



FAST CONNECTOR TERMINATION AND ASSEMBLY INSTRUCTIONS

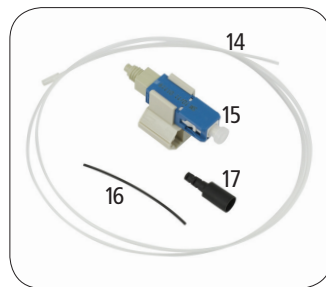
This document provides termination instructions for AFL's FAST SC, LC and ST connectors. Read these instructions carefully before proceeding. Termination instructions are provided for 250 μm , 900 μm , 2 mm and 3 mm fiber/cable. Different termination options after cleaving the fiber are provided for 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.

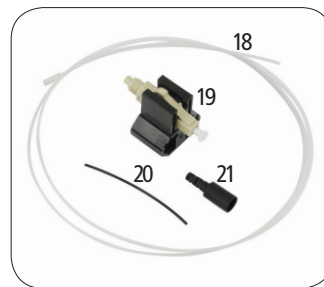
MATERIALS



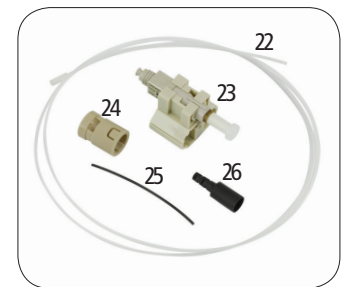
FAST Connector Universal Tool Kit



FAST SC Connector Kit



FAST LC Connector Kit



FAST ST Connector Kit

- | | | | | |
|----------------------------|----------------------------|-----------------------------------|------------------------------|------------------------------|
| 1. Blue Tool Bag | 6. FAST Assembly Tool | 11. Kevlar® Scissors | 16. 250 μm Tubing | 21. 900 μm Boot |
| 2. Fiber Preparation Fluid | 7. 0.25/0.9 mm Cable Clamp | 12. Fiber Stripper | 17. 900 μm Boot | 22. Clear Protective Tubing |
| 3. Lint-free Wipes | 8. 2 mm Cable Clamp | 13. FAST Termination Instructions | 18. Clear Protective Tubing | 23. FAST ST Connector |
| 4. CT-30A Cleaver | 9. 3 mm Cable Clamp | 14. Clear Protective Tubing | 19. FAST LC Connector | 24. ST Connector Housing |
| 5. Strip template | 10. Marker | 15. FAST SC Connector | 20. 250 μm Tubing | 25. 250 μm Tubing |

ORDERING INFORMATION

SC CONNECTORS

| Fiber Type | Color | AFL No. | |
|---|-------|------------------|--------------------|
| | | Pack of 6 | Pack of 100 |
| Multimode 62.5/125 μm , OM1 | Beige | FAST-SC-MM62.5-6 | FAST-SC-MM62.5-100 |
| Multimode 50/125 μm , OM2 | Black | FAST-SC-MM50-6 | FAST-SC-MM50-100 |
| Multimode 50/125 μm 10G, OM3 | Aqua | FAST-SC-MM50L-6 | FAST-SC-MM50L-100 |
| Single-mode, UPC | Blue | FAST-SC-SM-6 | FAST-SC-SM-100 |
| Single-mode, APC-AU | Green | FAST-SC-SMAU-6 | FAST-SC-SMAU-100 |

LC CONNECTORS

| Fiber Type | Color | AFL No. | |
|---|-------|------------------|--------------------|
| | | Pack of 6 | Pack of 100 |
| Multimode 62.5/125 μm , OM1 | Beige | FAST-LC-MM62.5-6 | FAST-LC-MM62.5-100 |
| Multimode 50/125 μm , OM2 | Black | FAST-LC-MM50-6 | FAST-LC-MM50-100 |
| Multimode 50/125 μm 10G, OM3 | Aqua | FAST-LC-MM50L-6 | FAST-LC-MM50L-100 |
| Single-mode, UPC | Blue | FAST-LC-SM-6 | FAST-LC-SM-100 |

