

CORNING

Corning® Optical Splice Enclosure-RXD

P/N 003-1047-AEN, Issue 5

related literature | Search www.corning.com/opcomm. Click on "Resources/Standard Recommended Procedures."

[004-281-AEN](#)

[Instruction, Sheath Removal of 1728-Fiber RocketRibbon™ Extreme-Density Cable](#)

[004-098](#)

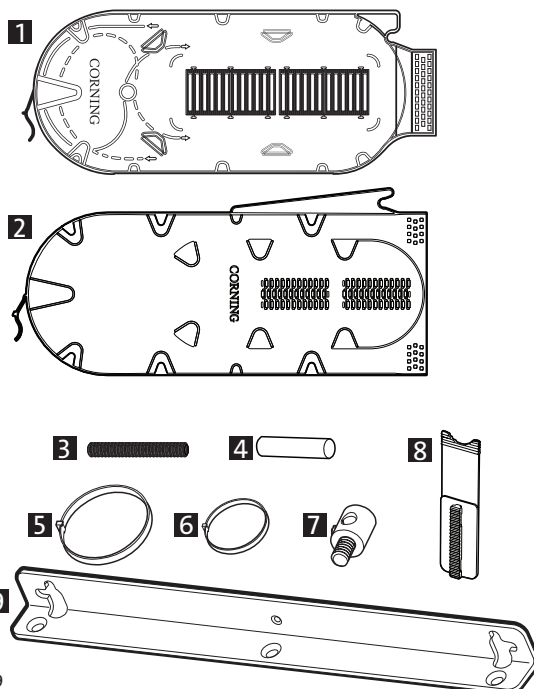
[Instruction, Ribbon Splitting Tool \(RST-000\)](#)

1. General

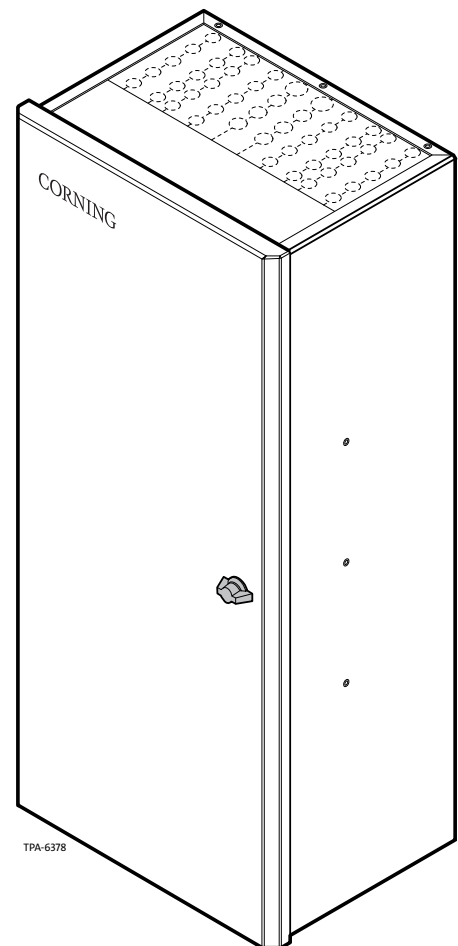
This document describes the installation of the RocketRibbon™ Extreme-Density Optical Splice Enclosure (RXD).

2. Carton Contents

- RocketRibbon™ Extreme-Density Optical Splice Enclosure (P/N RXD-OSE-1 or RXD-OSE-1L, RXD-OSE-1-HD, or RXD-OSE-1L-HD)
 - 1 (24) 288f Splice trays (RXD-OSE-1 or RXD-OSE-1L)
 - 2 (24) 576f Splice trays (RXD-OSE-1-HD, or RXD-OSE-1L-HD)
 - 3 (192) Corrugated tubing
 - 4 (192) 2-in heat-shrink tubing
 - 5 (200) 10.75-in cable ties
 - 6 (200) 4-in cable ties
 - 7 (1) Ground lug
 - 8 (54) Cable retention clips
 - 9 (2) Mounting brackets



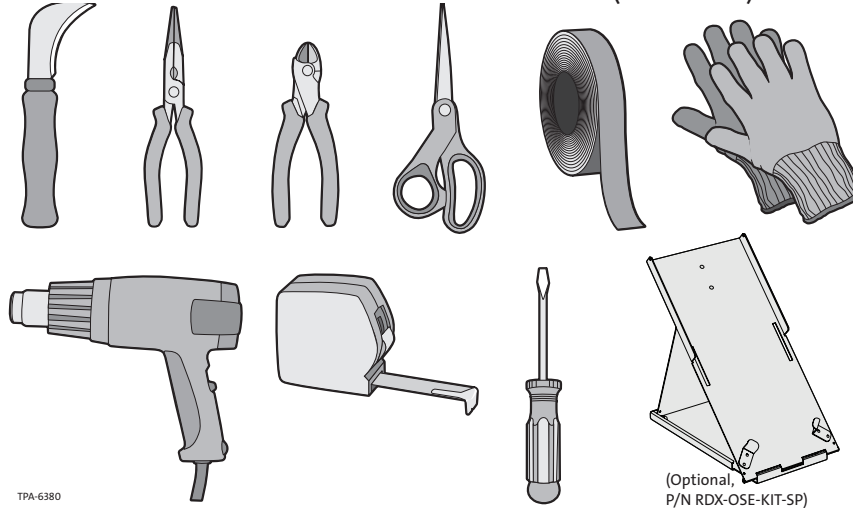
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3. Tools and Materials Required

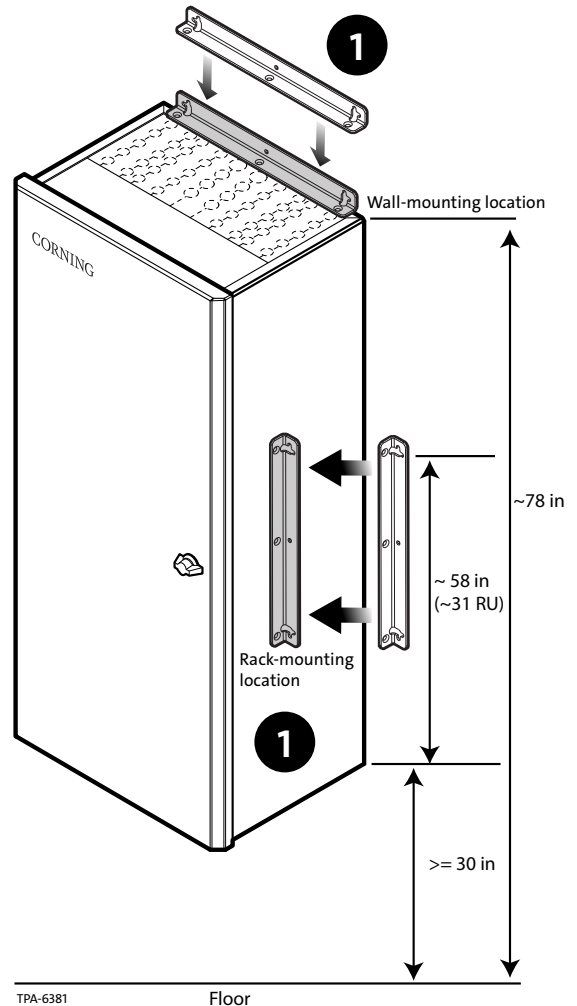
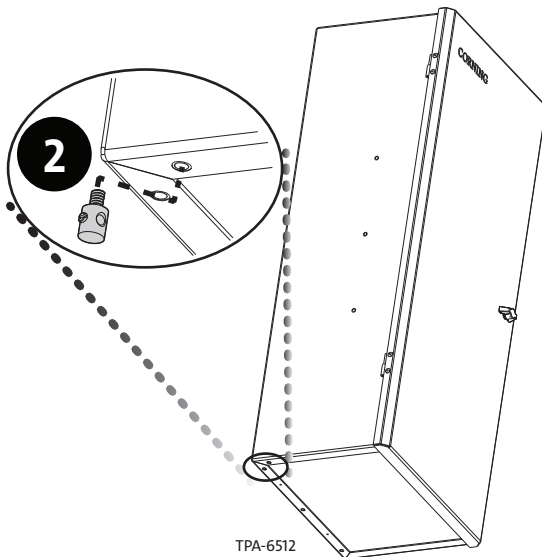
- Utility knife with hook-blade and straight blade
- Needle-nose pliers
- Diagonal cutting pliers (side cutters) (P/N 100300-01)
- Scissors (P/N 100294-01)
- Friction tape
- Gloves
- Heat gun
- Screwdriver
- Tape measure (P/N 2102003-01)
- (OPTIONAL) Service platform



