

FibreGuard™ Closure with SLIDE-N-LOCK™ Fiber Management

PREPARATION

Express Fiber Cable

1. From the expressed cable loop, identify and select the loose buffer tube with the fibers required for distribution and separate from the main group. (Figure 1)

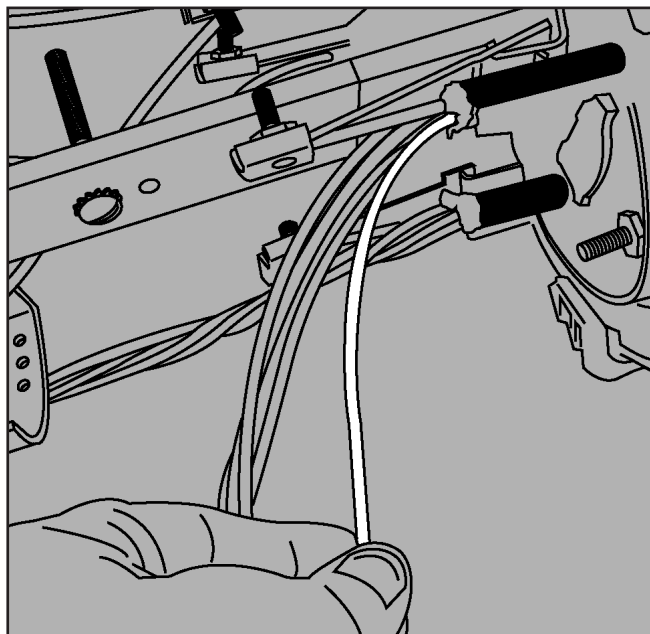


Figure 1

2. Identify which is the CO/Exchange (feed) side providing the service and cut the loose tube and fibers at the midway point approximately 2m (78") from the End Plate or as per company practice. (Figure 2)



Figure 2

3. Route the loose buffer tube inside the buffer tube bracket storage and management system keeping to the inside of the FANG™ Bracket (FG 800 & 650) or 500 Bracket (Fg500) and protected pin (End Plate end) until the final turn which passes through the outside guides of the FANG™ Bracket (Figure 3) or 500 Bracket. (Figure 3a)

