3M

Fiber Optic Splice Tray 2527

Instructions

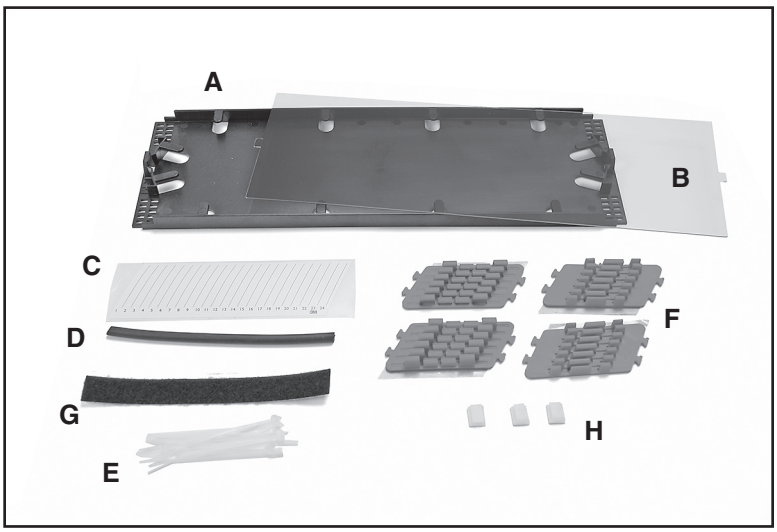
May 2007
78-8130-5833-2-D

1.0 General

1.1 The 3M™ Fiber Optic Splice Tray 2527 protects, organizes and stores a variety of splices. The tray stores 250-micron, 900-micron and all ribbon fiber sizes. It has been developed to accommodate 24 single fusion splices and 144 mass fusion splices. A 3.0" (76 mm) minimum bend diameter is maintained in the tray. All four corners have features which can accommodate three 3M™ Fiber Transport Tubes and oversized buffer tubes. The tray cover is made of a clear material for easily identifying the splices.

2.0 Kit Contents

a. Splice tray
b. Cover
c. Log label
d. 6" (150 mm) ribbon retention strip
e. Cable ties (12)
f. Adhesive-backed single fusion splice holder (2), adhesive-backed mass fusion or 3M™ Fibrlok™ Splice Holder (2)
g. 6" 3M™ Scotchmate™ Hook-and-Loop Reclosable Fastener SJ3527
h. Fiber saddle clips (3)



Note: ***Examine kit contents. Insure that all necessary components are present and that they are in a usable and defect-free condition.***

3.0 Available Kits and Accessories

3.1 3M™ Hook and Loop Strap Kit 2526
a. Hook material strap
b. Loop material tabs

3.2 3M closures and capacities

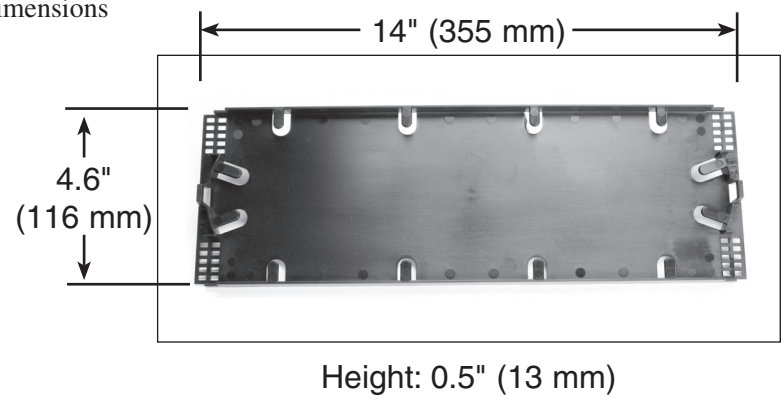
Closure	Number of 2527 Trays
2178-S[1]	2
2178-S + 81[1, 2]	2178S - 2 or 2181 L/S - 5
2178-LS[1]	7
2178-LS + 81[1, 2]	2178S - 7 or 2181 L/S - 10
2178-LL[1]	7
2178-XL[1]	12
SLiC 533	3
SLiC 733	6
SLiC 530	3

[1] Same splice capacities for FR versions

[2] 2181-LS Cable Addition Kit can be used to add additional cable entry ports or splice trays

4.0 Tray Dimensions and Capacities

4.1 Fiber optic tray dimensions



5.0 Splice Preparation

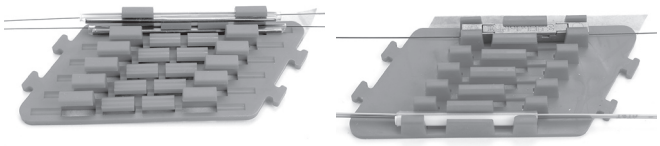
5.1 Remove the appropriate amount of sheath per the closure manufacturer's practice.

5.2 Clean the grease from the buffer tube(s) or ribbon(s) per the cable manufacturer's practice.

Note: Carefully follow health and safety information given on cleaning solvent container labels or Material Safety Data Sheet.

