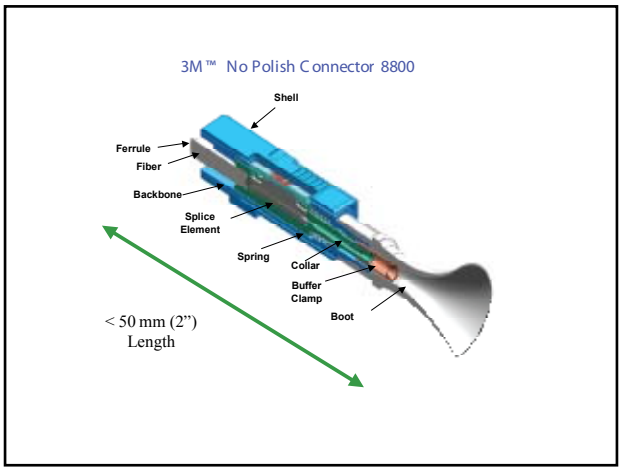
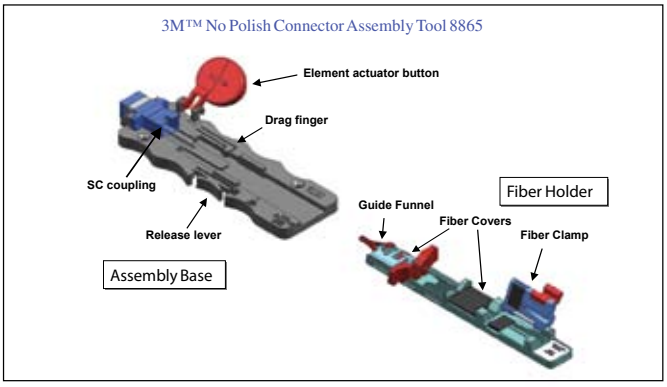
3M™ No Polish Connector SM and MM SC 8800 250/900 µm

Instructions

1.0 Kit Contents

1.1 The diagrams below show the parts of the 3M™ No Polish Connector (singlemode pictured) and the 3M™ No Polish Connector Assembly Tool 8865. Please review these drawings to understand the instructions in the following pages.





Note: Gel inside the connector may cause minimal eye irritation. Contains phenylmethyl silicone (63148-58-3), hydrophobic silica (68611-44-9). Avoid eye contact, wash hands before eating or smoking. Carefully follow safety, health and environmental information given on the product label or the MSDS sheet for the no polish connector. Emergency phone: 1-800-364-3577 or (651) 737-6501 (24 hours).

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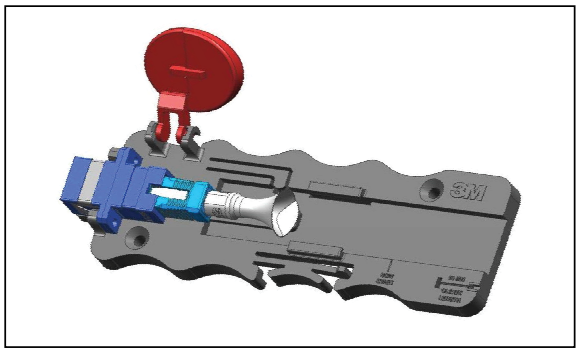
78-8140-0034-1-C

⚠ CAUTION

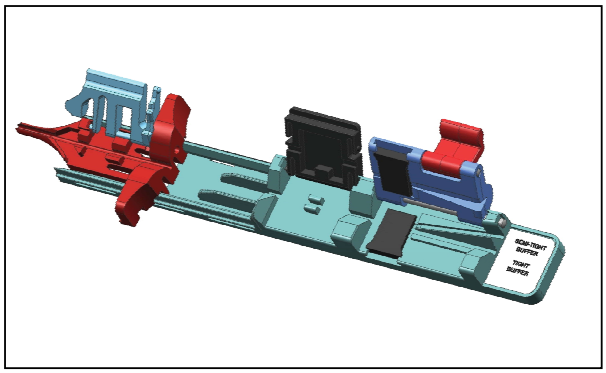
Safety glasses should be worn while working around optical fibers. Do not view fiber ends if they are illuminated with a laser. Carefully follow safety, health and environmental information on the label or MSDS for isopropyl alcohol. Store, use and dispose of isopropyl alcohol per your company policy.

