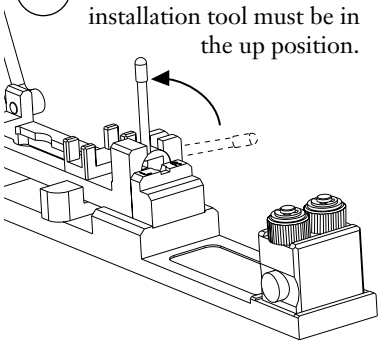
Critical Steps for 1 and 2-fiber UniCam® Connectors

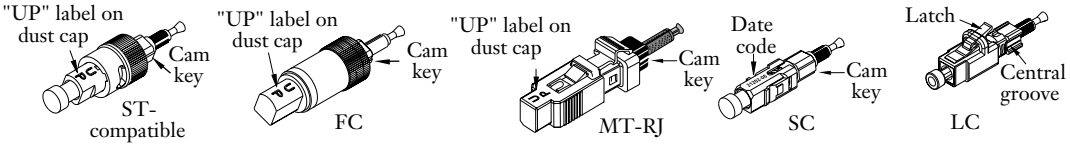
This procedure is intended to guide you through the critical steps to ensure successful installation of a Unicam connector. *Refer to SRP-006-150 for complete instructions and precautions and visit* www.corning.com/cablesystems/unicamvideo *for more information.*

1 The wrench handle on the installation tool must be in the up position.



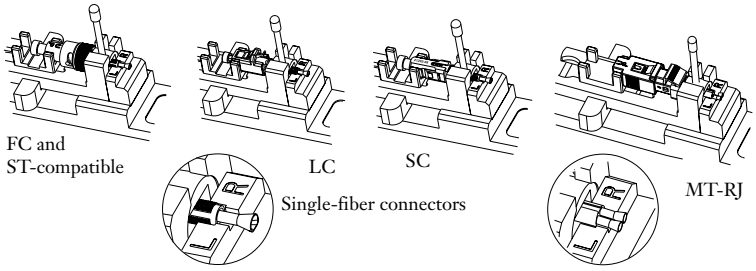
2 Connector cams may move slightly in shipment, so verify that the connector is in its open position:

- FC and ST connectors are in their open position when the key is 90° from the "up" on the dust cap.
- MT-RJ connectors are in their open position when the key is 90° from the "up" on the dust cap.
- SC connectors are in their open position when the key is 90° from the date code.
- LC connectors are in their open position when the key is 90° from the latch which secures the front dust cap.

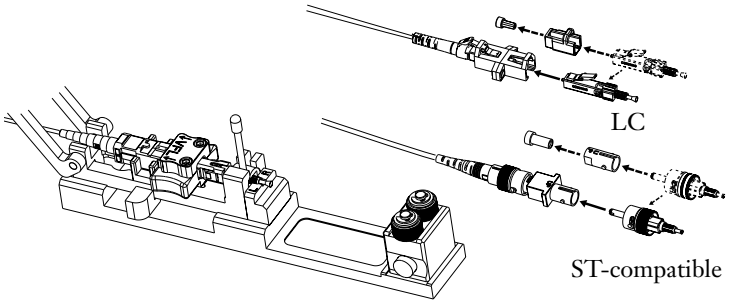


3 **Non-CTS installations:** Place the connector into the tool correctly:

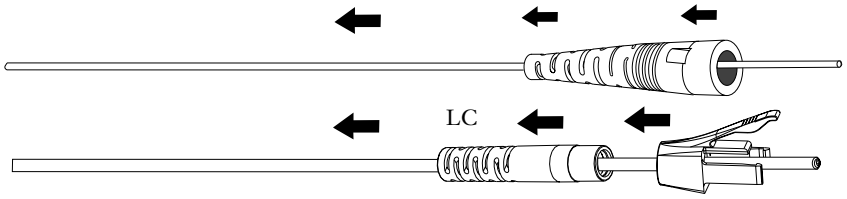
- FC and ST with the "up" on the dust cap must be up.
- LC connectors with the latch up.
- SC connectors with the "date code" up.
- MT-RJ with the "up" on the dust cap must be up.



CTS Installations: Remove the clear ferrule dust cap on all connectors. For LC and ST-compatible connectors, also remove the black load adapter.



