

Instructions: Ribbon Fiber Splitter Kits

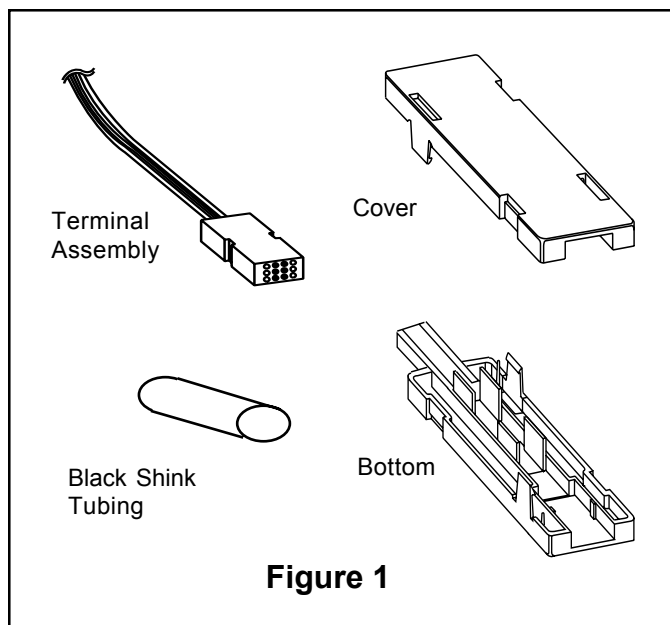
1. GENERAL

- 1.1 These instructions detail the installation of 6 or 12 fiber ribbon splitter kits on bare or jacketed ribbon fiber. Each kit breaks out 250 micron ribbonized fibers into individual 900 micron buffer tubes. The fibers can then be terminated using the connector manufacturer's recommended termination procedure for 900 micron tight buffered fibers.
- 1.2 Read these instructions prior to installation of the splitter kit.

2. SPLITTER KIT CONTENTS

- 2.1 Each Kit contains the following(see figure 1):

Cover
Bottom
6 or 12 fiber terminal assembly - 24 or 36 inches
Black shrink tubing



3. REQUIRED TOOLS AND MATERIAL (NOT INCLUDED)

- Electrical or masking tape
- Indelible marker
- Heat Gun

4. JACKETED RIBBON CABLE END PREPARATION

- 4.1 Measure back 34 inches from the cable end for 24 inch splitter kits and 46 inches for 36 inch splitter kits and make a mark.
- 4.2 Slide the 2 inch black shrink tubing onto the cable just beyond the mark.
- 4.3 Remove the jacket and Kevlar to the mark following the cable manufacturer's recommended jacket stripping procedures.
- 4.4 Slit the jacket sides back 1/2 inch. Remove the bottom half of the jacket
- 4.5 Make a mark on the bare ribbon 1/2 inches from the jacket end

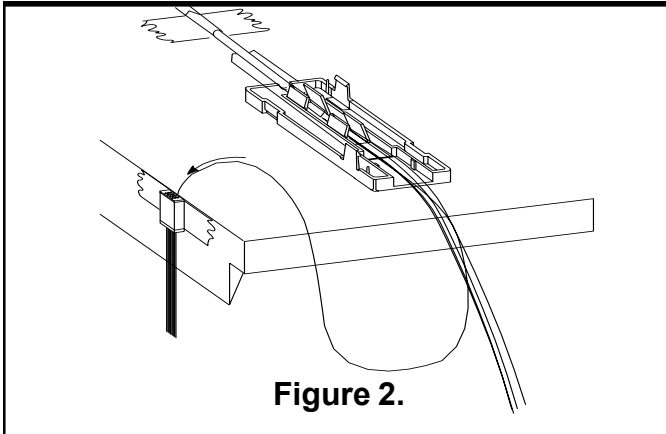
5. BARE RIBBON FIBER PREPARATION

- 5.1 Measure back 34 inches from the cable end for 24 inch splitter kits and 46 inches for 36 inch splitter kits and make a mark.
- 5.2 Cut a 1/2" piece of the shrink tubing. Slide the 1/2" black shrink tubing over the ribbon fiber just beyond the mark.

