

Preface

This Instruction covers the installation of the LT1B Splice Organizer.

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Step 1 – Identify Parts

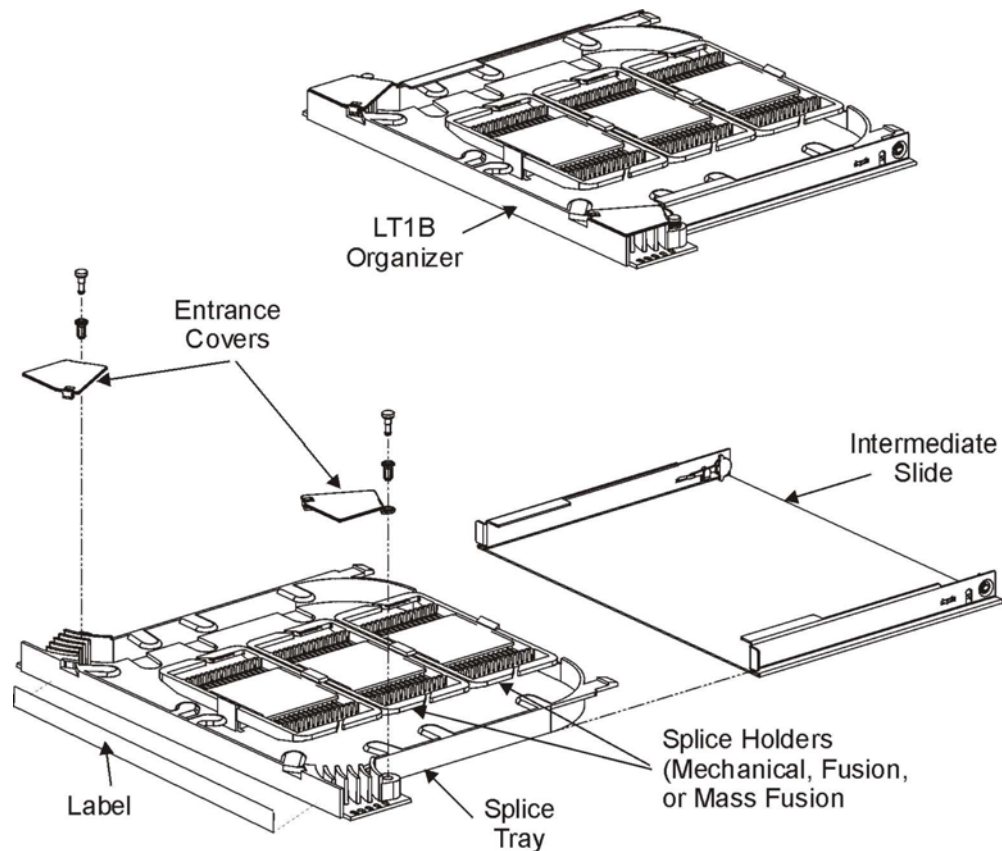


Figure 1. LT1B Organizer

Parts List (included):

- Foam Strip
- 25-foot (7.62 m) coil of protective tubing (0.095 ID)

1. Insert organizer assembly into lightguide shelf or cabinet and extend splice tray for easy access. Remove splice tray from intermediate slide for remote splicing.
2. Remove the entrance covers.

Step 2 - Install Protective Tubing and Measure Cable Fiber Length

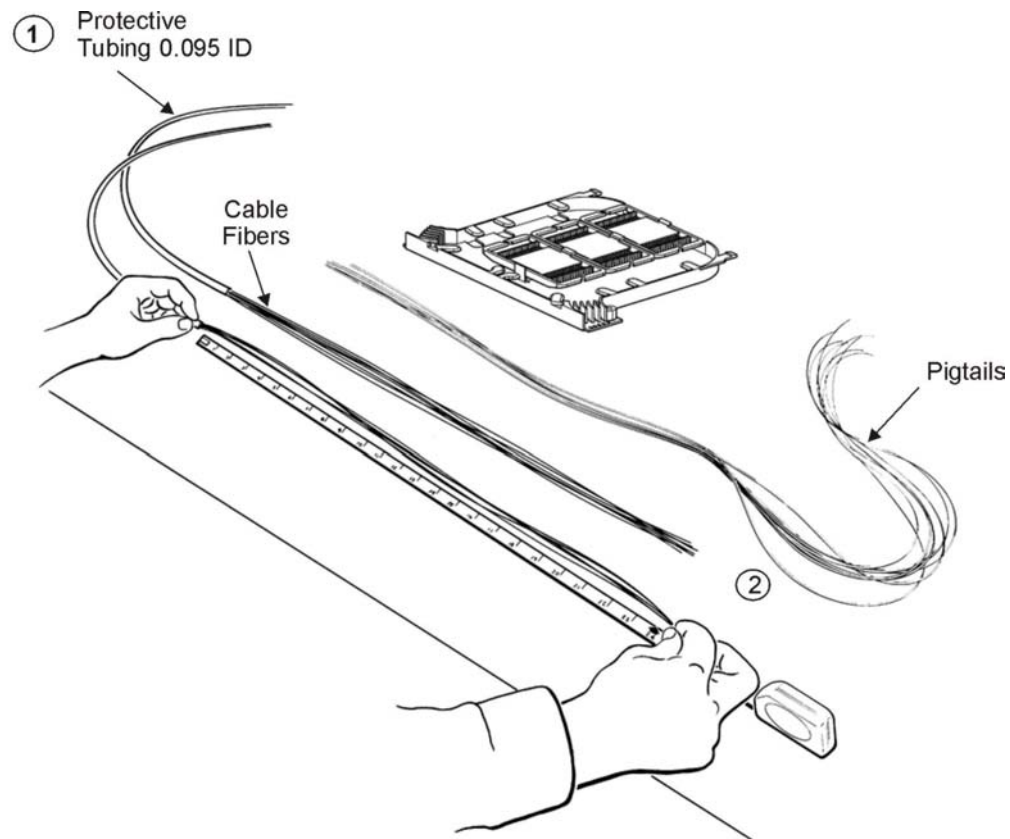


Figure 2. Install Protective Tubing and Measure Cable Fiber Length

1. Cut protective tubing to length required and insert cable fibers through tubing.
2. Trim the fibers 24 inches (610 mm) from end of protective tubing.

