

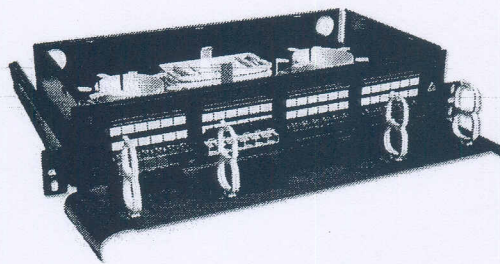
INSTALLATION PROCEDURE (FOR INDOOR USE ONLY)

This instruction sheet covers the installation of the 2U S-LIU for indoor use only.

Shelf Description

The 2U S-LIU is a frame-mounted, pullout shelf that is designed to terminate up to 96 LC, 48 ST®, or 48 SC adapters. The shelf can also be used as a splice unit to store 48 single fusion splices, or 36 mass fusion splices. The overall dimensions of the shelf are 3.75 inches (96 mm) high, 17 inches (434 mm) wide, and 8 inches (204 mm) deep. The shelf displaces 2 rack units of frame space.

Contents of Shelf Unit



- (1) Main Shelf with Integrated Trough
- (2) Strain Relief Grommet
- (1) Shelf Cover (Not Shown)
- (4) #12-24 x 3/8-inch Screws
- (1) Label
- (1) Instruction Sheet
- (4) 3 inch drums

Figure 1. 2U S-LIU1 Shelf

As illustrated in Figure 1, the shelf contains a sliding tray with four holes in the rear for fittings/grommets that provide strain-relief for incoming nonmetallic Outside Plant (OSP) cable or LightGuide Building (LGBC) cable. Upon entering the shelf, the cable is prepared for either direct termination or splicing. Inside the shelf, wrap the buffered fibers around one of four 3-inch (76 mm) diameter storage drums before attaching the connector to the adapter and before splicing.

The shelf comes equipped with mounting brackets for a 19-inch frame. A kit of parts is available for mounting in a 23-inch frame (109172197).

The 2U shelf is available empty, e/w factory installed ganged adapter modules, and e/w factory installed fiber pigtails (see ordering information at the end of this document for available codes.)

CABLE INSTALLATION (FOR DIRECT TERMINATION)

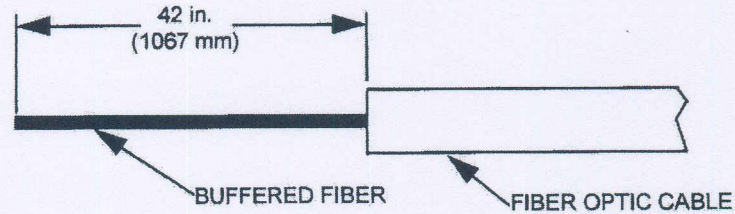


Figure 2. Preparing Fiber Optic Cables

1. Prepare the fiber optic cable(s) as shown in Figure 2.
2. If needed, adjust the cable diameter by wrapping the cable strain area with suitable tape to best fit within the fitting. Install the fitting onto the cable as shown in Figure 3.
3. Secure the cable egressing from the rear of the shelf to the frame with cable ties. Ensure proper cable slack remains to allow for sliding action of the shelf as shown in Figure 4.
4. Install appropriate connectors on buffered fibers using connector manufacturer recommended installation guidelines.

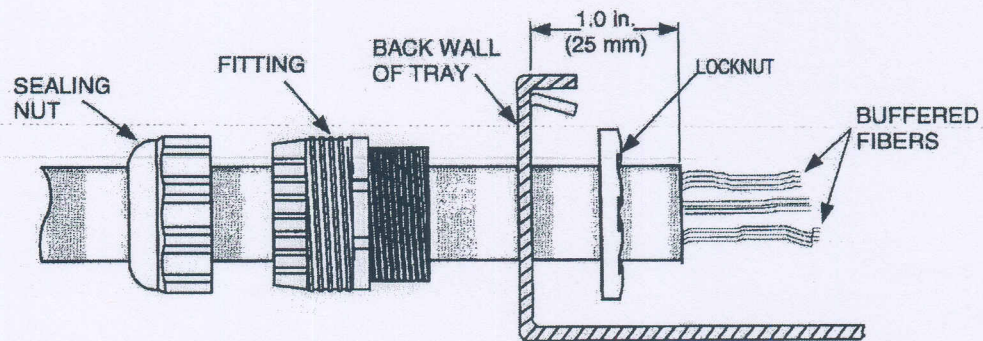


Figure 3. Securing the Fiber Optic Cable(s)