ST CONNECTORS

| Fiber Type | Color | AFL No. | |
|---|-------|------------------|--------------------|
| | | Pack of 6 | Pack of 100 |
| Multimode 62.5/125 μm , OM1 | Beige | FAST-ST-MM62.5-6 | FAST-ST-MM62.5-100 |
| Multimode 50/125 μm , OM2 | Black | FAST-ST-MM50-6 | FAST-ST-MM50-100 |
| Multimode 50/125 μm 10G, OM3 | Aqua | FAST-ST-MM50L-6 | FAST-ST-MM50L-100 |
| Single-mode, UPC | Blue | FAST-ST-SM-6 | FAST-ST-SM-100 |

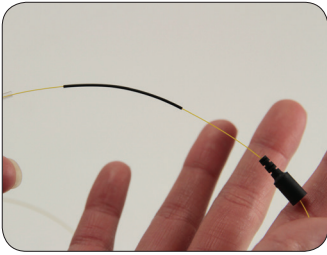
BOOT KITS

| Item Description | AFL No. | |
|-------------------------|-----------------|-------------------|
| | Pack of 6 | Pack of 100 |
| 2 mm Boot Kit, SC/LC/ST | FAST-BOOT-2MM-6 | FAST-BOOT-2MM-100 |
| 3 mm Boot Kit, SC/LC/ST | FAST-BOOT-3MM-6 | FAST-BOOT-3MM-100 |

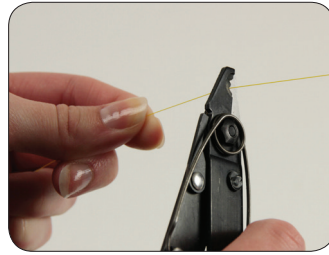
TOOL KITS

| Item Description | AFL No. |
|---|----------|
| FAST Universal Tool Kit with CT-30A Cleaver | CS001201 |
| FAST Universal Tool Kit with CT-05A Cleaver | CS010975 |

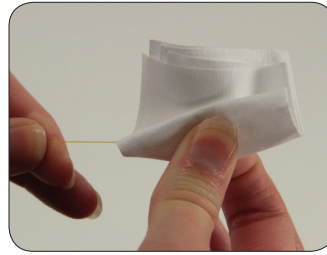
250 μ m FIBER TERMINATION



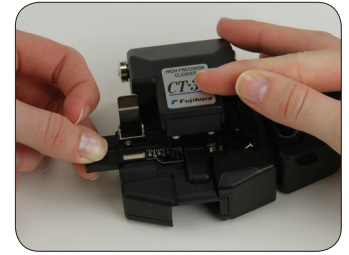
1: Insert the clear protective tubing, 250 μ m protective tubing and 900 μ m boot onto the fiber.



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

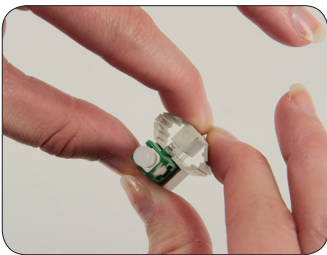


3: Clean the fiber with a lint-free wipe and fiber preparation fluid.

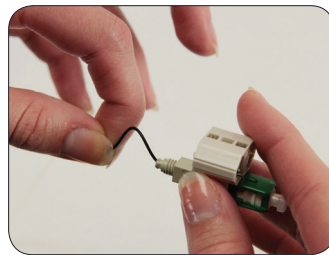


4: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

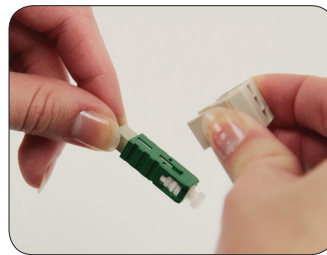
TERMINATION OPTION A: MANUAL



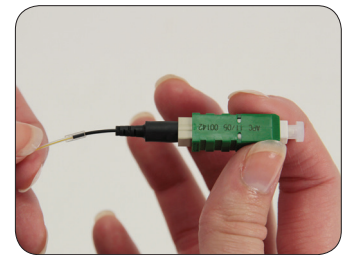
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



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

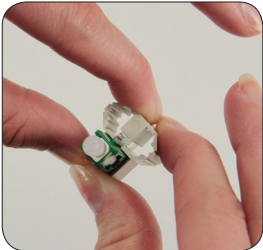


3: Release the wedge clip by squeezing both sides. Remove the wedge clip.