4. Installation

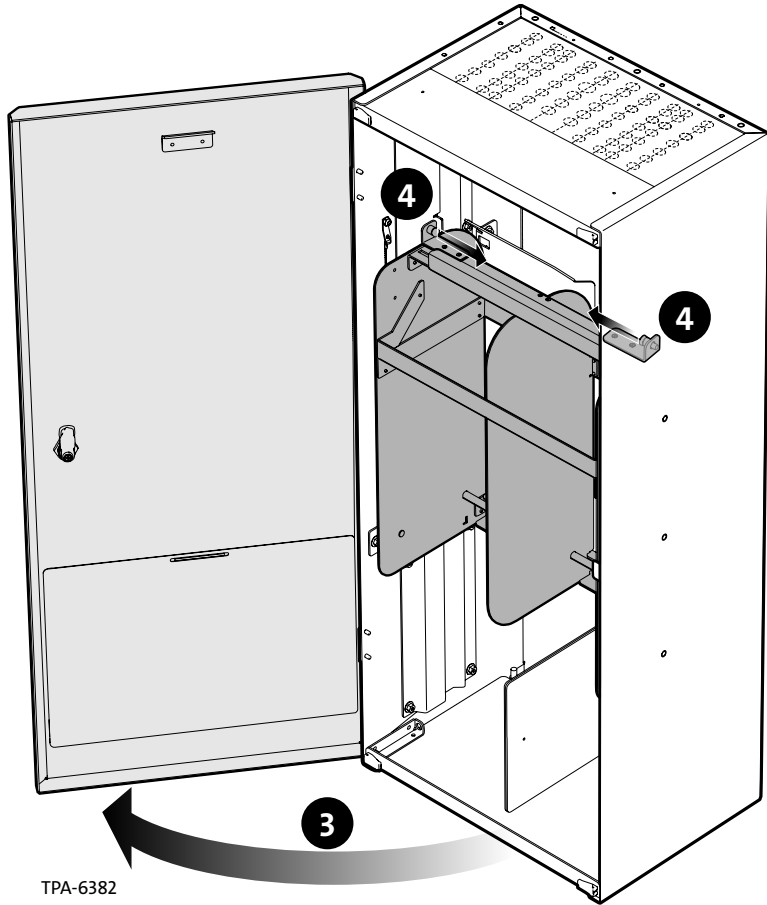
Step 1: Use one of the brackets to mark the initial mounting position, then install mounting bracket for 19-in rack or wall mounting. Mount in desired location using fasteners appropriate for the mounting surface.

Step 2: Ground the cabinet per local codes and standard company procedures.



Step 3: Rotate latch to open door.

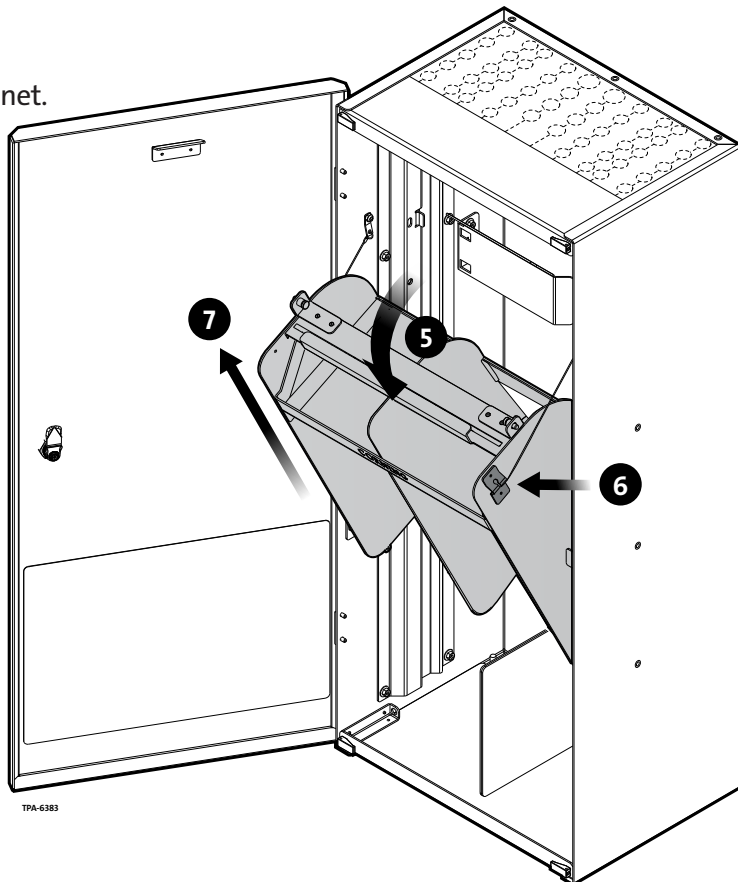
Step 4: Release plungers on each side of the tray housing.



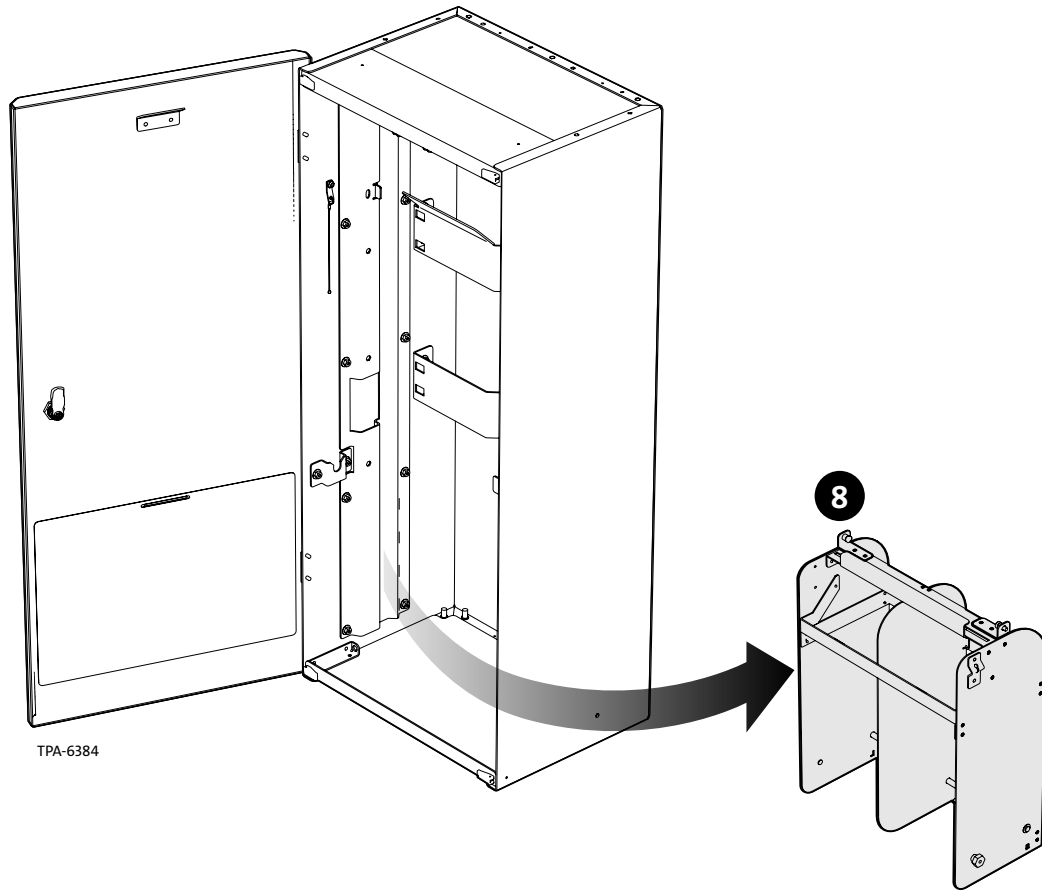
Step 5: Rotate housing downward.

