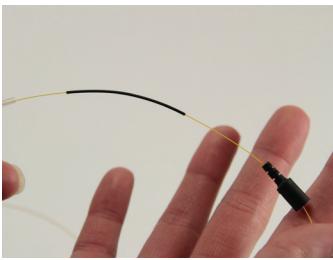
#### BOOT KITS SOLD SEPARATELY

Item Description	OCC Part No.
Pack of 6	
2 mm Boot Kit, SC/LC/ST	FXC-BOOT-2MM
3 mm Boot Kit, SC/LC/ST	FXC-BOOT-3MM

#### TOOL KITS

Item Description	OCC Part No.
Xpress Install Tool Kit	RFCTK
Xpress Connector Cleaning Kit	RFCCC

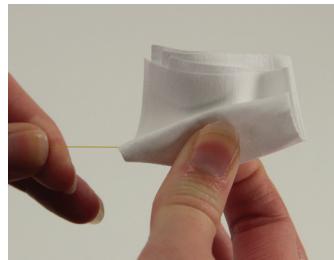
# 250 µm FIBER TERMINATION



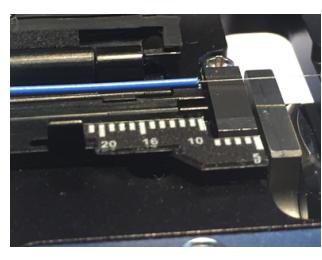
1: Insert the clear protective tubing, 250 µm protective tubing and 900 µm boot onto the fiber.



2: Strip 35 mm of 250 µm coating from the fiber.

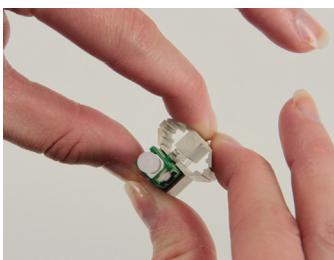


3: Clean the fiber with a lint-free wipe and fiber preparation fluid.

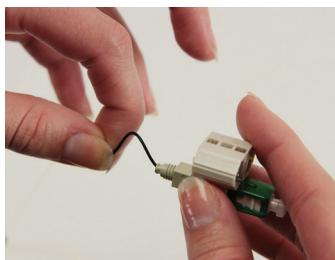


4: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

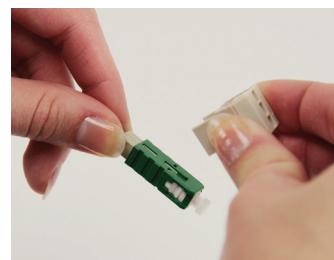
## TERMINATION OPTION A: MANUAL



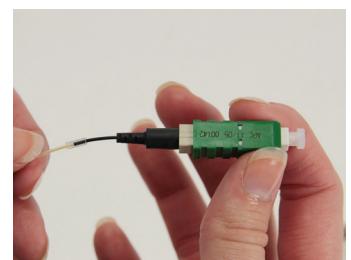
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



2: Insert fiber into connector. Bring 250 µm protective tubing forward. Create a slight bend in the fiber to maintain connection.

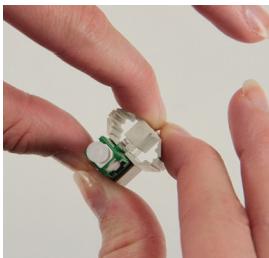


3: Release the wedge clip by squeezing both sides. Remove the wedge clip.

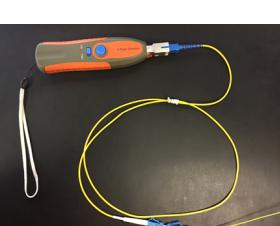


4: Slide the boot onto the connector body. Bring the clear protective tubing over the end of the 250 µm protective tubing. Termination is complete.

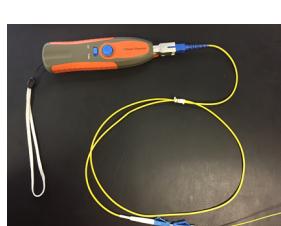
## TERMINATION OPTION B: VISUAL FAULT IDENTIFIER (VFI)



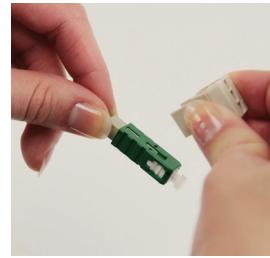
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



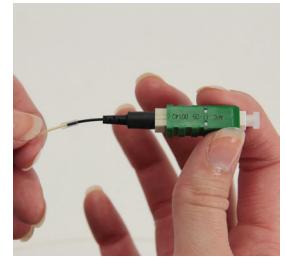
2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



3: Insert the fiber into the connector. Bring 250 µm protective tubing forward. The light will dim when a connection is made.



