COMMSCOPE®

FOMS-FPS-HD 3HU

INSTALLATION INSTRUCTION

TC-1201-IP
Rev A, Apr 2017
www.commscope.com

Shelf with pre-fibered pigtails

1 General

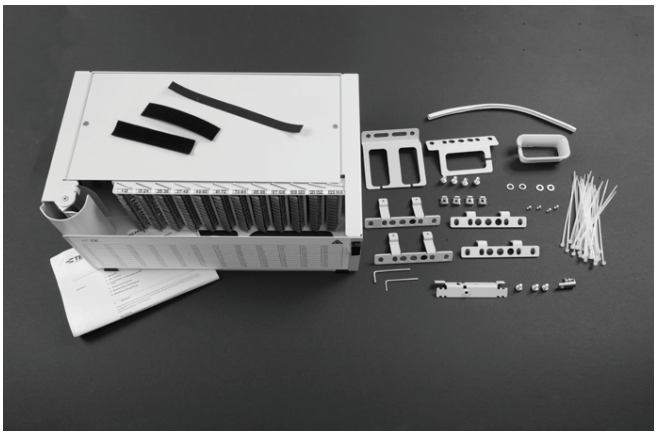
FOMS-FPS HD is a high density, multipurpose mechanical shelf with front patching/splicing designed for fiber management in a rack environment. Its compact design and high-density capacity make it possible to handle a large amount of fibers in a small footprint.

High density
• 144 SC adapters in 3HU shelf

Flexibility
• Proven splicing concept with bend radius protection and solutions for G652 and G657 fibers and splice protectors (SMOUV)
• Suitable for any 19" electronic equipment rack (also compatible with ETSI or CommScope's GR3 rack)

Trays options
• 6pcs FOSC trays - each manage 24 splices SMOUV (Two loose tubes per tray)

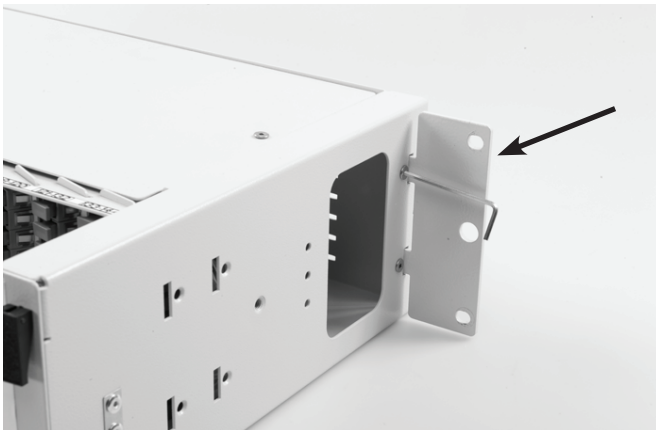
2 Kit content



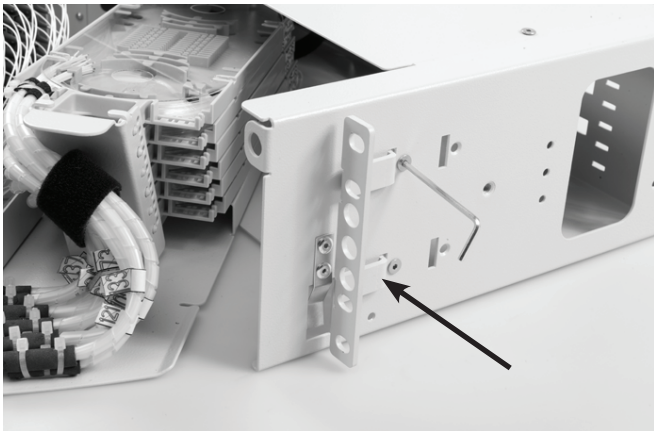
- 1 metal shelf incorporating:
  - Front patch panel with max 144 adapters
  - FOSC-400-A Splice trays including covers
  - 144 pigtails pre-routed into the trays
  - Hook and loop fastener
- Tie wraps and foam tape
- Hook and loop fastener
- Cable termination kit
- Trumpet and 2x bracket 30° (back / front mounting)
- Cage nuts and bolts
- Standard mounting bracket (back mounting) + screws + Allen key
- Front mounting bracket (front mounting)
- Edge protector

3 Installation of drawers in the rack

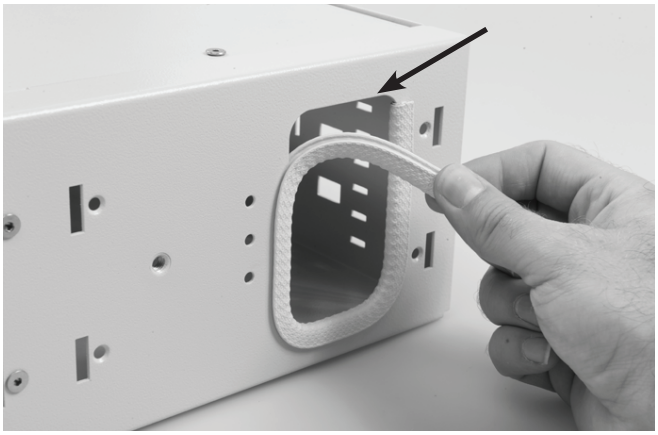
3.1 Fix the first cage nuts into the rack profile using the CAGE-NUT-TOOL