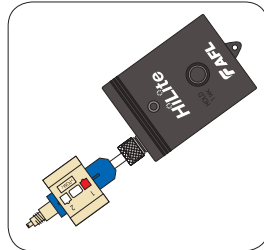


4: Slide the boot onto the connector body. Bring the clear protective tubing over the end of the 250 μ m protective tubing. Termination is complete.

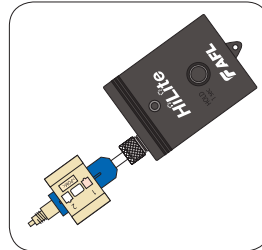
TERMINATION OPTION B: VISUAL FAULT IDENTIFIER (VFI)



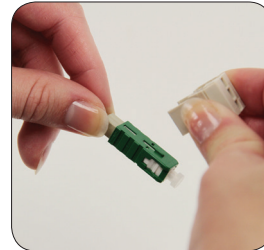
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



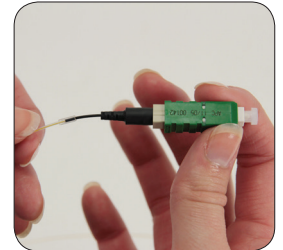
2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



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

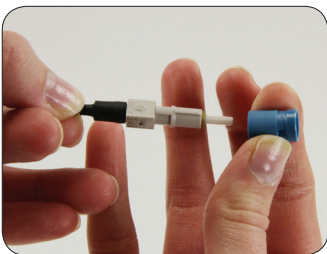


4: Release the wedge clip by squeezing both sides. Remove the wedge clip.



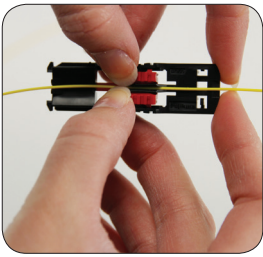
5: Slide the boot onto the connector body. Bring the clear protective tubing over the end of the 250 μ m protective tubing. Termination is complete.

FOR ST ONLY

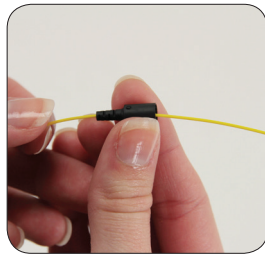


Apply the connector housing to the connector body. You will not be able to reengage the wedge clip after the housing is applied.

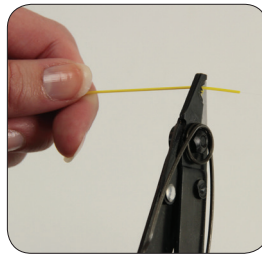
900 μ m FIBER TERMINATION



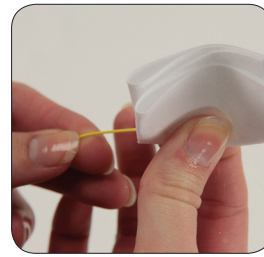
1: If you are using a 900 μ m fanout/breakout kit, place into 900 μ m cable clamp about 10" from the end of the cable.



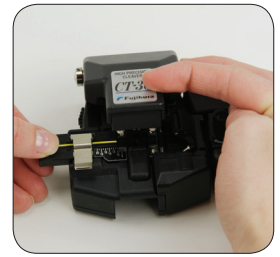
2: Place the 900 μ m boot on the cable.



3: Strip 35 mm of 900 μ m and 250 μ m coating off.

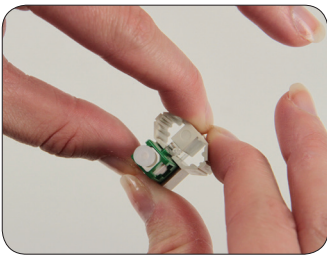


4: Clean the fiber with a lint-free wipe and fiber preparation fluid.

