



FAST CONNECTOR TERMINATION AND ASSEMBLY INSTRUCTIONS

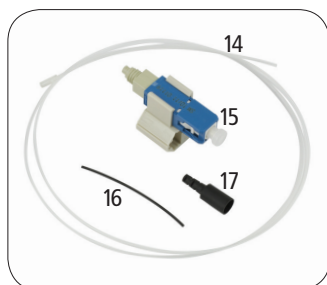
This document provides termination instructions for AFL's FAST SC, LC and ST connectors. Read these instructions carefully before proceeding. Termination instructions are provided for 250 μm , 900 μm , 2 mm and 3 mm fiber/cable. Different termination options after cleaving the fiber are provided for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

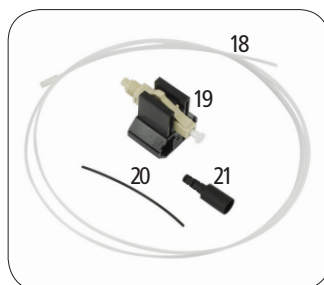
MATERIALS



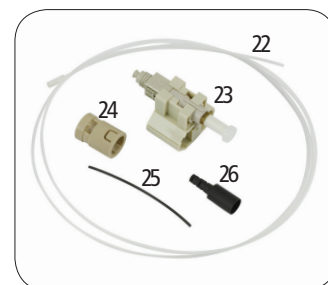
FAST Connector Universal Tool Kit



FAST SC Connector Kit



FAST LC Connector Kit



FAST ST Connector Kit

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|----------------------------|----------------------------|-----------------------------------|
| 1. Blue Tool Bag | 6. FAST Assembly Tool | 11. Kevlar® Scissors |
| 2. Fiber Preparation Fluid | 7. 0.25/0.9 mm Cable Clamp | 12. Fiber Stripper |
| 3. Lint-free Wipes | 8. 2 mm Cable Clamp | 13. FAST Termination Instructions |
| 4. CT-30A Cleaver | 9. 3 mm Cable Clamp | 14. Clear Protective Tubing |
| 5. Strip template | 10. Marker | 15. FAST SC Connector |

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|------------------------------|------------------------------|
| 16. 250 μm Tubing | 21. 900 μm Boot |
| 17. 900 μm Boot | 22. Clear Protective Tubing |
| 18. Clear Protective Tubing | 23. FAST ST Connector |
| 19. FAST LC Connector | 24. ST Connector Housing |
| 20. 250 μm Tubing | 25. 250 μm Tubing |
| | 26. 900 μm Boot |

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|------------------------------|
| 21. 900 μm Boot |
| 22. Clear Protective Tubing |
| 23. FAST ST Connector |
| 24. ST Connector Housing |
| 25. 250 μm Tubing |
| 26. 900 μm Boot |

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

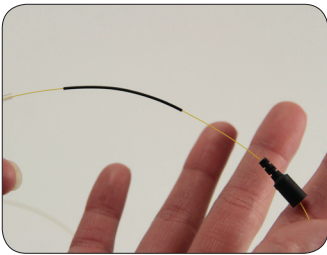
BOOT KITS

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

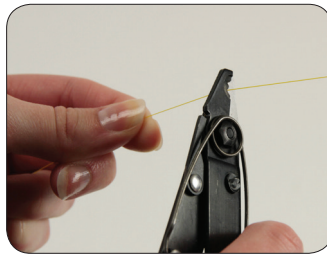
TOOL KITS

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

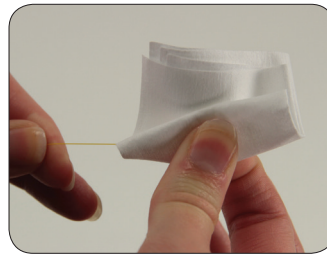
250 μ m FIBER TERMINATION



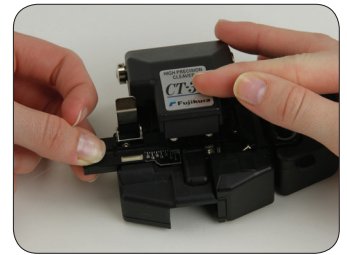
1: Insert the clear protective tubing, 250 μ m protective tubing and 900 μ m boot onto the fiber.



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

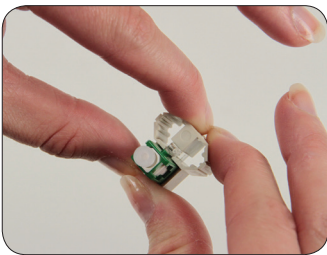


3: Clean the fiber with a lint-free wipe and fiber preparation fluid.

