

## SUMITOMO RECOMMENDED PROCEDURE

### SRP SP-F05-027

#### ST-01 Fiber and Ribbon Installation

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## 1. General

1.1 This procedure describes the standard techniques for installing fibers in Sumitomo Electric's ST-01 splice tray. It will review how to install single fibers and ribbon fibers into the splice tray. The ST-01 splice tray is capable of holding up to 12 single fiber splices or up to 12 mass fusion splices.

## 2. Safety Precautions

Wear safety glasses when working with bare optical fibers / fiber ribbons

## 3. Reference Documents

Sumitomo Recommended Procedure,  
 3.1 FutureFLEX Fiber Bundle Stripping Procedure  
[SRP SP-F04-006](#)

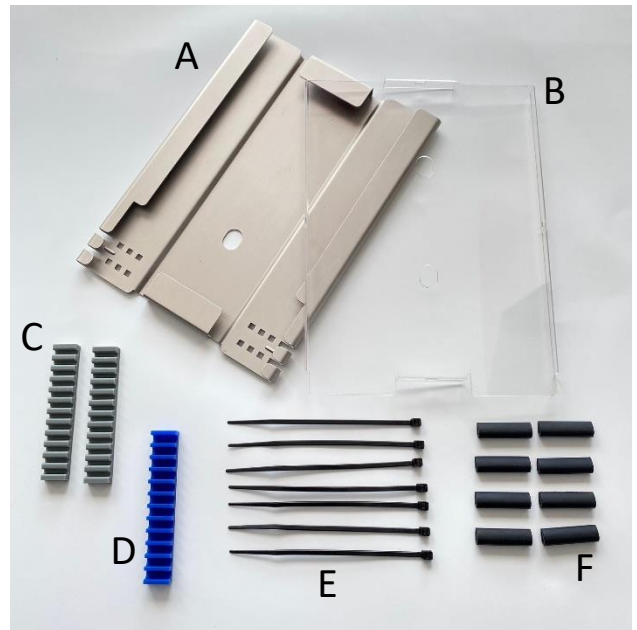
## 4. Equipment / Tools Required

4.1 The following equipment, tools, and materials are required to complete this procedure.

1. ST-01 Splice Tray
2. Multi-gage wire stripper (10 – 20 gage)
3. Fiber Stripper
4. Scissors
5. Fusion Splicer and related accessories (cleaver, cleaners, splice sleeves, etc.)
6. Tape Measure
7. Safety glasses
8. Marking pen

### 4.2 ST-01 Kit Components

- A. ST-01 Tray
- B. Cover
- C. Adhesive back single splice holder (2)
- D. Adhesive back mass fusion splice holder (1)
- E. Zip Tie (8)
- F. Fiber/Ribbon Retention Sleeve (8)

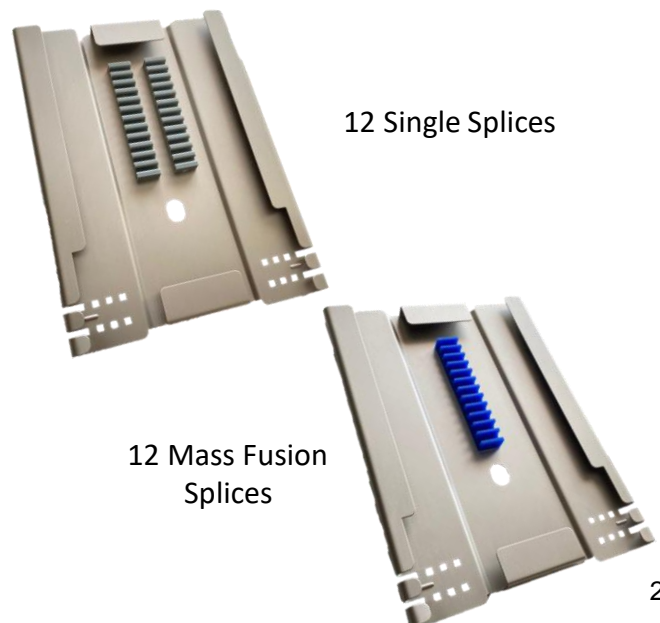


## 5.0 Fiber / Ribbon Installation

5.1 Remove cover from the splice tray

5.2 Select the appropriate splice holder for the type of splicing being performed.

5.3 Remove the backing from the splice holder and install onto the back of the splice tray.



**5.4** Prep cable and fibers to be installed into the splice tray.

**Note:** Refer to manufacturer's recommended procedures for cable preparations.

**5.5** Once fibers have been prepared, secure the fibers or ribbons to the splice tray with included zip ties. Do not to overtighten the zip ties.

**Note:** Install zip ties with buckle on the back/outside of the tray.

**5.6** Fiber/Ribbon retention sleeves are required for fibers or ribbons that are being installed without tubing. Up to 12 fibers or 4 ribbons can be installed in each retention sleeve.

