

3. TOOLS AND MATERIALS

3.1 The following tools and materials are required to complete this procedure:

- Tape measure (Corning p/n 100305-01)
- Permanent marker
- Vinyl tape (100278-01)
- Utility knife with hook blade (100299-01)
- Diagonal cutting pliers (side cutters) (100300-01) *or* Scissors (100294-01)
- Seam ripper (100304-01)
- Coaxial Cable stripper (100107-01) and its instructions, SRP-005-007, *Scoring Fiber Optic Tubes with a Coaxial Cable Stripper (100107-01, 3204002-01)*
- Small slotted screwdriver (100332-01)
- Needle nose pliers

and for Mid-span applications:

- Optical Fiber Access Tool (OFAT) (OFT-000) and its instructions, SRP-004-014, Corning Cable Systems Optical Fiber Access Tool (OFT-000).
- Splice closure and any tools / materials necessary for its installation.
- Splice tray(s) and any tools / materials necessary for its installation.

4. CABLE-END SHEATH REMOVAL AND FIBER ACCESS

4.1 Refer to the documentation for the hardware in which you are installing the cable for the required sheath removal strip length.

4.2 Mark the cable at the appropriate distance, plus 1 inch (2.5 cm), from the cable end with at least three wraps of tape (Figure 2). *These wraps will permanently remain on the cable.*

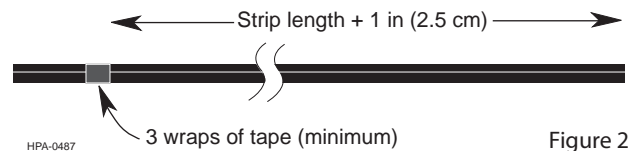


Figure 2

4.3 At the end of the cable, locate the locator ridges which indicate the cable sheath's FastAccess™ Technology features. These features appear as small longitudinal ridges on the cable sheath and are located 180° from each other (Figure 3).

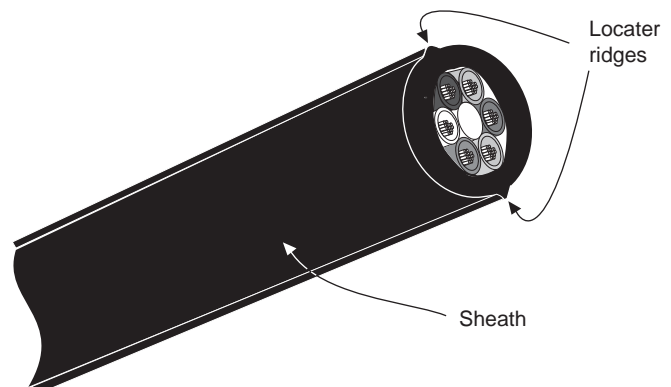


Figure 3

5. MID-SPAN SHEATH REMOVAL AND FIBER ACCESS

5.1 This procedure is dependent upon sufficient slack cable for access and uses the OFT-000 Optical Fiber Access Tool. The minimum amount of cable slack is determined as follows:

Slack needed= $60 \times \text{cable diameter} + 42 \text{ in (105 cm)}$:

for example, for a 0.5 in (1.25 cm) OD cable,

$60 \times 1.25 = 75\text{cm}$ plus $105 \text{ cm} = 72 \text{ in (180 cm)}$ of slack

Add any necessary additional slack needed to reach the splicing workstation from a pole or manhole.

5.2 Prepare the tie-in (drop) cable according to the appropriate cable stripping procedure. If the tie-in cable is armored and grounding is required, install a grounding clip or connector at this time. Set the tie-in cable aside in a secure place.

5.3 Determine the center of the slack loop of the cable being accessed and mark it with a permanent marker.

5.4 Measure half of the total length to be accessed in each cable direction from the loop mid-point.

Wrap each of these points with at least 3 wraps of vinyl tape. The total length from tape wrap to tape wrap should equal the full desired strip length (Figure 22). *These wraps will permanently remain on the cable.*

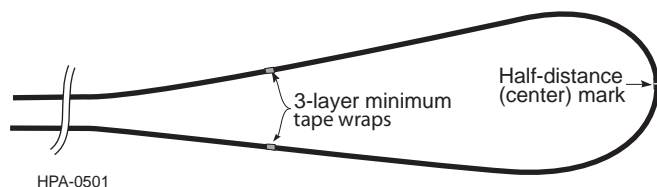


Figure 22



WARNING: Care must be taken while handling fibers during mid-span access procedures to avoid causing large deviations in optical power throughput on fibers carrying communications traffic.

INTERRUPTION OF SYSTEM TRAFFIC MAY RESULT FROM NEGLIGENT HANDLING OF FIBERS.

