



FIBERLIGN® FIBER OPTIC SPLICE ORGANIZER

(Vertical Filing)

Be sure to read and completely understand this procedure before applying product. Be sure to select the proper PREFORMED™ product before application.

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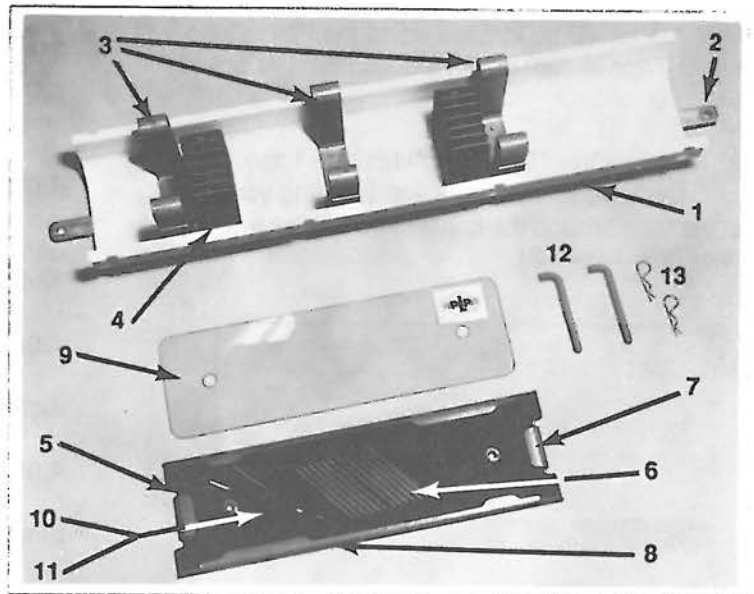


FIGURE 1- MAINFRAME ASSEMBLY (8001025)

1.00 NOMENCLATURE

1. Mainframe Assembly
2. Torque Bar
3. Buffer Tube Retainer Clips
4. Splice Tray Retainers
5. Splice Tray Assembly
6. Grooved Splice Block
7. Splice Tray End Retainer
8. Splice Tray Side Retainer
9. Snap-on Lid (1 per tray)
10. Felt Adhesive Strips
11. Tie Wraps (4)
12. Splice Tray Retainer Pins (2)
13. Splice Tray Retainer Pin Clips (2)

| SPLICE TRAY ASSEMBLY OPTIONS | |
|------------------------------|---|
| CATALOG NUMBER | DESCRIPTION |
| 8000184 | for protected fusion or mechanical splices (up to 12) |
| 8000182 | for unprotected fusion splices (up to 12) |
| 8001023 | for Rotary splices (up to 12) |
| 8001042 | for Fibriok* splices (up to 12) |
| 8001045 | for protected fusion or mechanical splices (up to 18) |

*Fibriok is a trademark of the 3M Company

2.00 DESCRIPTION

2.01 This Preformed Line Products' FIBERLIGN® Fiber Optic Organizer is designed to help organize the delicate optical fibers, facilitate the splicing operation and store the surplus fiber. It is recommended for use with the 6-1/2" FIBERLIGN Splice Case, and will accommodate six Splice Tray Assemblies.

2.02 For Safety Considerations, refer to the end of this application procedure.

3.00 DRILLING

3.01 Measure each cable at the location the End Plates will be applied using the Fiber Optic Measure Tape included with the FIBERLIGN Splice Case.

3.02 To use the Fiber Optic Measure Tape, hold the tape so the index line is facing you. Then wrap the tape around the cable to obtain the reference number (see Figure 2).



FIGURE 2

If the index line falls on a line between two numbers, use the number to the right of the line, Figure 3.

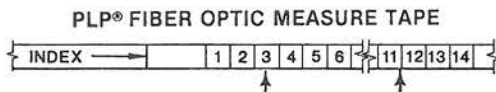


FIGURE-3

Once you have obtained the cable diameter reference number, use the drill size table to the right of the tape and locate the drill size. If using the Blade Kit with A-Z blades, use the CABLE Mea-SURE™ Tape and select proper blade size.