Step 6: Unclip safety lanyards.

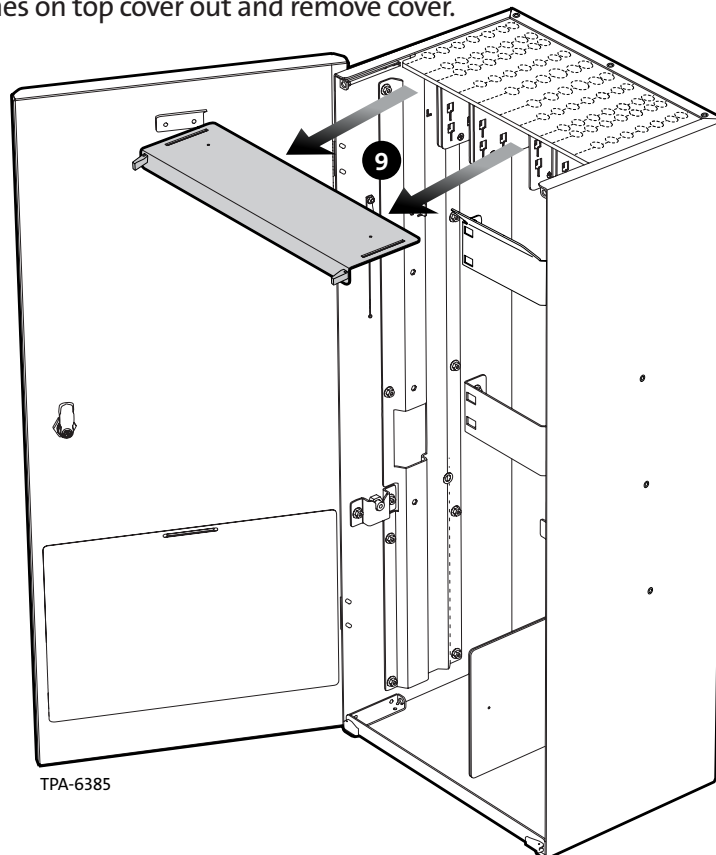
Step 7: Lift tray housing out of the cabinet.



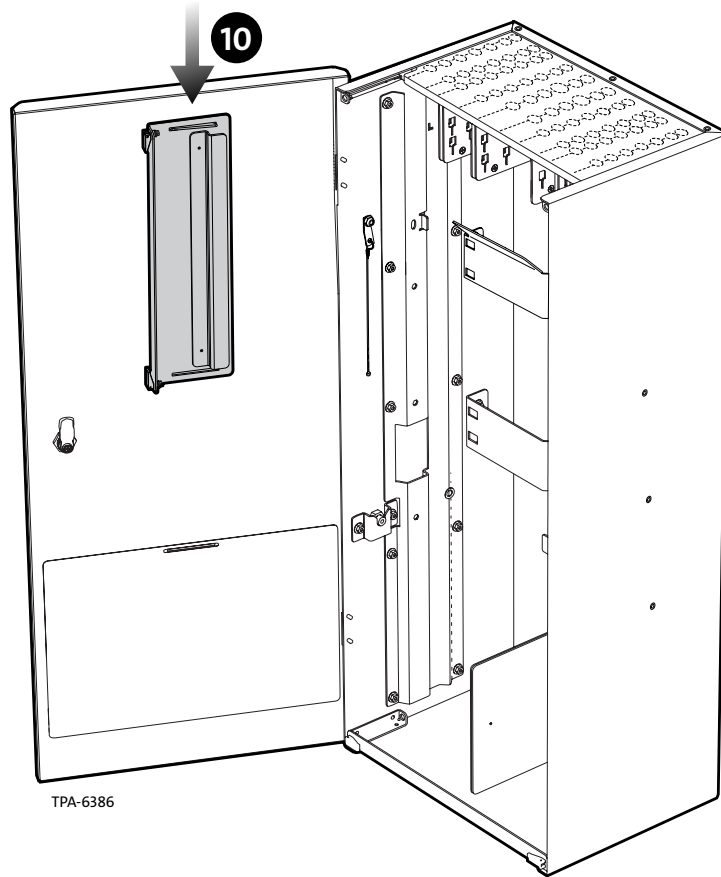
Step 8: Set the tray housing aside.



Step 9: Flip swell latches on top cover out and remove cover.



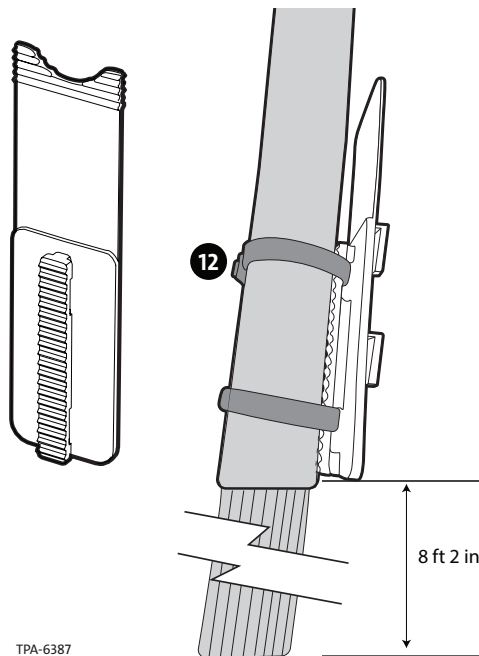
Step 10: Hang cover on door hook.



Step 11: Refer to [Standard Recommended Procedure 004-281, Sheath Removal of 1728-Fiber RocketRibbon™ Extreme-Density Cable](#), for directions on removing the cable sheath from 10 ft from the end of the cable to expose the routable subunits.

Step 12: With 10.75-in cable ties, position cable retention clip on the cable at the end of the cable sheath.

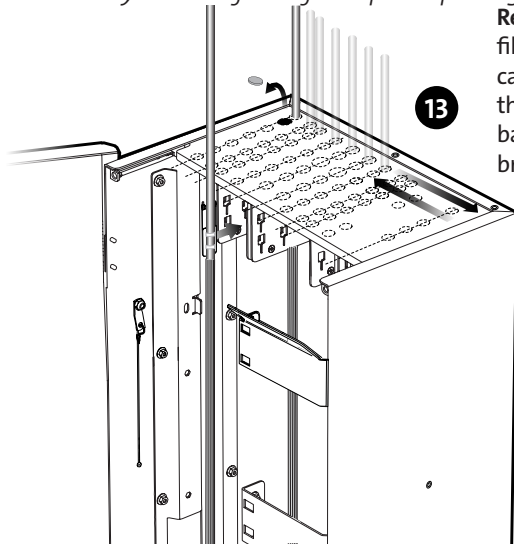
IMPORTANT: *Strain-relieve the cable outside the enclosure per standard company practices.*



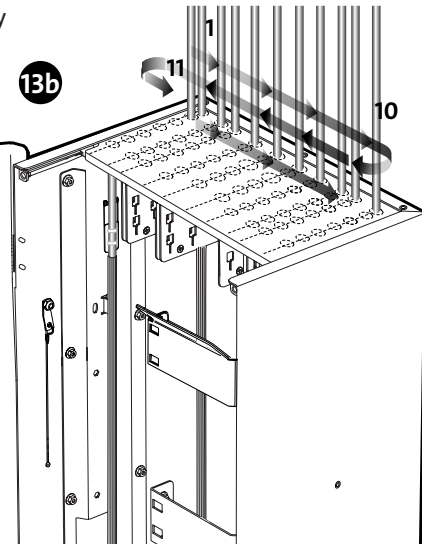
Step 13: Starting at back of the cabinet, tear/remove the foam from the first cable entry location. Slide the cables through the foam in the top of the cabinet to the open port.

