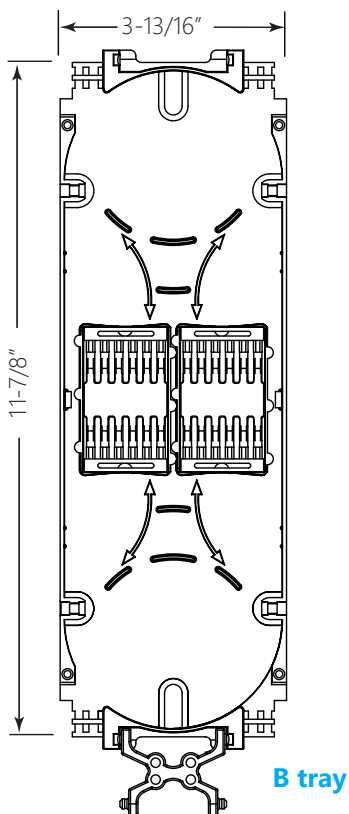
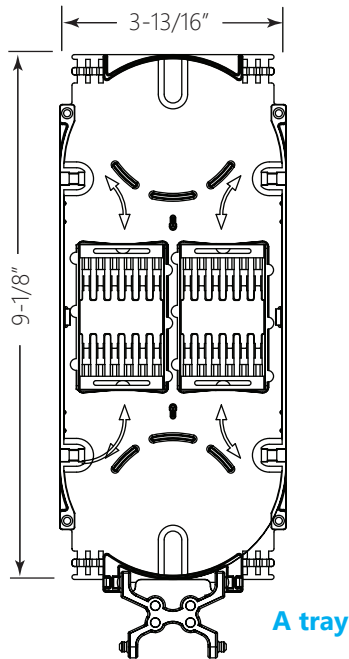


FIBER OPTIC SPLICE CLOSURE TRAYS: A AND B SIZE

For FOSC 400 or 450 A and B



1 General product information

Important: Read and follow all safety precautions and warnings documented in the appropriate closure installation instructions.

The A and B size trays are standard splice trays designed for use in CommScope FOSC fiber optic splice closures and related products.

1.1 A Tray Details

FOSC A trays are designed for use in FOSC 400 A, FOSC 450 A, FOSC 450 BS and related products.

Trays are typically equipped with splice modules to accommodate a variety of splice types, and have a maximum capacity (see Section 3) of 48 single fiber splices and 144 mass fusion fibers (12 fiber ribbon x 12 splices).

Note: Ribbon applications: Ribbon trays are also available to accommodate ribbon splicing and storage on the same tray.

1.2 B Tray Details

FOSC B trays are designed for use in FOSC 400 B, FOSC 450 B and related products.

Trays are typically equipped with splice modules to accommodate a variety of splice types, and have a maximum capacity (see Section 3) of 48 single fiber splices and 144 mass fusion fibers (12 fiber ribbon x 12 splices).

Note: Ribbon applications: Ribbon trays are also available to accommodate ribbon splicing and ribbon storage on the same tray.

2 Kit Components

Each FOSC A or B splice tray kit consists of:

- Splice tray with cover
- Tray routing tabs
- Appropriate type/quantity of splice modules

3 Tray Ordering Information

3.1 Tray Kit Information

Tray Kit	Quantity of modules in tray kit	Type of splice module included in tray kit	Splice types accommodated	Max. Qty of Splices accommodated per tray
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A Standard Type

FOSC-ACC-A-TRAY-12	2	SM-6 Splice Modules	Single Fusion Single Mechanical Mass Fusion	12 12 12 ¹
FOSC-ACC-A-TRAY-16	2	SM-8 Splice Modules	Single Fusion Single Mechanical	8 8
FOSC-ACC-A-TRAY-24	2	SM-12 Splice Modules	Single Fusion	24 ²
FOSC-ACC-A-TRAY-SS48-S45	2	SM-24 Splice Modules	Single Fusion	48 ³

A Ribbon Tray Type

FOSC-ACC-A-TRAY-SR12	1	SM-12R Splice Modules	Mass Fusion	12
FOSC-ACC-A/B-TRAY-12-RBN	2	SM-6 Splice Modules	Mass Fusion	12
FOSC-ACC-A B-TRAY-DR24	2	SM-12R Splice Modules	Mass Fusion	24

B Standard Type

FOSC-ACC-B-TRAY-12	2	SM-6 Splice Modules	Single Fusion Single Mechanical Mass Fusion	12 12 12 ¹
FOSC-ACC-B-TRAY-16	2	SM-8 Splice Modules	Single Fusion Single Mechanical	8 8
FOSC-ACC-B-TRAY-24	2	SM-12 Splice Modules	Single Fusion	24 ²
FOSC-ACC-B-TRAY-SS48-S45	2	SM-24 Splice Modules	Single Fusion	48 ³