**Note:** Zip ties may need to alternate slots when using the fiber/ribbon retention sleeves.

**5.7** Prepare each fiber/ribbon for splicing.

**5.8** Splice each fiber/ribbon per the manufacturer's instructions.

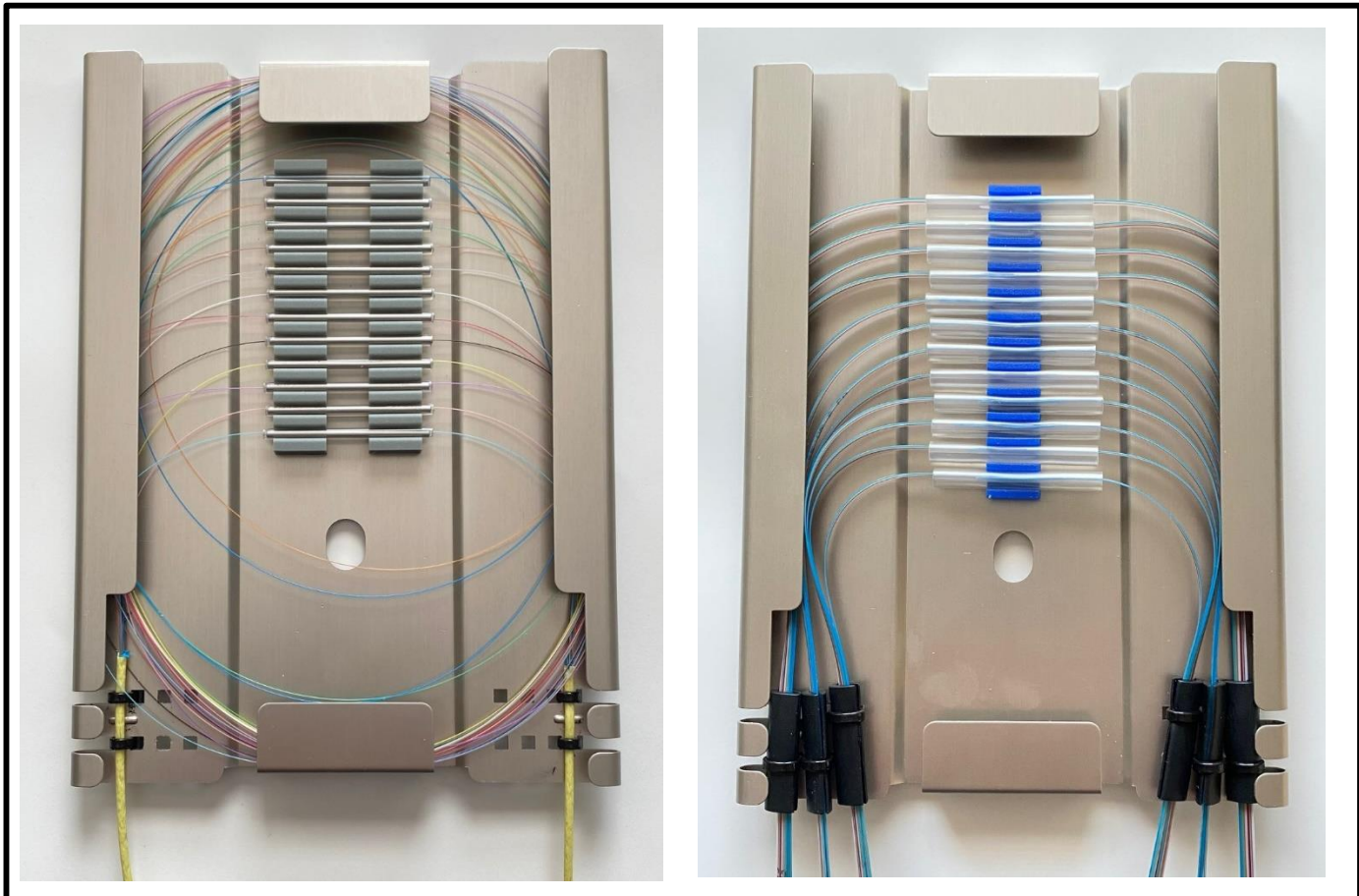
**Note:** Place the splice tray as close as possible to the splicer to reduce the possibility of breaking fibers.

**5.9** Install each splice into the splice holder and route excess fiber/ribbon within the tray. See **Figure 1** for recommended fiber and ribbon routings.

*Be sure not to exceed the minimum bend radius at all times to avoid damage to the fibers or ribbons.*

**5.10** Place cover back onto splice tray.

**Figure 1**



**Note:** Ribbon slack storage will need to be secured exterior to the splice tray.