4: Release the wedge clip by squeezing both sides. Remove the wedge clip.



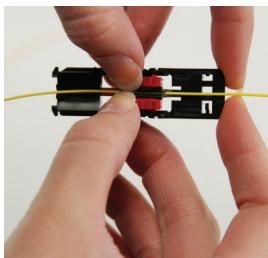
5: Slide the boot onto the connector body. Bring the clear protective tubing over the end of the 250 µm protective tubing. Termination is complete.

## FOR ST ONLY

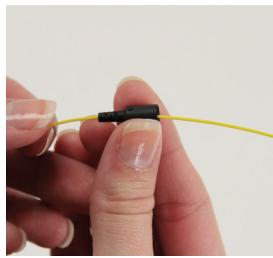


Apply the connector housing to the connector body. You will not be able to reengage the wedge clip after the housing is applied.

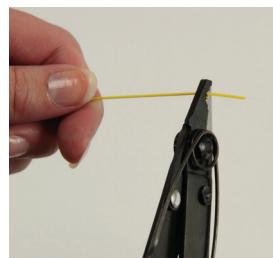
# 900 $\mu\text{m}$ FIBER TERMINATION



1: If you are using a 900  $\mu\text{m}$  fanout/breakout kit, place into 900  $\mu\text{m}$  cable clamp about 10" from the end of the cable.



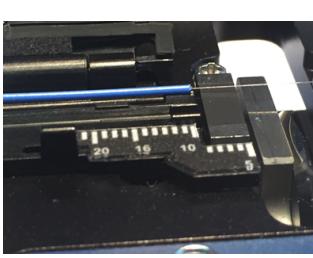
2: Place the 900  $\mu\text{m}$  boot on the cable.



3: Strip 35 mm of 900  $\mu\text{m}$  and 250  $\mu\text{m}$  coating off.

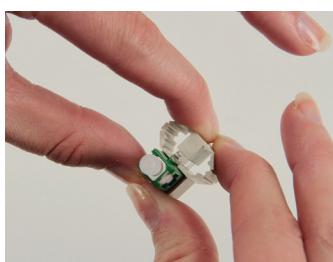


4: Clean the fiber with a lint-free wipe and fiber preparation fluid.

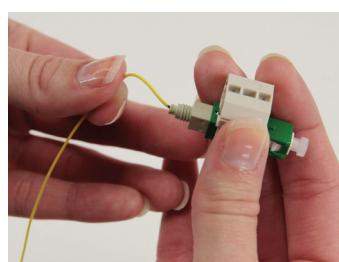


5: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

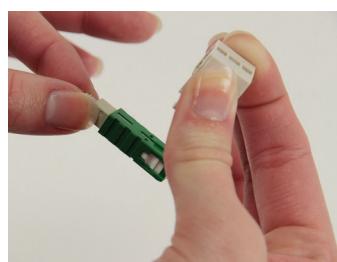
## TERMINATION OPTION A: MANUAL



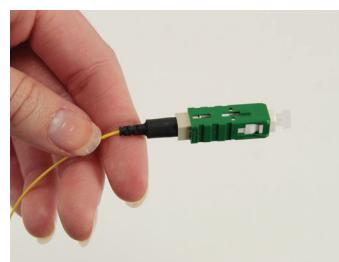
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



2: Insert the fiber into the connector with mark facing up. Create a slight bend in the connector to maintain connection.

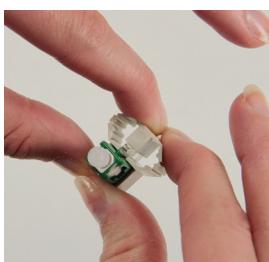


3: Release the wedge clip by squeezing both sides. Remove the wedge clip.

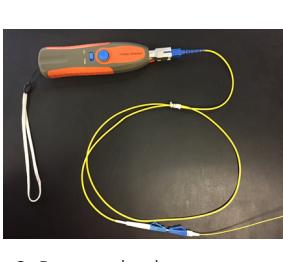


4: Slide the boot onto the connector body. Termination is complete.