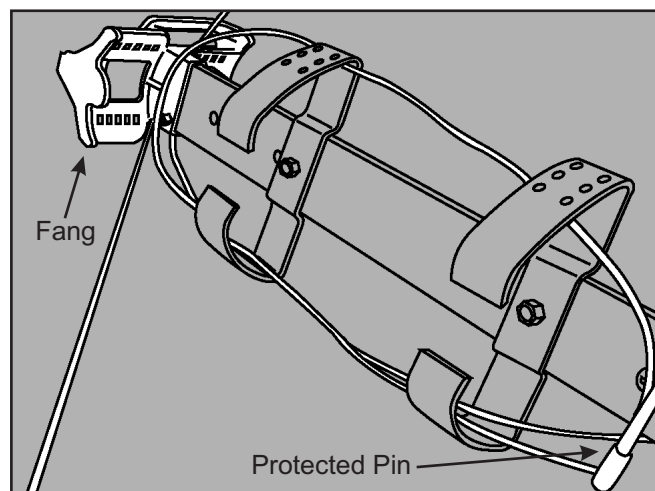


Figure 3

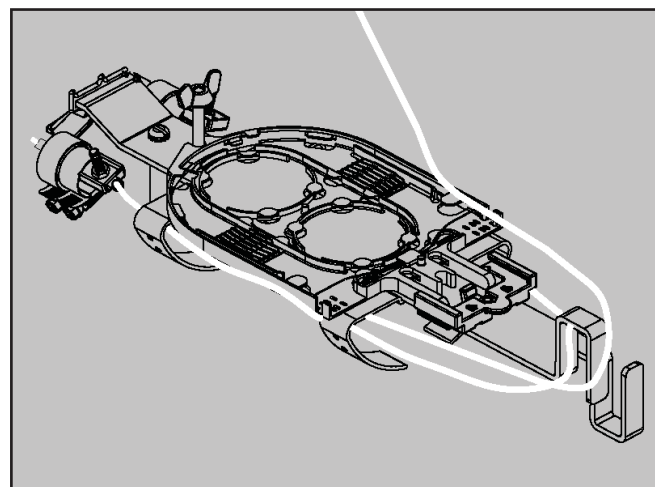


Figure 3a

4. Organize the loose buffer tube without stress or undue bending to enter the SLIDE-N-LOCK splice tray. (Figure 4)

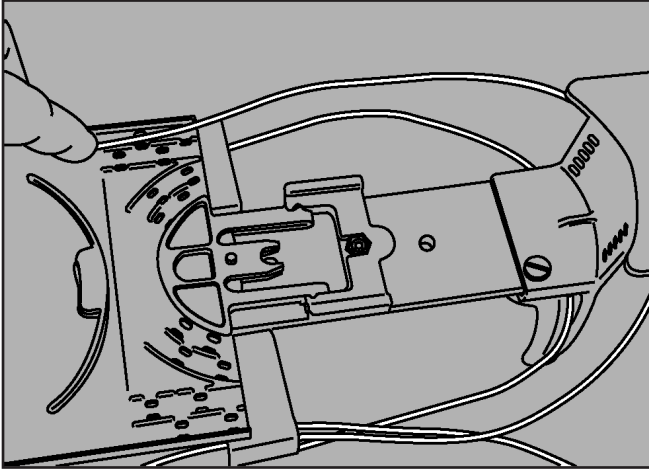


Figure 4

5. Mark the loose buffer tube at a point 50mm (2") inside the splice tray. (Figure 5)

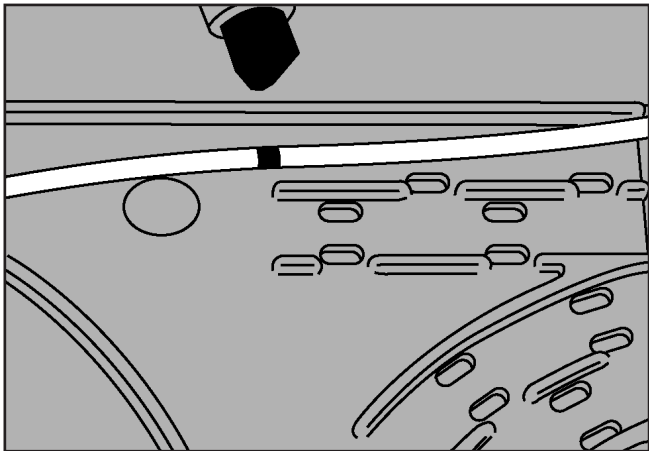


Figure 5

6. At the mark, use approved company tools and practice to remove the loose buffer tube to expose the fibers. (Figure 6)

OCC Tip: Complete this job by removing a number of short manageable tube lengths a piece at a time.

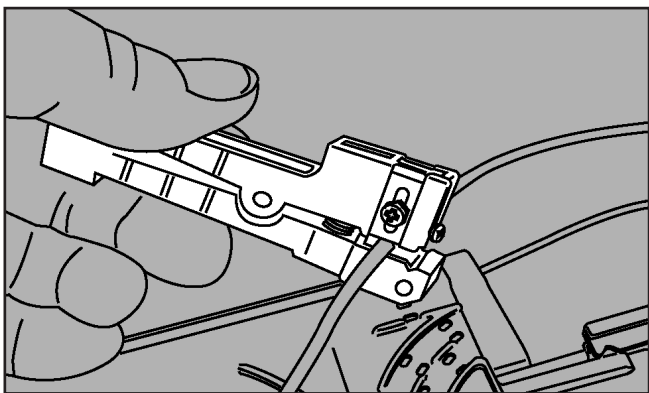


Figure 6

7. With the cleaning wipe provided, carefully remove the grease and clean the exposed fibers. (Figure 7)

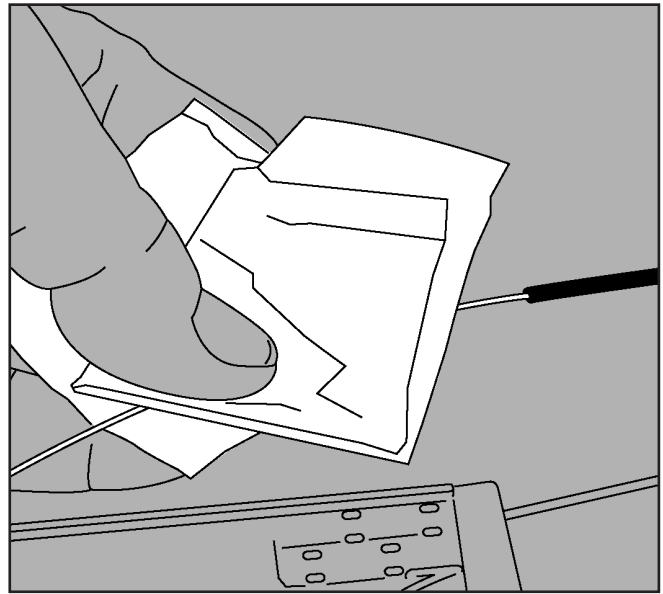


Figure 7

8. Apply 2 turns of protective sticky blue felt to the buffer tube 10mm (0.5") from the cut end. (Figure 8)

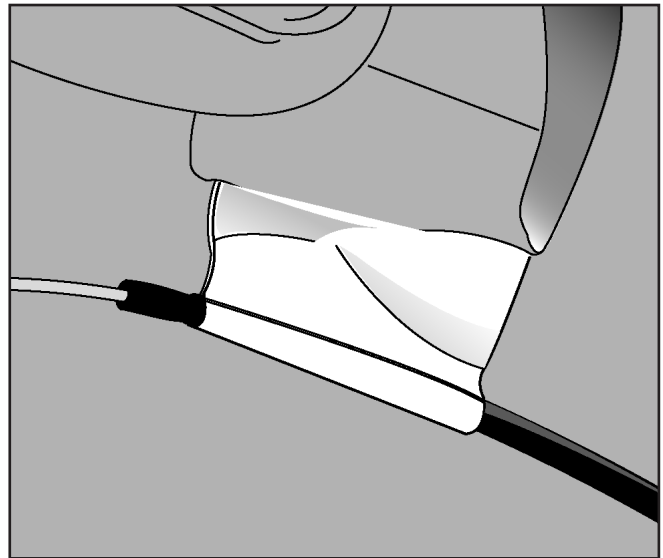


Figure 8

9. With the ties provided, secure the loose buffer tube in two slotted positions on the SLIDE-N-LOCK splice tray over the blue felt. (Figure 9)

OCC Tip: Organize the cleaned fiber group inside the SLIDE-N-LOCK splice tray.