Step 3 – Apply Strain Relief

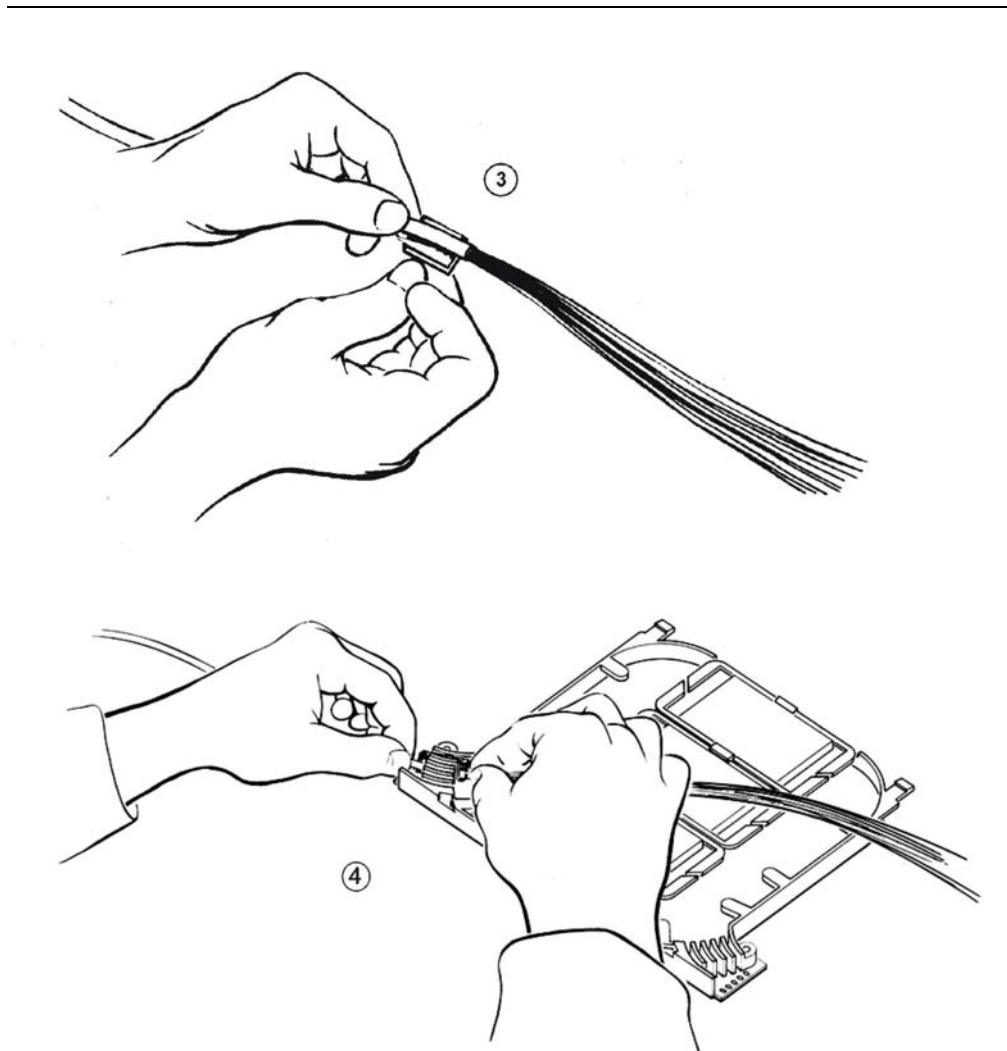


Figure 3. Apply Strain Relief

1. Cut a 1-1/4 inch (32 mm) length of adhesive-backed foam to use for strain relief.
2. Peel the paper wrapping from foam. Do not touch the exposed adhesive.
3. Place the protective tubing on the adhesive surface of the foam.
4. Gently squeeze the adhesive sides together around the protective tubing and insert it into a splice tray slot.

