SUMITOMO RECOMMENDED PROCEDURE

SRP SP-F05-002

Assembling UHFC Ribbon Breakout Box Installation

SUMITOMO ELECTRIC LIGHTWAVE CORP.
201 South Rogers Lane, Suite 100, Raleigh, NC 27610
(919) 541-8100 or 1-800-358-7378
www.sumitomoelectriclightwave.com
SEL is a Member of the Sumitomo Electric Industries, Ltd. Group

1.0 General

Please read and understand thoroughly the contents of this procedure before use. After reading, keep this procedure for future reference.

2.0 Safety Precautions

2.1 This document describes procedures that must be observed for safe installation of the UHFC Breakout Box in the Rack to avoid injury to people and damage to property. The meanings of indications and symbols are listed below. Read the text after understanding the contents of these labels.

DANGER:
Improper handling and ignoring the precautions is very likely to cause serious injury.

WARNING:
Improper handling and ignoring the precautions below may cause injury or even death.

- Do not secure on unstable place.
- Placing on unstable place such as a rickety stand or inclined place while carrying / mounting may cause injury by falling. Firmly secure the product on a stable place to prevent it from falling.
- Do not drop parts and / or tools.
- Take care not to drop parts and / or tools while working at height.

CAUTION:
Improper handling and ignoring the precautions below may cause injury or damage to equipment and property.

- Use added caution when opening / shutting doors or covers to avoid pinching hands or fingers.
- Watch out for protruding objects when bending down or standing up near cabinet.
- Take care when handling cable. Rigid cable may jump suddenly.

REQUEST:
Improper handling and ignoring the precautions below may prevent utilization of the breakout box or cause the suspension of functions.

- Always maintain minimum cable bend radius.
- For the optical fibers, do not exceed the minimum bend radius of 30 mm.
- For splicing of optical fiber, it is important to refer to the instruction manual provided with the splicing machine.

3.0 Reference Documents

SP-F02-031 3456f UHFC Slotted Core Ribbon Cable Preparation

SP-F02-036 5184f UHFC Slotted Core Ribbon Cable Preparation

4.0 Tools Required

The following is a list of tools and materials required to complete this procedure.

1. Philips head screw driver
2. Cutting Pliers
3. Utility Knife
4. Pliers
5. Tape Measure
6. Sumitomo Ribbon Separator Jig
7. Cable Cutter
8. Scissors
9. Gloves
10. Safety Glasses

7.0 Installation of the UHFC Breakout Box

7.1 Securing UHFC Breakout Box

Secure the UHFC Breakout Box housing to the rack at a pre-determined location near the top of the rack using provided hardware. Brackets available for 19 " or 23" rack. *See Appendix on p.5 for parts list.*

Figure 4

7.2 Installing UHFC Cable

Refer to cable entry document **SP-F02-031** 3456f UHFC Slotted Core Cable Preparation or **SP-F02-036** 5184f UHFC Slotted Core Cable Preparation.

The fiber lengths will need to be determined based on the location of the UHFC Breakout Box, location of the panel stack and the amount of slack required to be stored in each panel.

During cable preparation the ribbons should be separated into groups as needed for splicing into each panel.

Use ground cables to attach to the cable steel center member and also to the breakout box grounding lug. **See Figure 5**

Note: All cables used in the breakout box will be attached to the same grounding lug.

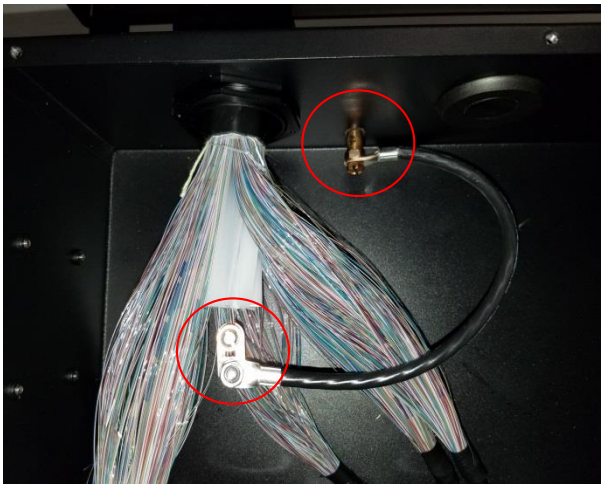


Figure 5

8.0 Installation of Transportation Sock and Fiber Routing

8.1 Separate Fibers into Transportation Socks

Sumitomo recommends using a different color mesh sock for each group of fibers required to splice into each panel.

Pull the pliable ribbons through the sock by taping the end of the ribbons to a dowel rod or piece of tubing.