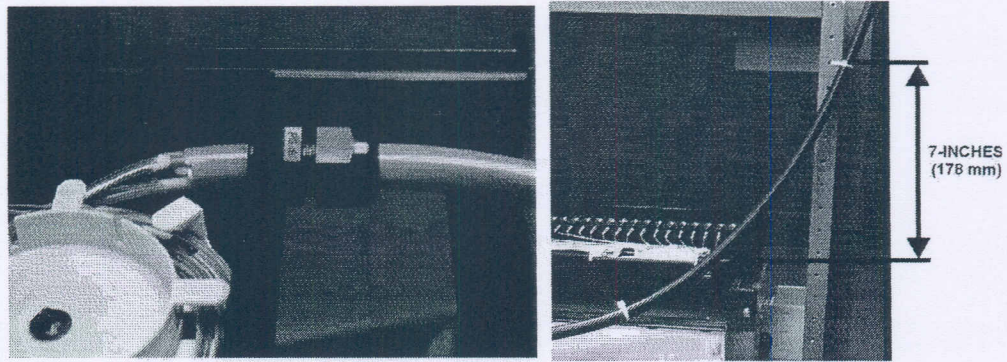


Figure 4. Cable Installation

5. Route the buffered fibers with connectors around the storage drum(s) and fan the fibers to the ganged adapters modules, which have been inserted into the panel (see Figure 5). Utilize the lower storage drums for the lower adapters and the top storage drums for the top row of adapters.
6. Install the plastic cover plate over the installed fiber to protect and retain the fibers within the shelf.

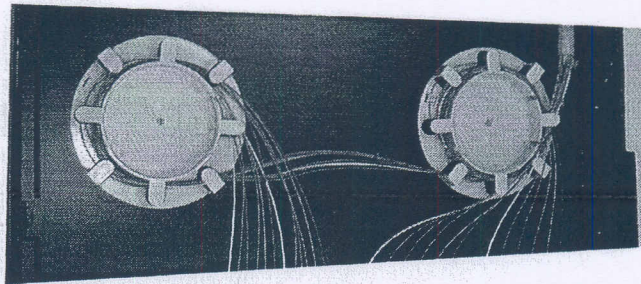


Figure 5. Routing Buffered Fibers in Tray

CABLE INSTALLATION (FOR SPLICING)

1. When pigtail splicing is required install splice organizers into the tray as shown in Figure 6 and 7. Splice organizers are sold separately except when the product is ordered with pigtails or fan-outs.
2. Prepare the fiber optic cable(s) as shown in Figures 2 & 3.
3. Secure the incoming fiber optic cable(s) using the cable strain-relieve fitting(s) as described above (see Figure 4).

4. Organize the fibers within the splice organizers (Figure 6) and then perform splicing. Splice the lower level pigtails on the first splice organizer and the higher-level pigtails on the upper splice organizers.

Place splices into the splice organizers following recommended fiber color code. Position numbers on splice organizers are shown for demonstration purposes only.

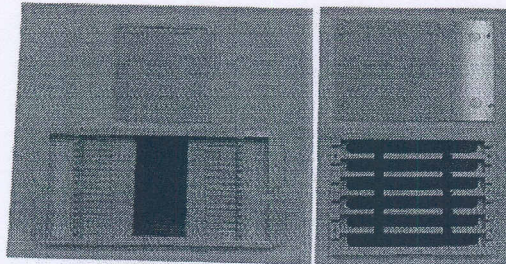


Figure 6. Single Fusion Splice tray on the left. Mass Fusion splice tray on the right.

5. Dress slack and spare fibers around the storage drum(s) as shown in Figures 5.
6. Three splice organizers and bracket is added to the shelf when splicing is required. The splice organizers are attached to the shelf by sliding the splice organizers into the detachable bracket. The bracket is attached by inserting the bracket into the tabs on the base of the shelf.