B Ribbon Tray Type

FOSC-ACC-A/B-TRAY-12-RBN	2	SM-6 Splice Modules	Mass Fusion	12
FOSC-ACC-B-TRAY-SR12	1	SM-12R Splice Modules	Mass Fusion	12
FOSC-ACC-A B-TRAY-DR24	2	SM-12R Splice Modules	Mass Fusion	24

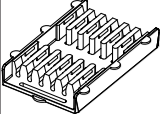
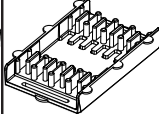
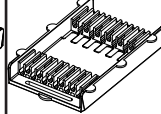
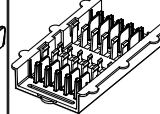
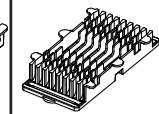
¹ Requires storage of ribbon slack in closure slack basket.

² CommScope SMOUV splice sleeves are highly recommended in these applications.

³ Comes equipped with 45mm long Commscope SMOUV splice sleeves required in these applications.

3.2 Splice Module Information

Depending on the selected kit, it may include the following splice modules:

Module Type	SM6 *	SM8 *	SM12	SM12R	SM24-S45
					
Max. Qty of Splices Single fusion	6	8	12	-	24
Max. Qty of Splices Mass fusion (Ribbon splices)	6	-	-	12	-

* Compatible with mechanical fusion.

4 Installation in FOSC 400 A, FOSC 400 B, FOSC 450 A, FOSC 450 B, and FOSC 450 BS Splice Closures

Note: The BS (B-Short) closure uses A type trays.

Note: It is recommended to use SM6 or SM8 for 900 micron splicing, due to the tray slack storage capacity.

4.1 “Butt” Splice Configuration

4.1.1. Install hinge in tray by inserting one hinge pin into the tray. Twist the hinge slightly to pop the other pin into the tray.

4.1.2. Install the hinged tray into the tray holder bracket of the closure. (Figure 1)

4.1.3. Use a pen to mark each tube 1/4" beyond the tie down slot. Use a buffer tube cutter to cut each tube at the mark and remove the excess tube from each group.

Note: Wrap buffer tubes with LBT wrap before tie wrapping to tray.

4.1.4. Cut the fibers to be spliced so that they are 26" near chamber, 42" far chamber in length. The 900 micron fibers may need to be cut closer to the lower end of this range due to the tray storage capacity.

4.1.5. Splice two fibers and store the splice sleeve in the splice module.

Note: Refer to Figure 6 for correct fiber routing, and some examples of incorrect fiber routing.

4.1.6. Gather slack fiber to be stored at one end of the tray. Fold the fiber loops over on themselves to form a coil roughly three inches in diameter. Lay the coil on the tray around the arcs. Fibers must be routed as shown in Figures 2 and 3

4.1.7. SM6: If splicing 12 fibers using SM6 splice modules, Route fibers 1-6 to one end of the tray, and route fibers 7-12 to the far end of the tray as shown in Figure 3.

Note: Maintain minimum 30 mm bend radius (2-3/8" diameter).

4.1.8. SM12: If splicing 24 fibers using SM12 splice modules, route fibers 1-12 to one end of the tray and fibers 13-23 to the other end of the tray.

Note: If a “tray crossover” is needed, refer to Figure 6. Use the center section of the tray to reverse the direction in which the fibers are stored.

4.1.9. SM24: If splicing 48 fibers using SM24 splice modules, route fibers 1-24 to one end of the tray and fibers 25-48 to the other end of the tray.

Note: When using SM24 splice modules, if fewer than 24 splices are required, the first position must be filled before moving on to the next. (See Figure 5)

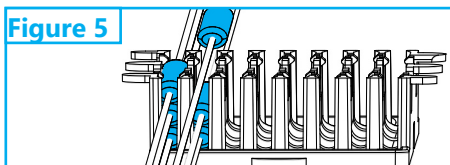


Figure 5

4.1.10. Install tray tabs to help contain fibers. (Figure 4)

4.1.11. Cover each splice tray with its protective plastic cover.

4.1.12. Coil and place uncut loose buffer tubes in the storage “sock” or basket provided with the closure kit. Hold the trays together and secure the sock to the bottom of the trays with the Velcro* fastener strap provided with the closure kit.

* Velcro is a trademark of Velcro Industries.