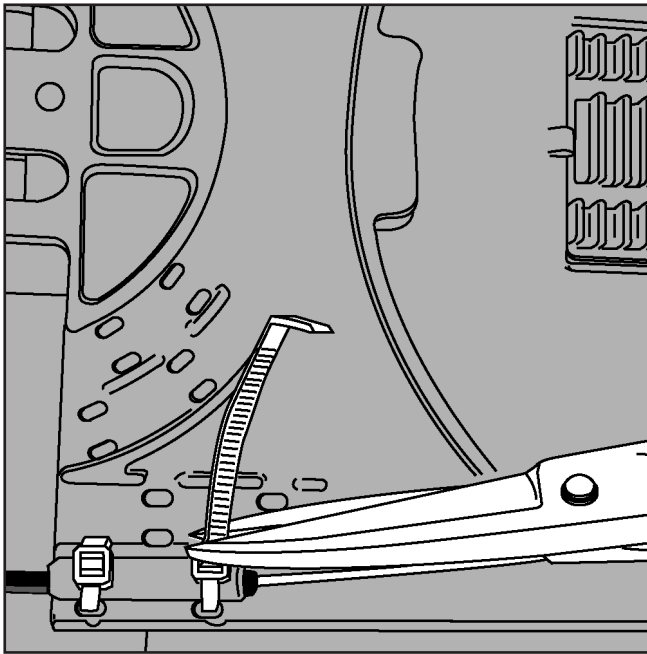


Figure 9

Drop Fiber Cable

10. Prepare the appropriate “drop cable” loose buffer tube to be spliced to the previously prepared “express cable” following steps 3 through 9. Once prepared, attach the “drop cable” loose buffer tube with the ties provided to the SLIDE-N-LOCK splice tray opposite side to the secured express cable loose buffer tube. (Figure 10)

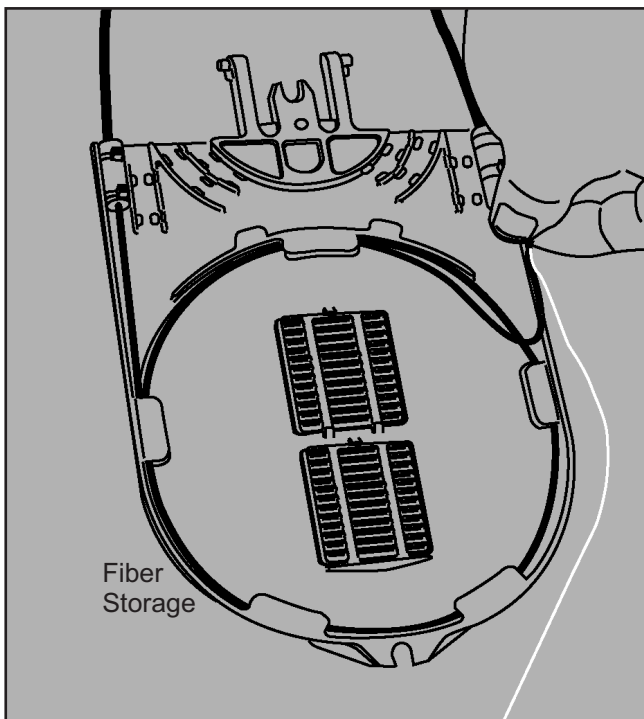


Figure 10

11. With the loose buffer tube attached, remove the SLIDE-N-LOCK splice tray from the SLIDE-N-LOCK splice tray bracket. (Figure 11)

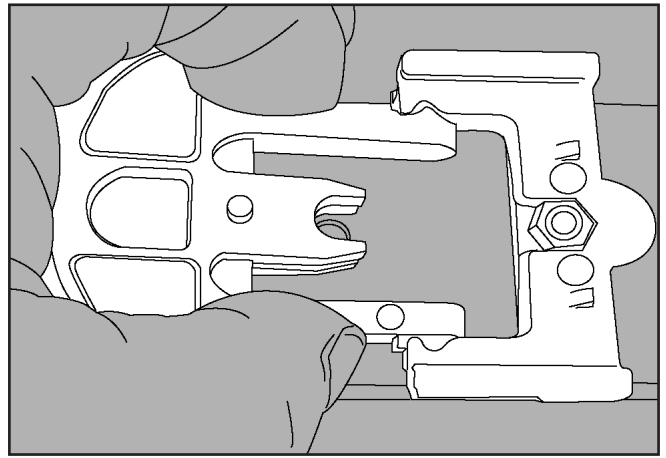


Figure 11

12. Extend in a straight line away from the splice area and cable butt. This will be your reference point for all-additional preparation and splicing (Figure 12)