2.0 3M™ No Polish Connector SM and MM 8800 SC 250/900 µm

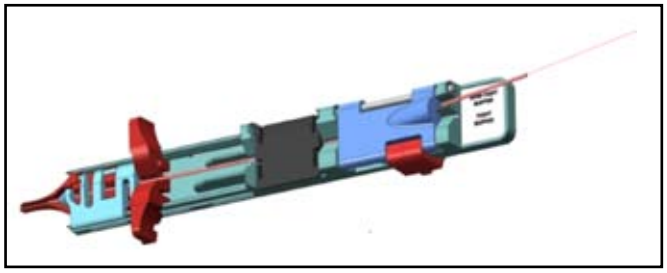
2.1 Remove the dust caps from the front and rear of the connector. Open the actuator button on the assembly tool. Insert the connector with the white actuation cap facing up into the coupling, pushing forward until it clicks.

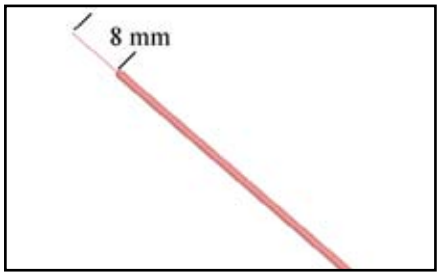


2.2 Clean the fiber holder with a lint-free cloth soaked with alcohol. Move guide funnel forward on fiber holder until it stops; open fiber covers and fiber clamp.



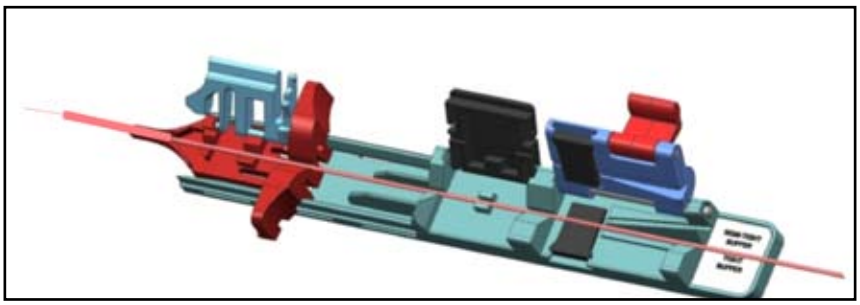
2.3 Strip, clean and cleave fiber to 8 mm +/- 0.5 mm (0.4 inches). Use the cleave length marker on the assembly base to verify the length. For semi-tight fiber, utilize the fiber holder in the stripping process by placing the fiber into the holder with the fiber to be stripped protruding from the rear of the holder, opposite the guide funnel. Close the rear clamp and proceed to strip the fiber. This will prohibit the buffer from moving or stretching during the stripping process. Once the fiber has been stripped remove the fiber from the holder.

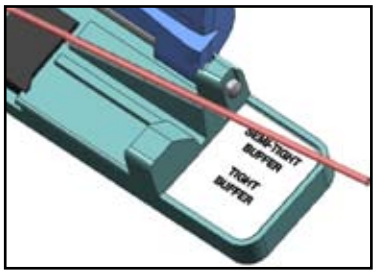




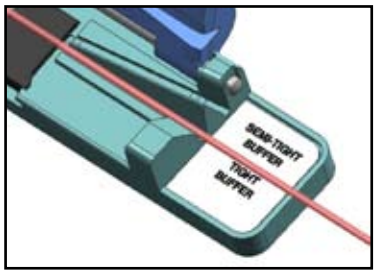
NOTE for SEMI-TIGHT FIBER: To determine if using semi-tight buffer fiber, grip the 900 micron buffer in one hand and crimp the 900 micron with fiber strippers. If the buffer tube is easily pulled off with fingers, it is semi-tight buffer fiber. When using semi-tight buffer fiber, verify that the 250 µm acrylate coating does not protrude beyond the end of the 900 µm buffer after stripping is completed and after cleaving is completed.

2.4 Lay the fiber in the proper groove of the fiber holder making sure that the natural bow in the fiber is facing down, extending beyond the guide funnel end.

