Ultra High Density PEACOC™

3RU Splice Chassis (432F)

Installation, Operation and

Maintenance Manual

September 2017

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Document Revision History

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"Bring Light to Life"

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1. Purpose

This document describes the Installation, Operation & Maintenance Manual procedures associated with the Go!Foton PEACOC™ 3RU Splice Chassis. The purpose of the document is to ensure the safe and correct installation of the Go!Foton PEACOC™ 3RU Splice Chassis, ensure the safe and accurate management of the optical connection. Operations that are included this manual describe the procedures that should be followed when mounting the Go!Foton PEACOC™ 3RU Splice Chassis onto the rack and when installing cables for the first time, and also describe the procedures that should be followed when cleaning or replacing connectors.

2. Safety Information

Throughout this document important safety admonishments are used to alert the operator of possible hazards to persons or equipment. This safety information is conveyed through the use of Dangers, Warnings, and Cautions – it is important that they be followed at all times. The various warnings are defined below and are highlighted throughout this document with use of the triangular alert icon (see below). The warnings shown below are listed in order of decreasing severity of personal injury or potential for damage to equipment.

△ **Danger:** Danger is used to indicate a possible hazard which ***will*** cause severe personal injury, death, or substantial property damage if the hazard is ignored.

△ **Warning:** Warning is used to indicate a possible hazard which ***can*** cause severe personal injury, death, or substantial property damage if the hazard is ignored.

△ **Caution:** Caution is used to indicate a possible hazard which ***will*** or ***may*** cause minor personal injury, or property damage if the hazard is ignored.

3. General Safety Precautions

△ **Danger:** *Infrared radiation is invisible and can seriously damage the retina of the eye. Do not look into the ends of any optical fiber or connector. Do not look directly into the optical adapters when a connector is removed during cleaning or when they are being replaced. The use of an optical power meter should be used to verify active fibers. A protective cap or cover MUST be immediately placed over any live adapter or optical fiber connector to avoid the potential of dangerous amounts of radiation exposure. This practice will also help to prevent dirt particles from entering the optical pathway which may affect transmission performance.*

△ **Caution:** *When working with the Go!Foton PEACOC™ 3RU Splice Chassisat height that is above easy reach, the use of an A-frame type of step ladder should be used to provide a safe and secure footing at the necessary working height.*

3.1 General Principles for PEACOC™ Operation

The Go!Foton PEACOC™ 3RU Splice Chassis is used to safely and accurately manage the splicing of fiber optic cables in fiber distribution frames and racks. Used in conjunction with Go!Foton's PEACOC™ fiber management chassis and patch panels, it provides and effective way to manage a large number of fibers using small form factor optical fiber connectors in a high density configuration. The Go!Foton PEACOC™ 3RU Splice Chassis is suitable for use in a central office, data center, CATV head end, CEV, customer premise, or other indoor environment and it does not require any special engineering, installation, or handling procedures.

The Go!Foton PEACOC™ 3RU Splice Chassis is a 3RU high chassis which is shipped with up to 18 trays. Each tray has a capacity of up to 24 fusion splices, providing a total capacity of 432 fusions splices, when fully loaded.

3.1.1 Specifications

3.1.1.1 Mechanical

Number of Fusion Splices	432*
Accessibility	Front Access (Slide and Rotate Mechanism)
Dimensions	17.5"L x 19"W x 5.1"H (3RU)
Rack Mounting	19" Rack Standard
Total Weight	15kg (33.07lb) maximum

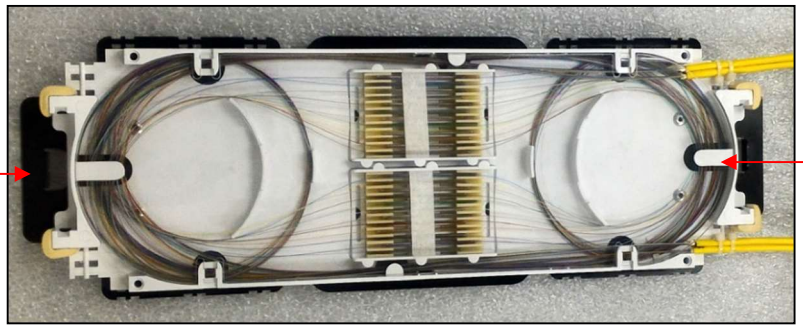
3.1.1.2 Environmental

Parameter	Specification	Remarks
Operating Conditions	-40C to +75C (-40°F to 167°F)	Up to 85% humidity
Storage Conditions	-40C to +75C (-40°F to 167°F)	Up to 93% humidity

3.1.2 Key Parts

The following key parts of the Go!Foton PEACOC™ 3RU Splice Chassis are referenced throughout this document. Please refer to the images below as needed to ensure the proper procedures are strictly followed.