NOTE: Only remove foam from port openings as they are needed

Recommendation: Completely fill in the back row on all the cable retention brackets first, then the second from the back position on all retention brackets, etc.



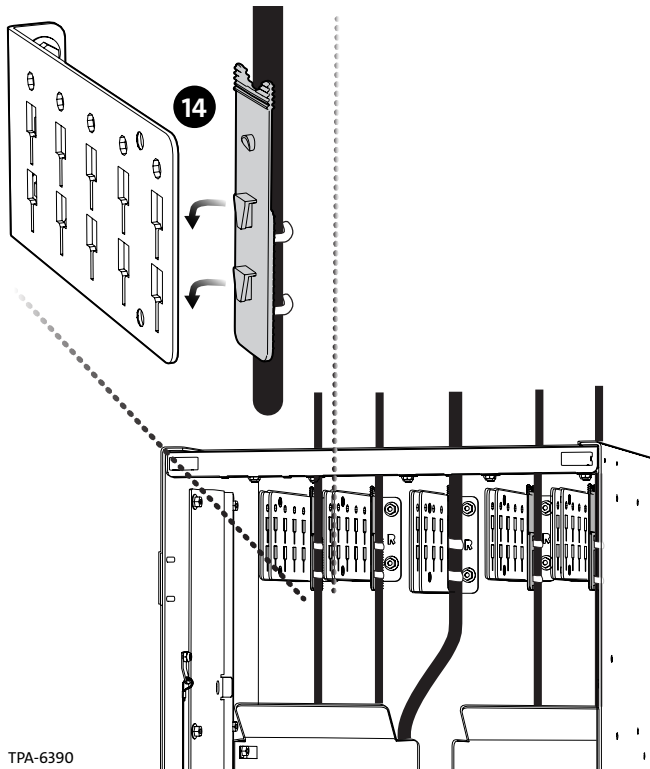
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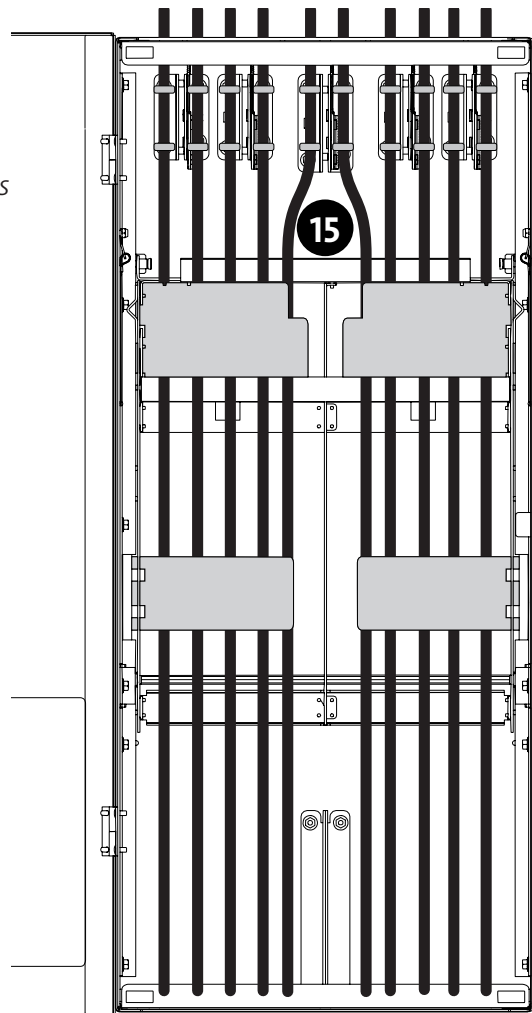
Step 14: Slide the cable retention clip into a strain-relief bracket at the top of the cabinet. Route the cable behind the cable retention brackets.

Step 15: Repeat steps 11-13 for all cables.

NOTE: Secure outside plant cable to the large strain-relief brackets in the center of the cabinet. Inside plant cables can be attached to the strain-relief brackets on either side of the center brackets.