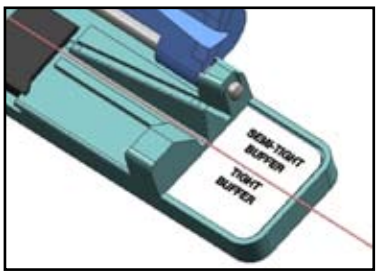




900µm semi-tight buffer fiber



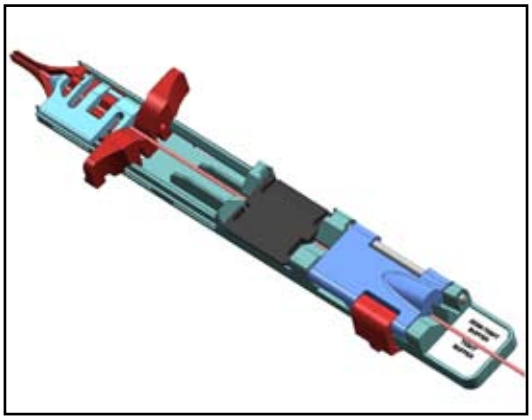
900µm tight buffer fiber



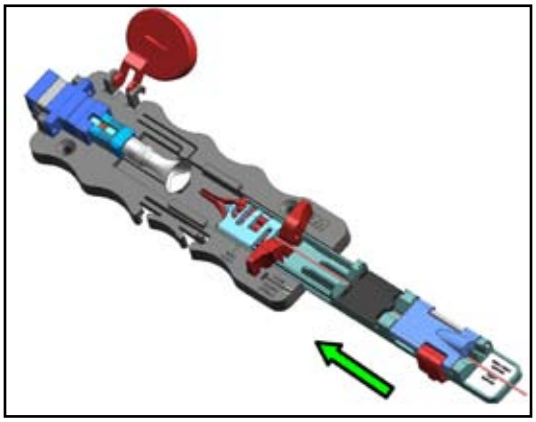
250 µm fiber

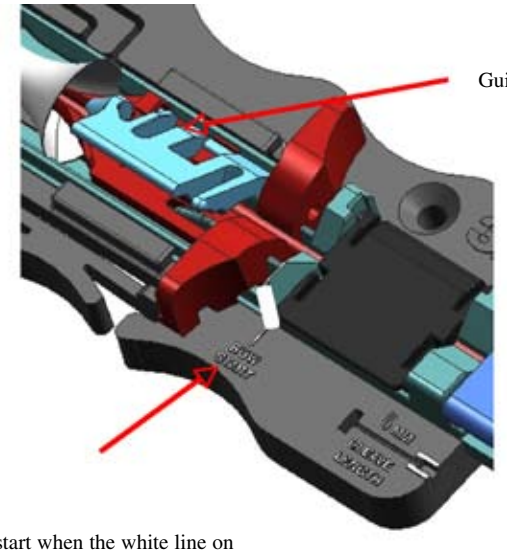
NOTE: For semi-tight buffer fiber, the fiber should be placed in the groove labeled "Semi-tight Buffer". For 250 micron fiber and 900 micron tight buffer fiber, place in the fiber holder groove which is labeled "Tight Buffer". This will provide the correct amount of clamping force for each type of fiber.

2.5 Close the guide funnel and middle covers on the fiber holder. Ensure that the funnel is pushed completely forward to the end of the fiber holder. Pull fiber back until fiber end is flush with funnel end. Close the back clamp.