4 Slide the strain relief boot onto the fiber/cable. For LC connectors slide the boot on, then slide the trigger on.

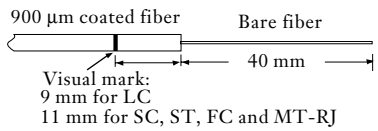


5 Mark, strip and clean the fiber. Some fibers have a clear coating over the glass that is difficult to see.

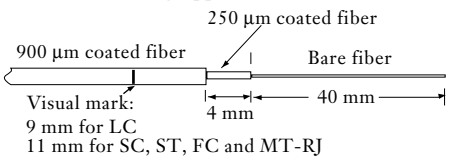
- For 900 µm Buffer Applications, strip and clean to the 40 mm mark.
- For 900 µm Fan Out Applications, strip and clean to the 40 mm mark and strip only the 900 µm tubing to the 44 mm mark.

Ensure all coatings are removed and that the fiber is clean. Wipe the fiber clean with 90%+ isopropyl alcohol. Any coating left on the bare fiber will not fit into the connector splice and will have adverse effects on performance. Do not remove the visual mark.

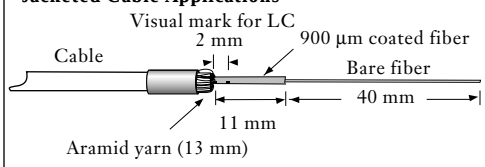
900 µm Buffer Applications



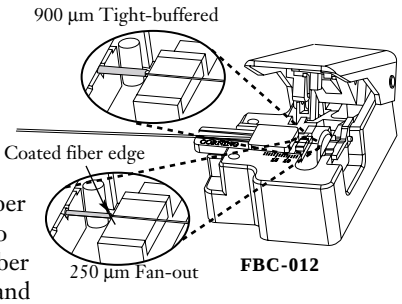
Fan-out Tubing Applications



Jacketed Cable Applications



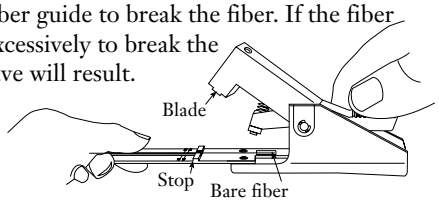
6 Cleave the fiber. The FBC-012 cleaver is recommended.However, any cleaver capable of producing quality cleaves between 8mm and 10mm of bare fiber can be used.



FBC-012

For the FBC-012 cleaver: load the fiber into the handler. Place the handler into the FBC-012 so that the edge of the fiber coating contacts the edge of the left-hand cleaver pad. Do this visually; do not slide the handler over against the stop. While holding the handler in this position slowly press the cleaver's handle as far as it will go. Gently release the handle and remove the fiber handler. Open the handler and remove the fiber.

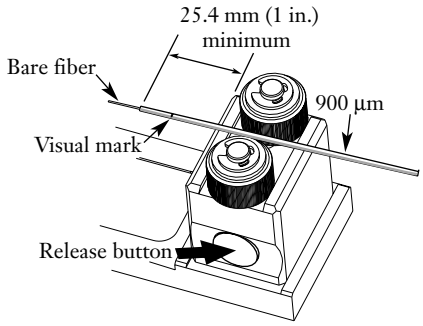
For the FBC-001 cleaver: position the marks so that the buffer coating lines up with the fiber guide's stop and the end of the fiber is secured under the spring-loaded fiber clamp. Press down the cleaver arm until it touches the fiber guide. This will "score" the fiber. Only light pressure is necessary. Release the cleaver arm, then gently flex the fiber guide to break the fiber. If the fiber guide is flexed excessively to break the fiber, a poor cleave will result.



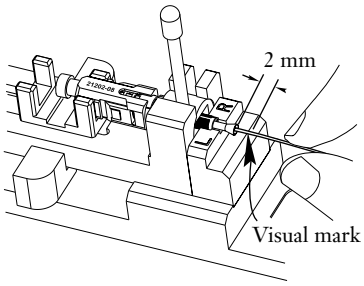
FBC-001

Once the fiber is cleaved, do not clean the fiber, or allow it to contact anything. If the cleave does contact something, start again.

