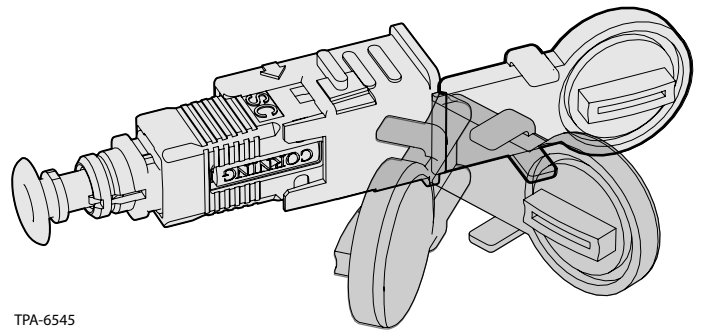


CORNING

SC No Polish Connector (NPC+) for 900 μm and 250 μm Fiber with Easy Cleaver

P/N 006-410-AEN
Issue 2



TPA-6545

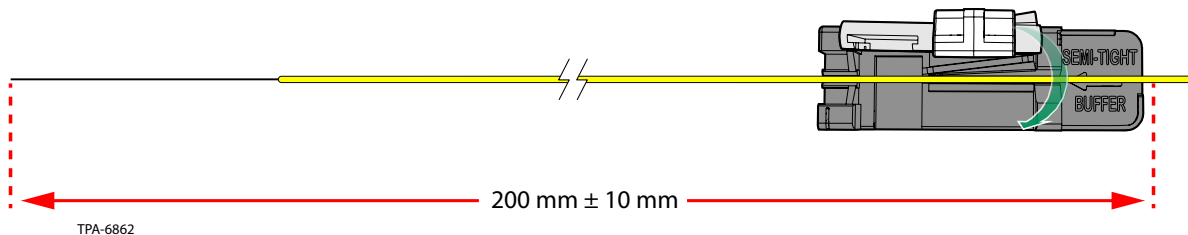
related literature | Search www.corning.com/opcomm. Click on "Resources/Standard Recommended Procedures."

Connector Assembly



WARNING: Isopropyl alcohol is flammable with a flashpoint at 54°F. It can cause irritation to eyes on contact. In case of contact, flush eyes with water for at least 15 minutes. Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness, and possibly death.

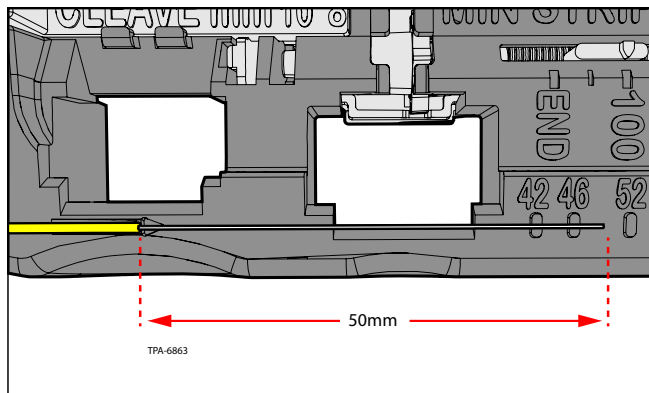
Step 1: Fiber preparation: For a 900 μm semi-tight buffer fiber, place the clamp at 200 mm from exit edge of semi-tight buffer clamp (prior to stripping and cleaving). Ensure the fiber is in the pathway of the tool when closing the clamp.



TPA-6862

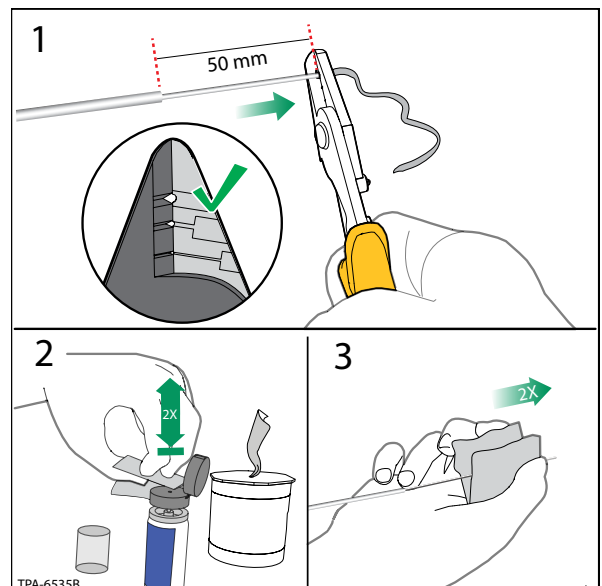
Step 2: Open buffer clamp #1 and hinged Lid #2 and ensure the cleaver is free of debris. Periodically clean rubber clamp surfaces with a lint-free wipe and alcohol.