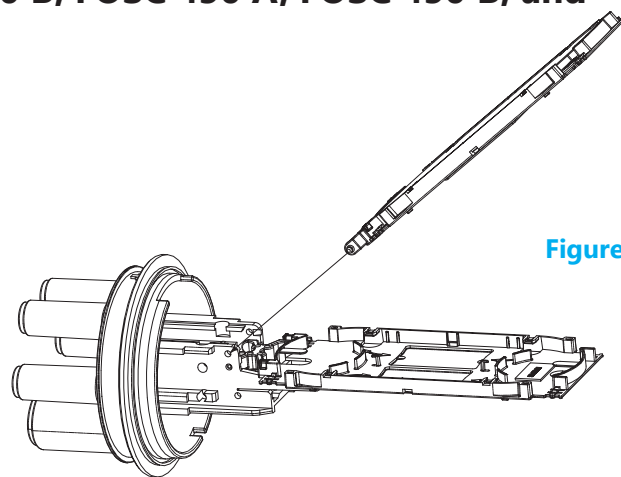


Figure 1

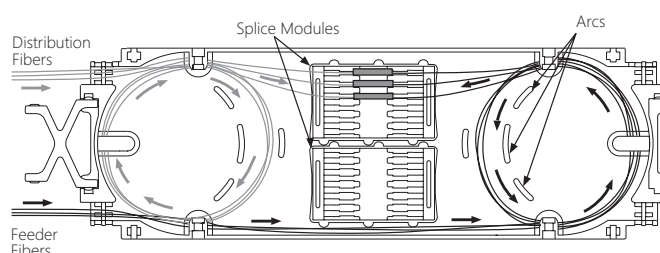


Figure 2

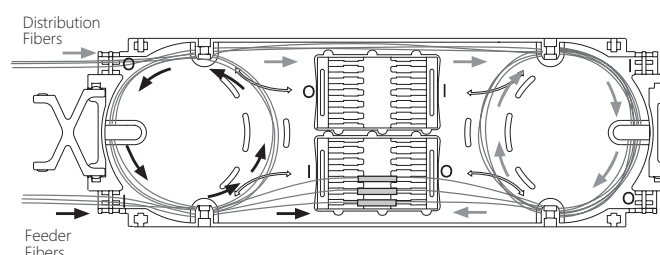


Figure 3

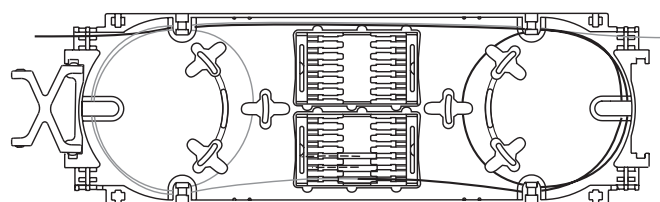
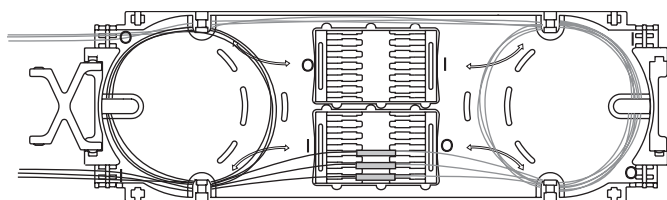


Figure 4

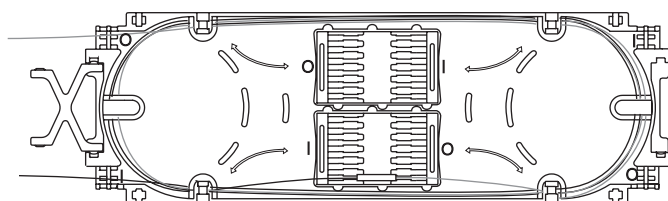
4.2 In-Line Closures

For in-line closure applications, if a “tray crossover” is needed, refer to Figure 6. Use the center section of the tray to reverse the direction in which the fibers are stored.