2.6 Place fiber holder in assembly base and slowly slide fiber holder forward.

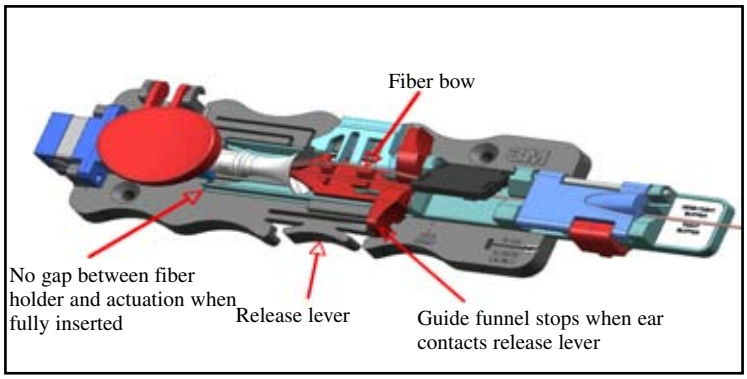




Guide funnel cover is opened by cam on the assembly base

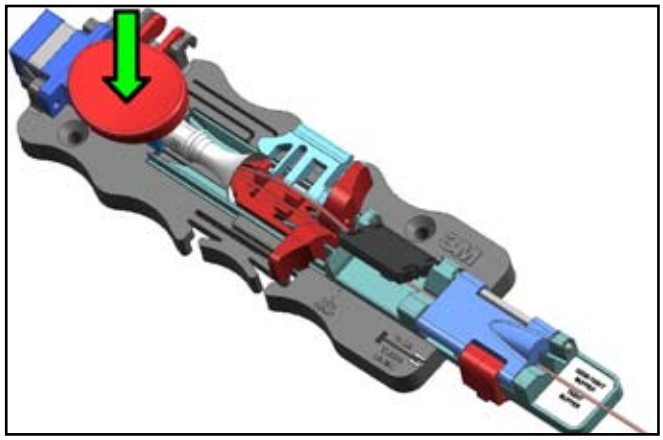
Fiber bow should start when the white line on fiber holder aligns with the “BOW START” mark on the assembly base

2.7 Continue to slowly slide fiber holder toward the connector. A bow in the fiber should start when the white line on the fiber holder aligns with the white line (BOW START) on the assembly base. If a bow is not seen, slide the fiber holder back and re-strip, clean and cleave the fiber and begin the termination process again. If a bow is seen before the two white lines meet, slowly move the fiber holder back without removing the fiber completely from the connector until there is no bow. To assist insertion, place finger on the middle cover to keep if from opening, then slowly re-insert the fiber into the connector. If a bow still starts before the white lines meet, re-strip, clean and cleave the fiber and start the termination process again.

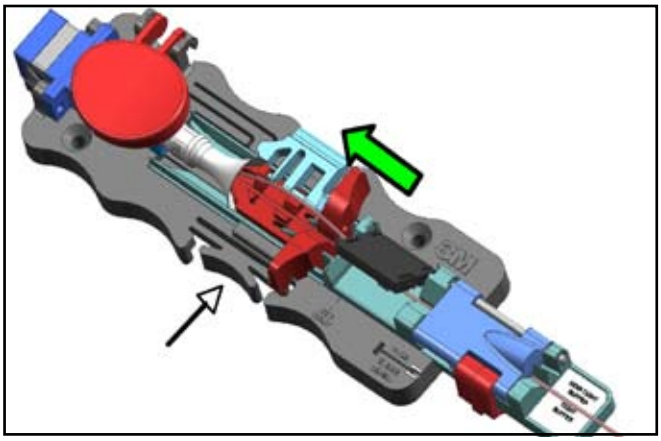


2.8 Continue to slowly slide fiber holder towards connector until it stops. Verify fiber bow again.

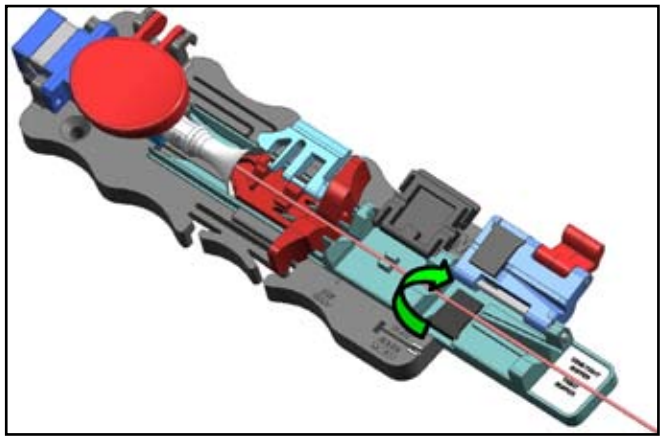
Note: ***The fiber will bow and lift the middle cover for rigid fibers and remain closed for flexible fibers. This ensures proper fiber insertion force.***



