

## NID/ONT Pigtail Splice Kits

### 1. General

**1.1** This procedure describes how to use the NID/ONT Pigtail Splice Kits (p/n's TKT-FDFN-001 and TKT-FDFN-002) for the furcation of a flat drop cable in an NID or ONT.

**1.2** If this document is reissued, a summary of changes will appear in this paragraph.

### 2. Precautions

**⚠ CAUTION:** Follow your company's precautions for cable preparation and the use of the fusion splicer and heat shrink oven. Failure to do so may result in personal injury and/or equipment damage.

### 3. Tools and Materials

**3.1** In addition to the kit, the following tools and materials are required to complete this procedure:

- Your company's standard tools and procedure for:
  - accessing drop cable
  - cutting buffer tubes
- Your company's standard or compact heat shrink oven and power supply
- Lint-free tissue or clean rags
- Scissors
- Fusion splicer

### 4. Kit Contents

**4.1** The Indoor NID/ONT Pigtail Splice Kit contains the following items (Figure 1):

- 1) 7-in. cable ties (2)
- 2) Fusion splice holder with double back tape
- 3) Furcation heat shrink
- 4) Fusion splice protector
- 5) Coil of 900  $\mu$ m furcation tubing
- 6) 900  $\mu$ m SC pigtail

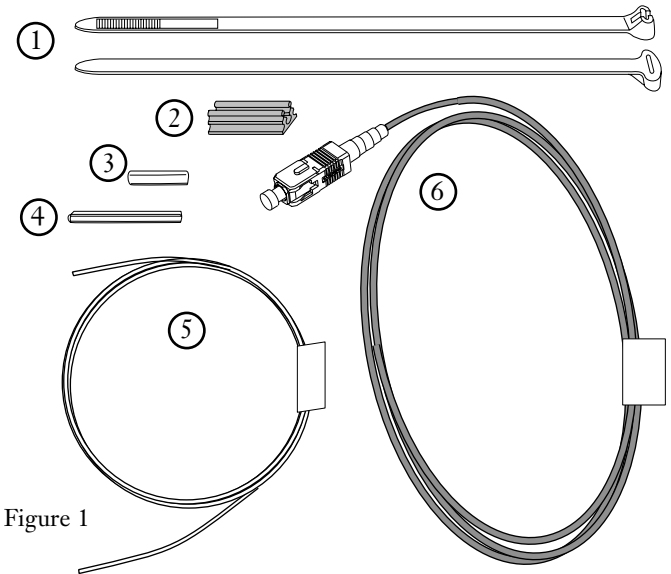


Figure 1

### 5. Material Preparation and Furcation for Standard Heat Shrink Ovens

**5.1** To prepare the drop cable, remove 36 inches of cable sheath and cut the strength elements flush with the end of the sheath (Figure 2).