3.03 Drill End Plates in accordance with Section 6 of the Application Procedures provided with the FIBERLIGN Splice Case.

PLP® TIP: If a Power End Plate Cutter is not available, then a drill press or some other method of keeping the drill bit vertical must be used.

4.00 PREPARATION OF FIBER OPTIC CABLE

4.01 Measure and mark the cables to remove a minimum 108" of sheath.

4.02 Scuff the cable for a length of 6" where the End Plate is to be placed. Use the emery cloth provided. Always scuff around the cable, never scuff lengthwise. Make sure all deep grooves are removed.

4.03 Cover the scuffed area with vinyl tape (the vinyl tape is applied to prevent any filling compound from getting onto the sheath during the cable opening procedure).

4.04 Remove the cable sheath to the cable opening mark. Remove any other coverings to expose the buffer tubes.

4.05 Thoroughly remove all filling compound from the buffer tubes using your company's standard procedures.

5.00 APPLICATION OF 3/4" LOCK-TAPE™ SEALANT TO CABLE

5.01 Remove the vinyl tape from the scuffed area of the cable.

5.02 Coat the scuffed area of the cable with C-Cement and allow to dry to a tacky base.

5.03 Half-lap 3/4" LOCK-TAPE™ Sealant around the cable (black side up) in area of cable coated with C-Cement. Stretch tape enough to reduce its width to 1/2". (Figure 4). Be sure to remove backing from white side while applying tape. Figure 5 shows the completed application of one half-lap of LOCK-TAPE Sealant.

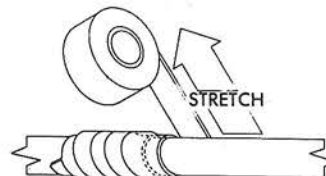


FIGURE 4



FIGURE 5

6.00 END PLATE ASSEMBLY

6.01 Prepare the drilled End Plate and install it on the cable in accordance with Section 9 of the Application Procedure provided with the FIBERLIGN® Splice Case.

6.02 For butt splices, be sure to seal the opposing End Plate by sandwiching two layers of LOCK-TAPE Sealant between the End Plate halves.

7.00 ORGANIZER MAINFRAME ASSEMBLY

7.01 Secure the Torque Bar of the Mainframe Assembly to the End Plates with the bolts provided. Position the Mainframe Assembly so the Splice Tray Retainers are closest to the opposing End Plate (butt splice application).

7.02 Route the buffer tubes for the left front three splice tray positions through the bottom set of buffer tube retainer clips. These buffer tubes will enter the front three Splice Trays at the left top corner, Figure 6. Mark the buffer tubes 1" beyond the point where they enter the tray.

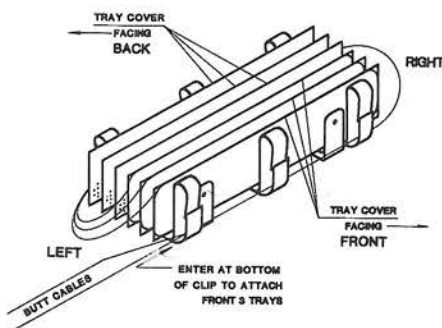


FIGURE 6

7.03 Route the buffer tubes for the right three positions (if required) through the bottom set of buffertube retainer clips. These buffertubes will enter the top right of the back three splice trays. (Figure 7). Mark the buffer tubes 1" beyond the point where they enter the tray.

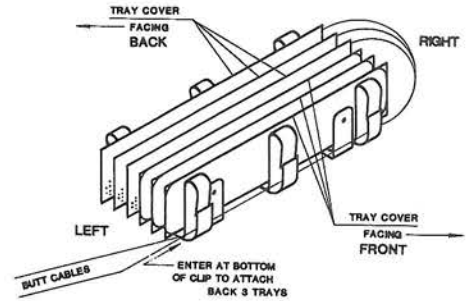


FIGURE 7

8.00 FIBER SPLICING & SPLICE TRAY ASSEMBLY

8.01 Starting at the marks, remove the buffer tube from the fibers, and thoroughly remove all filling compound from the fibers.