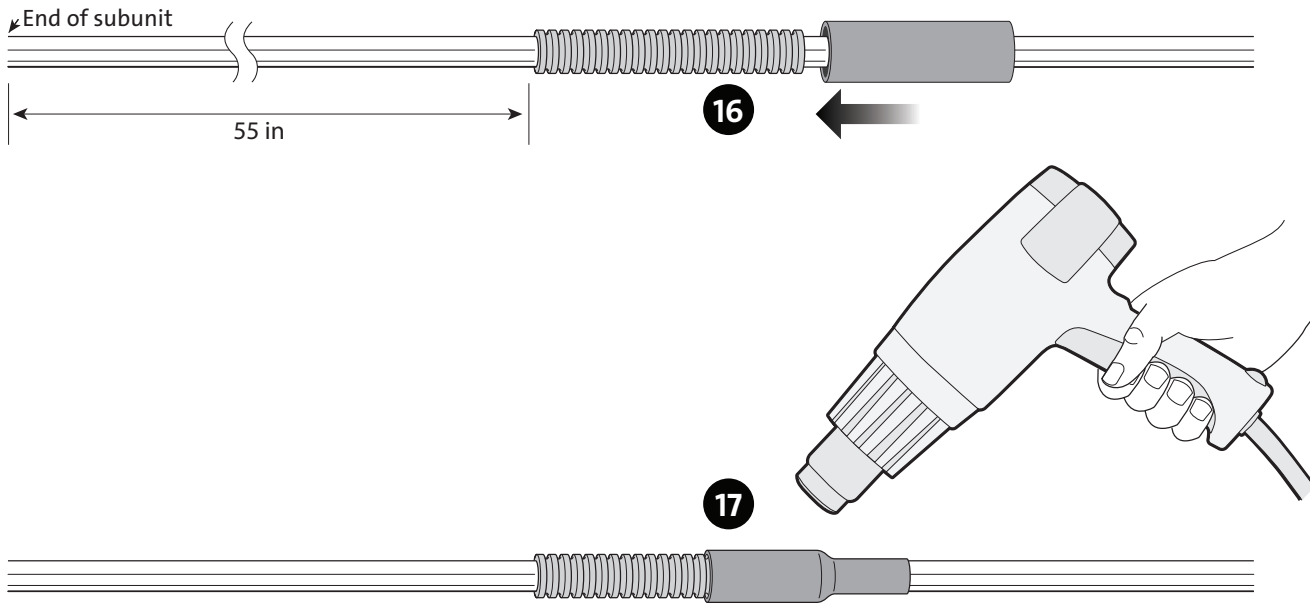


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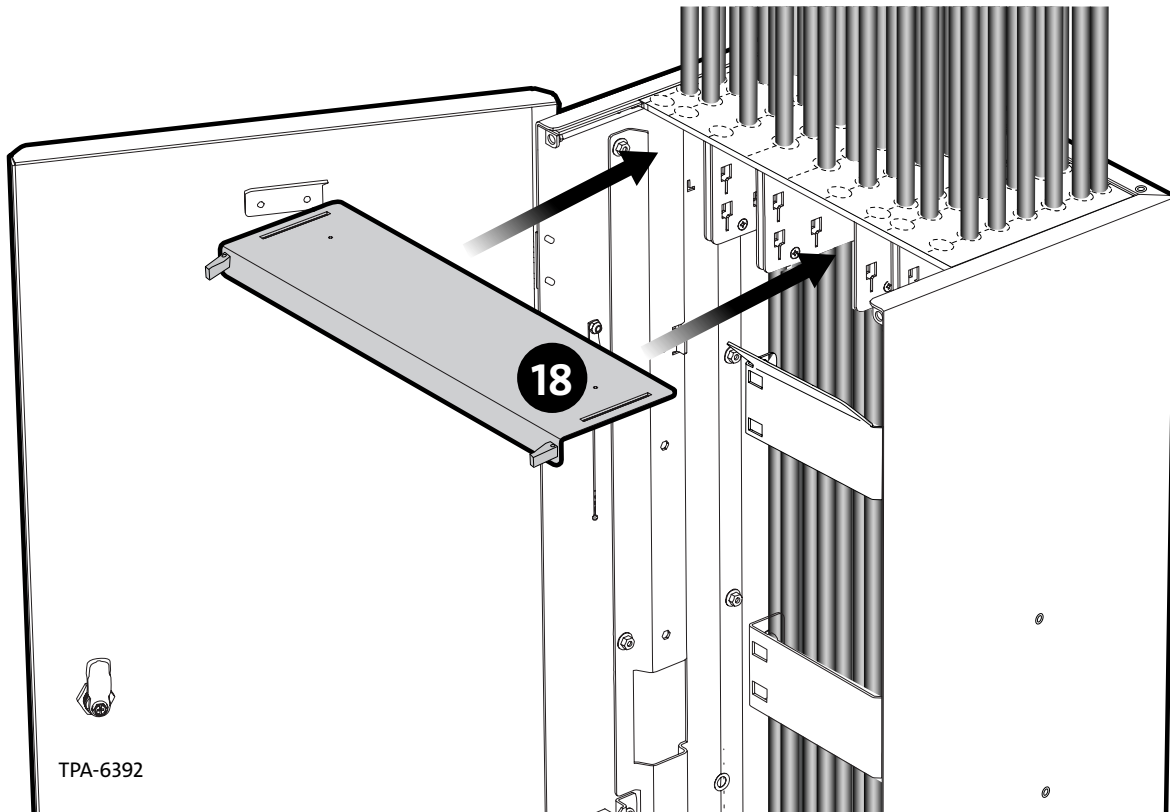
Step 16: Slide the heat-shrink tubing and corrugated tubing onto the routable subunit. Move them up the subunit a minimum of 55 inches from the end of the subunit.

Step 17: Shrink the heat-shrink tubing over the corrugated tubing at that distance.



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Step 18: Replace the top cover of the cabinet. Close swell latches to lock cover.

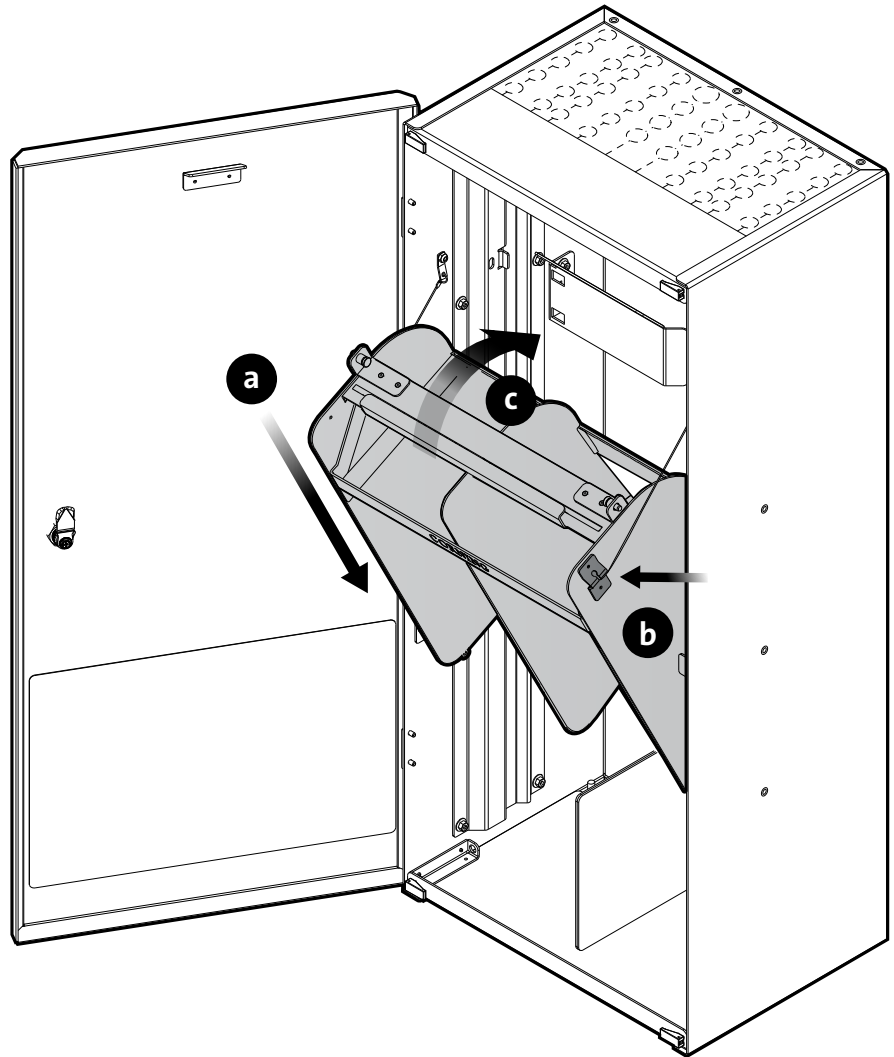


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Step 19: Reinstall the splice tray housing and reattach the safety lanyards.

IMPORTANT: *Ensure the plungers click in place to secure the housing.*

IMPORTANT: Hold onto the top and bottom of the splice housing when installing into the enclosure. Set the hardware into securing slots and then reattach lanyards to housing.

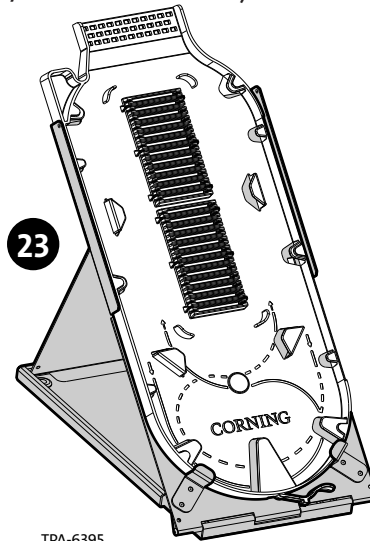


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Step 20: Bring a tray to a 30-in high work surface in front of the cabinet. Remove the plastic cover from the tray.

Step 21: An optional service platform (P/N RDX-OSE-KIT-SP) is available to assist with the splicing operation.

NOTE: Reference section 5 for routing diagrams for 576f tray.

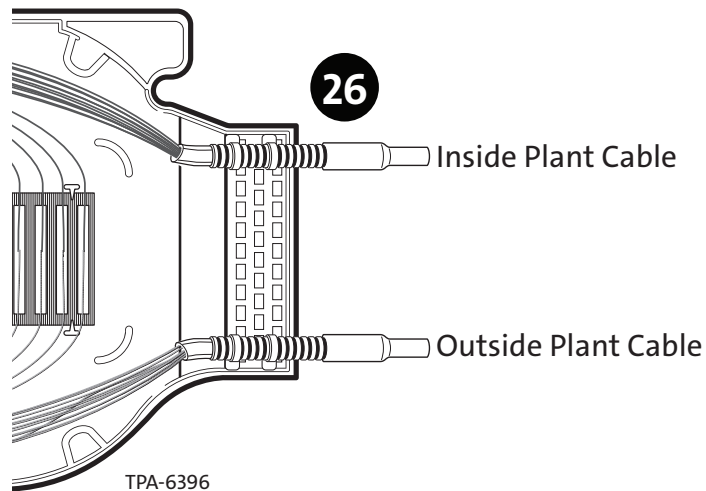


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Step 22: Select the appropriate feeder and distribution routable subunits.