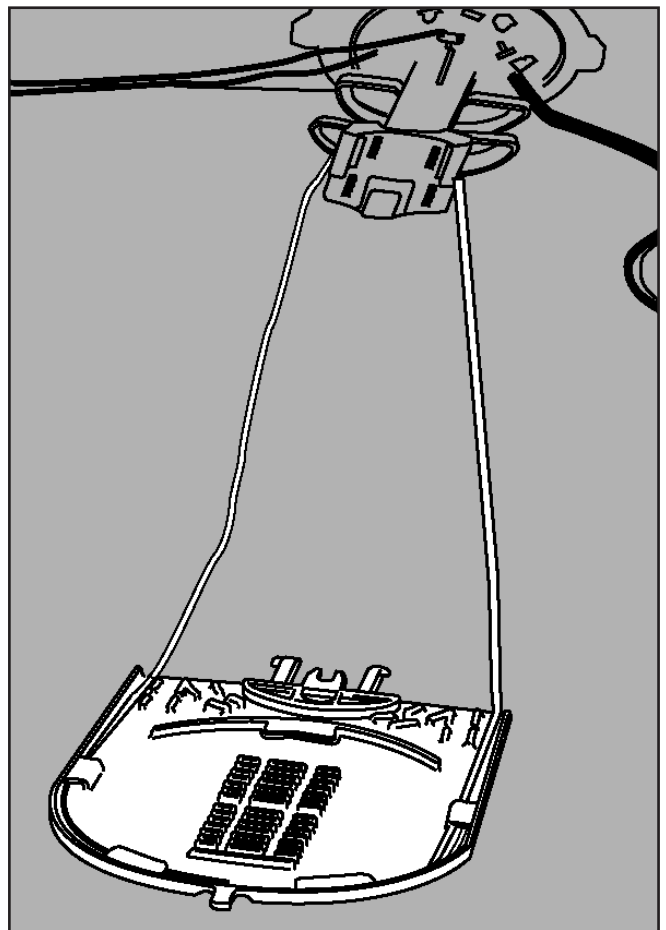


Figure 12

General Preparation

13. Prepare all “express” and “drop” loose buffer tubes and fibers to be spliced into additional SLIDE-N-LOCK splice trays following steps 3 through 12. (Figure 13)

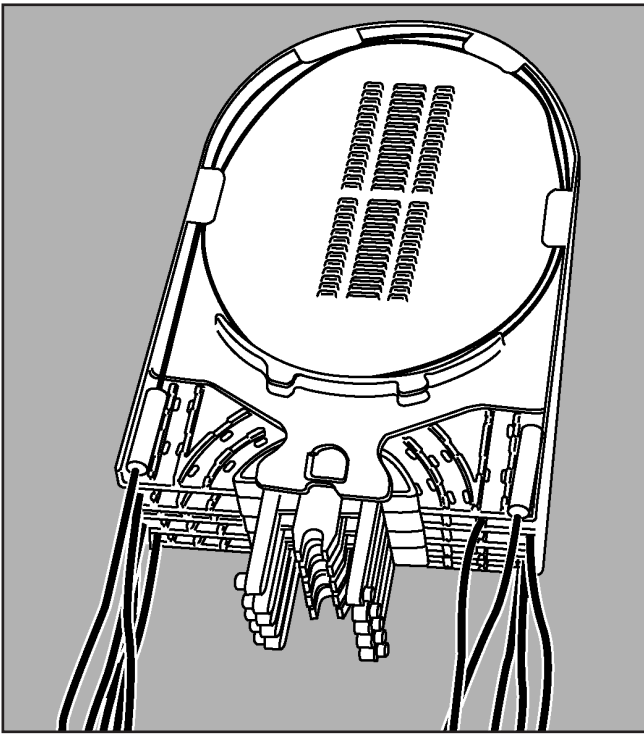


Figure 13

FIBER SPLICING

14. By color code, select the individual fibers from the “express” and “drop.” Buffer tubes should be spliced and route around the SLIDE-N-LOCK splice tray in opposite directions. Allow up to 1 meter (39”) of fiber to be stored each side of the splice. Cut an overlap of approximately 60mm (2.3”) at the point of splicing. (Figure 14)