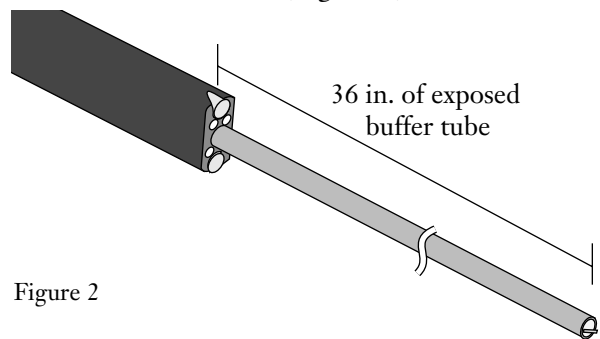


Figure 2

**5.2** Remove 35 inches of buffer tube and clean the fiber per your company's standard practice (Figure 3).

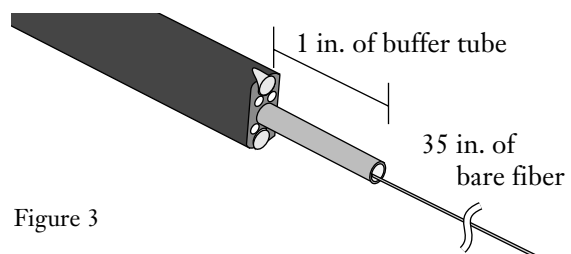


Figure 3

**5.3** Slide the furcation heat shrink down the fiber and over the 1-inch length of buffer tube.

**5.4** Feed the 250  $\mu\text{m}$  fiber into the the 900  $\mu\text{m}$  tubing (Figure 4).

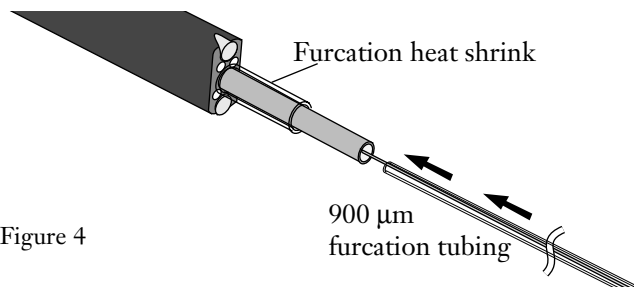


Figure 4

**5.5** Push the 900  $\mu\text{m}$  tubing approximately 0.25 inch into the buffer tube. Wipe off any gel forced from the buffer tube (see Figure 5).

**5.6** Center the furcation heat shrink and shrink it in the heat shrink oven (Figure 5).

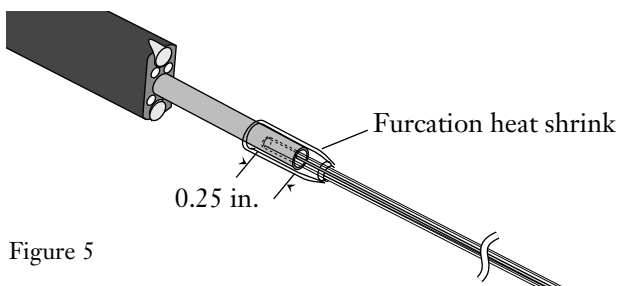


Figure 5

**5.7** With the furcation tubing/fiber on the left side of the side of the compact hat shrink oven, center the furcation heat shrink in the oven.

**5.8** Close the left fiber clamp over the furcation tubing. Note that the right fiber clamp and the clear oven flap will not fully close due to the diameter of the buffer tube: close the right fiber clamp and the clear flap of the oven as far as possible.

Turn on the oven to secure the heat shrink in place over the buffer tube and furcation tubing (Figure 6).