⚠ **Warning:** *Failure to follow the procedures in this manual can result in damage to optical fiber cable which may further result in a loss of service for active subscribers.*



4. Installation, Operation & Maintenance

Please read and follow this manual as your operating guide. To ensure the integrity of the signal and safety of active fibers, please stop immediately and check the associated conditions if you encounter any strong resistance during operation of any of the moving parts.

4.1 Unpacking and Inspection

4.1.1 Unpack each container while carefully checking the contents for damage and verify with the packing slip. If damage is found or parts are missing, file a claim with the commercial carrier and notify Go!Foton Customer Service. Save the damaged cartons for inspection by the carrier.

4.1.2 Save all shipping containers for use if the equipment requires shipment at a future date.

4.2 Rack Installation

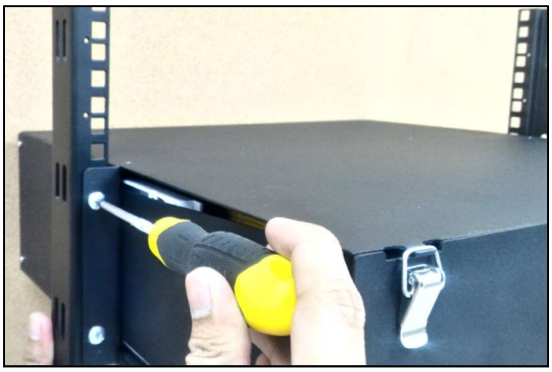
4.2.1 Locate the equipment rack and mounting location that is designated for the PEACOC™ 3RU Splice Chassis.

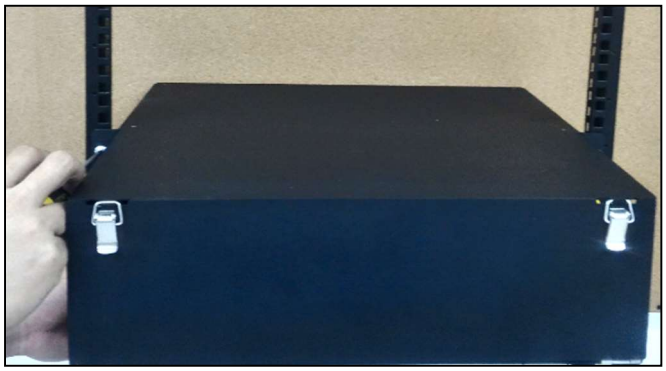
NOTICE!

△ ***Caution:*** *When mounting equipment in the rack, make sure the mechanical loading is even to avoid a hazardous condition. Uneven loading of heavy equipment may result in the rack tipping over. Be sure to confirm that the rack can safely support the combined weight of all installed equipment.*

NOTICE!

4.2.2 Hold the PEACOC™ 3RU Splice Chassis unit in place and align the bracket holes with the holes on the equipment rack. Using compatible rack screws (not provided), mount the unit onto the rack, and then tighten the screws.





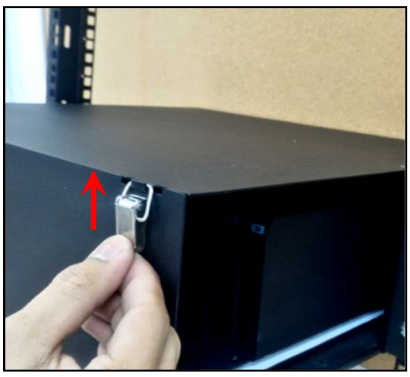
4.3 Bonding and Grounding

4.3.1 For bonding and grounding, please follow approved company procedures.

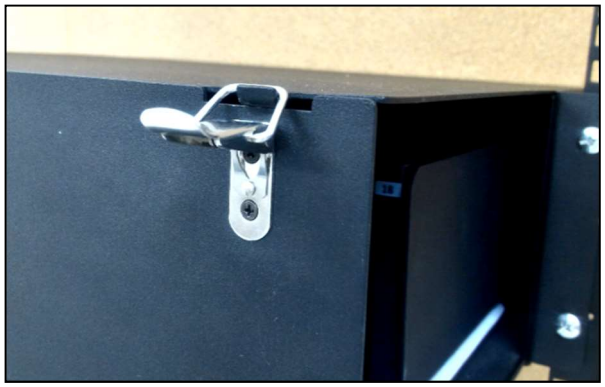
4.4 Mechanism, Splice Tray Access & Installation