Place the fiber on strip length guide with the fiber end at around 50 mm strip length. Mark buffer at arrow mark on cleaver, as indicated by arrow in photo.



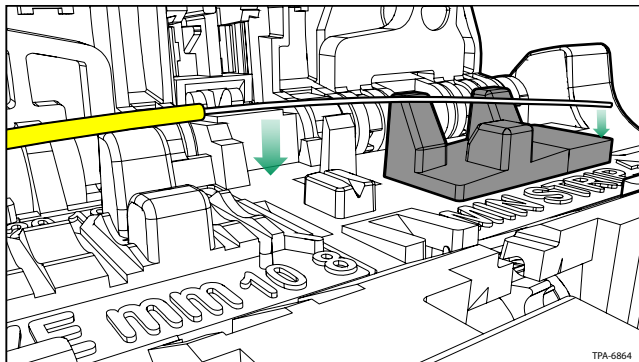
TPA-6863

Step 3: Strip 50 mm of fiber and clean residue with lint-free cloth and isopropyl alcohol.



TPA-6535B

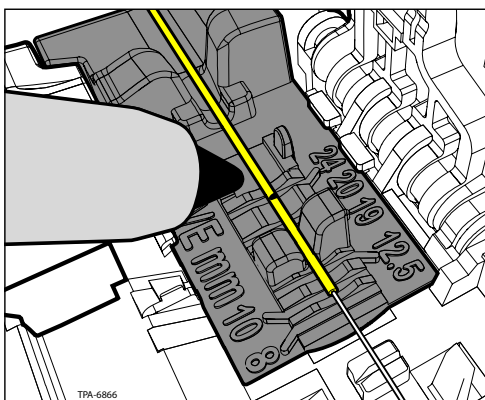
Step 4: Minimize the fiber bow and place fiber in cleaver with any remaining bow oriented downward as shown in photo. Place the stripped fiber between three posts on ramp section of the shard clamp. Ensure the fiber extends to or beyond the minimum strip mark at the right edge of the fiber shard clamp. If not, strip enough fiber to ensure it reaches the minimum strip mark.



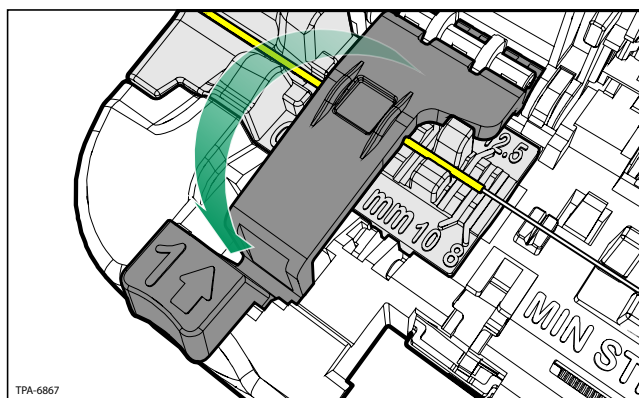
Step 5: Position the buffer end between 8 - 10 mm cleave length mark. Verify that the stripped fiber end extends to or beyond the minimum strip mark at the right edge of the fiber shard clamp. Ensure the fiber is touching or nearly touching the plastic surface of the shard clamp.