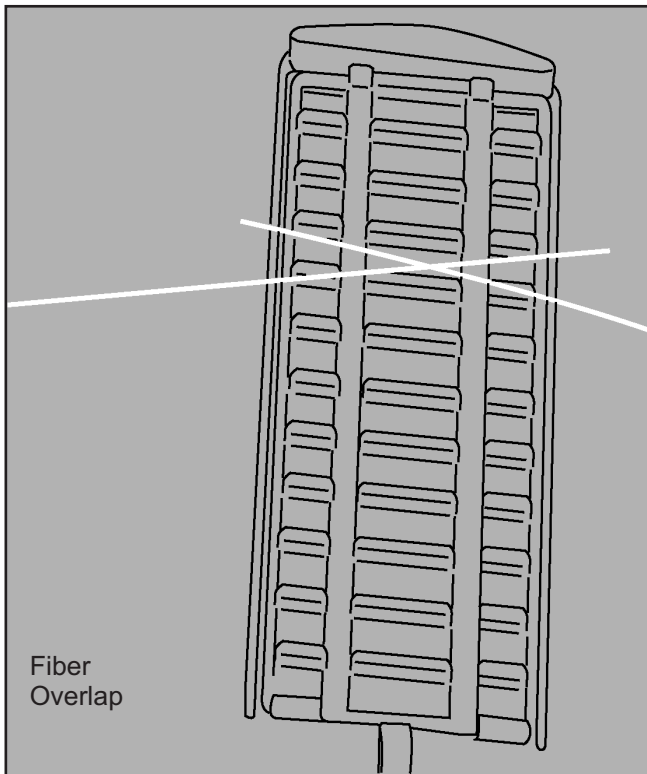


Figure 14

15. Select and carefully remove the two fibers to be spliced from splice tray. Position a splice protector over one fiber only away from the work area. Prepare, clean, and cleave both fibers for splicing as per company practice. (Figure 15)

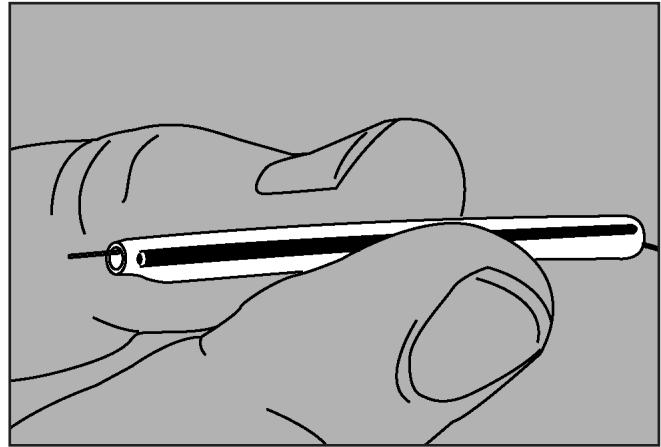


Figure 15

16. Splice the two prepared fibers together using tools and equipment as per company practices. Once the splice has tested acceptable, centrally position the splice protector over the fiber splice and shrink in position as per company practices. (Figure 16)

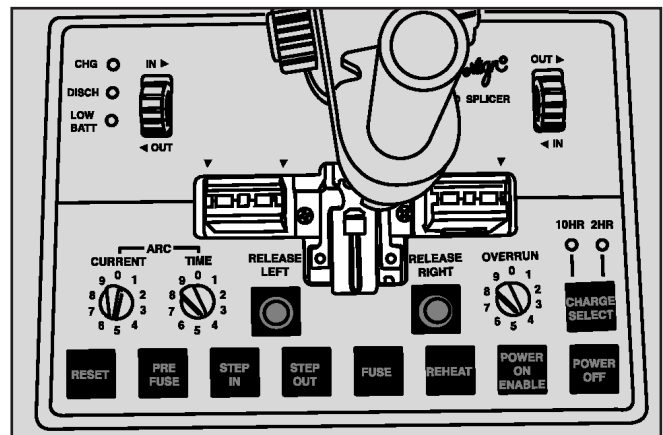


Figure 16

17. Once cool, reposition the splice protector back into the splice block. Carefully store and route the fiber around the splice tray with minimum bending. (Figure 17)

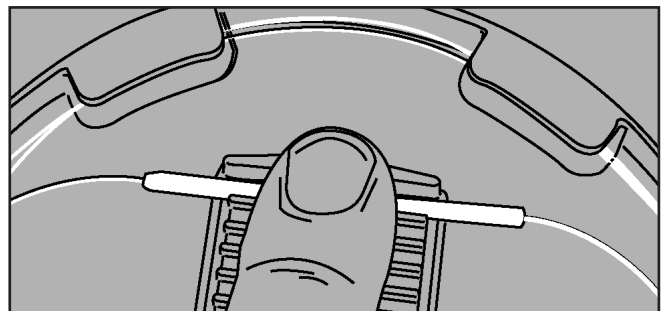


Figure 17

18. Continue the practice until the splice tray has been filled (24 splices). Introduce additional splice trays as required. (Figure 18)