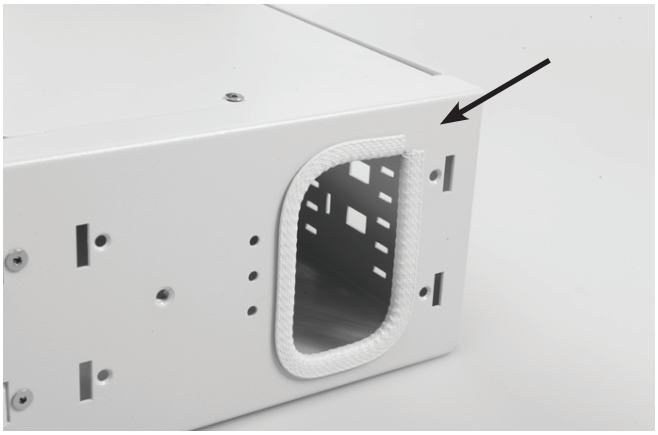


3.2 Mount the brackets using the holes for the FIST-GR-mounting – for back mounting.

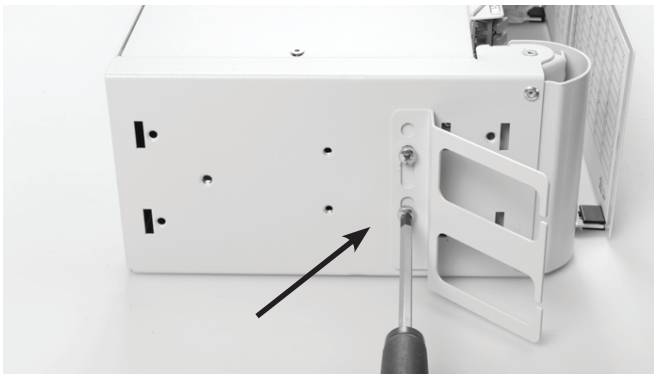


3.3 Mount the brackets using the holes for FIST-GR-mounting – for FRONT mounting. You need to open shelf slightly to be able to fix them.