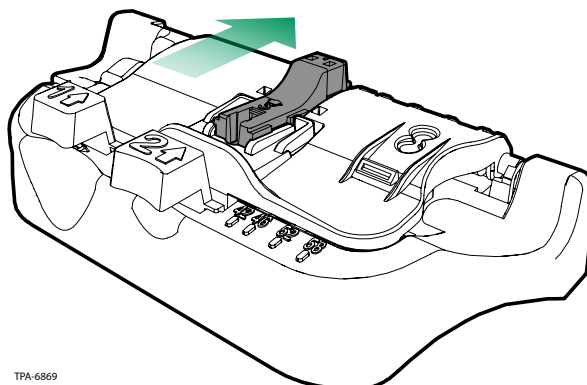
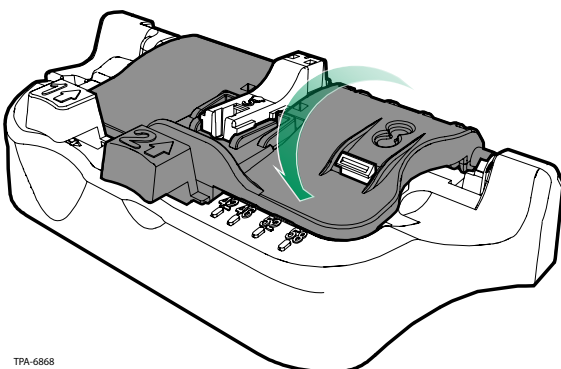
Step 6: Write a mark 24 mm from cleave length point.



Step 7: While holding fiber in place, close buffer clamp marked "1," keeping fiber centered in the groove as shown.

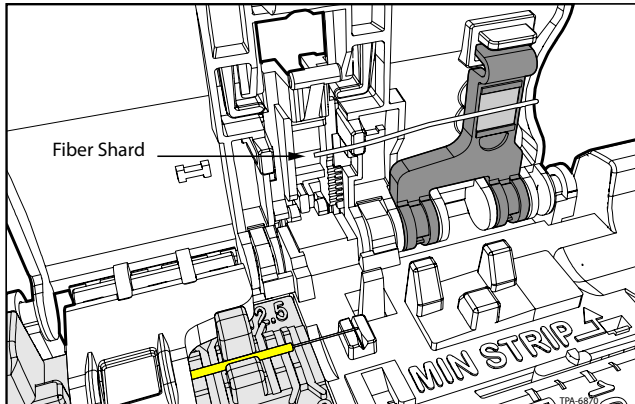


Step 8: Close cleaver lid marked "2" and push the shuttle marked "3" to the back of the cleaver.

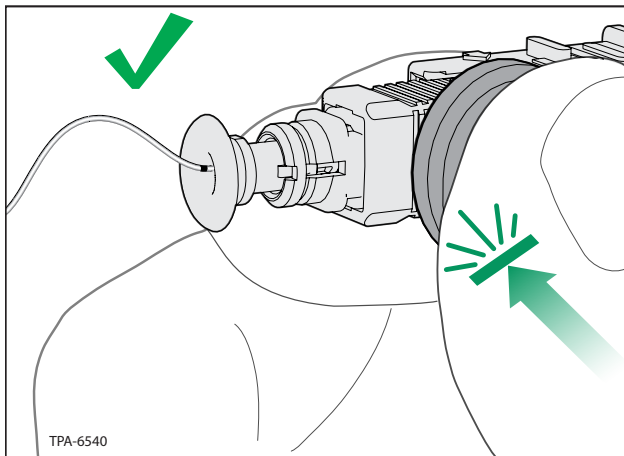


Note: Do not attempt to pull the shuttle forward.

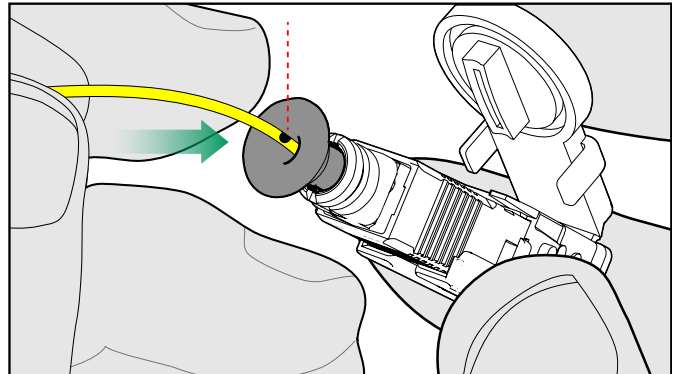
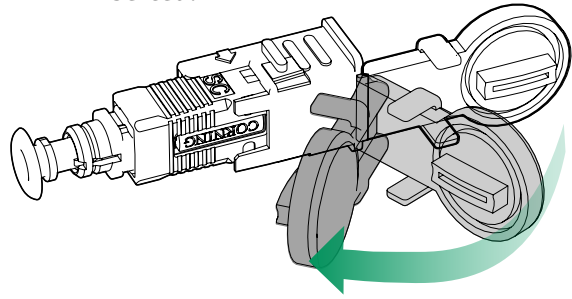
Step 9: Unclamp and raise cleaver lid “2” and remove the fiber shard from the pad as shown. Opening the lid resets the shuttle automatically.