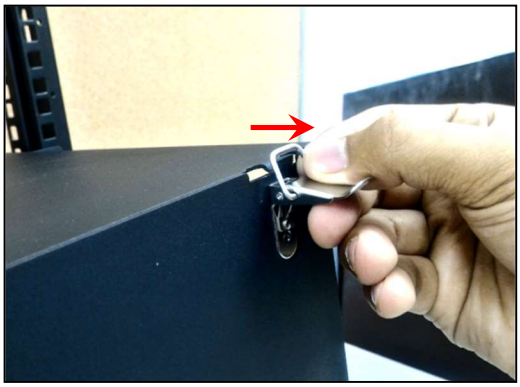
4.4.1 Opening the door

4.4.1.1 Draw the latch upward.



4.4.1.2 Hold the latch handle and pull out the latch rectangular rod over the lid hook using your finger.



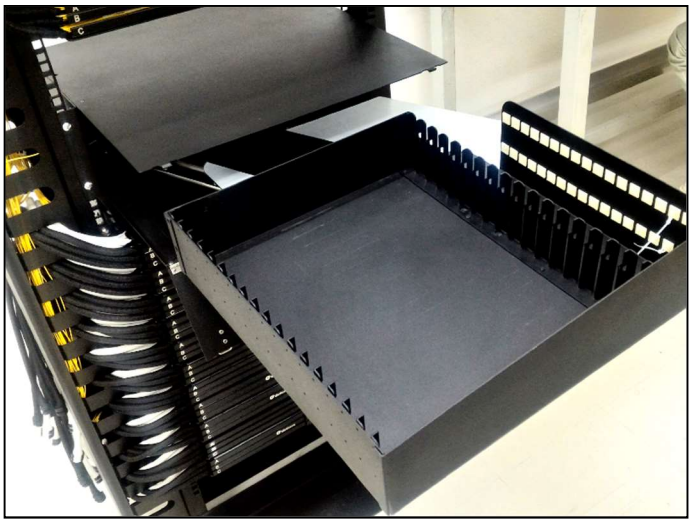


4.4.1.3 Pull the door down.

4.4.2 Opening the Splice Tray Area

4.4.2.1 Pull the inner box out of the chassis in a counter-clockwise rotation manner, supporting the box on its left side as it comes out of the chassis.