Mid-span Sheath Removal

5.5 At one tape wrap, on the inside of the slack loop, use a hook-blade knife to make a ring cut through the outer sheath (Figure 23). **USE CARE TO AVOID CUTTING THE CABLE CORE AND BUFFER TUBES BENEATH THE SHEATH.**

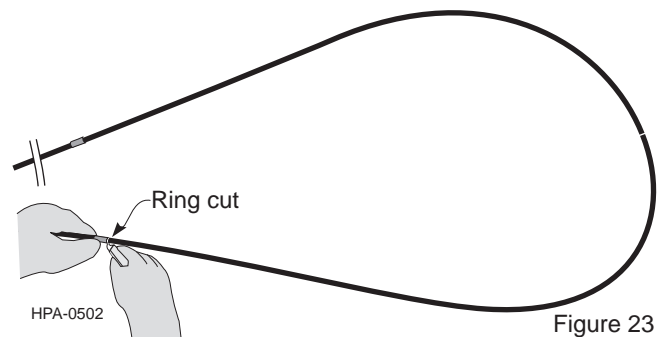


Figure 23

5.5 At the ring cut, find the locator ridges which indicate the cable sheath's FastAccess™ Technology features. These features appear as small longitudinal ridges on the cable sheath and are located 180° from each other. See Figure 1 for a cross-section view of the cable.

Mid-span Fiber Access

5.18 Read and completely understand SRP-004-014, Corning Cable Systems OFT-000 Optical Fiber Access Tool (OFAT) (Figure 36). This procedure describes how to access fibers in a buffer tube with the OFAT.

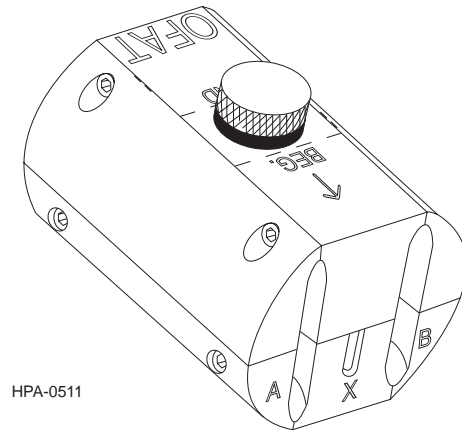
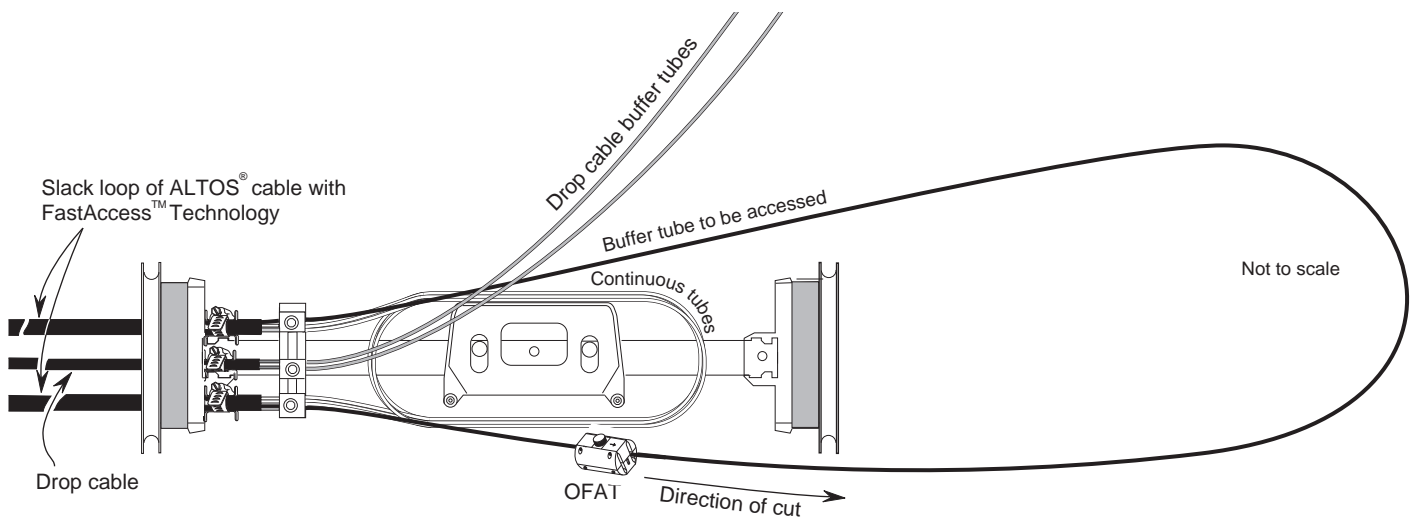


Figure 36



HPA-0512

Figure 37

5.19 Access the appropriate buffer tube(s) as described in the OFAT tool's instructions (Figure 37).

5.20 Determine which end of the fiber should be cut and do so with a pair of scissors. The fibers are now ready to be cleaned and terminated.

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