Step 4 - Measure Pigtails and Apply Strain Relief to Each of Them

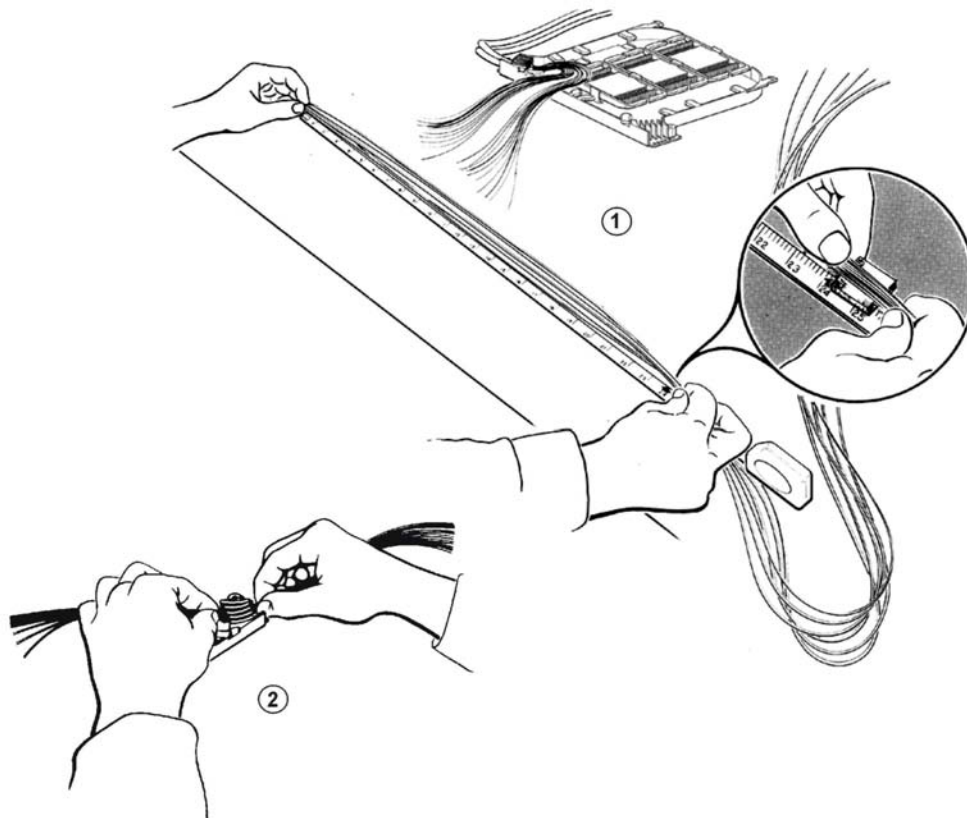


Figure 4. Measure Pigtails And Apply Strain Relief To Each Of Them

1. Measure 24-inch (610 mm) lengths for pigtails and attach them to the adhesive surface of the foam strips (strain relief). Up to six pigtails can be placed on each strain relief.
2. Gently squeeze the adhesive sides together around the pigtails. Place each group of pigtails in a slot on the splice tray.

Step 5 - Prepare The Fibers And Splice Them

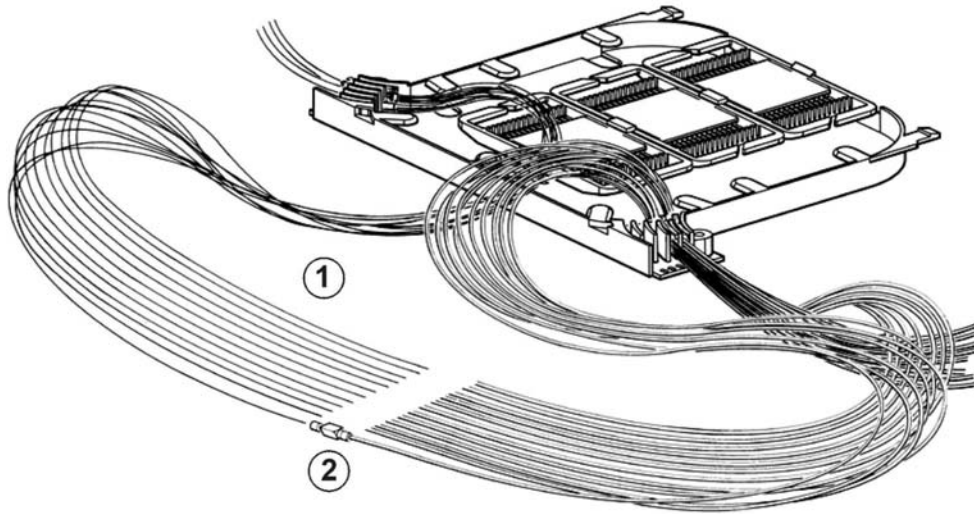


Figure 5. Prepare The Fibers and Splice Them

1. Untangle the fibers and lay them flat on a clean work surface.
2. Complete all necessary splicing.

Step 6 - Determine The Proper Splice Sequence

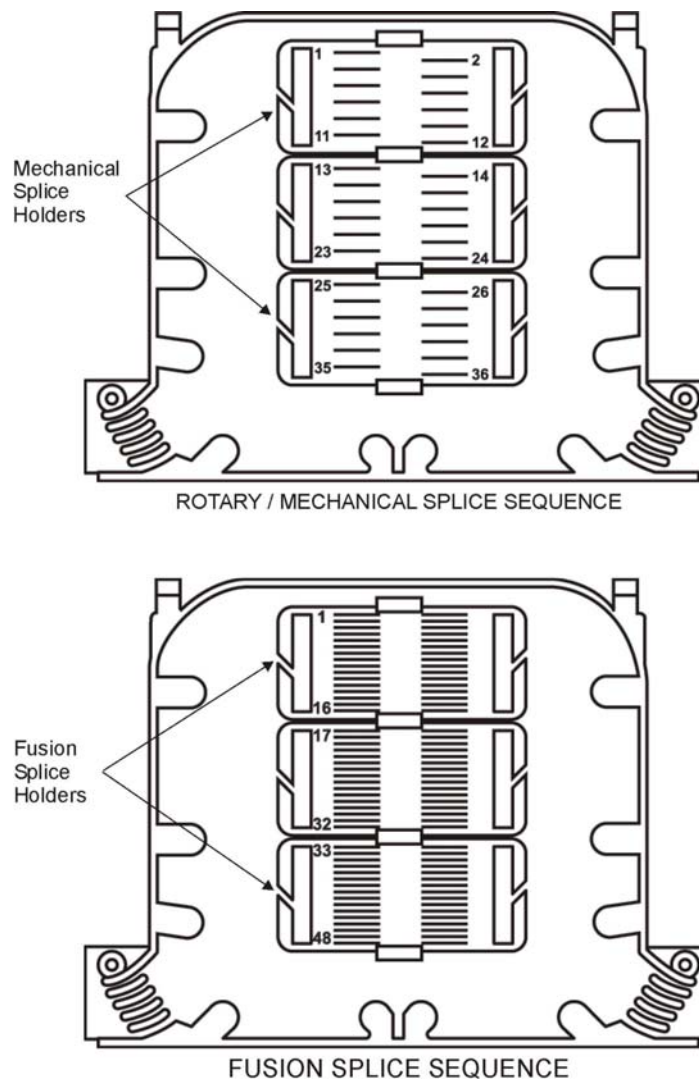


Figure 6. Rotary/Mechanical and Fusion Splice Sequence

1. Place the splices in the splice holders in the recommended sequential order shown in the figures on page 7 and page 8.

⇒ NOTE:

The position numbers shown on the splice holders in the figures are for information only. No numbers appear on the actual holders.