8.02 "Squeaky" clean the buffer tube and remove any compound 2 inches in from the fiber. With the ends of the buffer tubes held evenly, wrap two layers of felt tape around each buffer tube. Figure 8.



FIGURE 8

8.03 Lay the buffer tubes onto the tray so the felt-taped area will stay within the tie wraps. Securely tighten the tie wraps to hold each buffer tube to the tray, Figure 9.

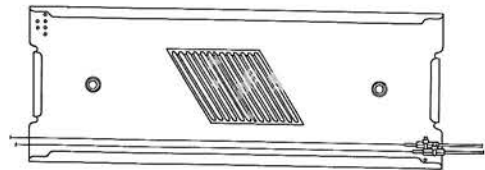


FIGURE 9

8.04 Select the fibers from one direction of transmission and route them around the tray (under the retainer lips) until the fibers have made one-and-a-half laps in the tray, Figure 10.

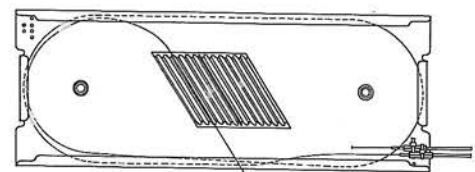


FIGURE 10

8.05 Select the fibers from the opposite direction of transmission and route them around the tray, until the fibers have made one complete loop, Figure 11.

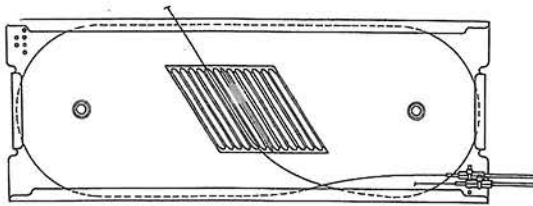


FIGURE 11

8.06 Splice the fibers according to your accepted company practices.

8.07 Position each splice into the grooved splice block. Use a small amount of RTV sealant (if required) to secure the splice in place. Secure the fiber slack inside the splice tray with the felt adhesive strips, Figure 12.

PLP TIP: As an alternative, a length of felt adhesive strip over the splices can be used to secure the splices in place.

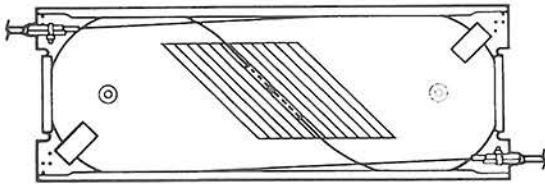


FIGURE 12

PLP TIP: If removal or reapplication of the felt adhesive strips is necessary, remove them at 45° angles as shown (Fig. 13) this lessens the chance that the fiber will be pulled out with the strip.

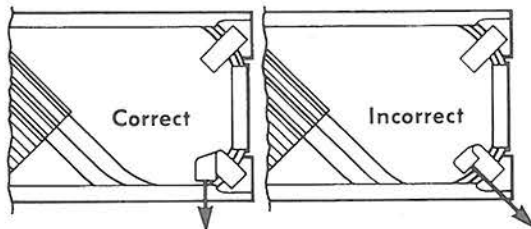


FIGURE 13

8.08 Snap on the tray cover, and route the buffer tubes within the Retainer Clips.

8.09 Secure the Splice Tray Assembly(s) to the Mainframe with the Splice Tray Retainer Pins and Pin Clips.

9.00 SPLICE CASE SHELL ASSEMBLY

9.01 Install the Splice Case shells and LOCKBAR™ Fastening in accordance with Section 10 of the Application Procedure provided with the FIBERLIGN® Splice Case.

PLP® TIP: For aerial applications, be sure to install the Aerial Suspension Plates to the back LOCKBAR™ Fastener prior to final assembly.

10.00 SAFETY CONSIDERATIONS

1. This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. Failure to follow these procedures may result in personal injury.
2. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.
3. For proper performance and personal safety, be sure to select the proper size PREFORMED Products before application.
4. This product is intended for use by trained craftspeople only. This product should not be used by anyone who is not familiar with, and not trained to use it.



PREFORMED LINE PRODUCTS

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