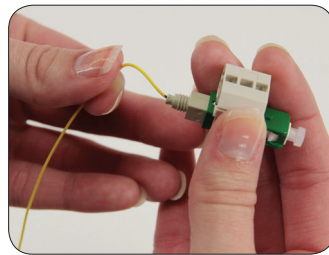


5: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

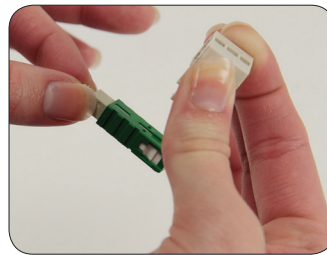
TERMINATION OPTION A: MANUAL



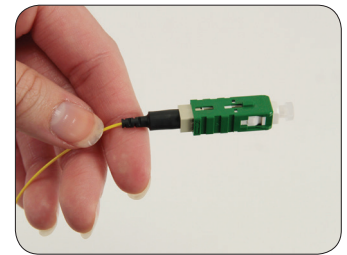
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



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

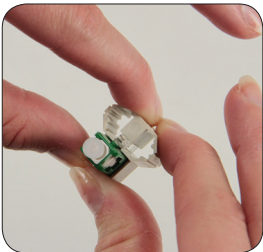


3: Release the wedge clip by squeezing both sides. Remove the wedge clip.

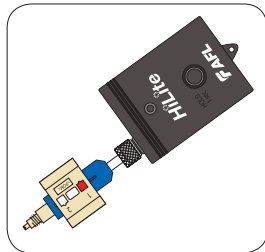


4: Slide the boot onto the connector body. Termination is complete.

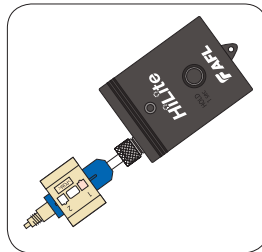
TERMINATION OPTION B: VISUAL FAULT IDENTIFIER (VFI)



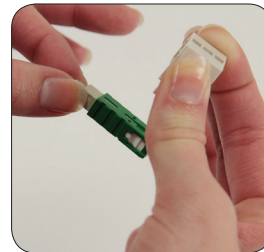
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



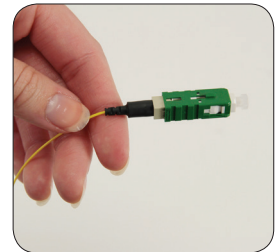
2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



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

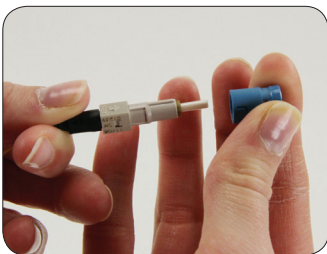


4: Release the wedge clip by squeezing both sides. Remove the wedge clip.



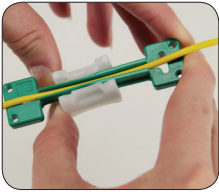
5: Slide the boot onto the connector body. Termination is complete.

FOR ST ONLY

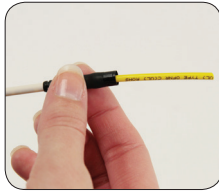


Apply the connector housing to the connector body. You will not be able to reengage the wedge clip after the housing is applied.

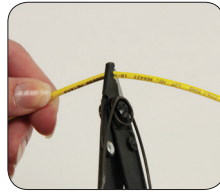
2 MM AND 3 MM FIBER TERMINATION



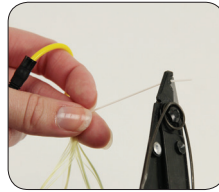
1: Place the cable into the appropriate cable clamp about 10" from the end of the cable.



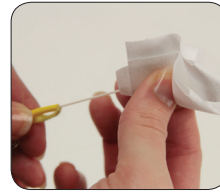
2: Insert the appropriate boot onto the cable.



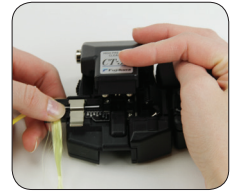
3: Remove 70 mm of cable jacket.