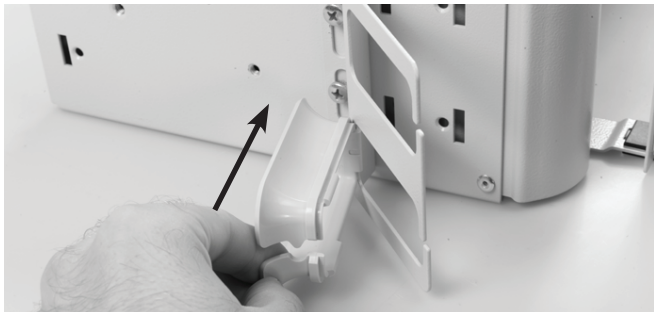


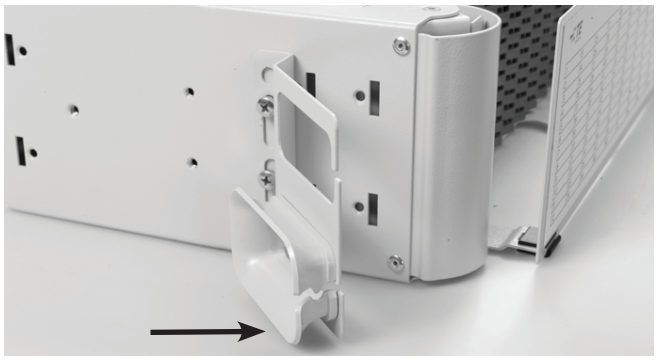


3.4 Install the edge protector on side entrance cable area as shown.



3.5 Mount the trumpet bracket – for BACK mounting only.

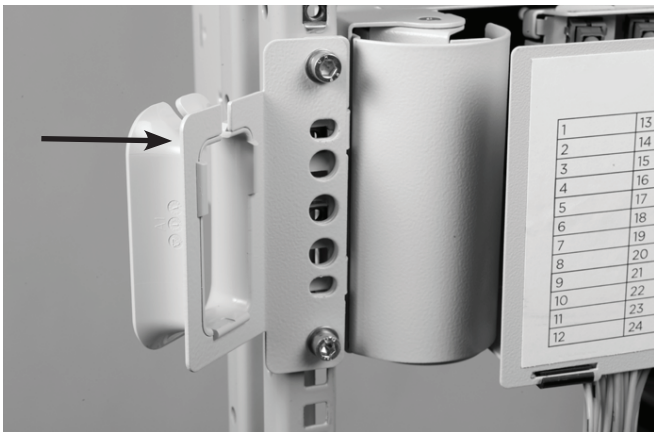




3.6 Install trumpet flares in two steps as shown on the pictures.

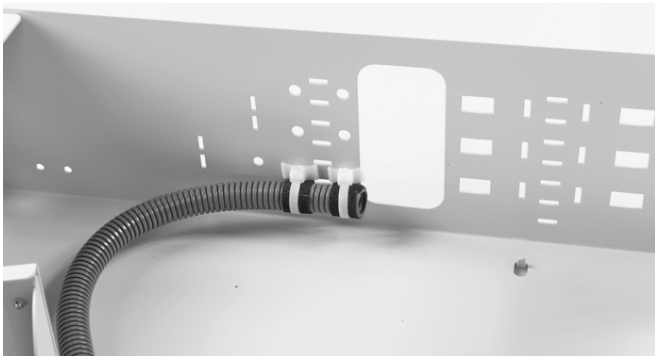
3.7 Mount the shelf in the mounted cage nuts using an Allen Key – BACK mounting.

3.8 In case of FRONT mounting fix the trumpet bracket on top of the front mounting bracket as shown. Mount the shelf in the mounted cage nuts using an Allen Key as shown.



3.9 Install trumpet flares in two steps as shown on pictures.

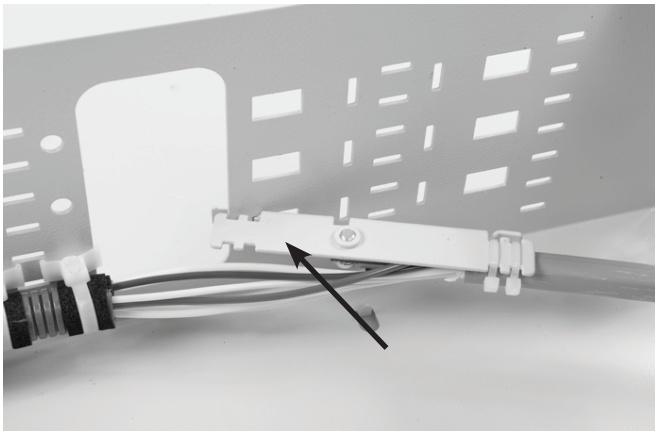
4 Cable termination



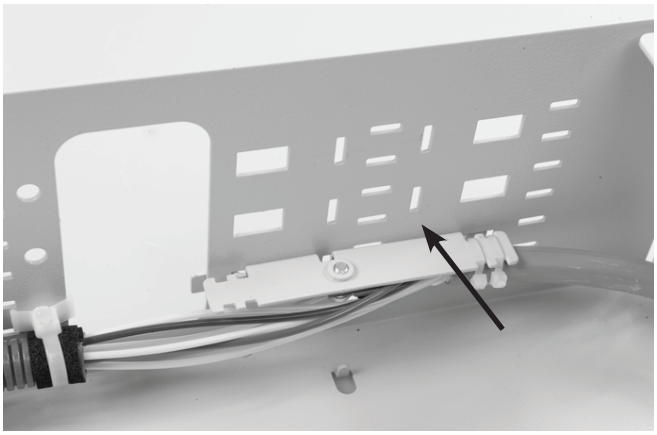
4.1 Open the drawer to the fully open position. Strip the cable approx 4m. Cut the strength member approx 40mm. Feed the loose tubes through the flex tube. Secure the strength member of the cable. Secure the cable itself using 2 tie wraps as shown.

A SIDE Cable Entrance - Secure the cable termination unit inside the shelf

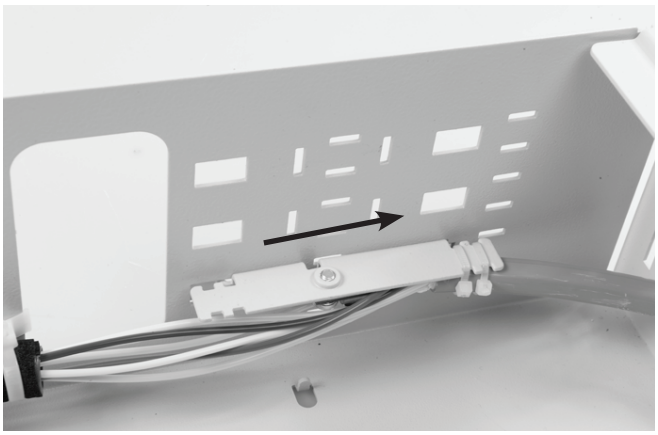
There are other positions available for additional cables termination – optional.