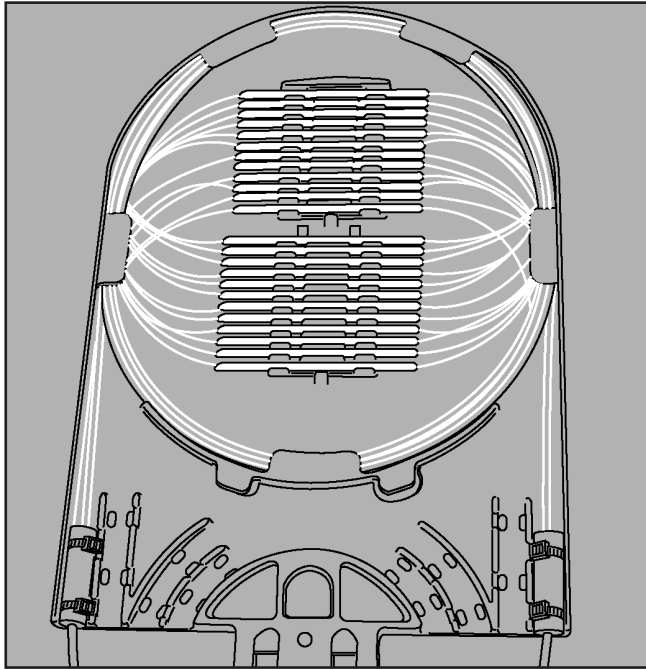


Figure 18

SPLICE PROTECTION

19. Protect the spliced fibers by fitting a tray cover to each completed SLIDE-N-LOCK splice tray. For FibreGuard™ 800 & 650 closures, locate the front cover indentations between the tray tabs and friction fit a larger third indentation into the bottom recess. (Figure 19)

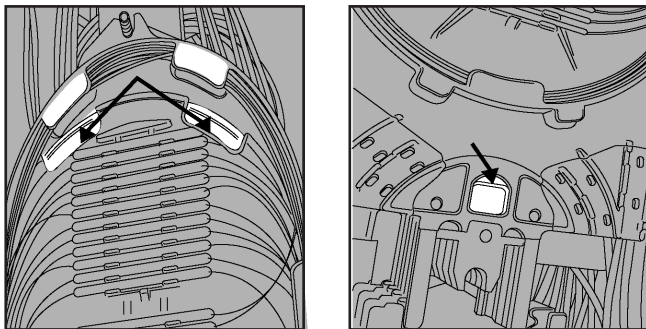


Figure 19

For the FibreGuard™ 500, slide the front of the cover between the tray tabs and bend the tray slightly to fit into a rear tray location.

OCC Tip & Upgrade: At times there is a need/advantage to route fiber in the opposite direction than provided by the “straight on” tray entrance. SLIDE-N-LOCK splice tray provides a facility allowing fibers to be routed from one entrance across the face of the tray and be organized to rotate in the opposite direction. (Figure 19a)

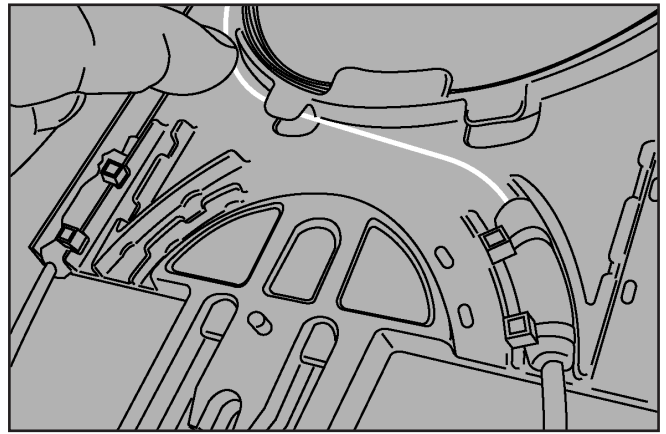


Figure 19a

SPLICE ORGANIZATION

20. Once the SLIDE-N-LOCK splice tray is full, re-route the buffer tubes back through the organization system keeping inside the FANG™ Brackets/500 Brackets and protected pin until the final lay-up onto the splice tray which is routed through the outside FANG™ guide (Figures 20 or 3) or 500 guide. (Figure 3a)