6.0 Fiber Management Inside Tray

6.1 Select appropriate splice holder based on type of splicing to be performed



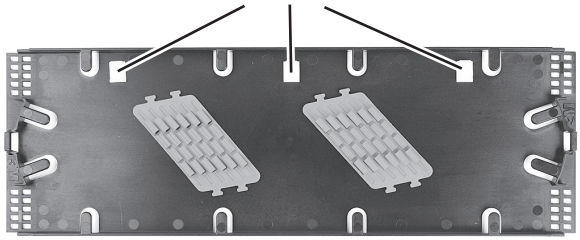
Discrete Holder (12) Mass Fusion Holder (6)

6.2 Remove adhesive backing and position splice holders on tray.

Note: Positioning of splice holders should be such that a minimum of 1.5 in. bend radius is maintained for each fiber to be spliced.

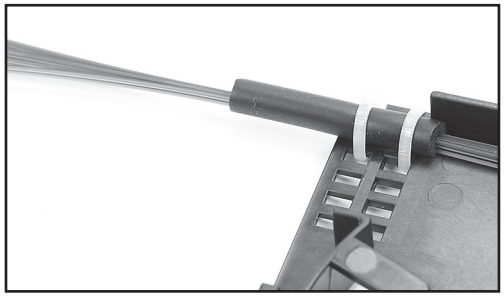
Note: In a contaminated environment, use your company-approved cleaner (i.e. isopropyl alcohol) to clean tray surface for better adhesion.

saddle clips used for fiber retention



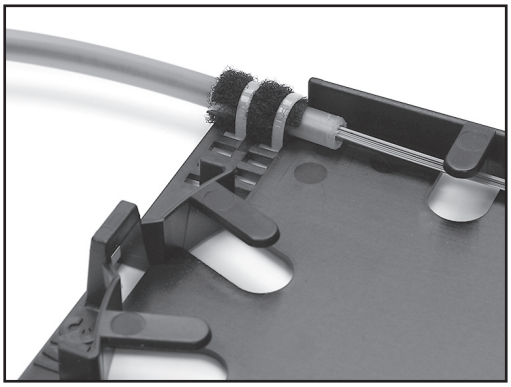
6.3 Route ribbon to desired tray corner. Place ribbon fiber into 1 to 1.5 in. of ribbon retention strip (cut segments as needed from supplied length) and secure assembly into tray using supplied cable tied. (A maximum of 6 ribbons can be loaded into each retention grommet segment).

Note: Do NOT use pliers to tighten cable ties to tray. Cable ties should be hand tightened such that ribbon or buffer tube are immobilized. Over tightening can cause microbends, damage to buffer tubes, or ribbon fibers.



Ribbon retention

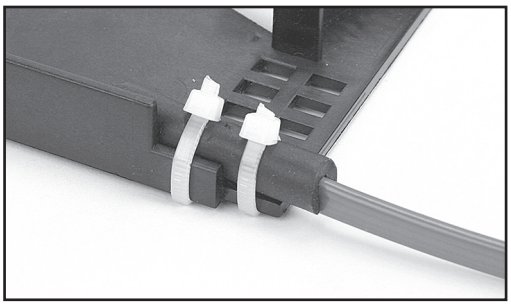
6.4 Route ribbon within transition tube to desired corner. Adhere 0.75 - 1.00 strip of Scotchmate to transition tubing (cut segments as needed from supplied length) and secure assembly into tray using supplied cable ties.



Ribbon with transition tubing

6.5 Route ribbon fanout to desired corner. Place ribbon fanout into 1 to 1.5 in. of ribbon retention strip (cut segments as needed from supplied length) and secure assembly into tray using supplied cable ties.

Note: ***In the SLiC 530 Terminals for Ribbon applications, the ribbon fanout can only be routed to the bottom corner of the tray on the side of the terminal where the ribbon fanout exits/enters the terminal box.***



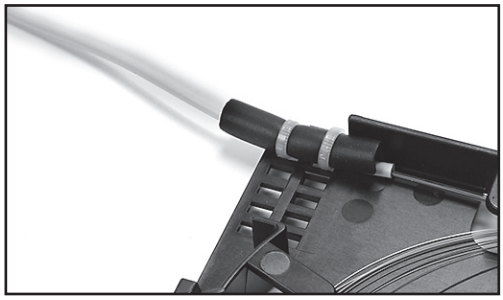
Ribbon fanout

6.6 Route buffer tube to desired tray corner. Secure loose buffer tube to tray using the supplied cable ties (as shown).

Note: ***Do not exceed minimum 1.5 in. bend radius during routing process.***

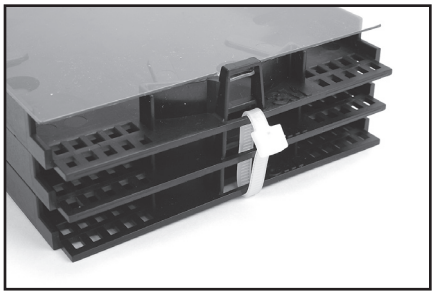
6.7 Splice fiber and place sleeves into splice holders.

6.8 Place label on tray cover where desired.

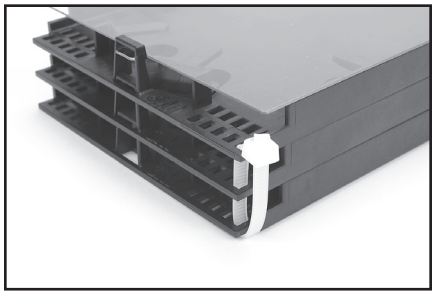


Discrete LBT

Methods for Securing Trays



Securing at tabs



Securing at corners

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