



9 Remove dust cap from the connector and insert the adhesive syringe tip into connector housing until it seats firmly inside. Inject the LightSpeed® adhesive until a small dot of the adhesive appears at the ferrule tip. Also inject a small amount of adhesive into the back end of the connector. This ensures bonding of the buffer to the connector, strengthening the termination. Be careful not to overfill to prevent a backflow of adhesive.



10 until the buffer bottoms out inside the housing. Allow at least 30 seconds cure time before proceeding. Tip: Rotate the connector during insertion to assist in guiding the fiber into the ferrule. For jacketed fiber, allow the kevlar to fan out around the connector barrel. Note: Once primer coated fiber touches the adhesive it will start curing instantly. Fiber insertion will become increasingly more difficult if not fully inserted within 10 to 15 seconds.



Hold the flat surface of the fiber scribe tool flat against the ferrule tip with the beveled edge facing up. Carefully score the fiber close to the intersection of the ferrule tip and fiber. Score on one side of fiber only.

Note: Do not use excessive pressure when scoring to prevent fiber breakage and uneven fractures. If breakage occurs, keep track of fiber piece (see note 2 in next step). Clean the adhesive off blade.



12 Remove the excess fiber with a straight, non-twisting pull and deposit in a safe place (i.e. onto a piece of tape or in the debris container). Note 1: If fiber does not readily pull off, repeat previous step – scoring on opposite side of fiber. Note 2: Fiber pieces are difficult to see. If not properly disposed, glass fibers may cause serious injury.

Note 3: Be careful not to bump or brush end-face before polishing.



SC Connector Slide the crimp sleeve up over the kevlar so that it is seated against the shoulder of the connector housing, being sure that it does not move prior to being crimped. Position the crimp tool at the end of the crimp sleeve (large end) using the larger or 0.19 inch opening in the crimp die. Crimp the sleeve by closing the crimp

tool completely and releasing





Film #2 (3 mic. Wet Pad-polish): Film Color = Pink Pressure = Medium Cycles = 25 to 30



Film #4 (Finish Film Wet Pad-polish): Film Color = White Pressure = Light Cycles = 20 to 30



15 Jacketed Fiber Only, ST Connector

#1 Film (Gray):

"Air polish" by holding the connector

in one hand and the film in the other.

Gently brush the dull side of the polishing film

wear the small fiber protrusion into a smoother,

in a "figure 8" fashion with the ferrule tip to

more polishable tip. Continue until the tip is

Note: If using Siemon's Automated Fiber Polisher

(p/n: FPOL), refer to polishing instructions included

with that unit. The FPOL is for use in multimode

almost flush with the ferrule.

applications only.

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Slide the crimp sleeve up over the kevlar so that it is seated against the shoulder of the connector housing, being sure that it does not move prior to being crimped. Position the crimp tool at the end of the crimp sleeve (flared end). Crimp the sleeve using the 0.137 in. opening by closing the crimp tool completely and releasing.



16 Jacketed Fiber Only, ST Connector

A second crimp is required to secure the jacket. Crimp onto the rear portion of the crimp sleeve (approximately 4mm [0.16 in.]) using the same (0.137 in.) opening in the crimp die.





19 #2 Film (Pink):

Place the polishing pad onto a flat surface with the rubber side facing up. Place the #2 film onto the polishing pad with the glossy side of film down.

Note: Prior to polishing, clean pad surface with alcohol soaked wipe to provide for a smooth polishing surface. This will also allow the polishing paper to stick in place. (Ensure no air is trapped between pad and film). Also clean surface of polishing puck.





- 7. Elect a safety officer to:

 - a. Train staff
- b. Maintain records of equipment classification, calibrations and safety checks.
- Be careful of cut fibers. Remember they are sharp and difficult to see!

POSSIBLE VARIABLES FOR POOR ATTENUATION OR RETURN LOSS READINGS

- 1. Fractured/broken fibers:
- Dull cleaver
- Dried adhesive on cleaver blade
- Twisted or uneven pulling when removing stub Bumped or brushed end-face of fiber before polishing
- Too much pressure during initial pad polish or air polish
- Adhesive/primer not curing:
- Date code expired or exposed to extreme temperatures
- Contaminated primer/adhesive
- Not enough primer or adhesive
- Did not allow enough cure time - Movement during cure time
- Excessive buffer length pushing out adhesive during insertion
- 3. Excessive or insufficient polishing
- Dirty pad, puck, paper, or end-face of connector

Note: Instructional video for this product is also available at www.siemon.com

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