CORNING

Anaerobic Quick Start Guide for 900 Micron Fiber Only

006-160-QSG, Issue 3

- Refer to Installation Guide 006-160 for complete instructions including jacketed cable applications.
- Visit www.corning.com/opcomm/safety for full safety precautions
- Visit www.corning.com/opcomm/videos for a video showing this procedure

Tool Kit Contents

- Scissors
- Tweezers
- Dual-Hole Miller Tool
- Jacket Stripper
- Ruby Fiber Scribe
- Syringe, 3 cc
- Syringe Tip
- Anaerobic Adhesive
- Anaerobic Primer
- Fiber Optic Cleaning Wipes
- Fiber Optic Cleaning Fluid
- Permanent Marker

- Strip Length Card, LC
- Strip Length Card, SC/FC/ST® Compatible
- 1.25 mm Universal Polishing Puck
- 2.5 mm Universal Polishing Puck
- Yellow Polishing Film
- Gray Polishing Film
- White Polishing Film
- Clear Polishing Film
- 200x Microscope
- Crimp Tool, LC (orange)
- Crimp Tool, SC/FC/ST® Compatible (blue)

Tool Kit Setup

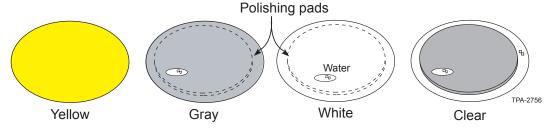
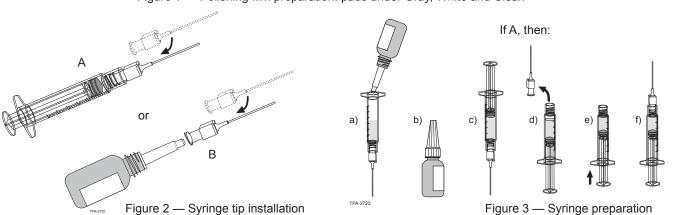
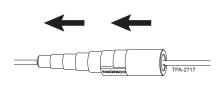
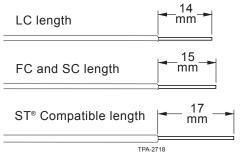


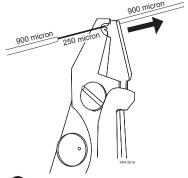
Figure 1 — Polishing film preparation: pads under Gray, White and Clear.



Fiber Preparation







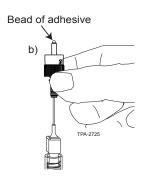
1 Slide boot onto fiber first.

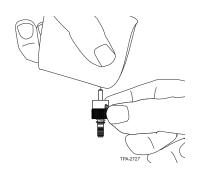
Measure to lengths shown and then strip with Dual-Hole Miller Tool.

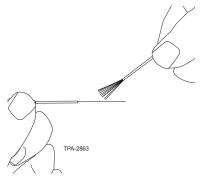
3 Strip fiber and then clean.

Connector Preparation and Termination







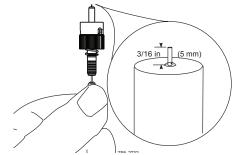


Inject adhesive until adhesive is barely visible; remove syringe tip.

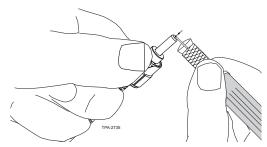
Remove excess adhesive with lint-free wipe.

6 Apply primer to bare fiber.

Try to avoid getting primer on any of the fiber/cable other than the bare fiber.

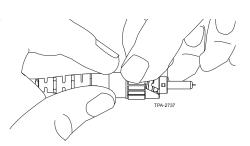


Insert fiber into connector until it bottoms out. 3/16 inch should be visible above the end face.



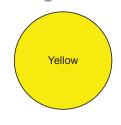
8 Gently slide the ruby scribe across edge of fiber and remove fiber fragment with tweezers.

Connector Assembly

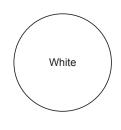


9 Slide boot up onto back of connector.

Polishing







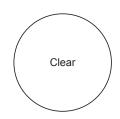
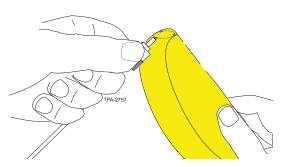
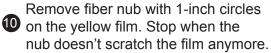
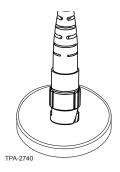


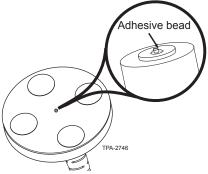
Figure 4 — Polishing film order







Insert connector in polishing puck.



Check for a small amount of adhesive.

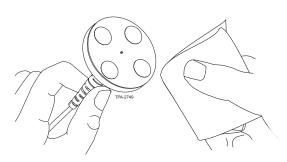
Skip Gray polishing if no adhesive is present after Step 12.



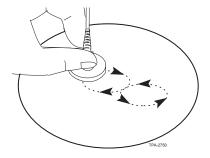
Complete one or two initial passes with very light pressure to ensure fiber nub is flush with adhesive bead.



Make one figure-8 pattern at a time; check size of adhesive bead every time. Stop when bead is NEARLY gone.

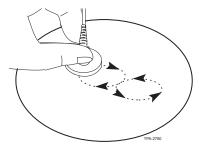


Clean bottom of puck with alcohol and wipes and the connector with a dry wipe.

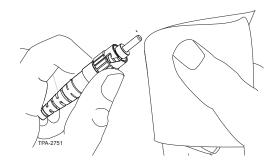


Make about 10 figure-8 patterns on WHITE polishing film with very light pressure then check end face for adhesive.

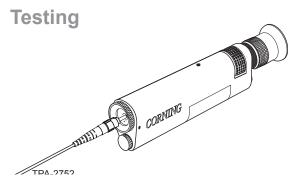
17 Repeat step 15 here.



Make between 10 and 15 figure-8 patterns on CLEAR polishing film. Try to use NO pressure here.



Clean connector with alcohol and wipes. Finish cleaning with a dry wipe.



- 20 Insert connector into 200x microscope or probe. (See Figure 5 for acceptable results.)
- Test with OTDR for Connector loss and reflectance.

Test with power source and meter for end-to-end attenuation.

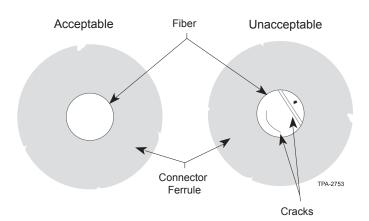


Figure 5 — Acceptable End Face. End face should look like left image. If you see right image, consult Troubleshooting section.

Troubleshooting

Fiber insertion issues can be caused by:

- Fiber stripped too long; use lengths in step 2.
- Too much adhesive used; stop when adhesive is barely visible on end face.
- Adhesive curing too quickly could be caused by several possibilities:
 - Check expiration dates on both adhesive and primer.
 - If working in extreme high-heat / high-humidity conditions consider not applying the primer.

Pits may occur from:

Excessive polishing on gray polishing film.

Shattered fibers can occur from:

- Improper excess fiber removal techniques.
- Inadvertent fiber breakage before or after scribing. Take care to protect the fiber.
- Excessive pressure on yellow polishing film.
- · Excessive pressure on gray polishing film.

Cracks are caused by the same forces described above as well as:

 Small crescent-shaped cracks will occur when the gray polishing film is worn. Replace film and start over.

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