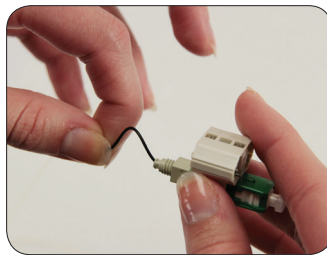


4: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

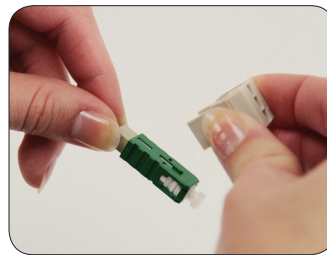
TERMINATION OPTION A: MANUAL



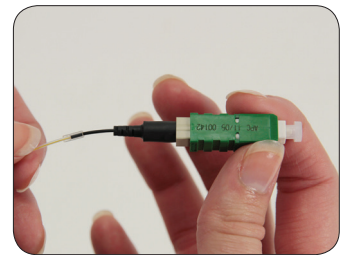
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



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

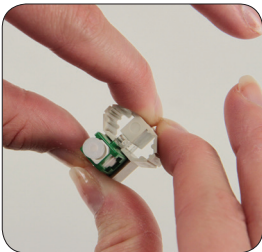


3: Release the wedge clip by squeezing both sides. Remove the wedge clip.

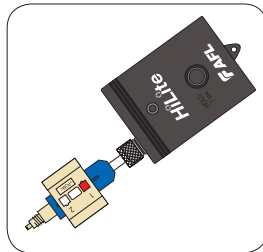


4: Slide the boot onto the connector body. Bring the clear protective tubing over the end of the 250 μ m protective tubing. Termination is complete.

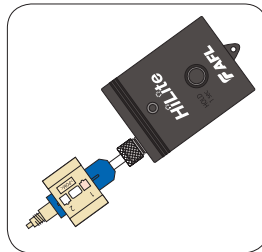
TERMINATION OPTION B: VISUAL FAULT IDENTIFIER (VFI)



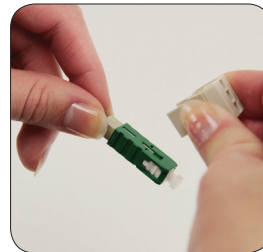
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



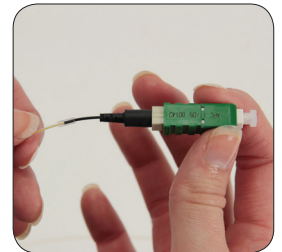
2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



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

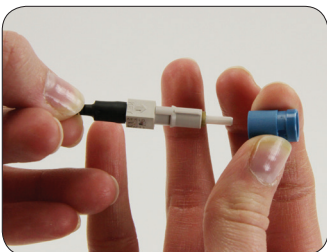


4: Release the wedge clip by squeezing both sides. Remove the wedge clip.



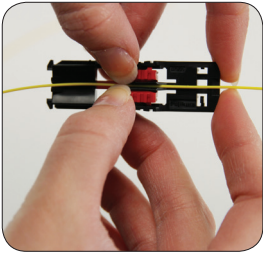
5: Slide the boot onto the connector body. Bring the clear protective tubing over the end of the 250 μ m protective tubing. Termination is complete.

FOR ST ONLY

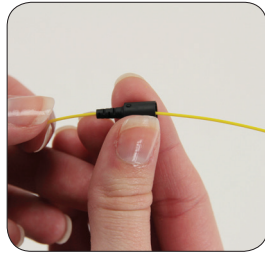


Apply the connector housing to the connector body. You will not be able to reengage the wedge clip after the housing is applied.

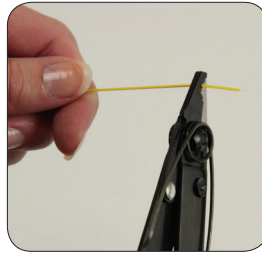
900 μ m FIBER TERMINATION



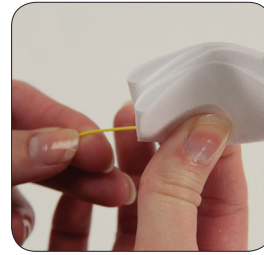
1: If you are using a 900 μ m fanout/breakout kit, place into 900 μ m cable clamp about 10" from the end of the cable.