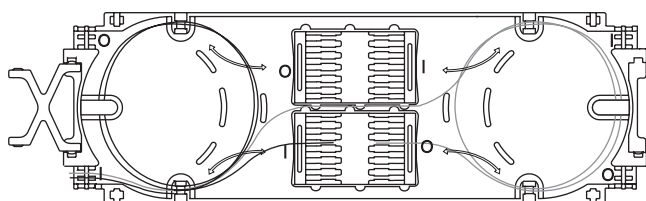
Correct Fiber Routing Patterns



End Storage Routing



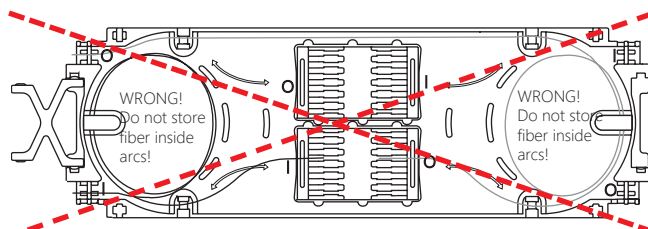
Perimeter Storage Routing



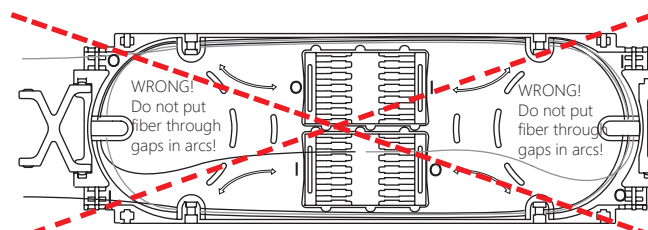
Crossover Routing (with End Storage)

Crossover Routing: Note that Feeder and Distribution fibers enter the tray at the same corner. This pattern is also required if fibers enter from diagonally opposite corners of the tray.

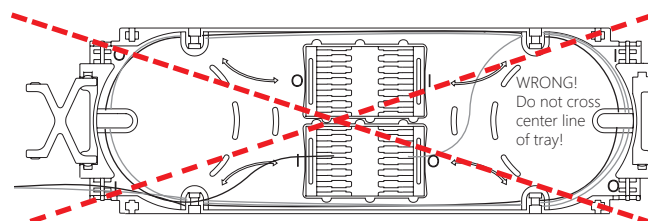
Incorrect Fiber Routing Patterns (Examples)



WRONG! Do not store fibers inside the arcs on the tray!



WRONG! Do not route the fibers through the arcs on the tray!



This pattern is wrong because the gray fiber incorrectly crosses the center of the tray to reach the lower splice module. The gray fiber should be routed via the “Crossover Routing” method as shown to the left to properly enter the lower splice module.

Figure 6: Correct and Incorrect Routing Patterns

5 Additional Ordering Information

Splice modules and SMOUV splice protection sleeves are also available separately. See below for ordering information.

5.1 Splice Modules

Splice Module Kit	Quantity per package	Splice Types Accommodated	Splices per Module
FOSC-ACC-SM6-MODULES	48	Single Fusion Single Mechanical Single Mass	8
FOSC-ACC-SM8-MODULES	48	Single Fusion Single Mechanical	8
FOSC-ACC-SM12-MODULES	48	Single Fusion NT-QPAK	12*

* Use of SMOUV splice protection sleeves is highly recommended in this application.

5.2 SMOUV Splice Protection Sleeves

SMOUV 1120 splice protector sleeves provide mechanical and environmental protection for fusion splices of single and ribbonized fiber.

SMOUV Splice Sleeve Sizes and Specifications

Product Name	Fiber Type	Lengths (in millimeters)		
		Tubing A	Adhesive B	Rod C
SMOUV 1120-01-US	Single	62	59	56
SMOUV 1120-02-US	Single	45	42	40
SMOUV 1120-03-US	Single	23	21	18
SMOUV 1120-R2/12-02-US	Ribbon	42	42	40

*Ceramic rod

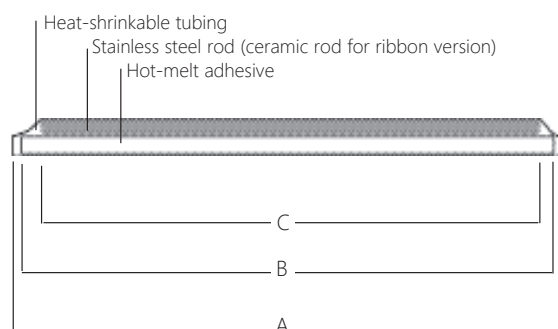
The SMOUV 1120 sleeve consists of:

- Clear outer heat-shrink material.
- Low temperature hot-melt adhesive to encapsulate the splice.
- Stainless steel rod for single fiber splices and a ceramic rod for ribbonized fiber splices to ensure proper alignment and rigidity.

SMOUV 1120 sleeves for single fibers are ideal for protecting single fusion splices of primary and secondary tight or semi-tight coated fibers.

SMOUV 1120 sleeves for multiple fibers are ideal for protecting mass fusion splices of ribbons with two to twelve fibers.

All SMOUV 1120 sleeves are compatible with the full range of CommScope fiber management systems and organizers.



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