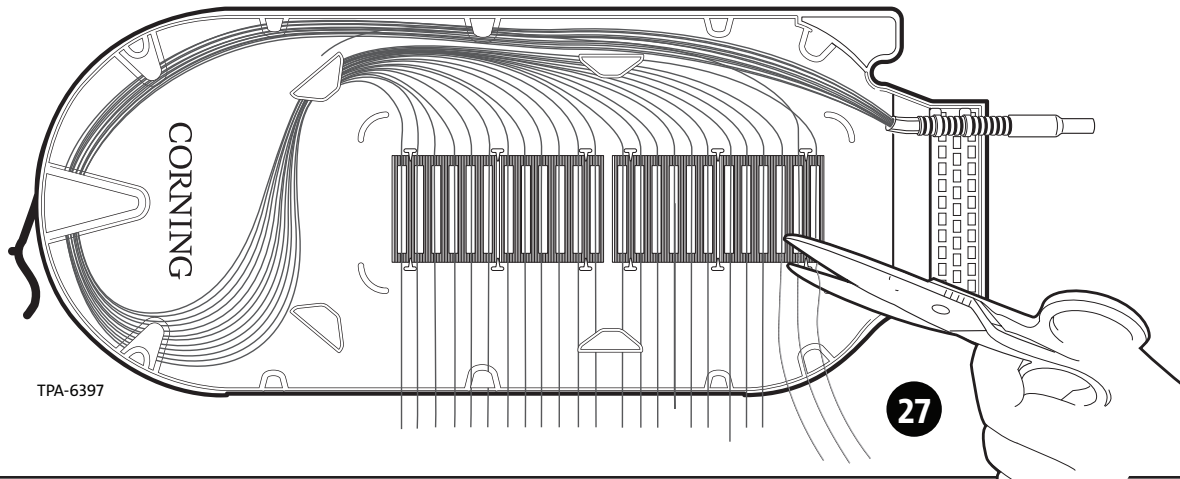
Step 23: Refer to [Standard Recommended Procedure 004-281, Sheath Removal of 1728-Fiber RocketRibbon™ Extreme-Density Cable](#), for preparing the routable subunits.

Step 24: Secure the corrugated tubing to the splice tray with cable ties.



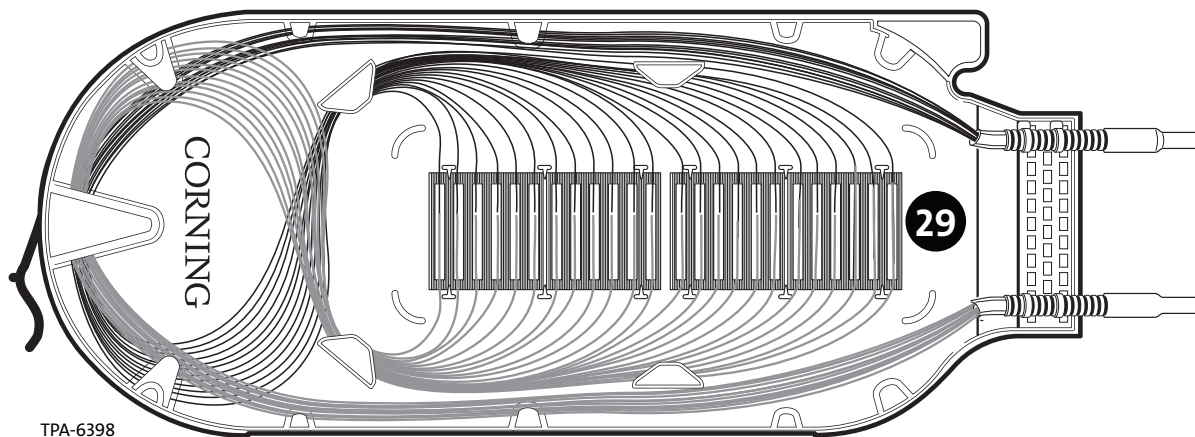
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Step 25: Pre-route and measure each fiber ribbon to its splice location in the organizer. Cut the ribbon at the splice point. Repeat for all subunits in the tray. Refer to section 5.3 at the end of this document for additional guidance on ribbon organization within the splice tray.



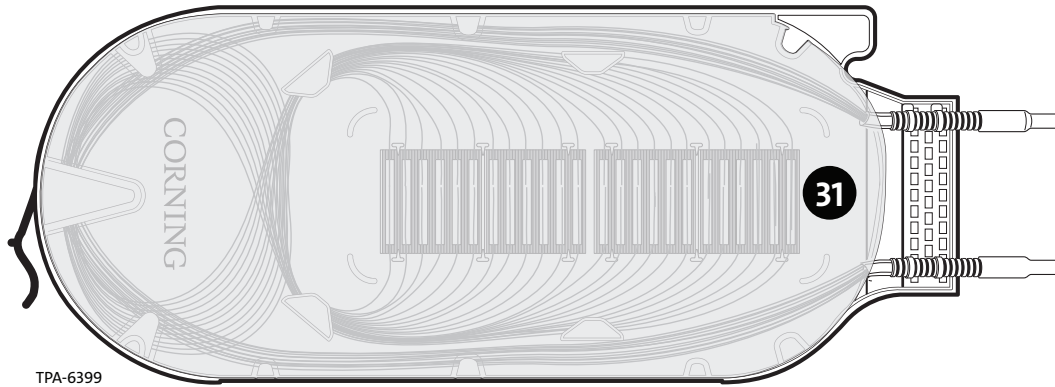
Step 26: Splice using 40 mm heat-shrink tubes per the instructions provided with the splicing equipment.

Step 27: Store the splice point in the organizer.



Step 28: Repeat Steps 28-29 for all splices in this tray.

Step 29: Replace the plastic cover on the splice tray.



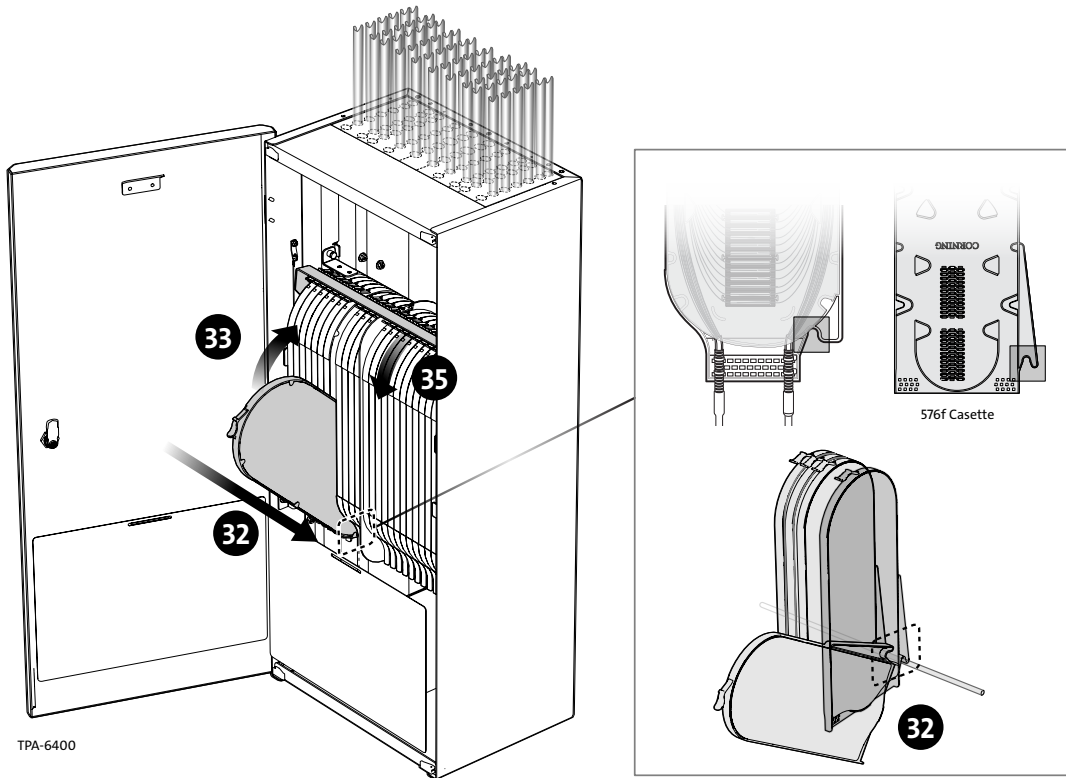
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Step 30: Tilt the tray into the housing and capture the rod in the notch of the tray.

Step 31: Continue tilting the tray into the housing until the clip at the top of the tray engages the latch point.

Step 32: Repeat Steps 21-33 for all splice trays.

Step 33: Lower the splice tray retention bar.