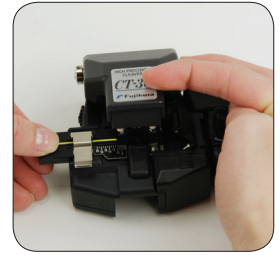
2: Place the 900 μ m boot on the cable.



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

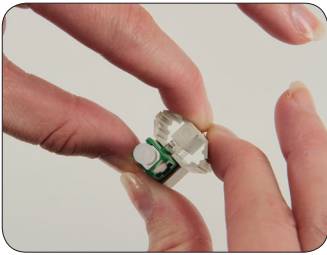


4: Clean the fiber with a lint-free wipe and fiber preparation fluid.

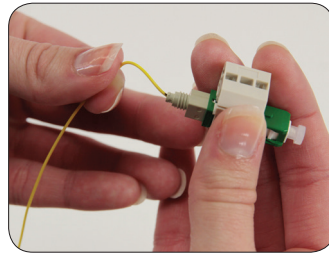


5: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

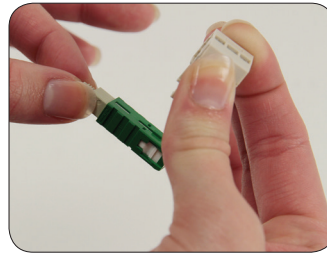
TERMINATION OPTION A: MANUAL



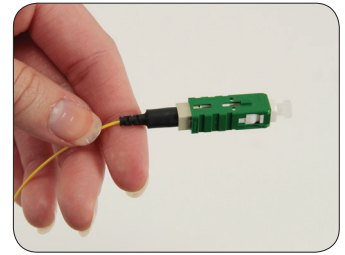
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



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

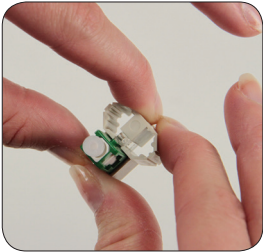


3: Release the wedge clip by squeezing both sides. Remove the wedge clip.

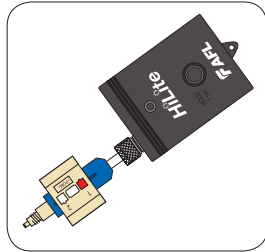


4: Slide the boot onto the connector body. Termination is complete.

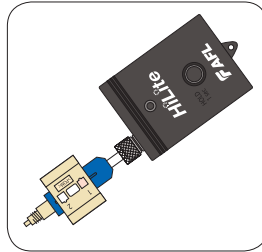
TERMINATION OPTION B: VISUAL FAULT IDENTIFIER (VFI)



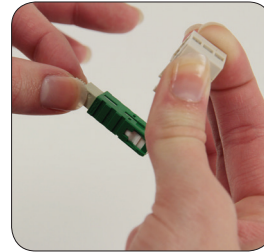
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



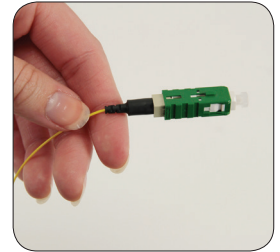
2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



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

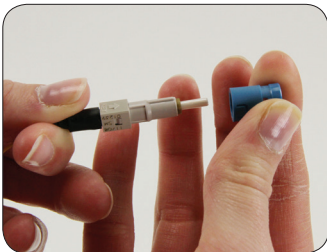


4: Release the wedge clip by squeezing both sides. Remove the wedge clip.



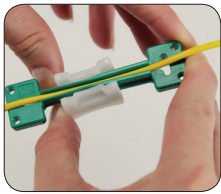
5: Slide the boot onto the connector body. Termination is complete.

FOR ST ONLY

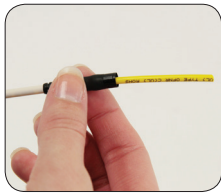


Apply the connector housing to the connector body. You will not be able to reengage the wedge clip after the housing is applied.

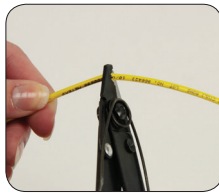
2 MM AND 3 MM FIBER TERMINATION



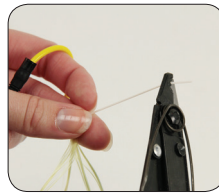
1: Place the cable into the appropriate cable clamp about 10" from the end of the cable.