4.2 Slide the termination unit into 1st position for cable termination.



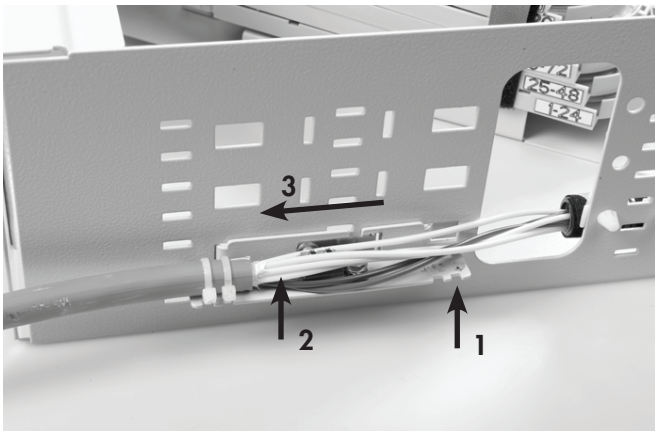
4.3 Push the termination unit against the back wall of the shelf.



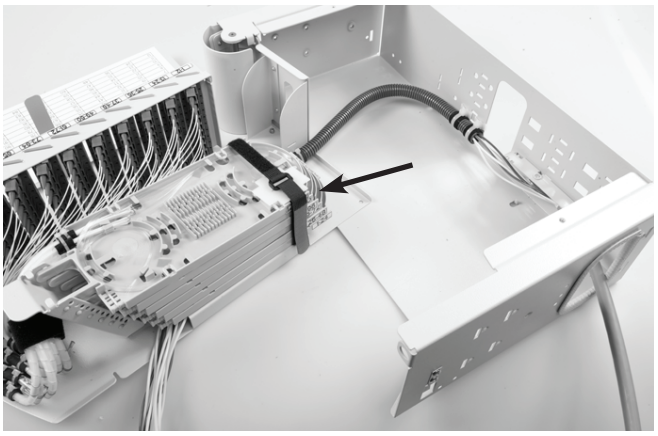
4.4 Secure the termination unit by pulling the cable till it clicks.

B BACK Cable Entrance - Secure the cable termination unit at the back of the shelf.

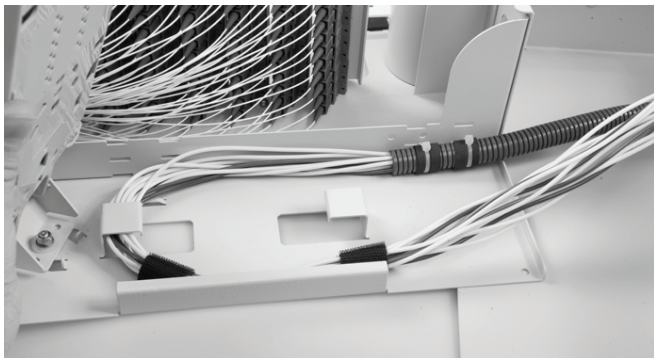
Use the same method as for the inside cable termination type (see 4.5). There are other positions available for additional cables termination – optional.

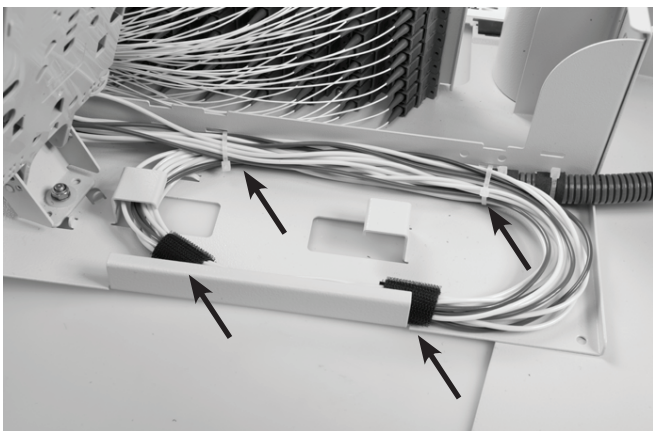


4.5 Slide the termination unit into 1st position for cable termination. Push the termination unit against the shelf. Secure the termination unit by pulling the cable till it clicks.