4.4.2.2 Continue to rotate and slide the inner box until it is rotated 90˚, and it is totally pulled-out of the chassis.

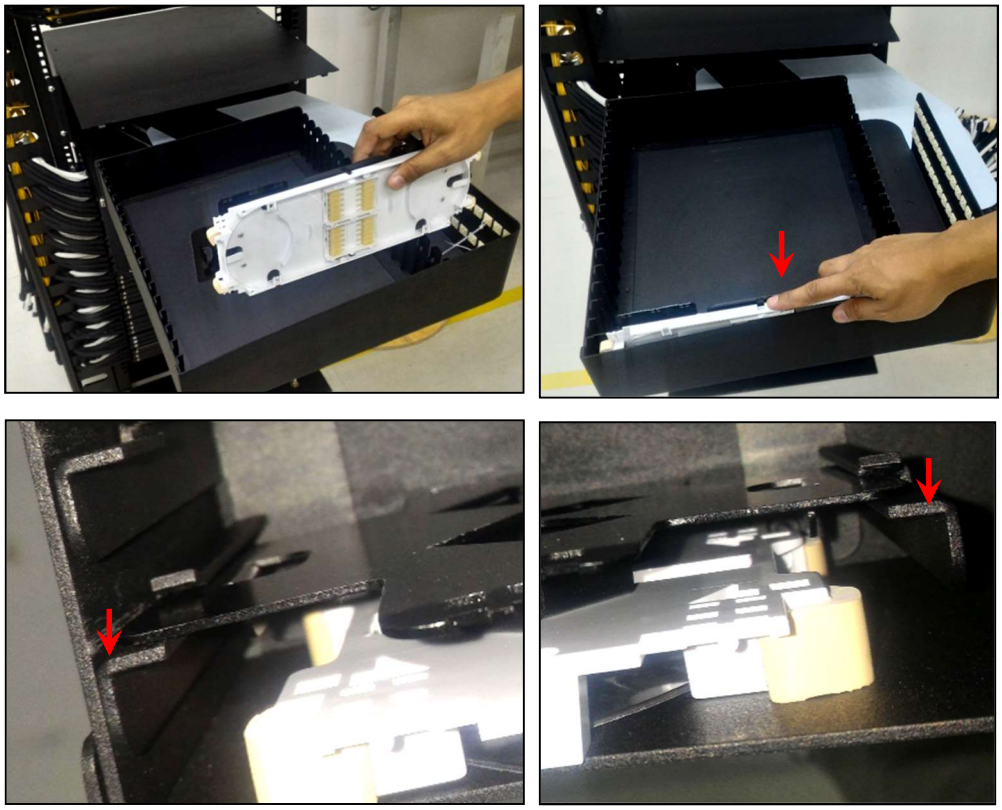


4.4.3 Splice Tray Access and Installation

4.4.3.1 You can now access the splice tray area for installation (or for maintenance if the trays are already installed).

4.4.3.2 To install the splice tray in the splice tray area, the top side of the splice tray should be facing the front side of the chassis.

4.4.3.3 Locate the Tray Guides in the chassis for proper insertion; let both sides of the Splice Tray Holder touch the upper plate of the Tray Guide before sliding it in.

