

ODF INSTALLATION GUIDE

# Elevate Optical Distribution Frame

OPTICAL DISTRIBUTION FRAME

## Table of Contents

|                                      |    |
|--------------------------------------|----|
| Frame Installation.....              | 4  |
| Components Installation Advice ..... | 13 |
| Cable Routing.....                   | 20 |

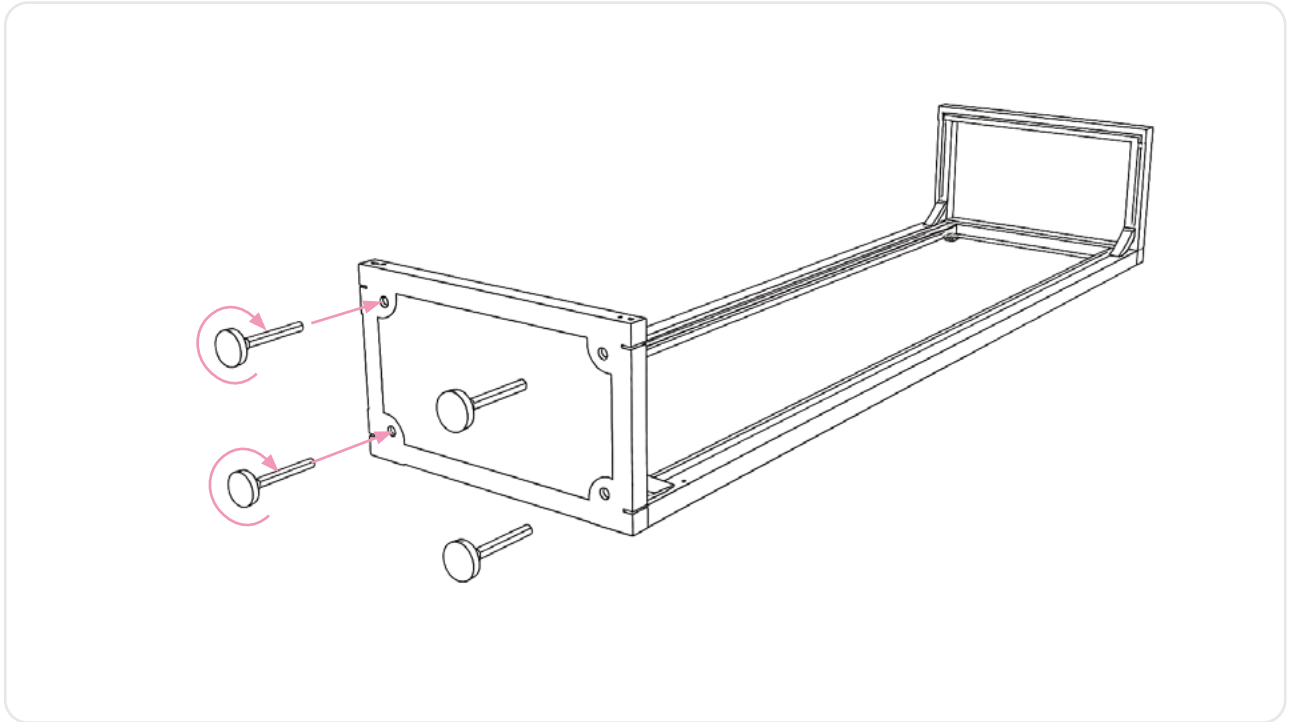
## Optical Distribution Frame (ODF) -assembled product view