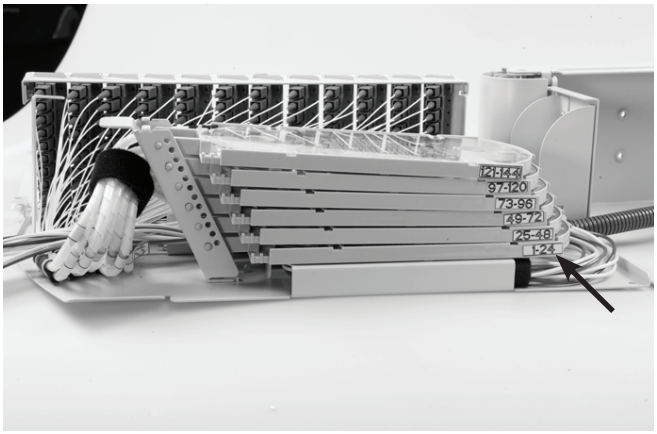


4.6 Release the hook and loop fastener and lift all trays to access the storage area.

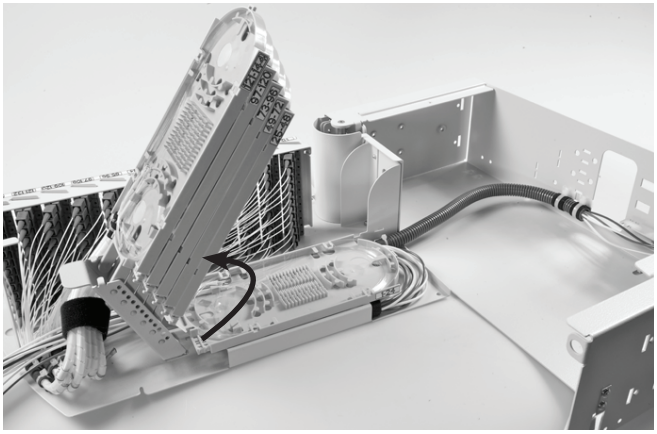


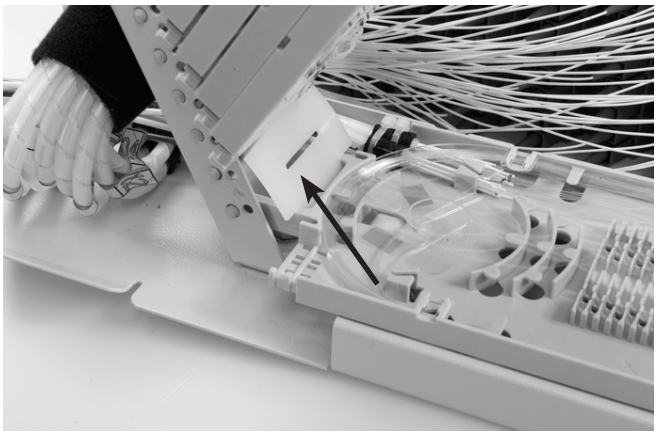


4.7 Make a loop with all loose tubes and store it under the trays. Secure with tie wraps and hook and loop fasteners as shown.

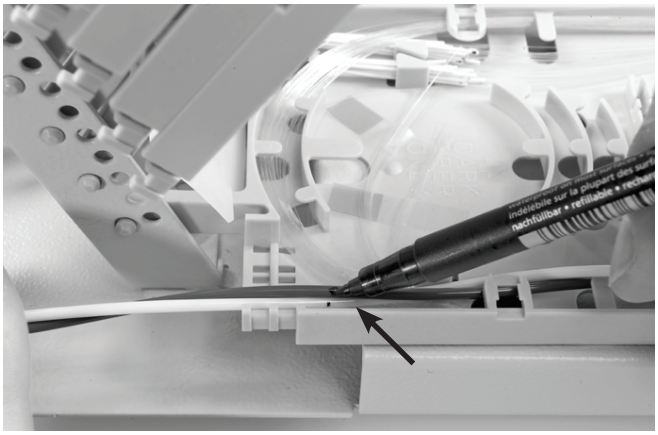


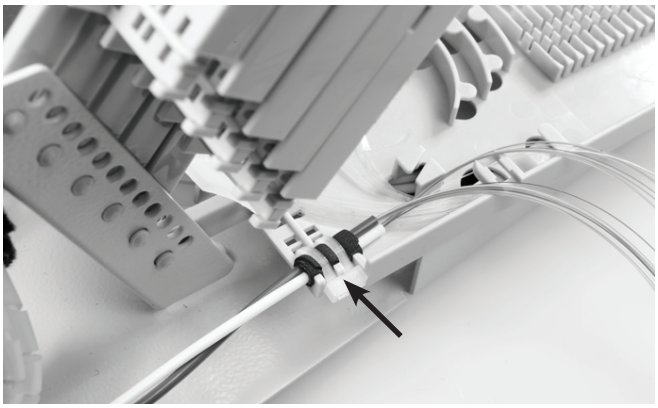
4.8 Select the tray number 1-24 to start with – all are numbered on the side.