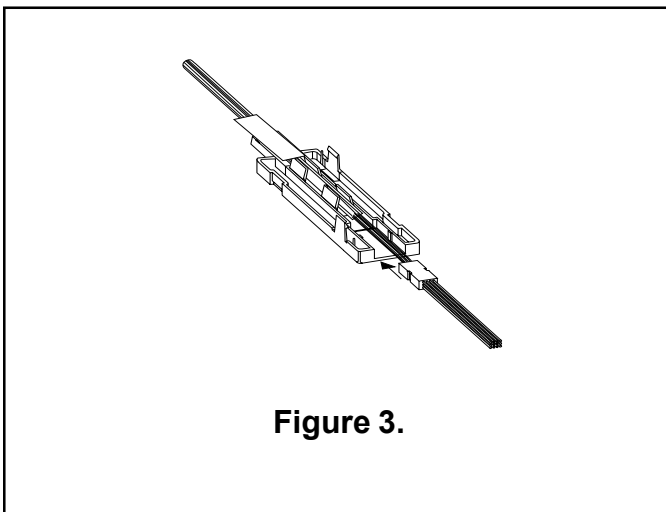
6. FIBER THREADING PROCEDURE

- 6.1 Place the bare ribbon into the splitter kit bottom. Center the ribbon in the rear body of the splitter bottom. Align the mark on the bare ribbon with the back edge of the metal protective housing. Slide the 1/2" shrink tubing onto the bare ribbon and rear body of the splitter bottom. Shrink with a heat gun. Be careful not to overheat the ribbon fiber.
- 6.2 If terminating jacketed cable, slide the cable so the remaining top half of the cable jacket rests on top of the ribbon rear body channel. Slide the 2" shrink tubing around the Kevlar, ribbon and rear body and shrink with a heat gun. Be careful not to overheat the ribbon fiber.
- 6.3 Tape the terminal assembly in the vertical position to the side of the ribbon fiber. Tape the ribbon fiber to the work surface. Overhang the fibers as shown in Figure 2.
- 6.4 Carefully separate the fibers one at a time back to the mark on the bare ribbon.

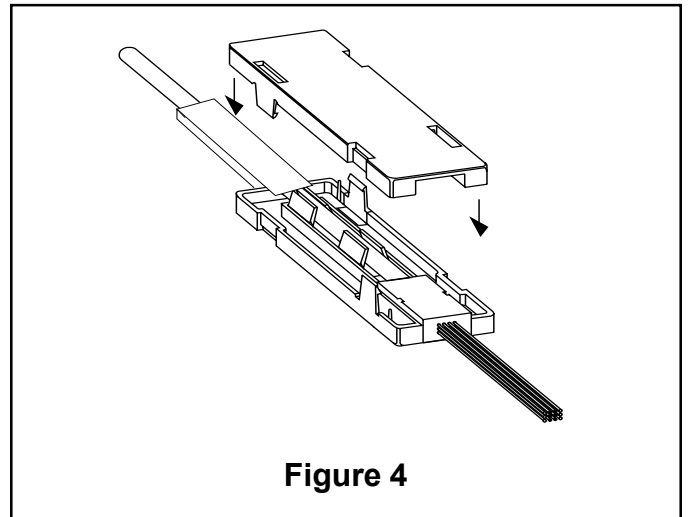
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- 6.5 Select the first fiber and thread 150 mm (6 in.) into the corresponding color coded tube of the terminal assembly (see Figure 2).
- 6.6 Repeat this procedure for the remaining fibers, making sure the color coded fibers match the color coded 900 micron tubing.
- 6.7 When all the fibers have been threaded, push the fibers as a group until the fibers start to protrude from the ends of the buffer tubes.
- 6.8 Gently pull the fibers from the ends of the buffer tubing. Do not pull the fibers taught. Leave sufficient slack so the fibers are not stressed.
- 6.9 Untape the terminal assembly and slide the assembly toward the splitter kit bottom while pulling the fibers from the end of the 900 micron tubing. If the fibers twist, rotate the terminal assembly in the opposite direction of the twist (see Figure 3).



- 6.10 Place the terminal assembly into the bottom of the splitter body. Align the top cover and snap into place (see figure 4).



7. TERMINATION

- 7.1 Terminate and test each fiber following the connector manufacturer's instructions.