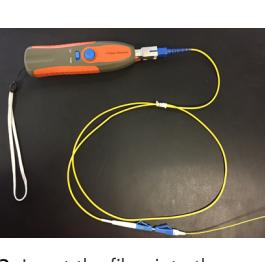
## TERMINATION OPTION B: VISUAL FAULT IDENTIFIER (VFI)



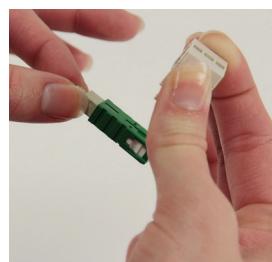
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



3: Insert the fiber into the connector with the mark facing up. The light will dim when a connection is made.



4: Release the wedge clip by squeezing both sides. Remove the wedge clip.



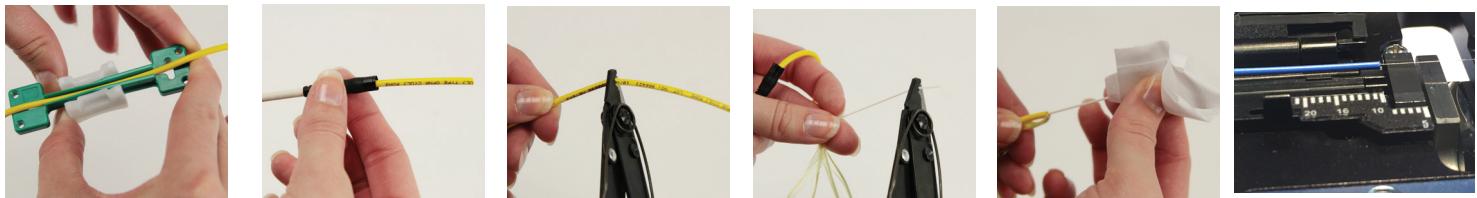
5: Slide the boot onto the connector body. Termination is complete.

## FOR ST ONLY



Apply the connector housing to the connector body. You will not be able to reengage the wedge clip after the housing is applied.

# 2 MM AND 3 MM FIBER TERMINATION



1: Place the cable into the appropriate cable clamp about 10" from the end of the cable.

2: Insert the appropriate boot onto the cable.

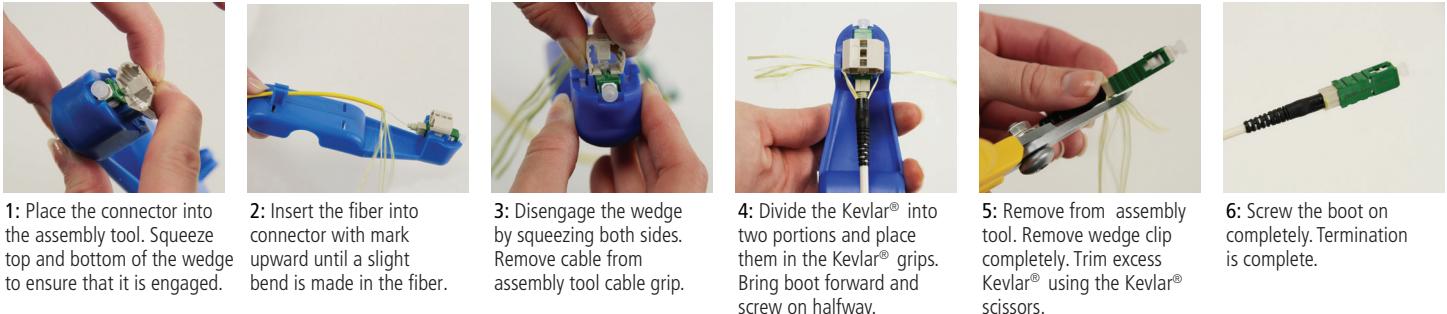
3: Remove 70 mm of cable jacket.

4: Strip off 35 mm of 900 µm and 250 µm coating.

5: Clean the fiber with a lint-free wipe and fiber preparation fluid.

6: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

## TERMINATION OPTION A: FAST ASSEMBLY TOOL



1: Place the connector into the assembly tool. Squeeze top and bottom of the wedge to ensure that it is engaged.

2: Insert the fiber into connector making sure the mark is facing up. Create a slight bend to maintain connection.