Determine the Proper Splice Sequence (continued)

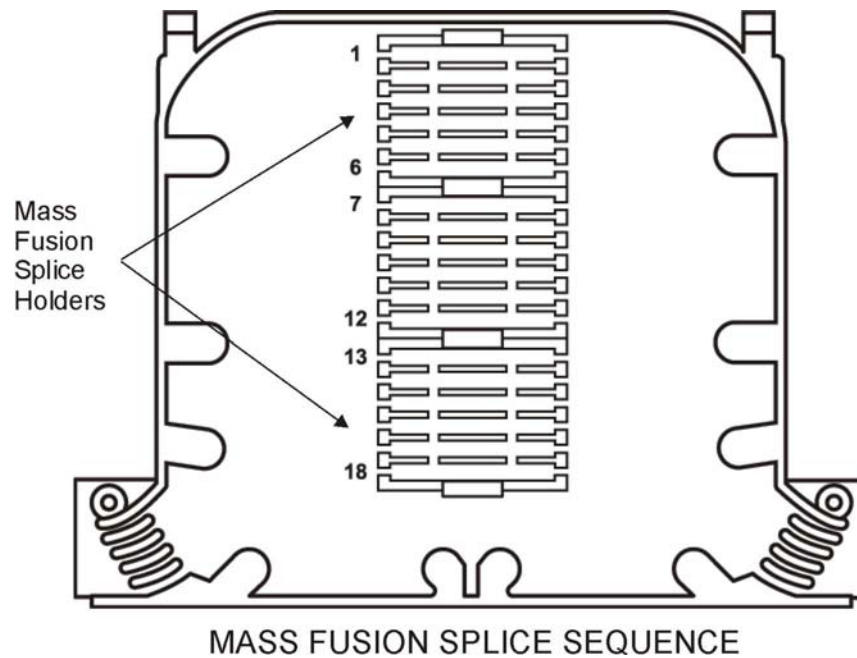


Figure 7. Mass Fusion Splice Sequence

Step 7 - Place The Splices

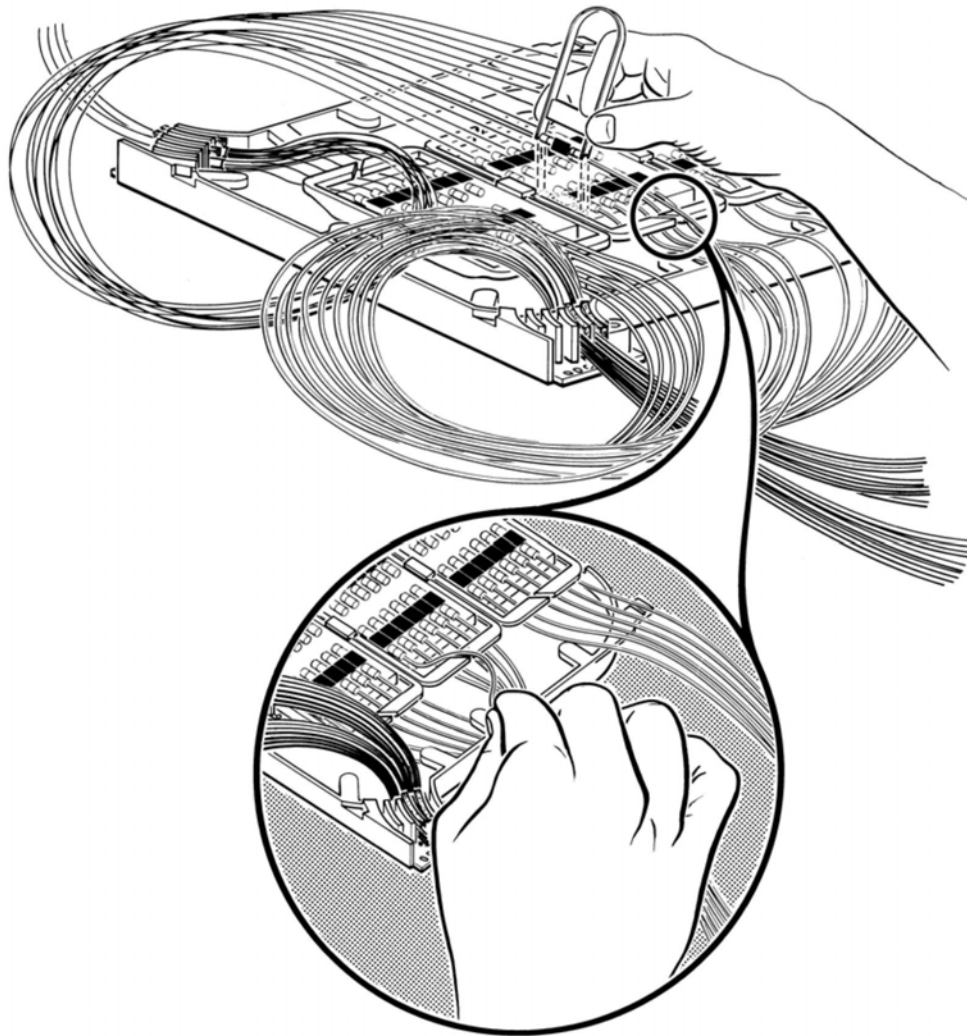


Figure 8. Place the Splices

1. Using a 1012A compression tool (for rotary/mechanical type splices), compress springs on the splice.
2. Place the splices in the splice holder, dressing the fibers as shown above.