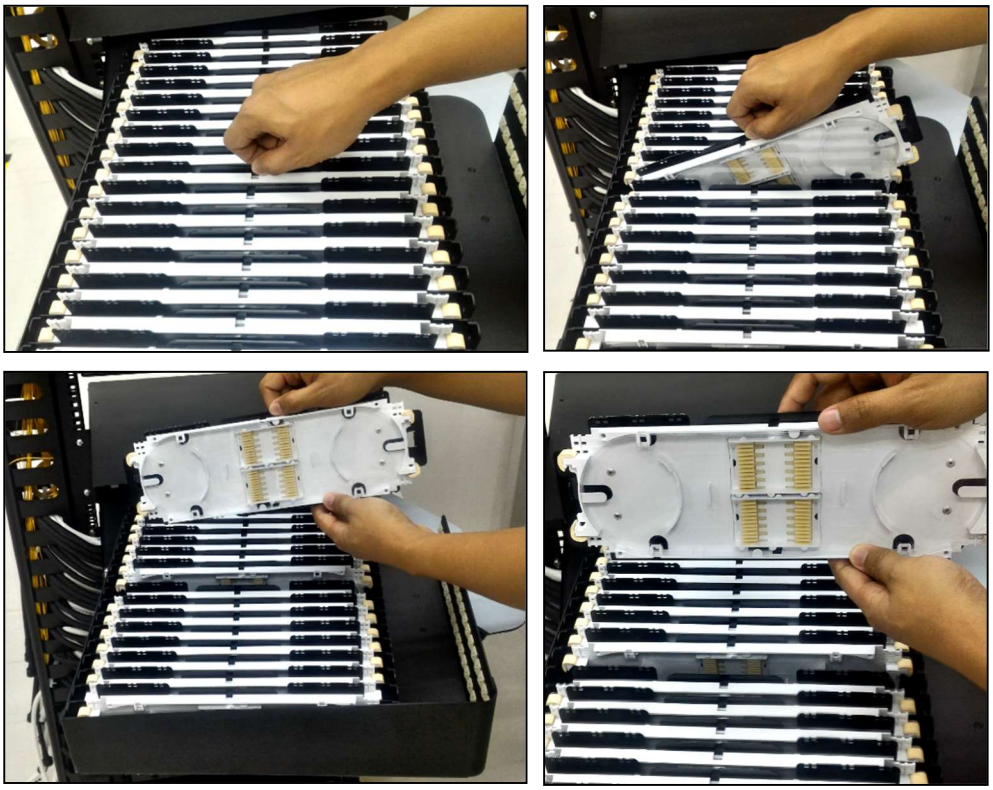


4.4.3.4 Insert the next trays until it is fully loaded.

4.5 Cable Management

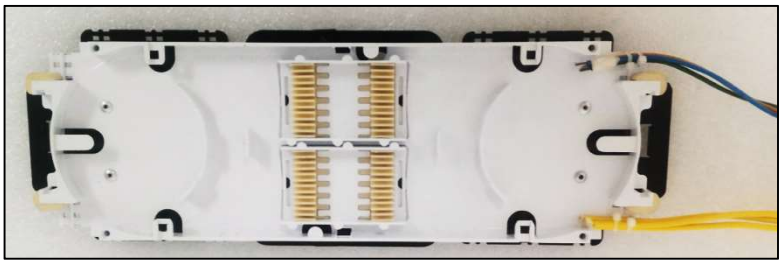
4.5.1 Tray Selection

4.5.1.1 Select your desired tray. Using the Splice Tray Holder, pull-out the selected tray.



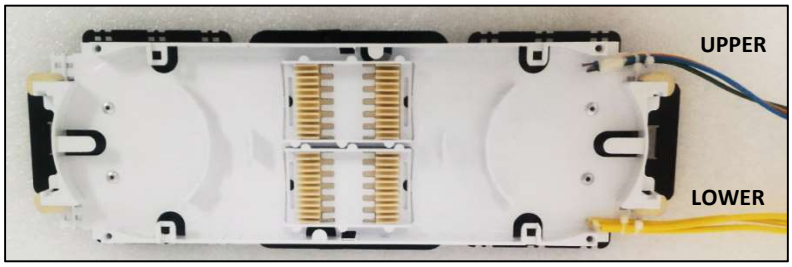
4.5.2 Cable Management on the Splice Tray

4.5.2.1 Fix the cables to the splice tray using cable ties. Recommended length of stripped fibers for routing and splicing inside the tray is 1.5meters each cables. The tray has cable routing direction marks as reference for the cable routing. Complete the fiber routing and desired number of splices inside the tray.

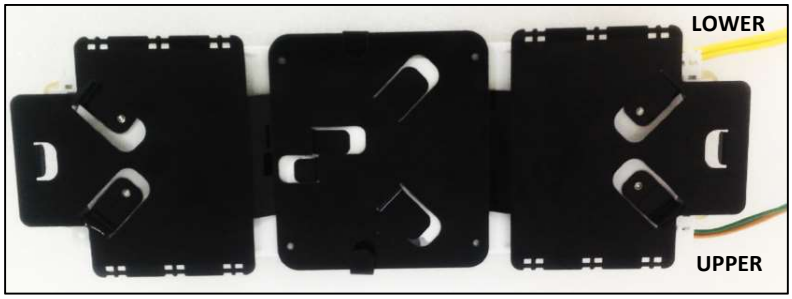


4.5.2.2 Identify the upper and lower cables. The upper and lower cables can be your output cables or input cables, depending on your preference.