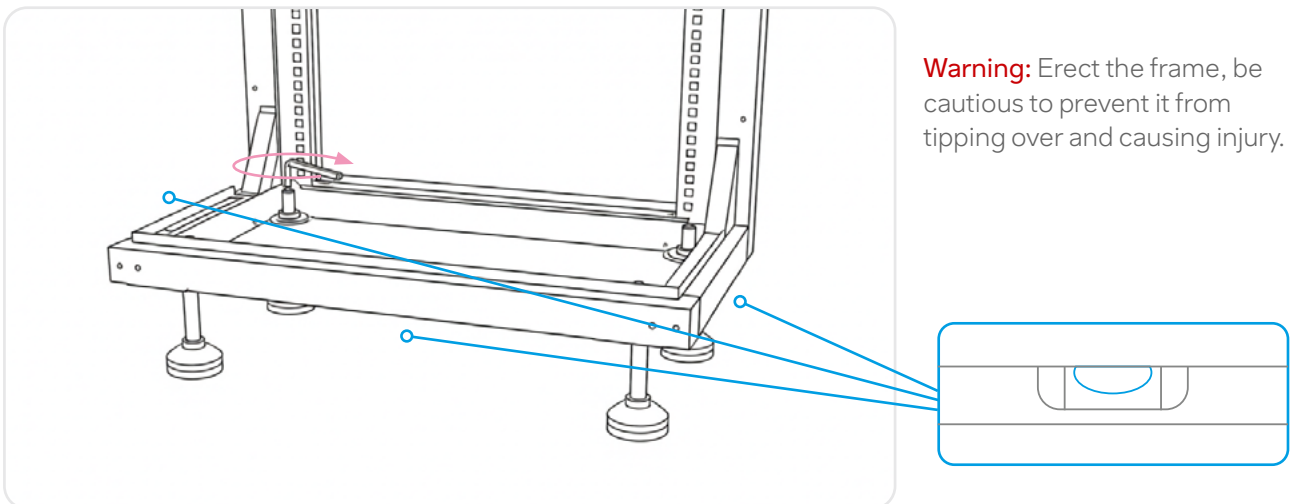
## 1. FRAME INSTALLATION

### 1.1. Option 1 - Free standing with adjustable feet

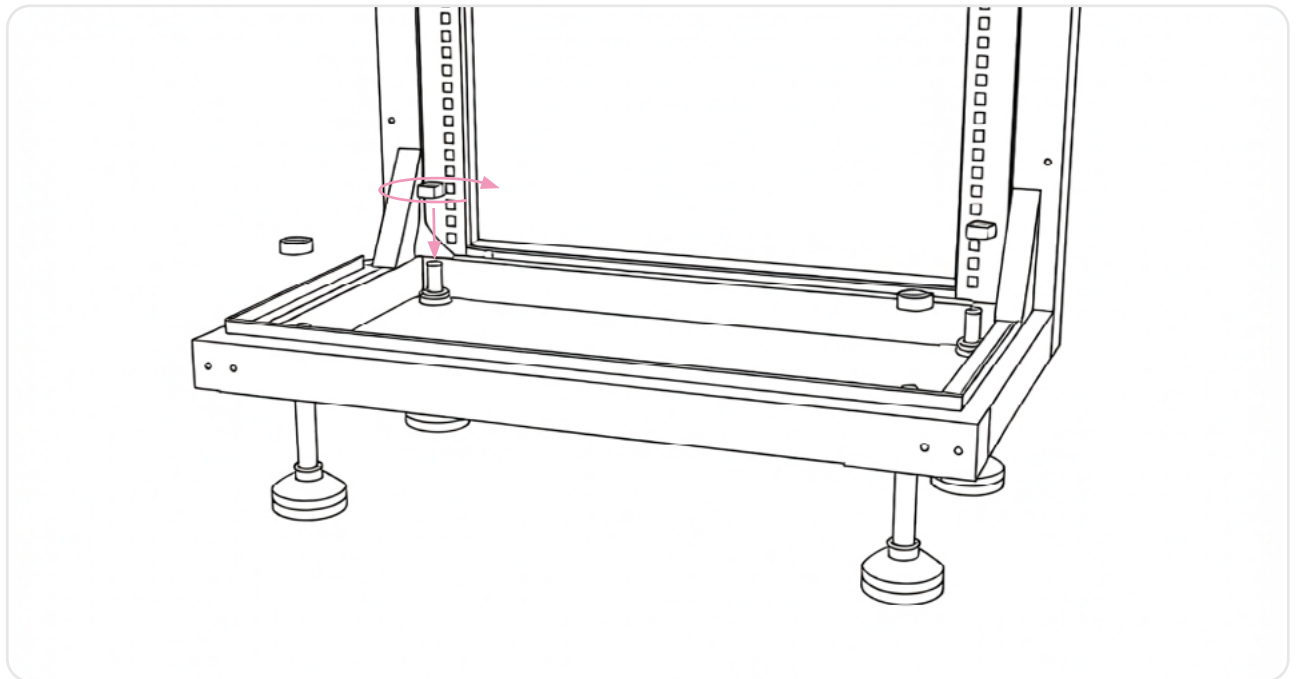
1.1.1: Install four foot pads under the frame and adjust them to same length.