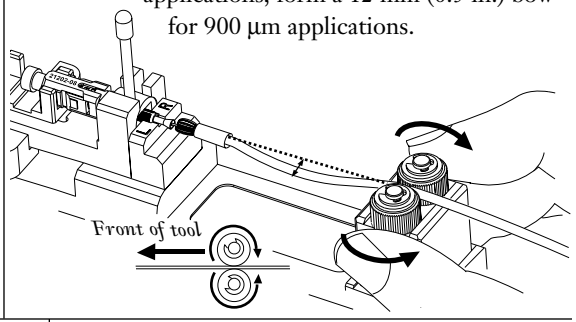
7 Press the roller release button and load the buffered fiber between the rollers.



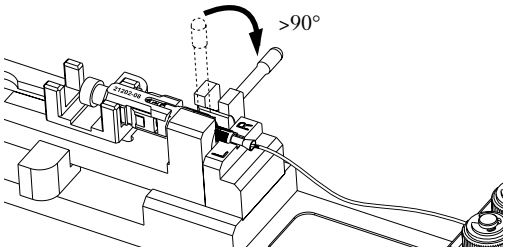
8 Insert the fiber into the lead in tube. The visual mark on the fiber must be within 2 mm of the lead in tube.



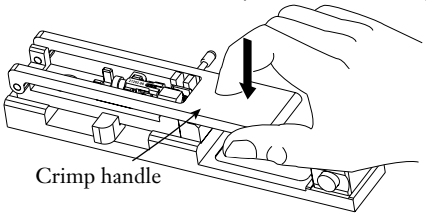
9 Use the rollers to apply inward pressure on the fiber so a *slight* bow forms for 1.6, 2.0, or 2.9 mm applications; form a 12 mm (0.5 in.) bow for 900 µm applications.



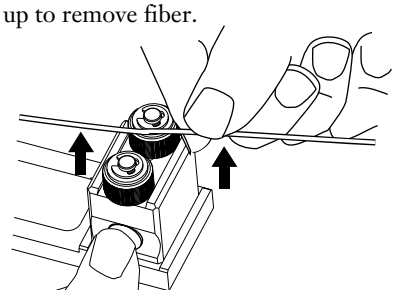
10 Rotate the wrench handle down 90° to cam the connector.



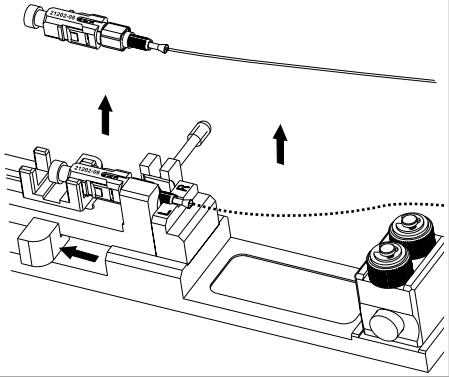
11 Rotate the crimp handle 180° until it contacts the lead in tube. Push the handle down firmly and lift it back up.



12 Press the release button and lift straight up to remove fiber.

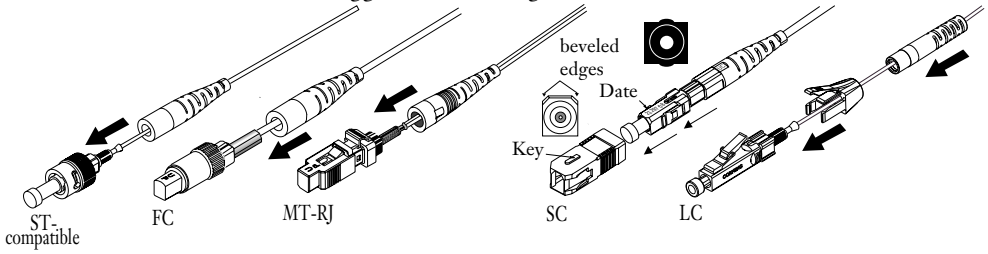


13 Move the slider handle back and lift out the connector.



14 Depending on the connector type, add the appropriate hardware, additional strain relief, and connector boots.

- FC, ST, and MT-RJ slide boot onto connector.
- SC connectors slide boot onto connector then insert connector into housing with the housing "key" and connector "date code" aligned.
- LC connectors install the trigger before sliding boot onto connector.



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