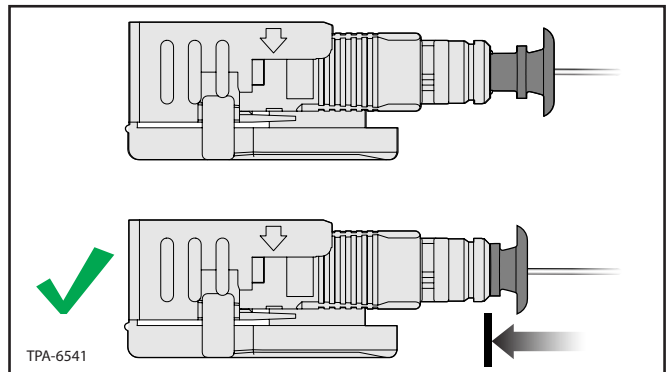
Step 11: Create approximately a 2.6 cm long fiber bow, while pushing fiber inward. Squeeze the actuation lever fully, until you feel and hear an audible “click.”
Actuation lever is shown fully compressed.



Step 10: Fold over the cap’s actuation lever by 90°, and insert fiber slowly until the buffer mark reaches the black strain-relief. **Do not fully activate the lever until the fiber is completely inserted.**

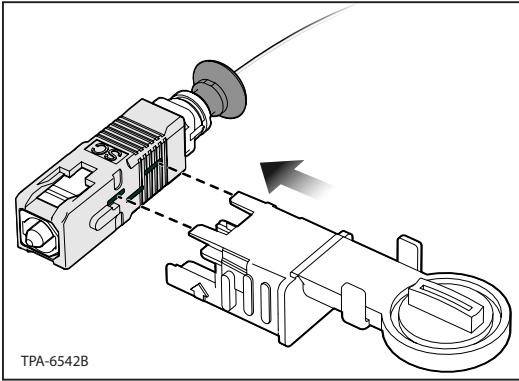


Step 12: Push the buffer clamp into the connector until the flange seats against the white housing as shown. Connector termination is complete.

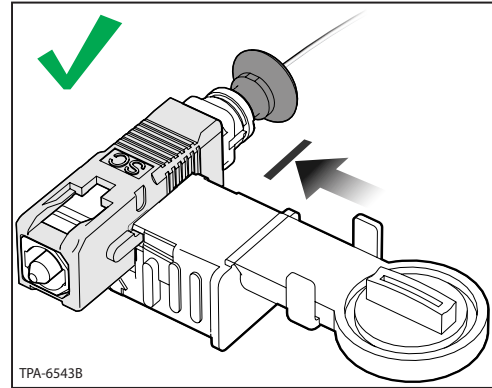


Rework Procedure for Single Reuse

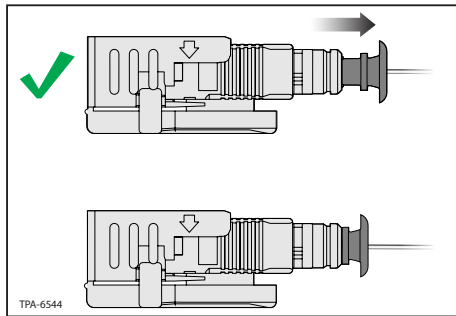
Step 1: Insert the two prongs as shown into the slots in the SC shell.



Step 2: Push the cap all the way against the SC shell until the prongs are fully inside.



Step 3: For 900µm buffer, deactuate the buffer clamp by pulling back to the position shown. Do NOT deactuate the buffer clamp for 250µm coated fiber.



Step 4: Repeat steps 10 - 12 of connector assembly section to reposition the cleaved fiber, or remove the fiber, re-cleave and repeat all steps. If a fiber is broken within the connector, discard the connector and do not reuse it.

Step 5: Clean the connector end-face with a lint-free cloth and isopropyl alcohol before optical use.