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

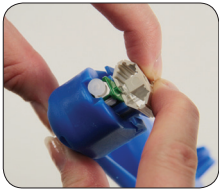


5: Clean the fiber with a lint-free wipe and fiber preparation fluid.

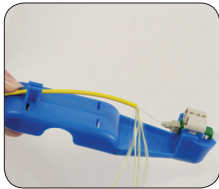


6: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

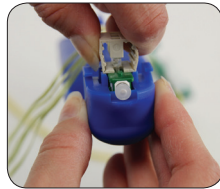
TERMINATION OPTION A: FAST ASSEMBLY TOOL



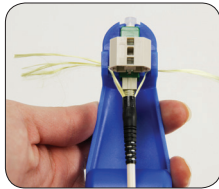
1: Place the connector into the assembly tool. Squeeze top and bottom of the wedge to ensure that it is engaged.



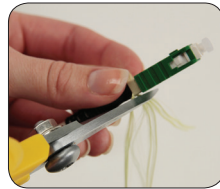
2: Insert the fiber into connector making sure the mark is facing up until a slight bend is made in the fiber.



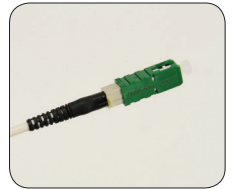
3: Disengage the wedge by squeezing both sides. Remove cable from assembly tool cable grip.



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

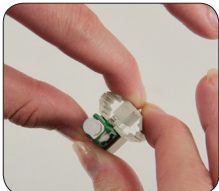


5: Remove from assembly tool. Remove wedge clip completely. Trim excess Kevlar® using the Kevlar® scissors.

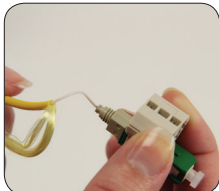


6: Screw the boot on completely. Termination is complete.

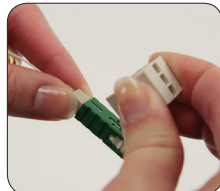
TERMINATION OPTION B: MANUAL



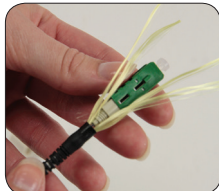
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



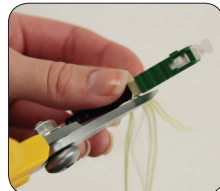
2: Insert fiber into connector making sure the mark is facing up. Create a slight bend to maintain connection.



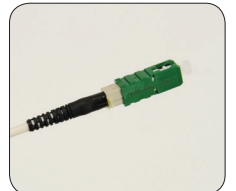
3: Release the wedge clip by squeezing both sides. Remove the wedge clip.



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

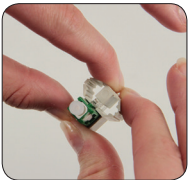


5: Trim excess Kevlar® using the Kevlar® scissors.

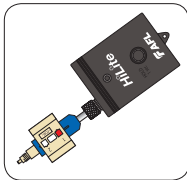


6: Screw the boot on completely. Termination is complete.

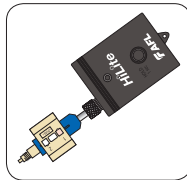
TERMINATION OPTION C: VISUAL FAULT IDENTIFIER (VFI)



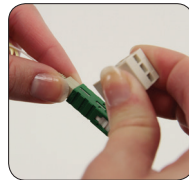
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



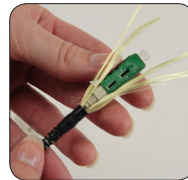
2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



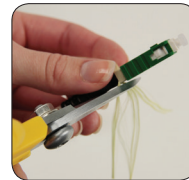
3: Insert the fiber into the connector with the mark facing up. The light will dim when a connection is made.



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.

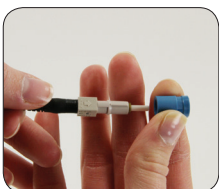


6: Trim excess Kevlar® using the Kevlar® scissors.



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.