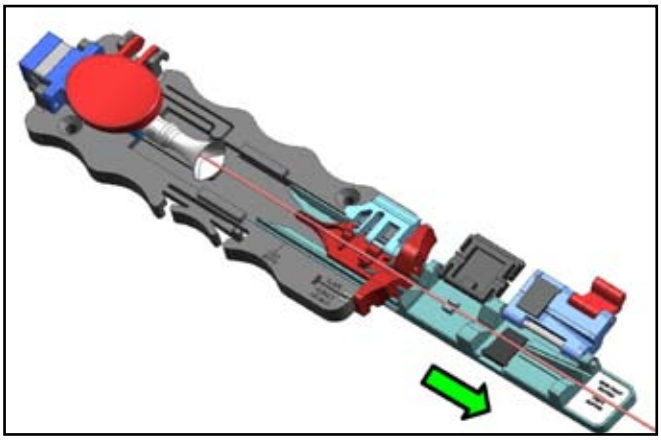
2.9 Firmly press button to actuate splice element while maintaining fiber bow.



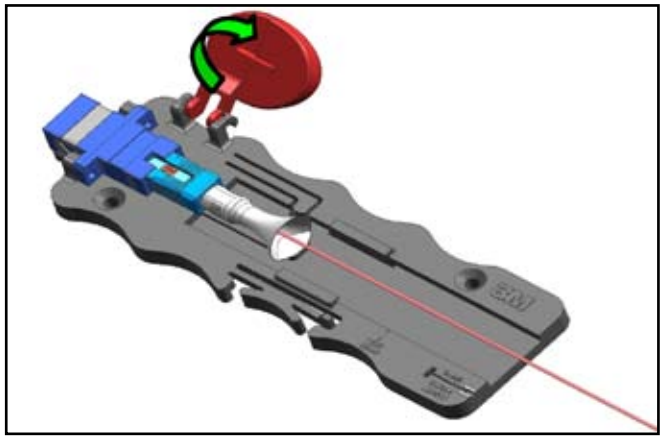
2.10 Press release lever to allow forward motion of funnel. Push on ears to move funnel forward and actuate buffer clamp.



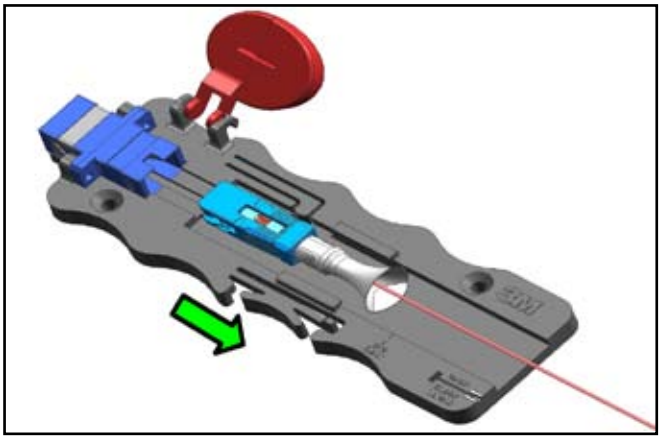
2.11 Lift fiber clamp and fiber covers to release fiber.



2.12 Slide fiber holder from actuation tool. Optional: 3M™ No Polish Connector can be tested in tool using SC coupling.



2.13 Lift element actuation button.



2.14 Pull connector from coupling.

3M™ No Polish Connector, Kit and Tool Descriptions	Packaging
8800 No Polish Connector SM SC Plug 250/900 µm with tool (blue housing)	60/package
6800-50 No Polish Connector SC MM 50 µm 250/900 µm with tool (black housing)	60/package
6800-50/LOMMF No Polish Connector SC MM 50 µm LOMMF with tool (aqua housing)	60/package
6800-62.5 No Polish Connector SC MM 62.5µm 250/900 µm with tool (beige housing)	60/package
8865 No Polish Connector Kit	1/package
8865-C No Polish Connector Kit with Cleaver	1/package
8865-AT No Polish Connector Assembly Tool	1/package

3M™ No Polish Connector Kit 8865-C with Cleaver
Kit Contents:
8865-AT NPC Assembly Tool 250/900 µm
2534 Fiber Cleaver (not included in 8865 kit)
6365-ST Stripping Tool
6365-KS Kevlar Snips
Lint-Free Cloths (100/pkg)
Cleaning Alcohol Bottle

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Communication Markets Division
3M Telecommunications
6801 River Place Blvd.
Austin, TX 78726-9000
1-800-426-8688
www.3MTelecommunications.com

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