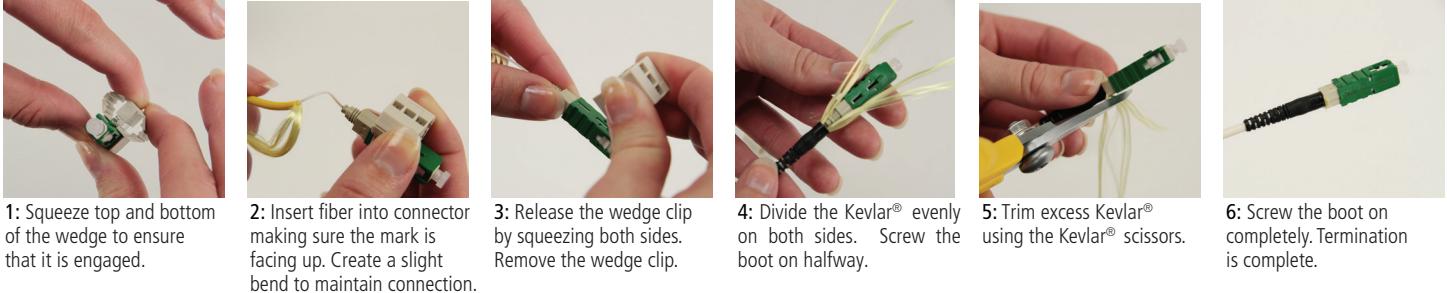
3: Disengage the wedge by squeezing both sides. Remove cable from assembly tool cable grip.

4: Divide the Kevlar® into two portions and place them in the Kevlar® grips. Bring boot forward and screw on halfway.

5: Remove from assembly tool. Remove wedge clip completely. Trim excess Kevlar® using the Kevlar® scissors.

6: Screw the boot on completely. Termination is complete.

## TERMINATION OPTION B: MANUAL



1: Squeeze top and bottom of the wedge to ensure that it is engaged.

2: Insert fiber into connector making sure the mark is facing up. Create a slight bend to maintain connection.

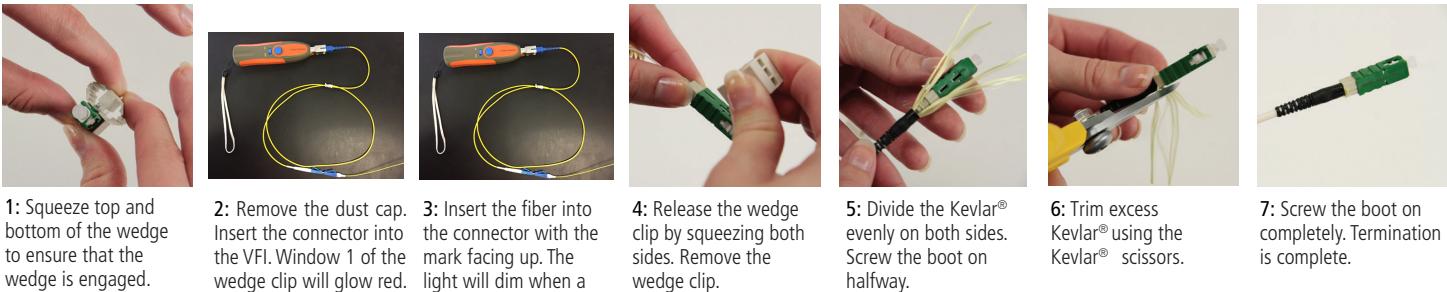
3: Release the wedge clip by squeezing both sides. Remove the wedge clip.

4: Divide the Kevlar® evenly on both sides. Screw the boot on halfway.

5: Trim excess Kevlar® using the Kevlar® scissors.

6: Screw the boot on completely. Termination is complete.

## TERMINATION OPTION C: VISUAL FAULT IDENTIFIER (VFI)



1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.

2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.

3: Insert the fiber into the connector with the mark facing up. The light will dim when a connection is made.

4: Release the wedge clip by squeezing both sides. Remove the wedge clip.

5: Divide the Kevlar® evenly on both sides. Screw the boot on halfway.

6: Trim excess Kevlar® using the Kevlar® scissors.

7: Screw the boot on completely. Termination is complete.

## FOR ST ONLY



Place the connector into the assembly tool. Squeeze top and bottom of the wedge to ensure that it is engaged. You will not be able to reengage the wedge clip after the housing is applied.