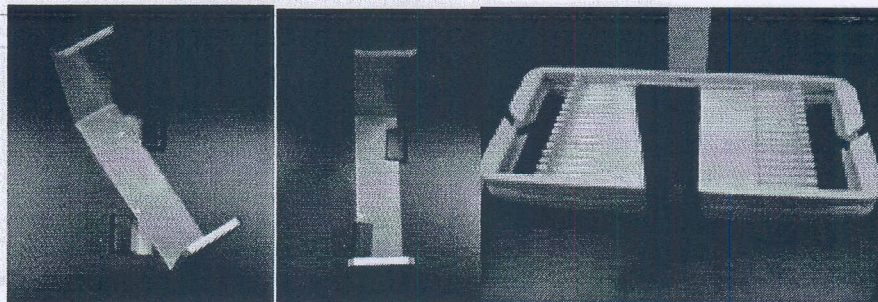


Figure 7. Installing bracket and splice tray in shelf

Ordering Information:

1U SLIU Instruction Sheet

2U F-LIU EMPTY - Fixed Shelf, 2 grommets and cover only

2U S-LIU EMPTY - Sliding Shelf, 2 grommets and cover only

Fixed 2U Shelves

2U F-LIU LC36 Beige - Fixed Shelf with 3 LC MM Beige ganged adapters

2U F-LIU LC48 Aqua - Fixed Shelf with 4 LC MM Aqua ganged adapters

2U F-LIU LC48 Beige - Fixed Shelf with 4 LC MM Beige ganged adapters

2U F-LIU LC48 Blue - Fixed Shelf with 4 LC SM Blue ganged adapters

2U F-LIU SC12 Aqua - Fixed Shelf with 2 SC MM Aqua ganged adapters

2U F-LIU SC12 Beige - Fixed Shelf with 2 SC MM Beige ganged adapters

2U F-LIU SC12 Blue - Fixed Shelf with 2 SC MM Blue ganged adapters

2U F-LIU SC24 Aqua - Fixed Shelf with 4 SC MM Aqua ganged adapters

2U F-LIU SC24 Beige - Fixed Shelf with 4 SC MM Beige ganged adapters

2U F-LIU SC24 Blue - Fixed Shelf with 4 SC MM Blue ganged adapters

2U F-LIU SC36 Aqua - Fixed Shelf with 6 SC MM Aqua ganged adapters

2U F-LIU SC48 Aqua - Fixed Shelf with 8 SC MM Aqua ganged adapters

2U F-LIU SC48 Beige - Fixed Shelf with 8 SC MM Beige ganged adapters

2U F-LIU SC48 Blue - Fixed Shelf with 8 SC SM Blue ganged adapters

2U F-LIU ST24 Aqua - Fixed Shelf with 4 ST MM Aqua ganged adapters

2U F-LIU ST24 Beige - Fixed Shelf with 4 ST MM Beige ganged adapters

2U F-LIU ST24 Blue - Fixed Shelf with 4 ST SM Blue ganged adapters

Fixed 2U Shelves with pigtails

2U F-LIU SC48 BLUE PT - Fixed shelf with 8 SC SM Blue ganged adapters, single fusion splice trays and 48 SM SC pigtails

Sliding 2U Shelves

2U S-LIU LC36 Beige - Sliding Shelf with 3 LC MM Beige ganged adapters

2U S-LIU LC48 Aqua - Sliding Shelf with 4 LC MM Aqua ganged adapters

2U S-LIU LC48 Beige - Sliding Shelf with 4 LC MM Beige ganged adapters

2U S-LIU LC48 Blue - Sliding Shelf with 4 LC SM Blue ganged adapters

2U S-LIU SC12 Aqua - Sliding Shelf with 2 SC MM Aqua ganged adapters

2U S-LIU SC12 Beige - Sliding Shelf with 2 SC MM Beige ganged adapters

2U S-LIU SC12 Blue - Sliding Shelf with 2 SC MM Blue ganged adapters

2U S-LIU SC24 Aqua - Sliding Shelf with 4 SC MM Aqua ganged adapters

2U S-LIU SC24 Beige - Sliding Shelf with 4 SC MM Beige ganged adapters

2U S-LIU SC24 Blue - Sliding Shelf with 4 SC MM Blue ganged adapters

2U S-LIU SC36 Aqua - Sliding Shelf with 6 SC MM Aqua ganged adapters
2U S-LIU SC48 Aqua - Sliding Shelf with 8 SC MM Aqua ganged adapters
2U S-LIU SC48 Beige - Sliding Shelf with 8 SC MM Beige ganged adapters
2U S-LIU SC48 Blue - Sliding Shelf with 8 SC SM Blue ganged adapters
2U S-LIU ST24 Aqua - Sliding Shelf with 4 ST MM Aqua ganged adapters
2U S-LIU ST24 Beige - Sliding Shelf with 4 ST MM Beige ganged adapters
2U S-LIU ST24 Blue - Sliding Shelf with 4 ST SM Blue ganged adapters

Splice Trays and Brackets

2U Mass Fusion Kit Holders 6 and bracket
2U Mechanical Splice Kit Holders 6 and bracket
2U Single Fusion Kit Holders 6 and bracket