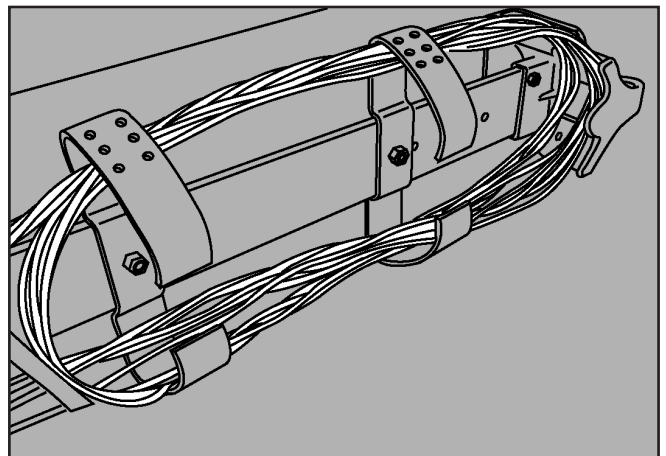


Figure 20

21. If necessary, buffer tube crossovers can be made within the bracketed organizational system. (Figure 21)

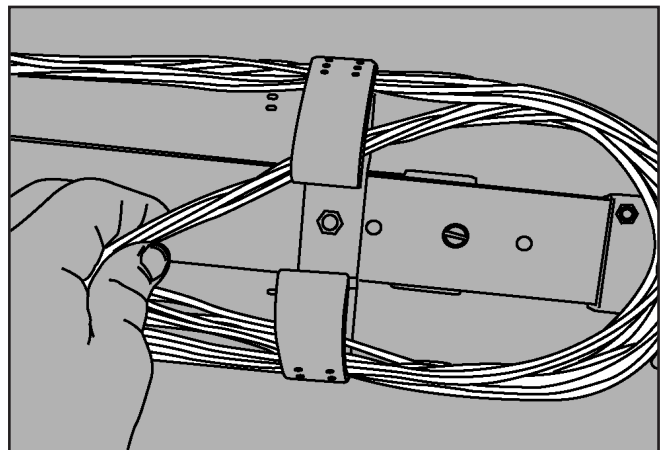


Figure 21

22. Replace the SLIDE-N-LOCK SPLICE tray with the spliced fibers securely back in the SLIDE-N-LOCK Bracket. (Figure 22)

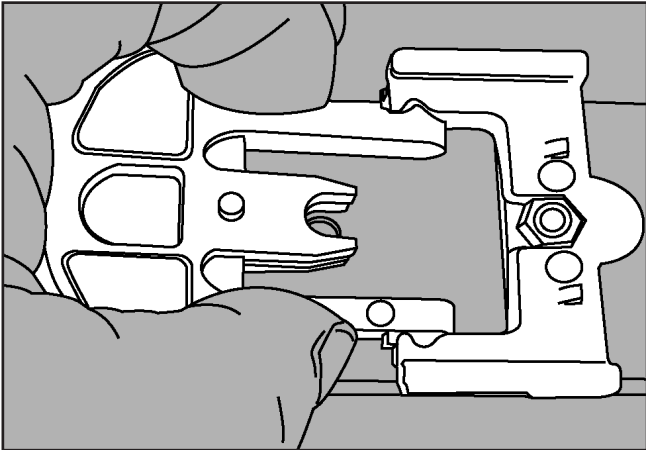


Figure 22

Additional Trays

23. To stack additional trays, first add another SLIDE-N-LOCK bracket to the one fitted to the mounting plate. Slide into position until the locking tabs engage. Additional units can be added up to the recommended SLIDE-N-LOCK splice tray capacity. (Figure 23)

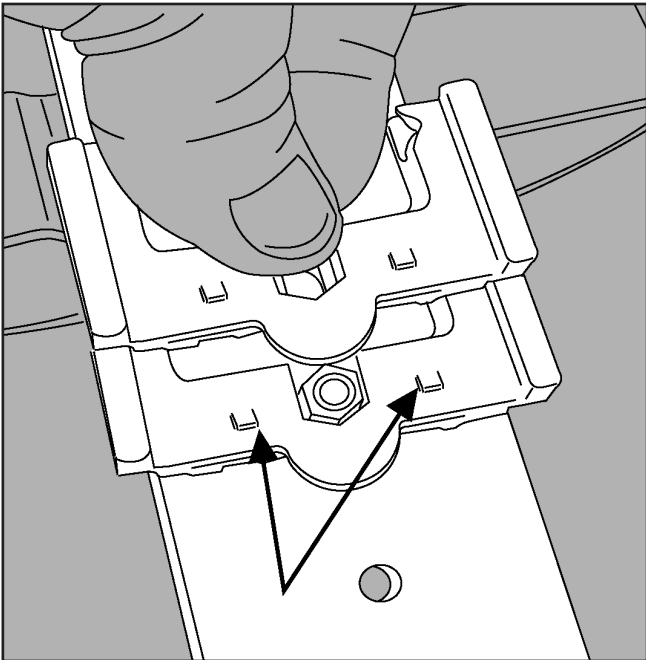


Figure 23

SECURE POSITIONING

24. Secure the stacked SLIDE-N-LOCK trays in position with a wing/butterfly nut. (Figure 24)

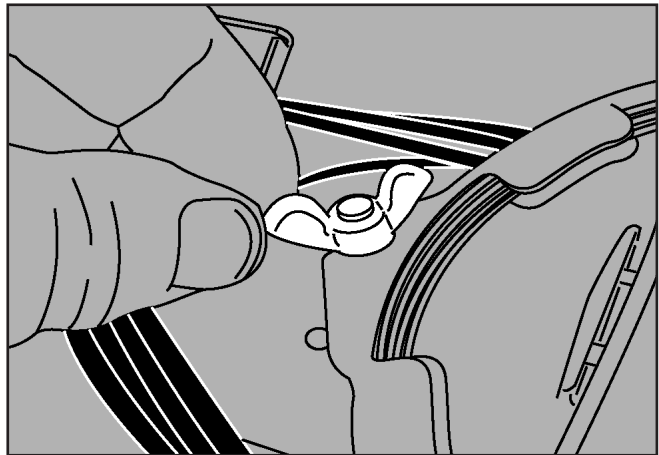


Figure 24

OCC Option & Tip: Individual fibers or groups of fibers can be fastened into a fixed position for additional stability on the buffer tube storage brackets and FANG™ Bracket. **NOTE:** Do not over-tighten and always remove the ties when maneuvering the splice trays. (Figure 24a)

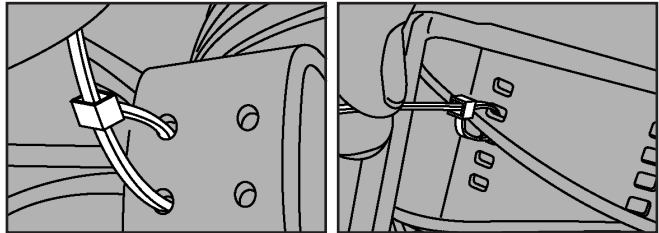


Figure 24a

25. The completed splice is now ready for the fitting of the FibreGuard™ Closure Dome. (Figure 25)
See Installation Procedures for FibreGuard™ Closures.