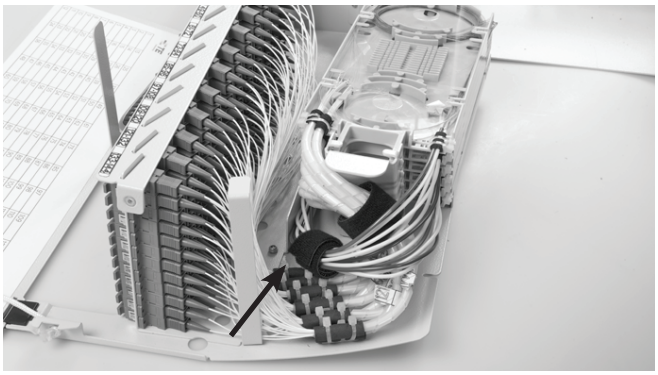


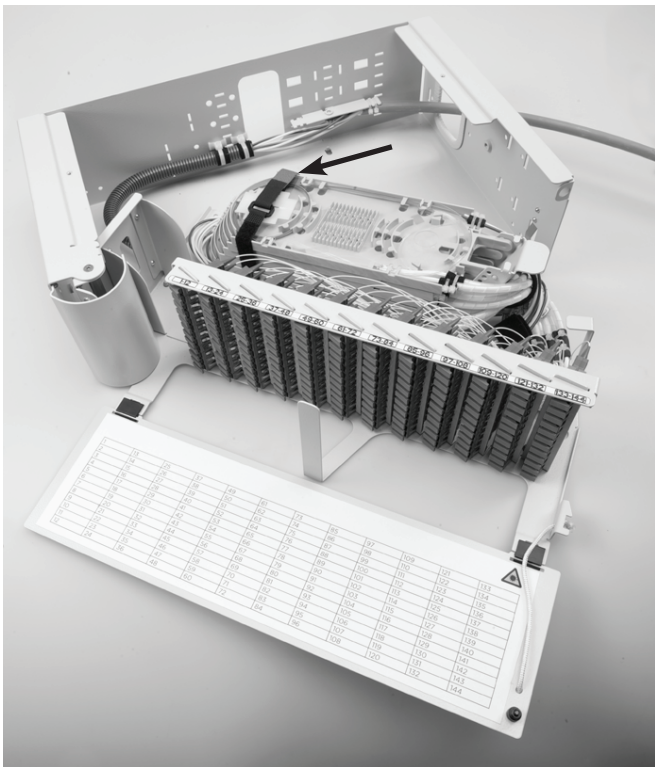
4.9 Lift the other trays up and use the wedge to hold them in this position.





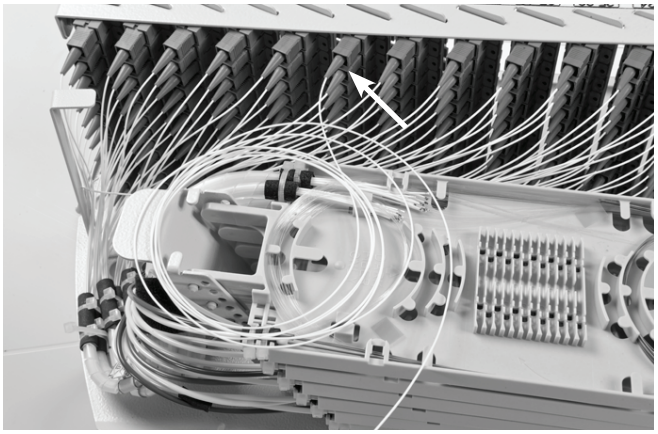
4.10 Bring the loose tube into each tray and mark it as shown above. Strip the loose tube at marked position. Put foam around both loose tubes and secure them together using two tie wraps as shown above.

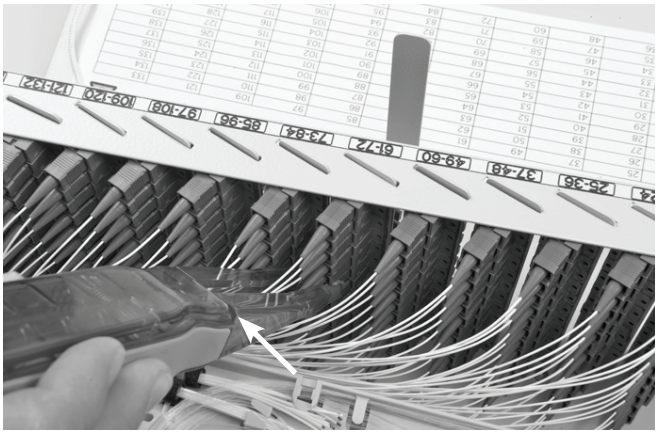




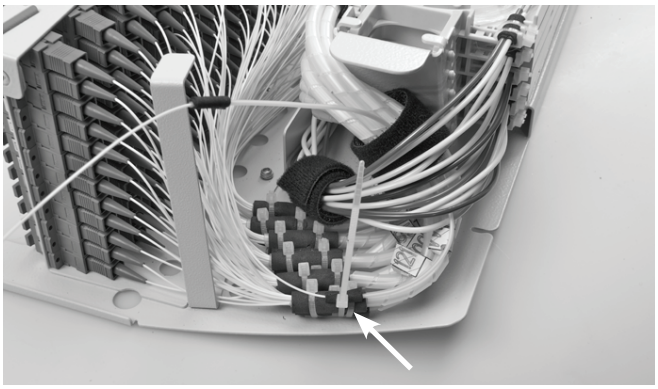
4.11 Once all loose tubes are guided into the trays, secure them using hook and loop fastener as shown above. Secure the trays also with hook and loop fastener.