Step 8 - Store Pigtail Slack

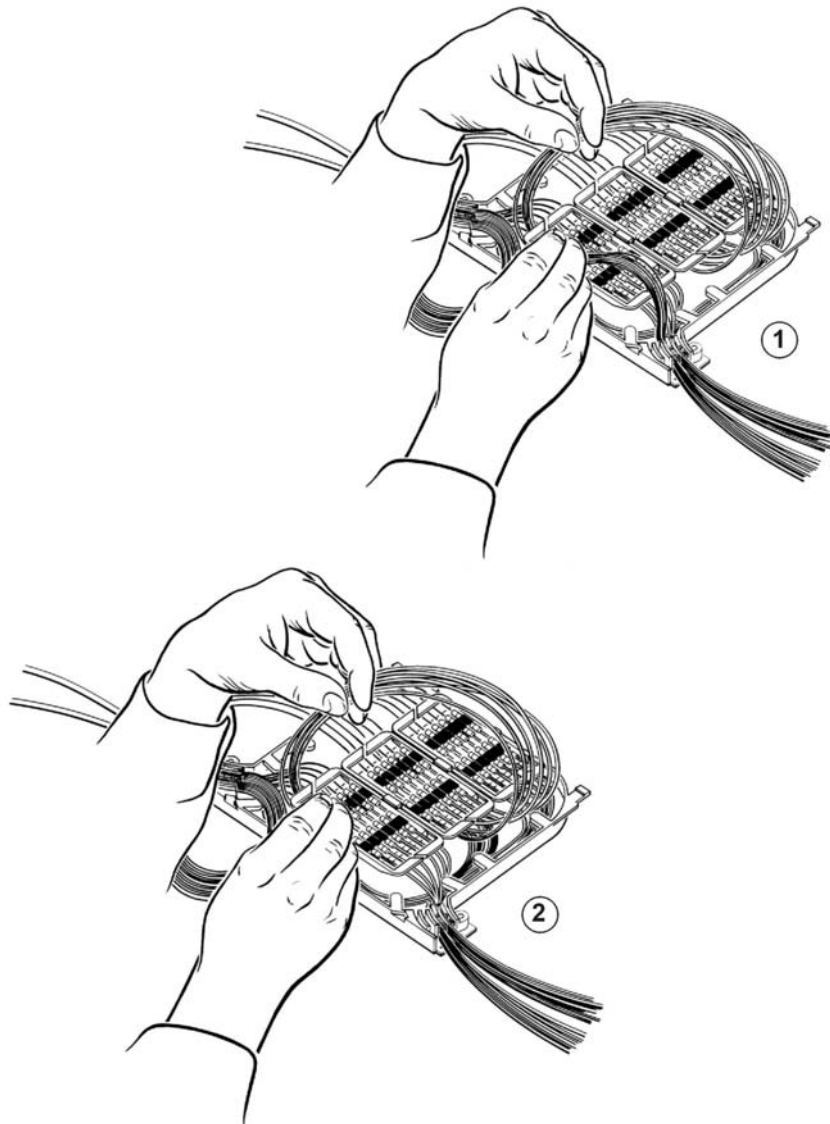


Figure 9. Store Pigtail Slack - 1

1. Slide the slack coil under the splice holder and push it toward the rear of the tray.

Store Pigtail Slack (Continued)

