

# Unitube/Central Tube Splitter Kit

## 1 GENERAL

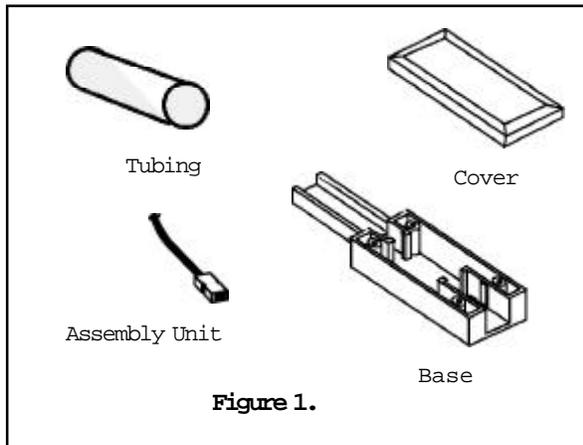
- 1.1 These instructions detail the installation of Unitube/Central tube splitter kits. Each kit breaks out 250 um fibers from a unitube cable into individual 900 um buffer tubes. The fibers can then be terminated using the connector manufacturer's recommended termination procedure for 900 um tight buffered fibers.

## 2 SPLITTER KIT CONTENTS

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

### CONTENTS

Cover  
Base  
Terminal assembly  
Talc  
Shrink tube



## 3 REQUIRED TOOLS AND MATERIALS (NOT INCLUDED)

Electrical or masking tape	Lint free wipes
Indelible marker	Heat gun
Buffer tube stripper	Gel cleaner

## 4 DETERMINING STRIP LENGTH

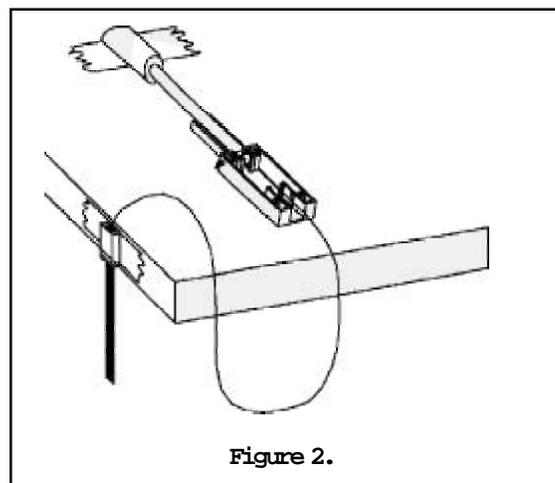
- 4.1 Measure backwards, from the end of the cable to the point at which it will attach to the patch panel, and add 52 inches ( 132 cm ) to the length.
- 4.2 Mark this point with a piece of tape. This is the jacket strip point for the cable being terminated.

## 5 CABLE END PREPARATION

- 5.1 Follow the cable manufacturer's recommended sheath stripping procedures.
- 5.2 Strip the cable jacket back to the tape mark.
- 5.3 Clean any dirt and/or gel surrounding the buffer tube.

## 6 BUFFER TUBE PREPARATION

- 6.1 Slide the shrink tube over the tube and slide back to the cable jacket.
- 6.2 Measure back 46 inches from the end of the tube ( 92 cm ) and place a mark.
- 6.3 Score and remove 6 to 10 inches of the tube at a time until you have removed all of the tube back to the mark. Be careful not to break any fibers.
- 6.4 Wipe all of the gel from the exposed fibers using a gel cleaner or isopropyl alcohol. Clean the outside of the remaining tube. Any gel or dirt may prevent the adhesive lined shrink tubing from securing the tube to the splitter kit base.
- 6.5 Place the buffer tube in the buffer tube cavity of the splitter kit base. Route the bare fiber through the open front of the splitter kit base(see figure 2).
- 6.6 Slide the shrink tubing over the tube and rear body of the splitter kit base.
- 6.7 With a heating gun, shrink the tubing. Be careful not to melt the splitter kit base.



## 7. FIBER THREADING PROCEDURE

7.1 Tape the splitter kit base and cable securely to the work surface, about 2 inches in from the edge of the work surface.

7.2 Tape the terminal assembly in the verticle position 3 inches to the side of the splitter kit base (see figure 3).

7.3 Untangle the fibers and make sure they are completely free of gel.

7.4 Talc the fibers to facilitate the threading operation. Cup the talc in the palm of your hand and apply along the whole length of the fibers.

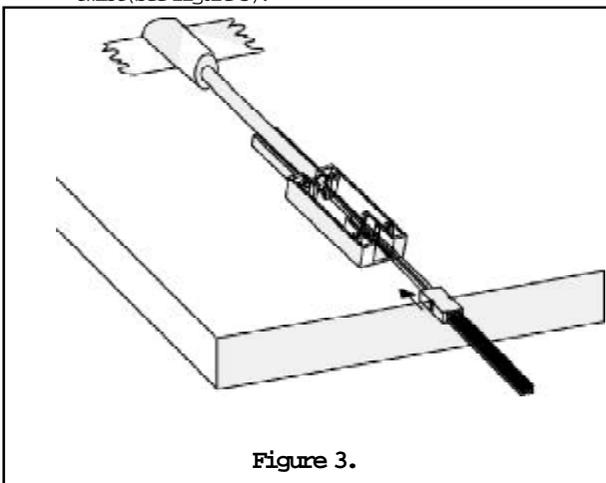
7.5 Select the blue fiber and thread 6 inches (15 cm ) into the blue tube of the terminal assembly (see figure 2).

7.6 Repeat this procedure for the remaining fibers, making sure the color coded fibers match the color coded 900 um tubing.

7.7 When all the fibers have been threaded, push the fibers as a group until the fibers start to protrude from the ends of the individual buffer tubes.

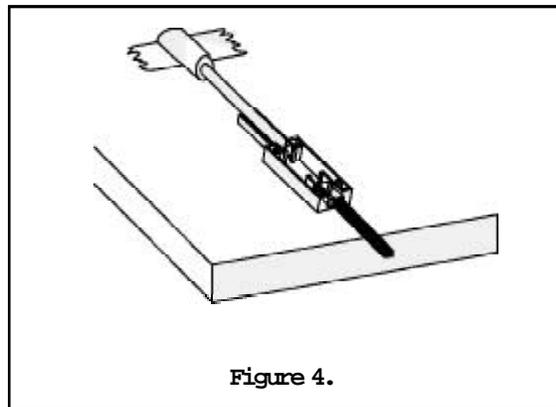
7.8 Gently pull the fibers from the ends of the buffer tubing. Do not pull the fibers taught. Leave sufficient slack so the fibers are not stressed.

7.9 Untape the terminal assembly and slide the assembly towards the splitter kit base 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).



7.10 Place the terminal assembly into it's cavity in the bottom of the splitter kit base (see figure 4).

**Note: For fiber counts above 12 fibers, two terminal assemblies are supplied. Above 12 fibers, the bare fibers will be sub-grouped and distinguished with the bare fiber color code repeated. Always place the the terminal assembly for the first sub-group in the bottom position of the splitter kit base.**



7.11 Align the top cover and snap into place. Remove the tape securing the splitter kit base. The fibers are now ready for connector installation.