5 Replacing a bad pigtail

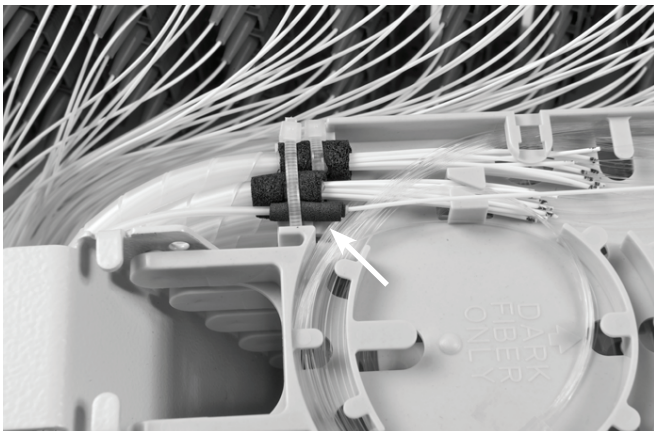




5.1 Remove the bad pigtail from the patch panel. Plug a new one into the same position.
Note: To handle carefully all pigtails at the bottom it is recommended to use a tool to get them replaced.

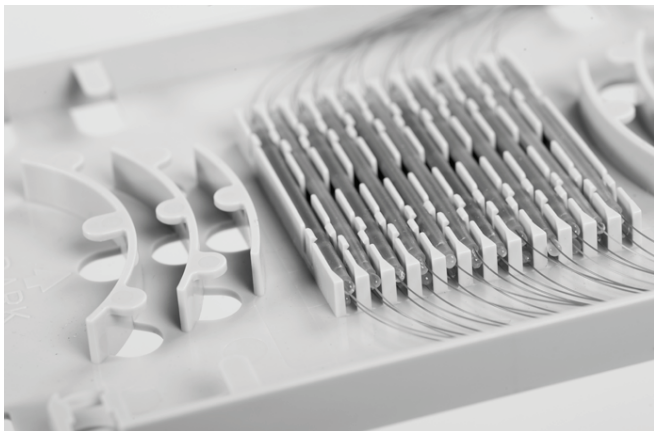


5.2 Feed the pigtail through a FOPT tube. Route the new pigtail along with the other pigtails to the tubes fixation area. Fasten the pigtail FOPT tube on top of the spiral tubes using a tie wrap.

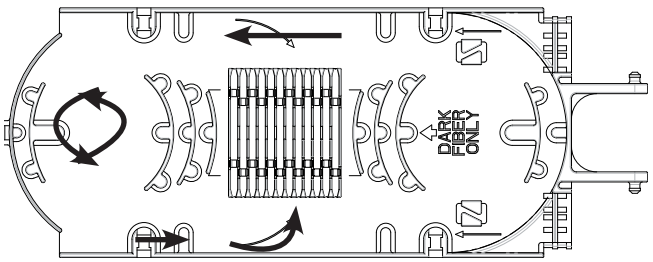


5.3 Guide the FOPT tube along with other spiral tubes into the proper tray. Secure the FOPT tube next to the spiral tubes using a tie wrap. If there is no space fasten it on top of one spiral tube instead.

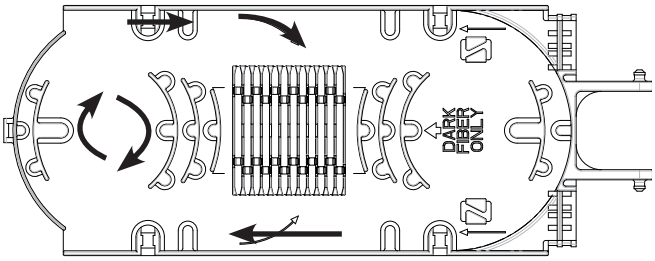
6 Routing and splicing



6.1 After each splice is made, the splice should be stored as indicated on the picture above. First protector in position 1, the second in position 2 on top of the first one.



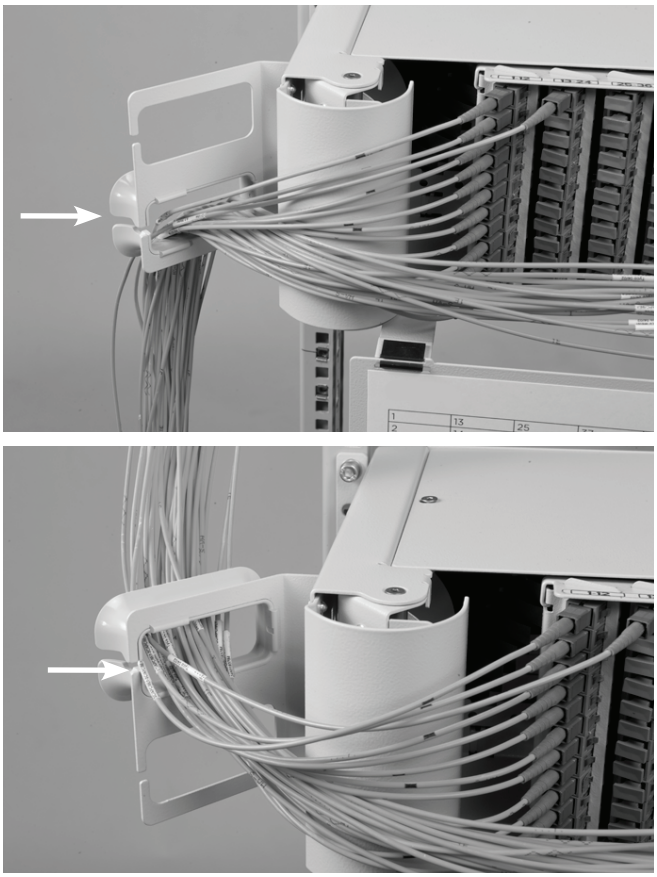
6.2 Once all splice protectors are installed in the tray, take all fibers on one side and store them in the slack storage.