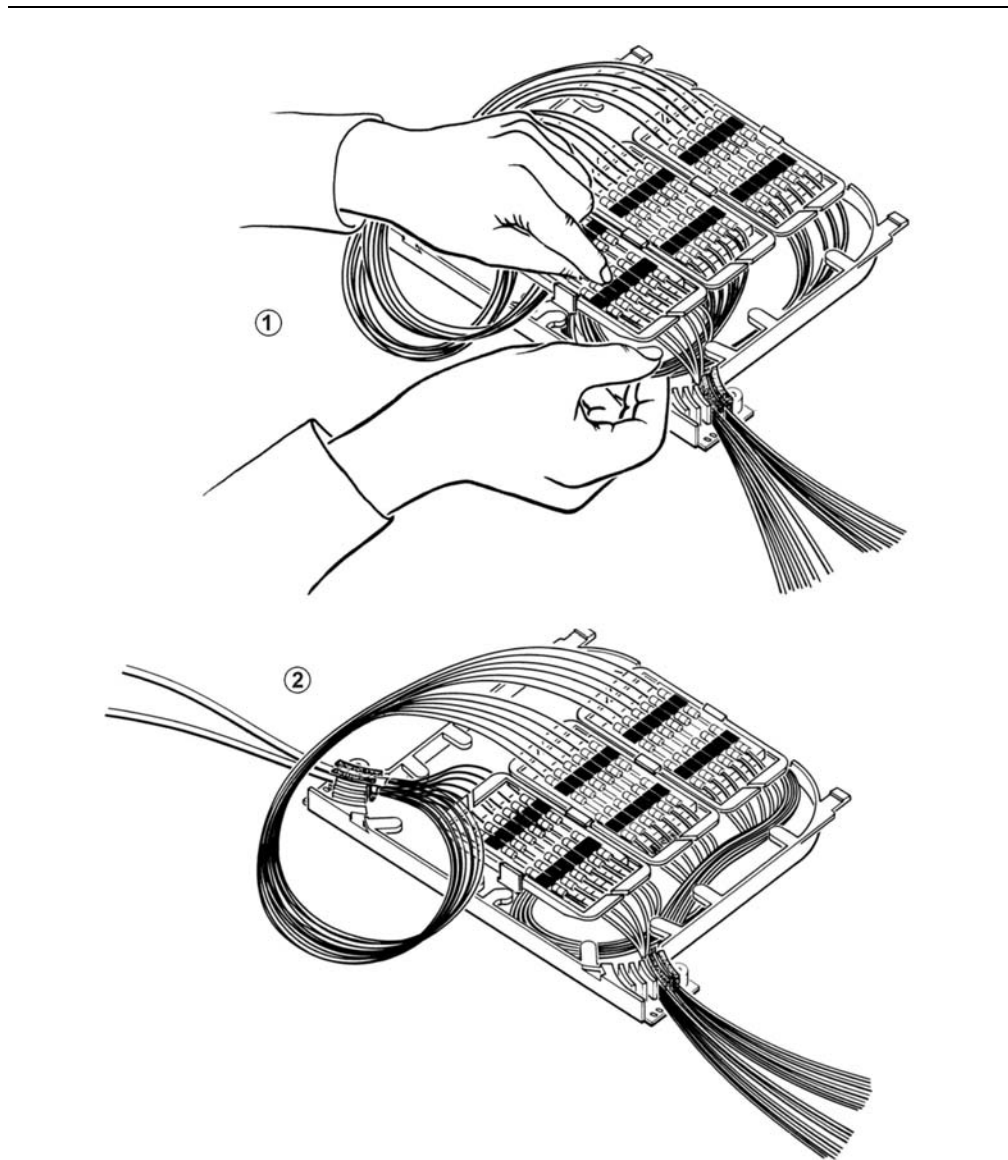


Figure 10. Store Pigtail Slack - 2

2. Dress the pigtail slack as shown above.
3. Dress the fibers to ensure a minimum bend radius of 1.5 inches (38 mm).

Step 9 - Store The Cable Fiber Slack

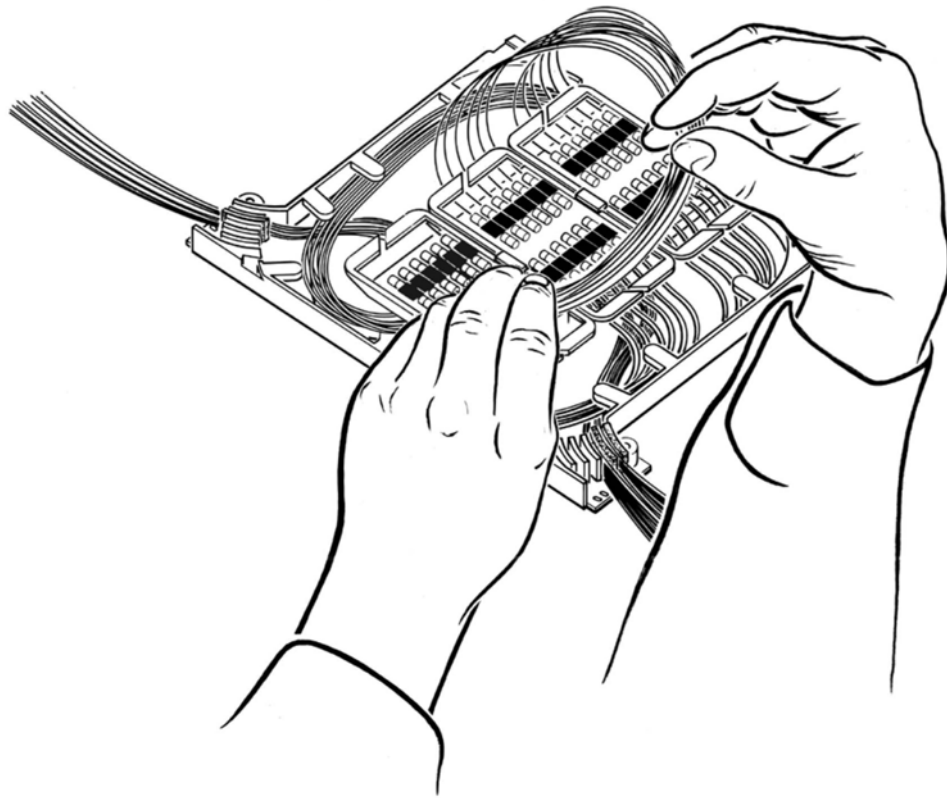


Figure 11. Store the Cable Fiber Slack

1. Repeat the slack storage procedure for unbuffered cable fibers.

Store the Cable Fiber Slack (Continued)

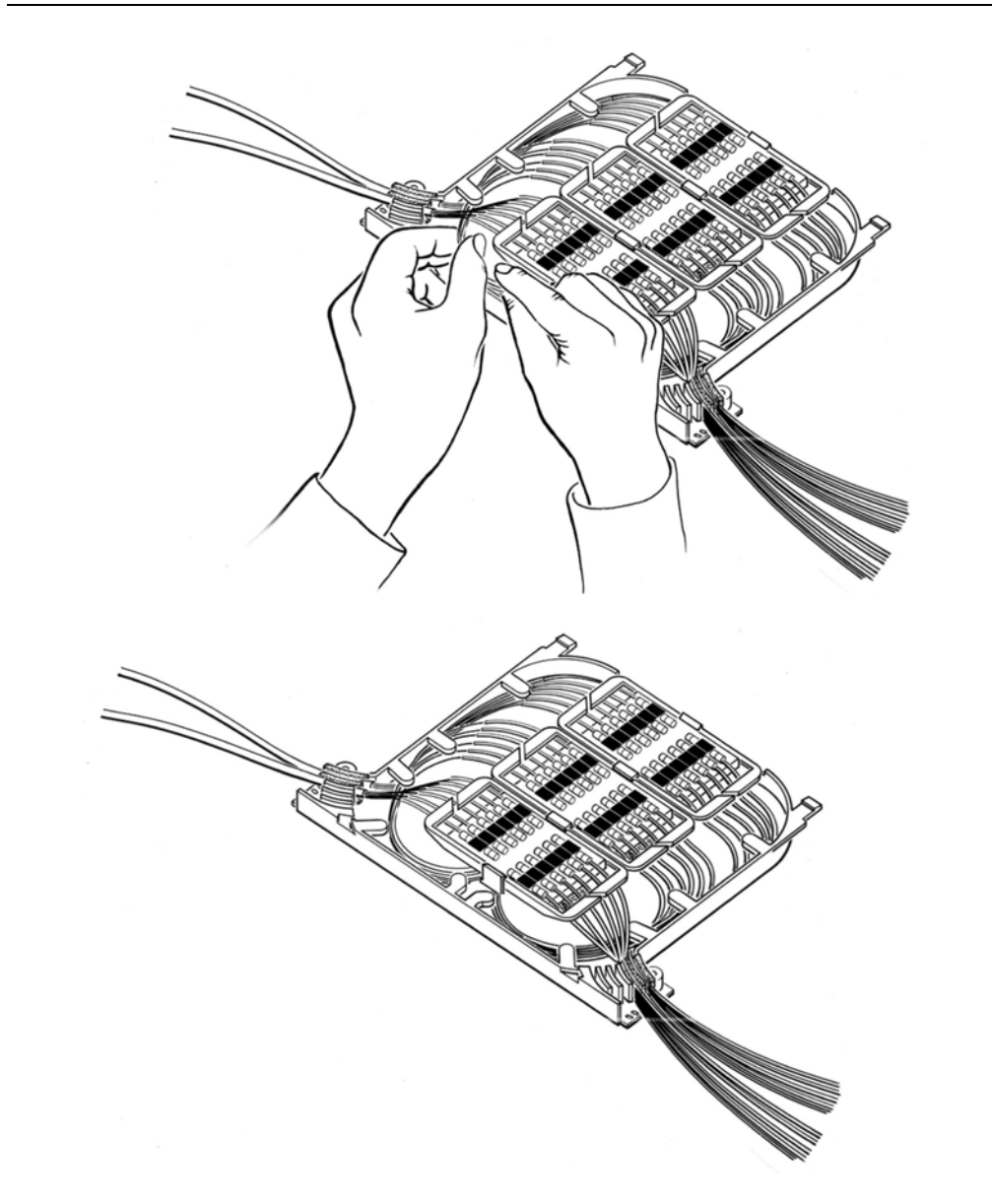


Figure 12. Store The Cable Fiber Slack

1. Install the last of the unbuffered cable fibers. The splice tray with all fiber slack stored should look as shown above. Splicing is complete.