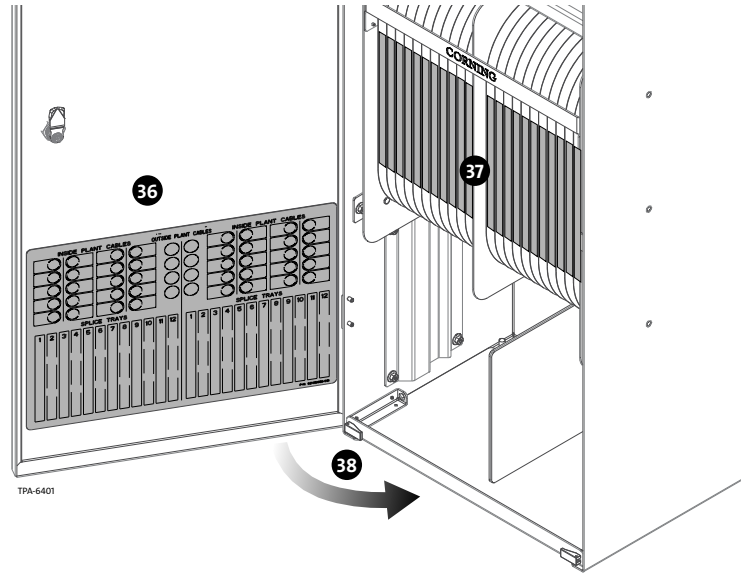


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Step 34: Document cable routing on the label on the door.

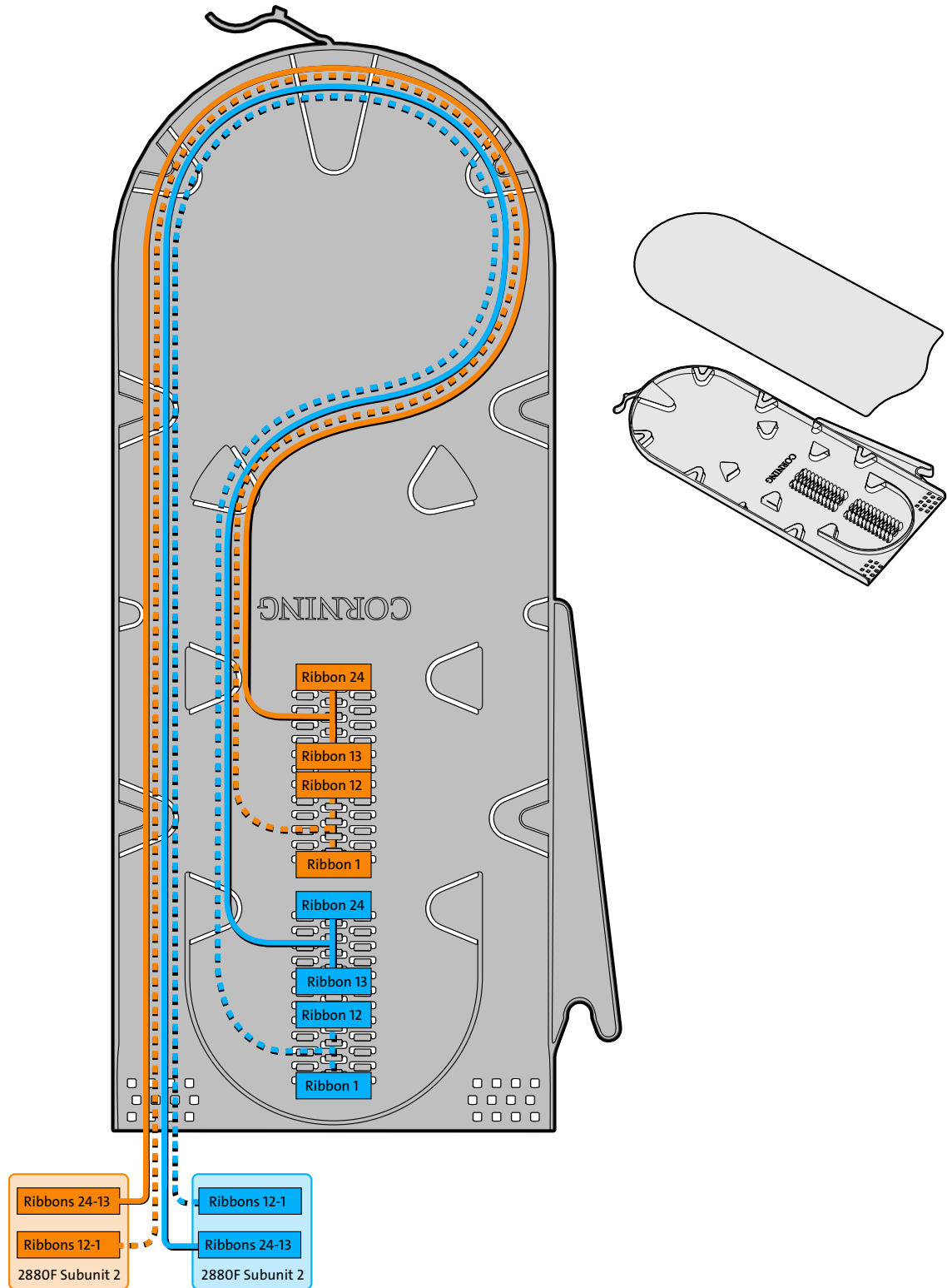
Step 35: Attach ½-in labels to the front edge of the tray, if desired, to document splicing locations.

Step 36: Close front door and rotate the latch to secure it.