4.5.2.3 From a top view of the Splice Tray, the cables should be exiting on the right side.

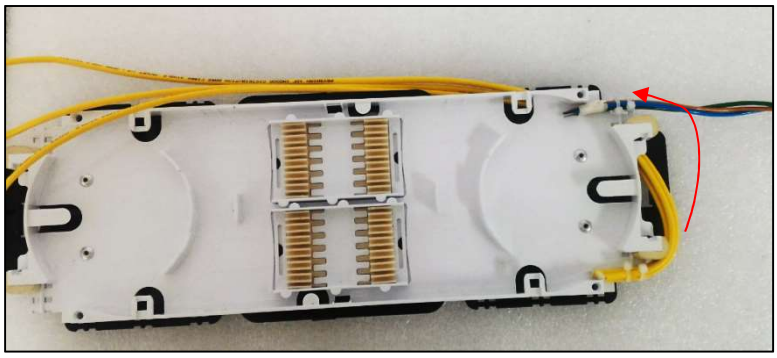


TOP VIEW

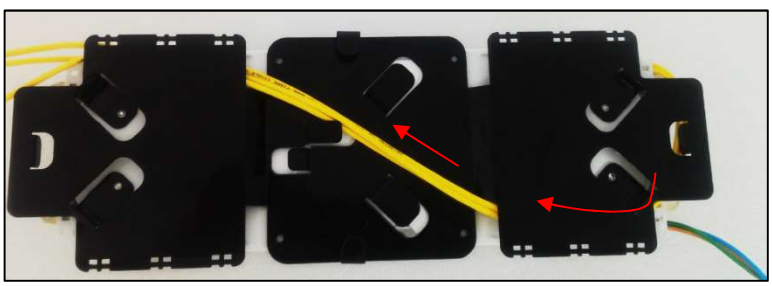


REAR VIEW

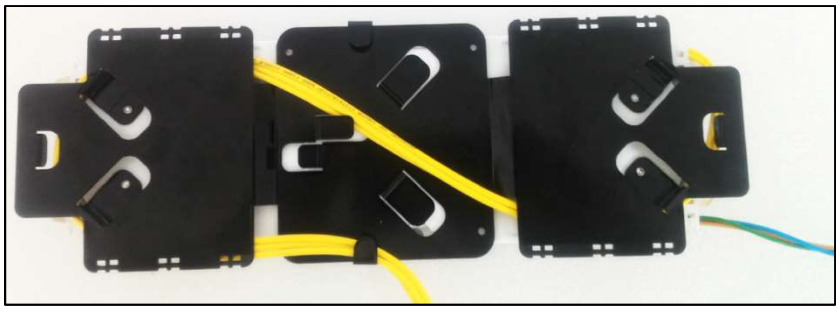
4.5.2.4 Select first the lower cables. Route the lower cables upward as shown, being careful not to over bend the cable bending radius.



4.5.2.5 Loop the lower cable around to the backside of the splice tray holder following below image and directions shown below.

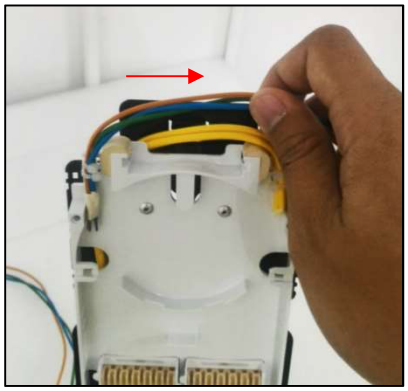


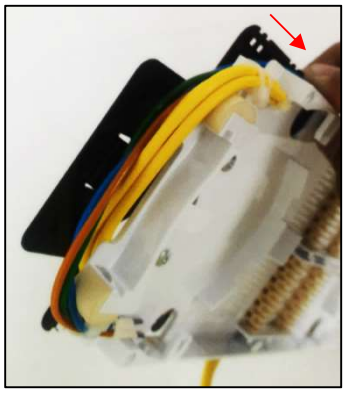
4.5.2.6 Route the cables on the back of the Splice Tray Holder and loop it back going to its starting point. Temporary stop in the middle portion and leave the cables on the fins to support/control the cables movement.



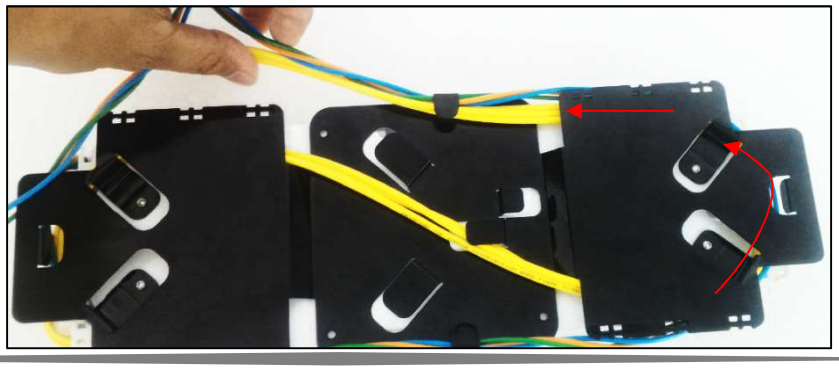
4.5.2.7 Leave the lower cables as is.

4.5.2.8 Loop the upper cables downward as shown, being careful not to over bend the cable bending radius.





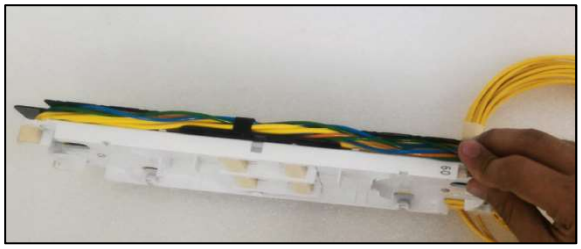
4.5.2.10 Loop the upper cables until it reaches the lower cables. At this time, you can now route the upper cables and lower cables together.