Figure 6

The mesh sock should start inside of the UHFC Breakout Box(see figure 7)

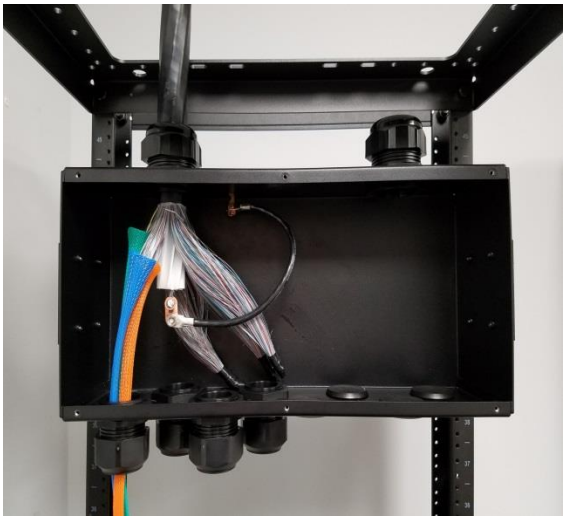


Figure 7

continuing to the panel breakout kit (Figure 8) and routing through flexible conduit (Figure 9).

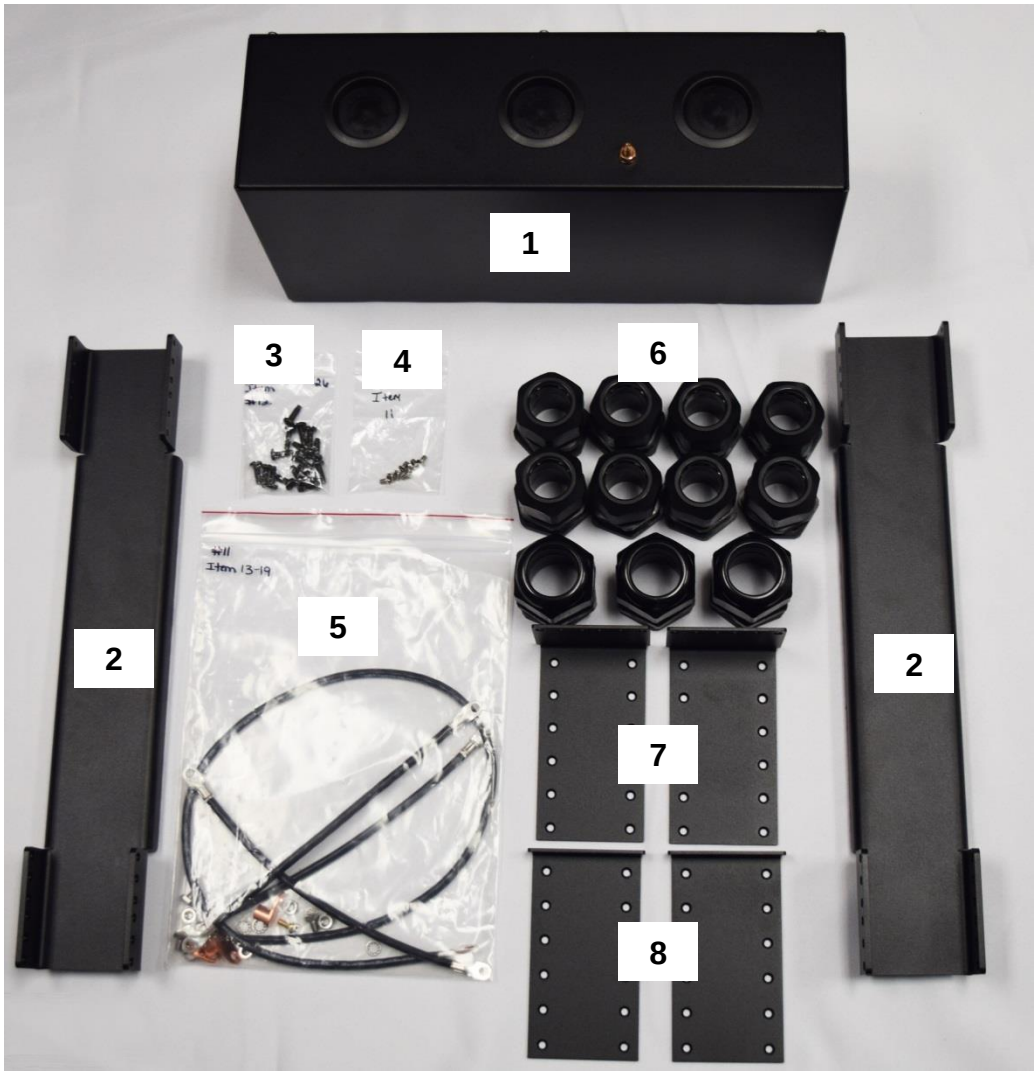
Figure 8

Figure 9

Route the transportation sock into the back of the panels as shown below.

Figure 10

Appendix



Parts List

1. (1) Ribbon Breakout Box
2. (2) Above rack mount installation brackets
3. (16) Rack screws
4. (8) Bracket screws for both 19” and 23” brackets (4 per bracket)
5. (3) short cables for cable ground, (1) long cable for grounding box to rack, (3) brass lugs for attaching steel center member and assorted nuts, bolts and washers.
6. (3) large glands for cable entry, (8) small glands for flex conduit to panels
7. (2) Inside mount brackets for 23” rack
8. (2) Inside mount brackets for 19” rack