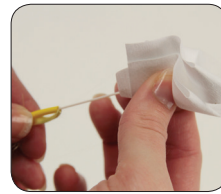
2: Insert the appropriate fiber boot onto the cable.



3: Remove 70 mm of cable jacket.



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

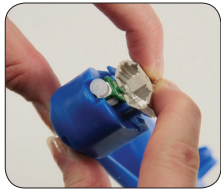


5: Clean the fiber with a lint-free wipe and fiber preparation fluid.

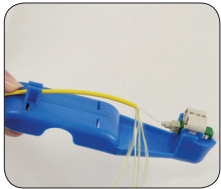


6: Set the fiber on the cleaver at the 10.5 mm cleave length. Cleave the fiber.

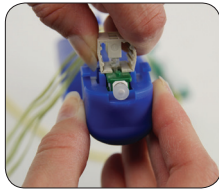
TERMINATION OPTION A: FAST ASSEMBLY TOOL



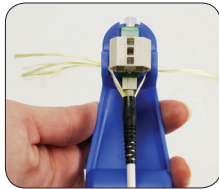
1: Place the connector into the assembly tool. Squeeze top and bottom of the wedge to ensure that it is engaged.



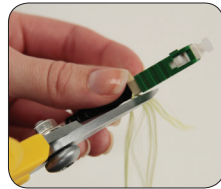
2: Insert the fiber into connector with mark upward until a slight bend is made in the fiber.



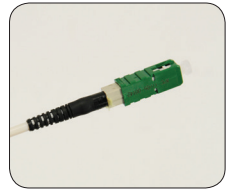
3: Disengage the wedge by squeezing both sides. Remove cable from assembly tool cable grip.



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

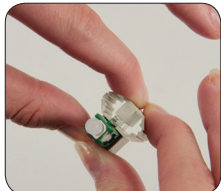


5: Remove from assembly tool. Remove wedge clip completely. Trim excess Kevlar® using the Kevlar® scissors.

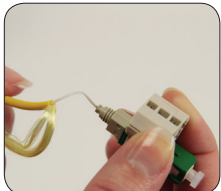


6: Screw the boot on completely. Termination is complete.

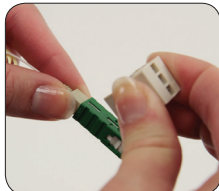
TERMINATION OPTION B: MANUAL



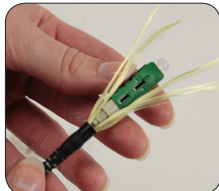
1: Squeeze top and bottom of the wedge to ensure that it is engaged.



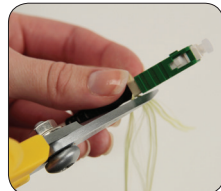
2: Insert fiber into connector making sure the mark is facing up. Create a slight bend to maintain connection.



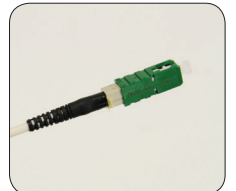
3: Release the wedge clip by squeezing both sides. Remove the wedge clip.



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

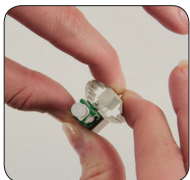


5: Trim excess Kevlar® using the Kevlar® scissors.

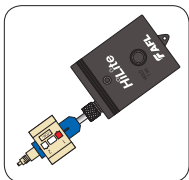


6: Screw the boot on completely. Termination is complete.

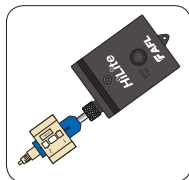
TERMINATION OPTION C: VISUAL FAULT IDENTIFIER (VFI)



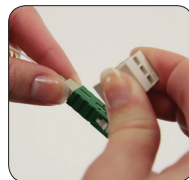
1: Squeeze top and bottom of the wedge to ensure that the wedge is engaged.



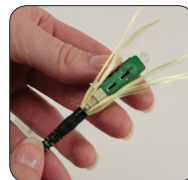
2: Remove the dust cap. Insert the connector into the VFI. Window 1 of the wedge clip will glow red.



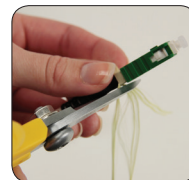
3: Insert the fiber into the connector with the mark facing up. The light will dim when a connection is made.



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.

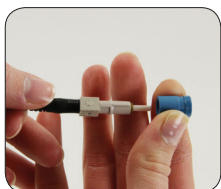


6: Trim excess Kevlar® using the Kevlar® scissors.



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.