4.5.2.11 Continue looping the cables around the fins to the desired length.

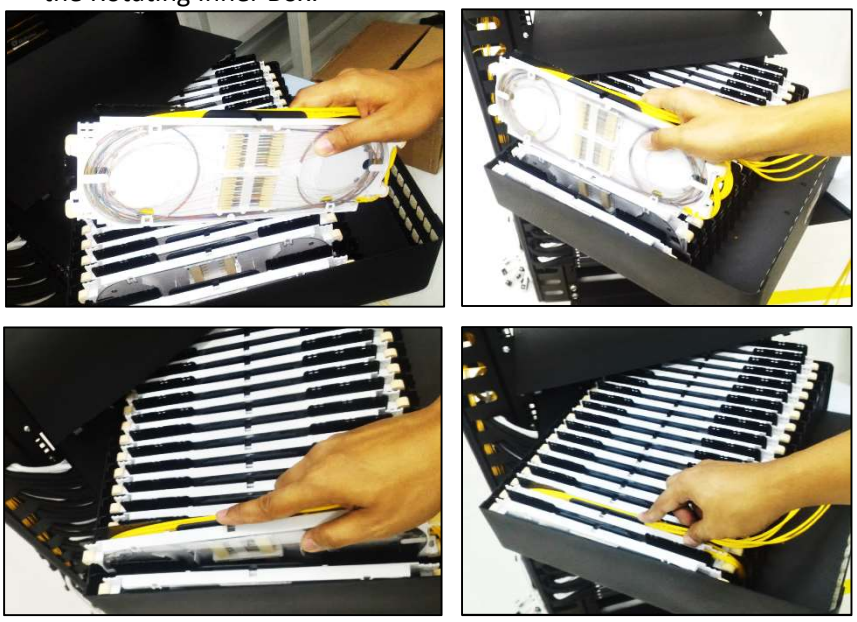
4.5.2.12 Note: The Splice Tray Holder can store up to approximately 1.45 meters of each cables.

4.5.2.13 Use a cable tie to secure the cables to the Splice Tray Holder. Cut the excess length of the cable tie after tightening.



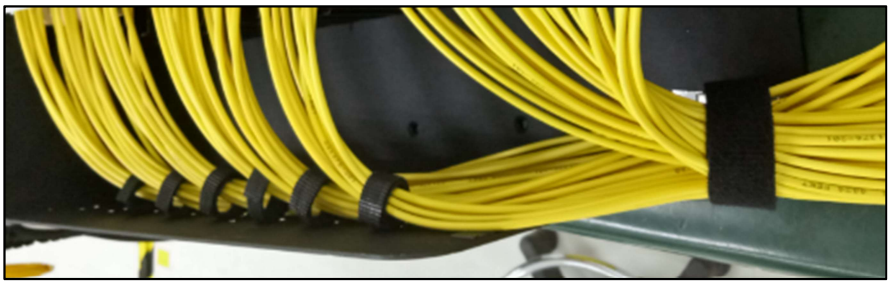
4.5.3 Cable Management within the Chassis

4.5.3.1 Return the Splice Tray loaded with the fiber cables to the appropriate slot in the Rotating Inner Box.



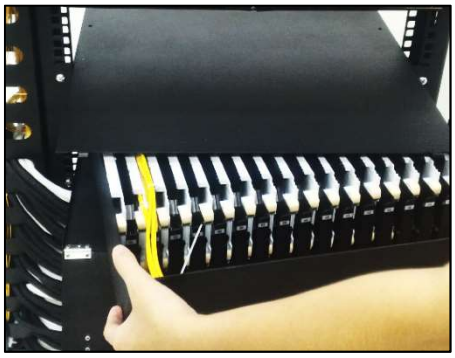
4.5.3.2 Locate the Tray Guides in the chassis for proper insertion; let both sides of the Splice Tray Holder touch the upper plate of the Tray Guide before sliding it in.

4.5.3.3 Use the Velcro tapes provided on the inside of the fiber chassis door to secure the fiber cables into the Rotating Inner Box.



4.5.4 Close and Secure the Unit

4.5.4.1 Guide the Rotating Inner Box toward the Chassis. Slide and rotate the Inner Box in a clock-wise manner until it is fully inserted into the Chassis.



4.5.4.2 Lift-up the door.

4.5.4.3 Insert the rectangular rod of the Drawer Latch into the Chassis Lid's hook. Lightly pull the Drawer Latch towards you before snapping it in. The door should be outside the Chassis Lid.

4.5.4.4 Snap the latch downward to secure the door.

Customer Information and Assistance

PHONE: 732-469-9650

WRITE:

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