6.3 Repeat this operation for the fibers on the other side. Once all fibers are routed properly into the slack storage, secure them using the plastic transparent cover on top.

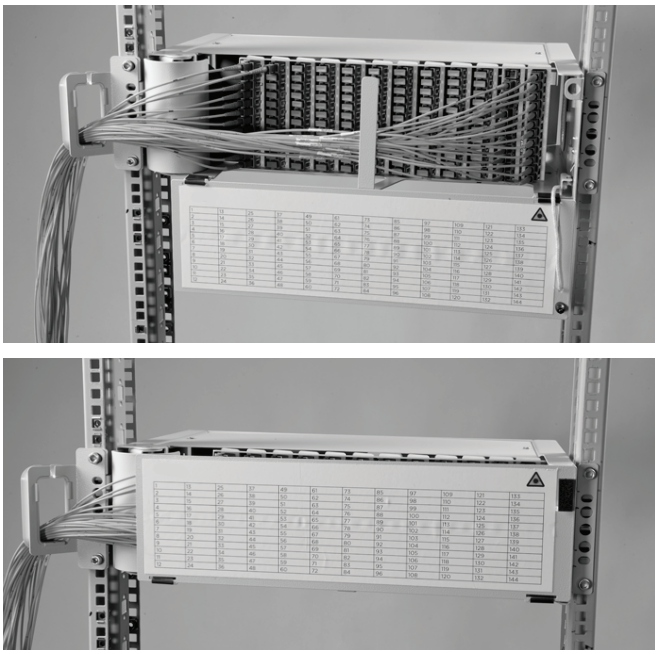
7 Routing jumpers

A BACK mounting of the shelf

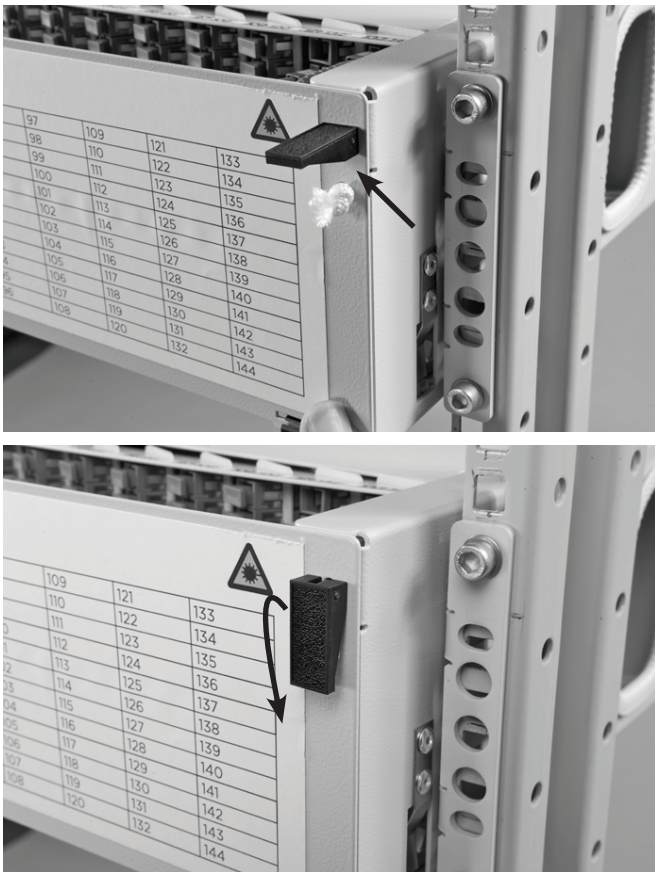


7.1 Patch the outgoing jumpers and guide them through the protection trumpet. Place the trumpet in the bottom position for jumpers going downwards. For jumpers going upwards up the trumpet needs to be placed in the top position.

B FRONT mounting of the shelf



7.2 Patch the outgoing jumpers and guide them through the protection trumpet. The shelf contains two labels for connection notes.



7.3 Close the front panel and secure it by pulling down the black plastic lock.

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