5. 576f Splice Tray Routing Diagrams

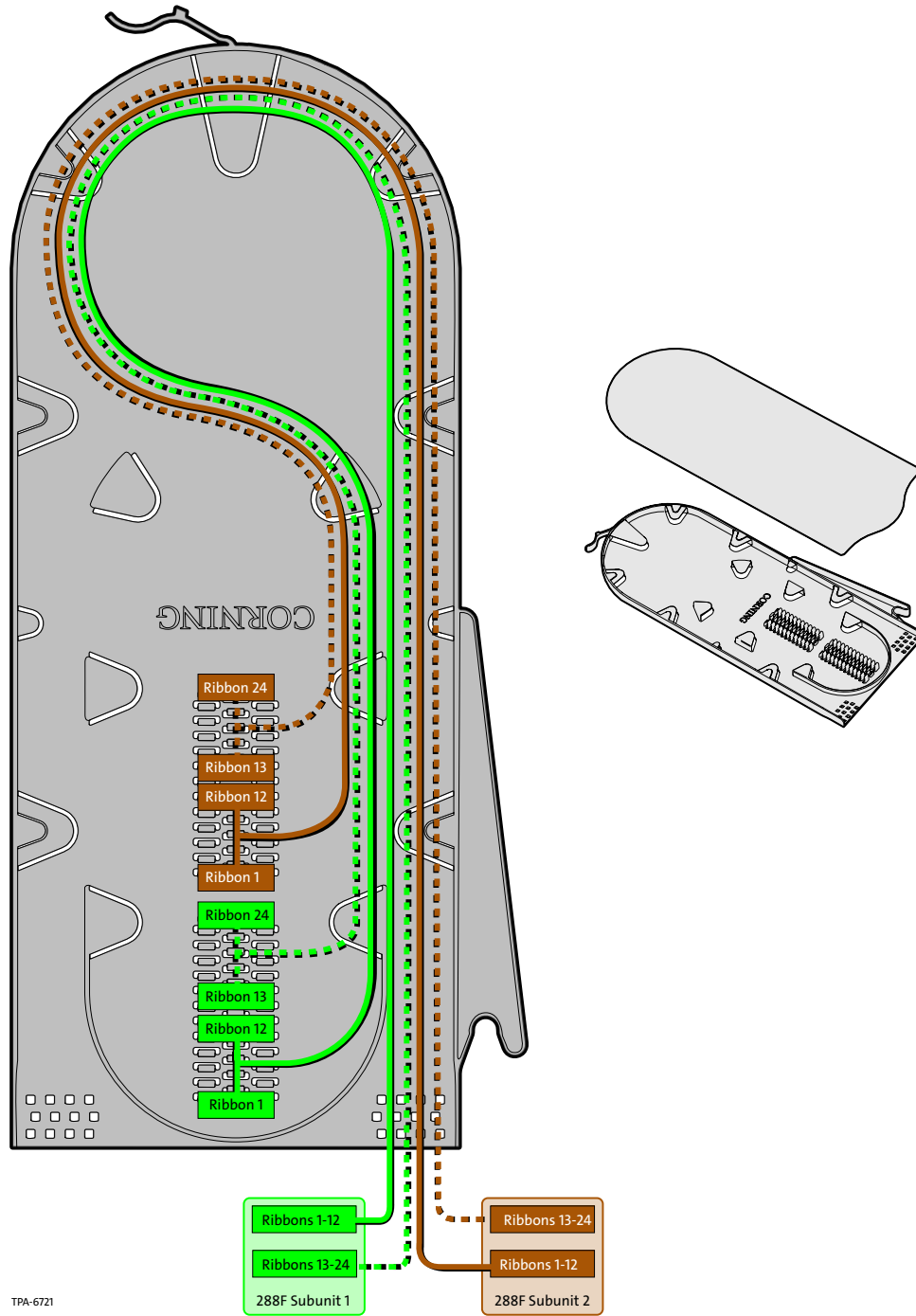
Input Fiber Routing



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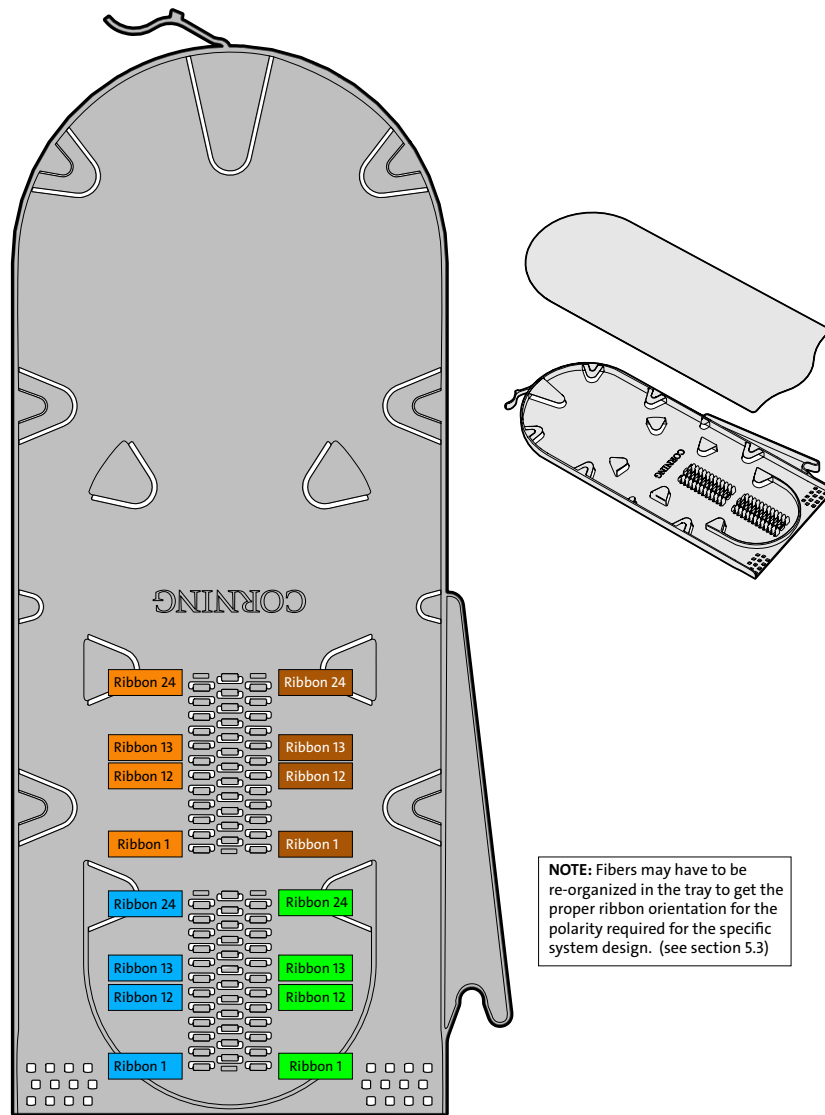
5.1 576f Splice Tray Routing Diagrams

Output Fiber Routing



5.2 576f Splice Tray Routing Diagrams

Ribbon Splicing Summary

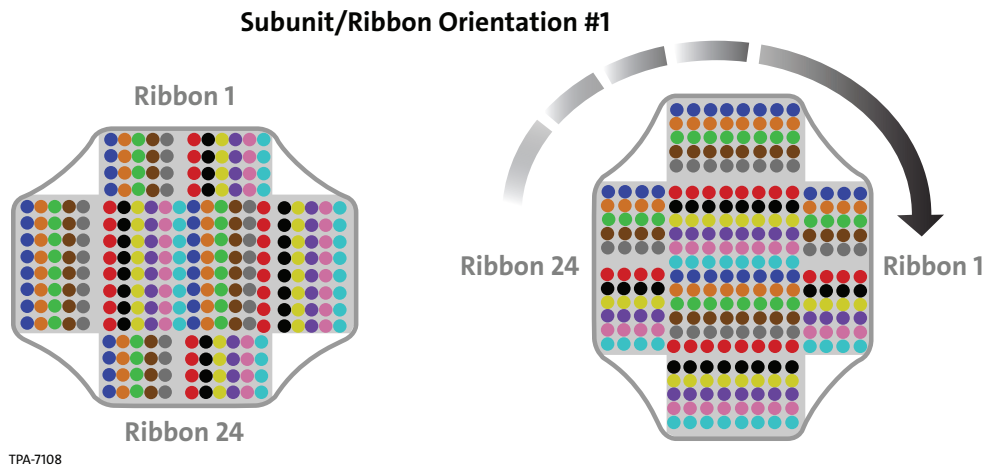


NOTE: Fibers may have to be re-organized in the tray to get the proper ribbon orientation for the polarity required for the specific system design. (see section 5.3)

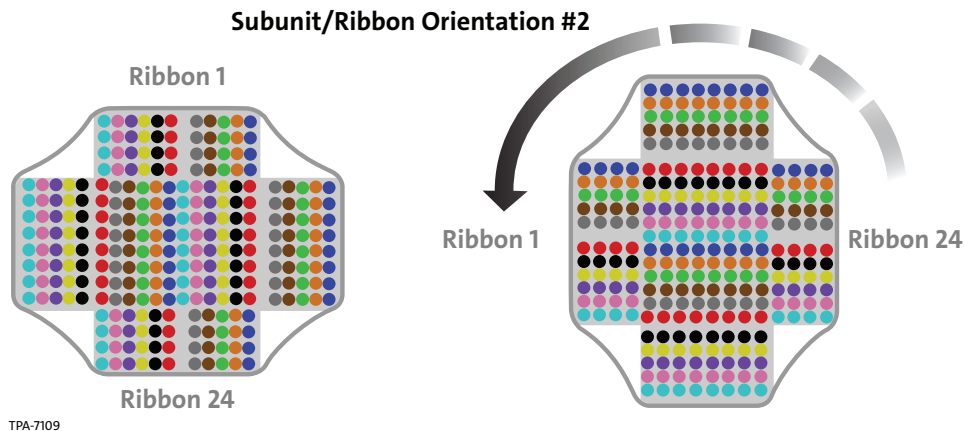


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5.3 Subunit Orientation Diagrams



Subunit turned to get the blue fiber on top inside of the tray.



NOTE: *When splicing cables with routable subunits, the end of the subunit that you are working with is important as it relates to the organization of the ribbons within that subunit and must be checked prior to splicing. Depending on the orientation of the subunit (**orientation #1 or orientation #2 in the images above**), the ribbons from the routable subunit may have to be re-organized inside of the tray. Notice that the side of the ribbon stack that ribbon 1 is on is different depending on the orientation of the subunit once it is turned on its side so the ribbons are vertical for optimal routing inside of the tray. Re-organize the ribbons as needed inside of the tray to get the ribbons into the correct order for your system's specific design and polarity management.*