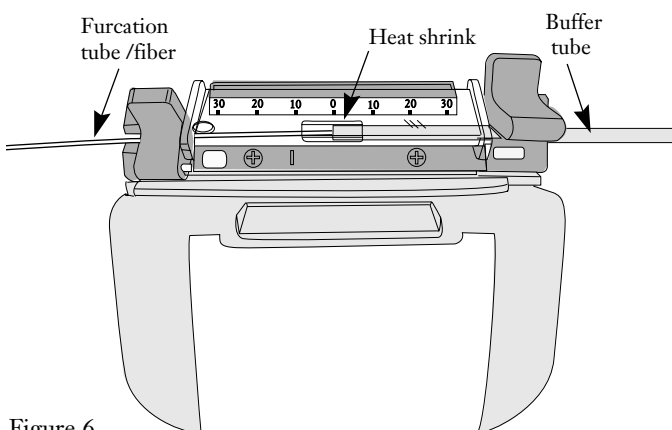


Figure 6

## 6. NID Preparation

**6.1** Open the NID and access the inner compartment (Figure 7).

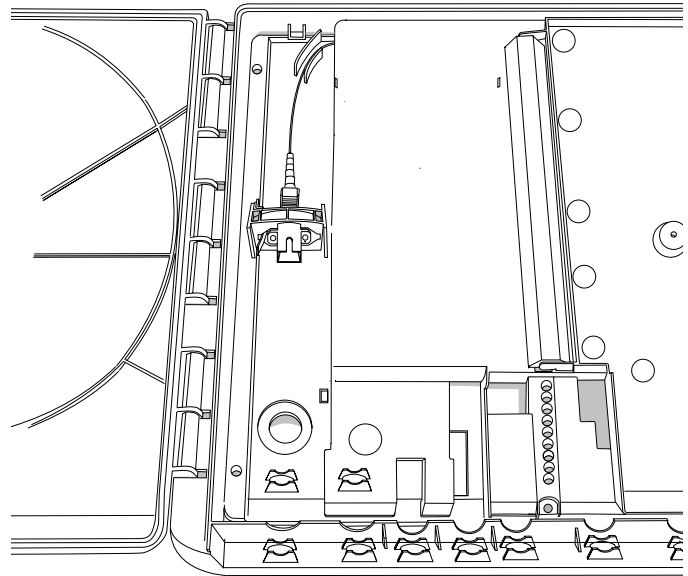


Figure 7

**6.2** Remove the backing from the splice holder and stick position it in the NID (Figure 7).

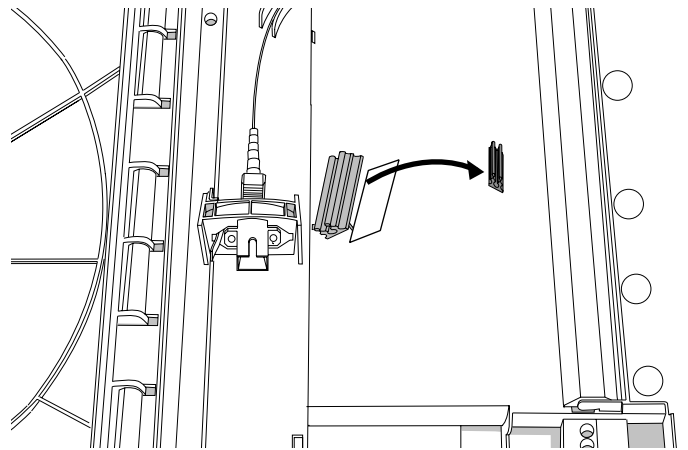


Figure 8

**6.3** Insert two cable ties into the NID's lower left cable entry (Figure 9).

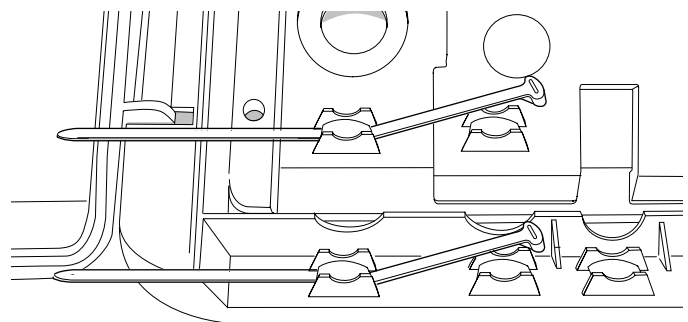


Figure 9

**6.4** Position the drop cable sheath into the NID approximately 1.25 in. and secure it with the cable ties (see Figure 10).

**6.5** Route the furcated 900  $\mu\text{m}$  fiber so that it will rest in the splice holder.

**6.6** To prepare the pigtail:

- a) Trim the pigtail to the desired length.
- b) Slide on the splice protector over and down the pigtail jacket.
- c) Splice the pigtail to the fiber from the 900  $\mu\text{m}$  furcation tubing.
- d) Center the splice protector over the splice and heat shrink it into place.
- e) Secure the splice protector in the splice holder (Figure 10).

**6.7** Close the NID cover and secure. Your installation is now complete.

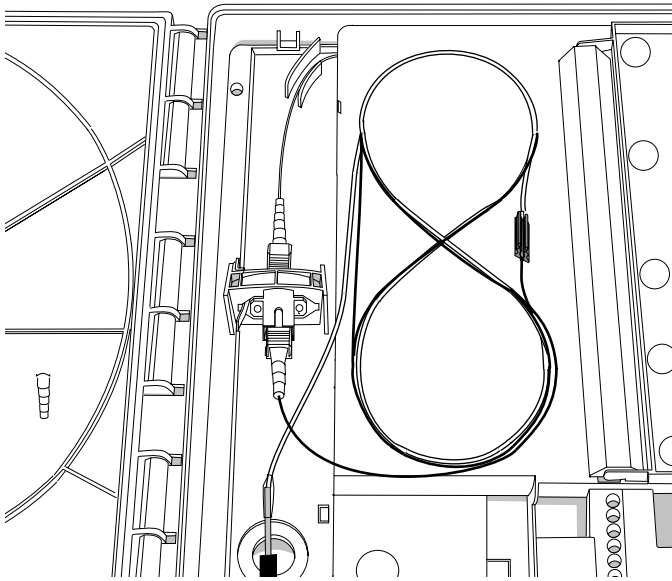


Figure 10

*Special Note:  
Fiber Optic  
Training  
Programs*



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