Step 10 - Replace The Entrance Covers

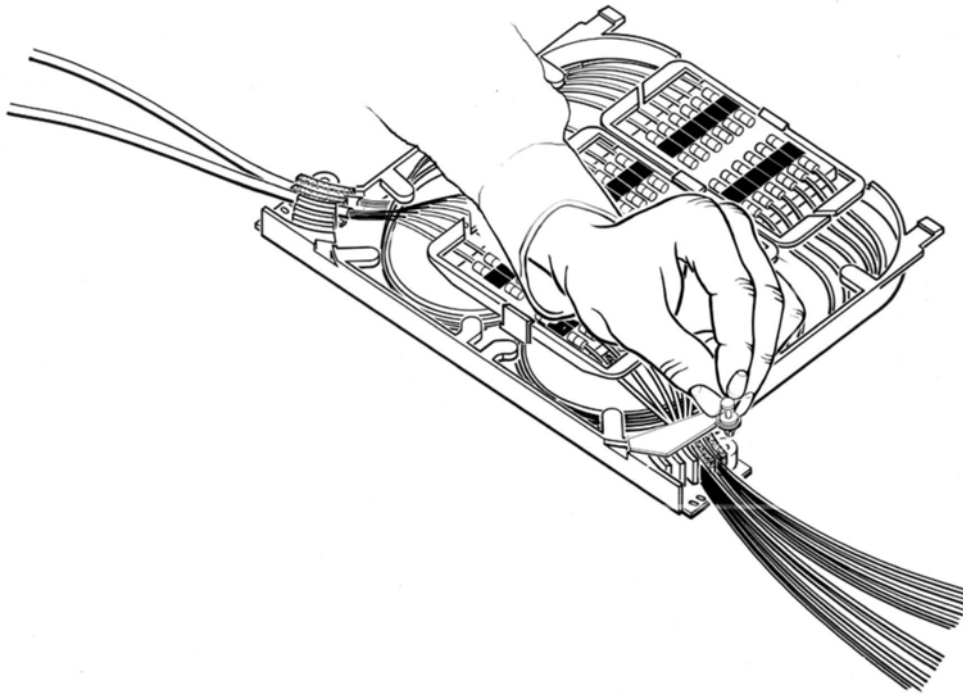


Figure 13. Replace the Entrance Covers

1. Install the left and right entrance covers and engage their fasteners.

Step 11 - Install The Splice Tray

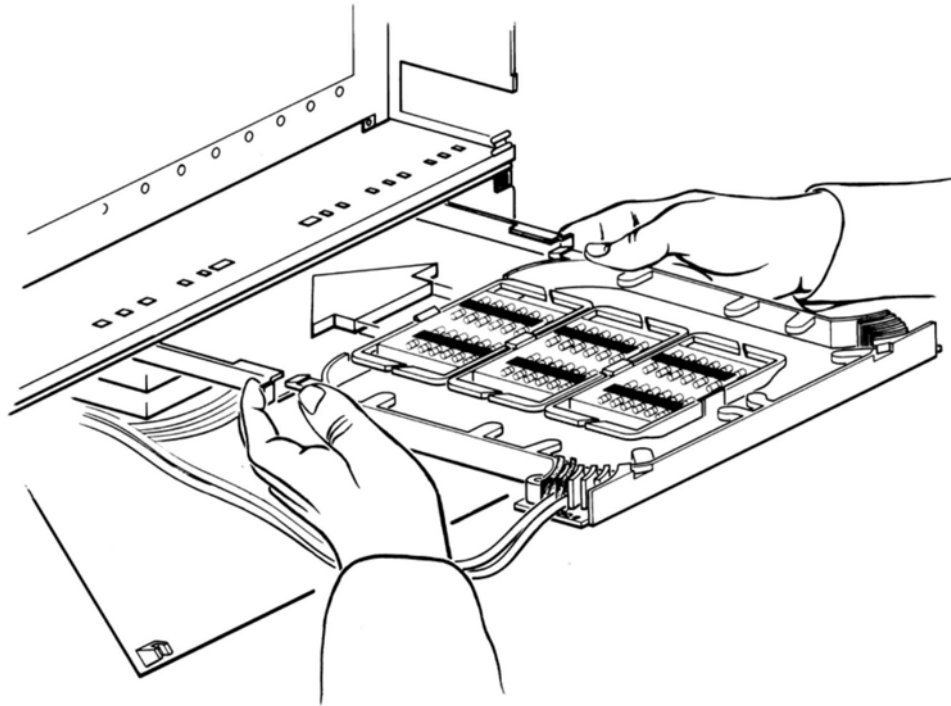


Figure 14. Install the Splice Tray

1. Install the intermediate slide to the shelf, if it was not put in place during Step 1.
2. Hold the slide with your index finger, while pressing down on the rear tabs of the splice tray with your thumb. Insert the tray into the intermediate slide.