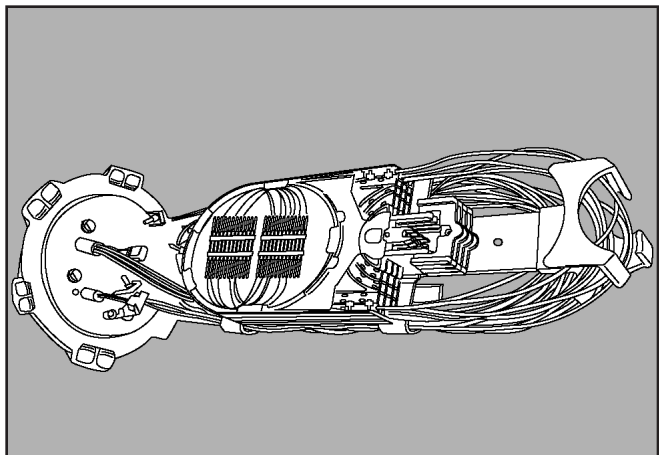


Figure 25

MAINTENANCE & SPLICE RE-VISITS

SMP SLIDE-N-LOCK Splice Tray technology and tips:

Individual splice tray access is made simple by the SLIDE-N-LOCK fiber organization system.

26. Simply raise, slide, and lock the stacked tray in one continuous upward - backward movement until the desired (horizontal) tray has been reached. (Figure 26)

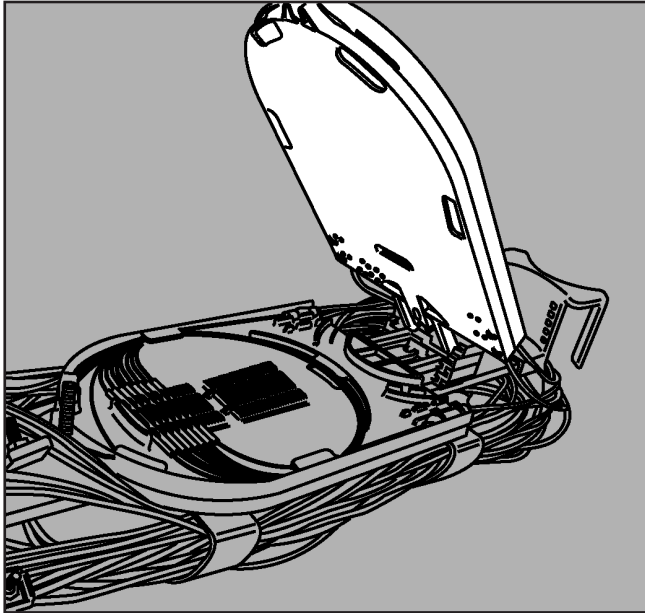


Figure 26

27. Any SLIDE-N-LOCK splice tray can be removed from the raised stack and positioned away from the splice for individual attention. (Figure 27)

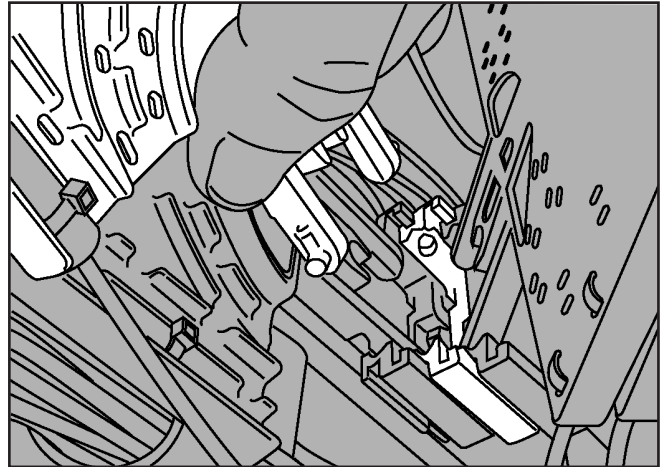


Figure 27

SAFETY CONSIDERATIONS

1. This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. **CAUTION: FAILURE TO FOLLOW THESE PROCEDURES AND RESTRICTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**
2. This product is intended for the specified application. **CAUTION: DO NOT MODIFY THIS PRODUCT UNDER ANY CIRCUMSTANCES.**
3. This product is intended for use by trained craftspeople only. This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.
4. When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
5. For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size OCC products before application.
6. OCC products are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.



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