Step 12 - Dress The Slack

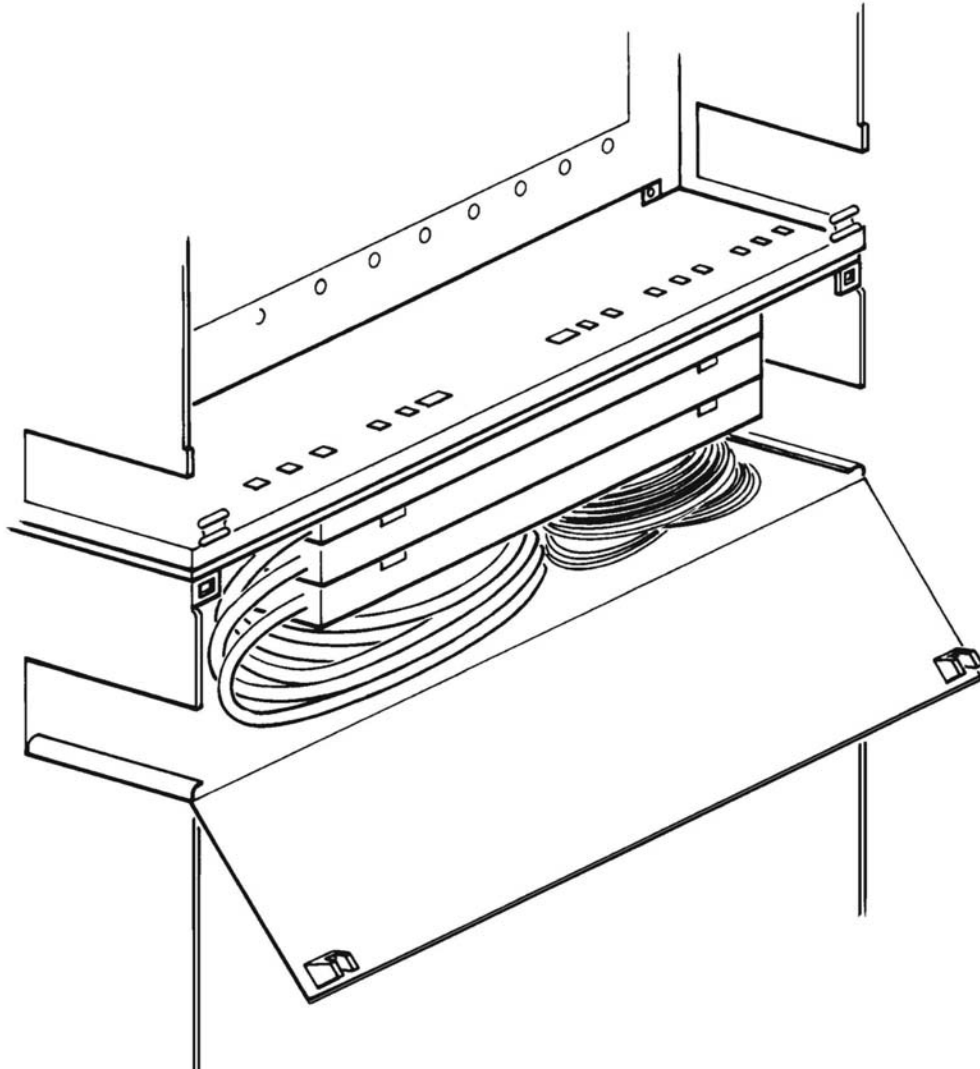


Figure 15. Dress the Slack

1. Slide the splice organizer into the shelf while dressing the slack to sides and bottom.

Fiber Routing Method for Splicing Buffered Fibers With Ribbons (Single Fusion)

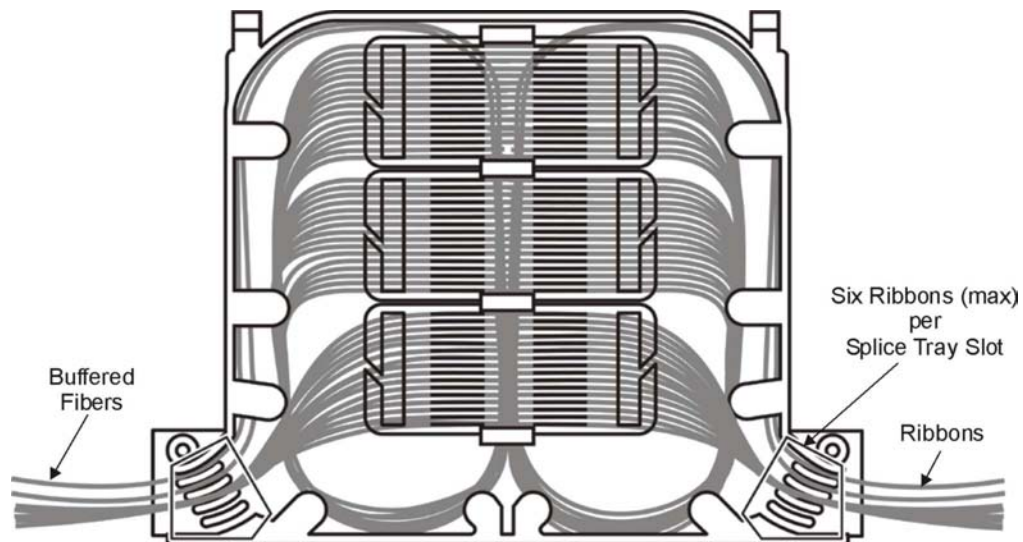


Figure 16. Fiber Routing Method for Splicing Buffered Fibers With Ribbons (Single Fusion)

1. For Single Fusion splices, splice the fibers, place them in holders, and coil one loose turn of excess fiber slack under the Splice Holder and push it toward the rear of the organizer tray, as shown above.
2. Place up to six ribbons in each splice tray slot.
3. Cut two 1-1/4 inch (32 mm) sections of adhesive-backed foam to use as strain relief for each slot.
4. Remove the paper from the foam to expose the adhesive. Do not touch the adhesive.
5. Remove the ribbon(s) from the slot and press them against the adhesive surface of the foam.
6. Gently squeeze the adhesive sides together around the ribbon(s).
7. Place the adhesive surface from the other section of foam on the opposite side of the ribbon(s), forming a sandwich. Place the ribbon back in the splice tray slot.
8. Repeat Steps 3 through 7 for each of the other ribbons.
9. Install the left and right entrance covers and engage their fasteners.
10. Slide the splice organizer into the shelf while dressing the slack to the sides and bottom.