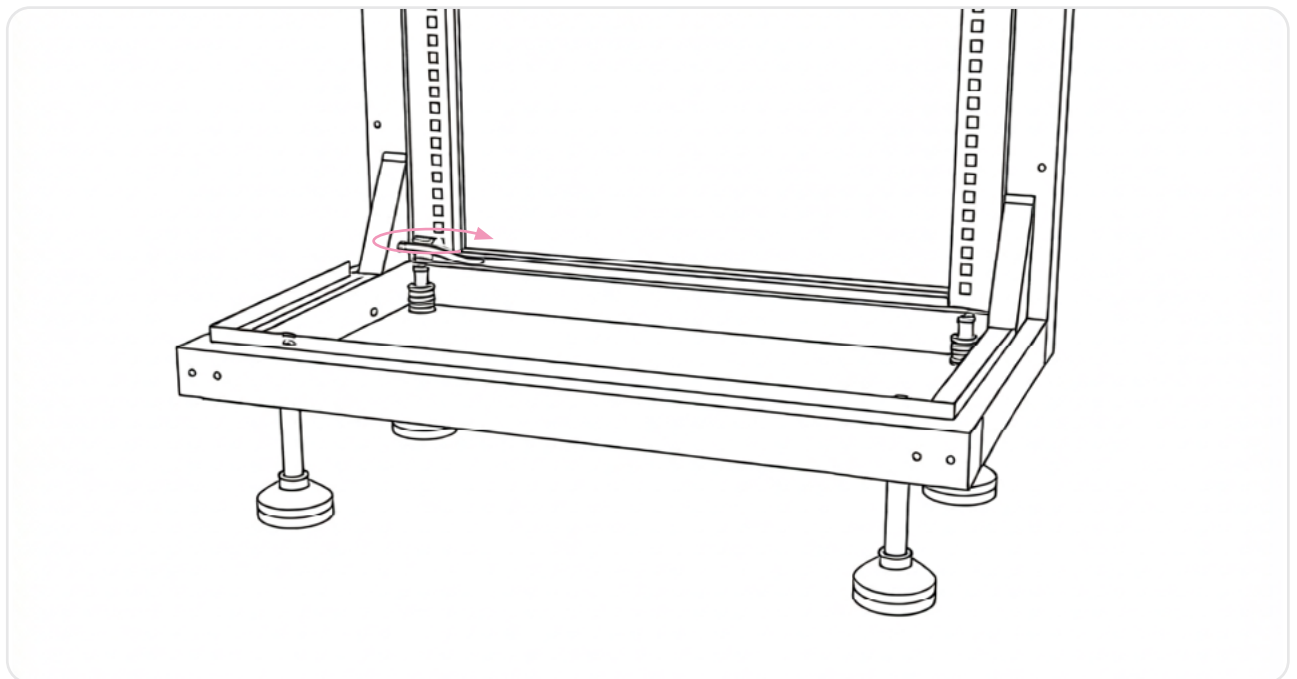
1.1.2: Erect the frame, place the level on a suitable surface, observe the level's status, and use a hex key to turn the feet, adjusting the cabinet until it is level.



1.1.3: After adjusting the cabinet's level and height, secure the four feet with the locking nuts.

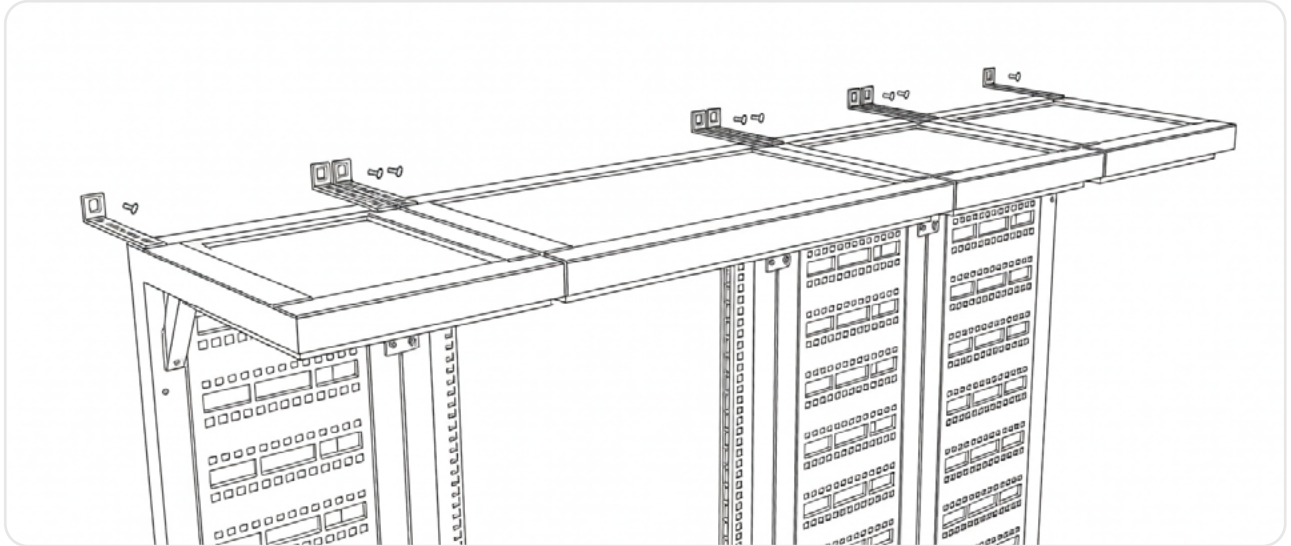


1.1.4: Secure the locking nuts using a hex socket wrench.



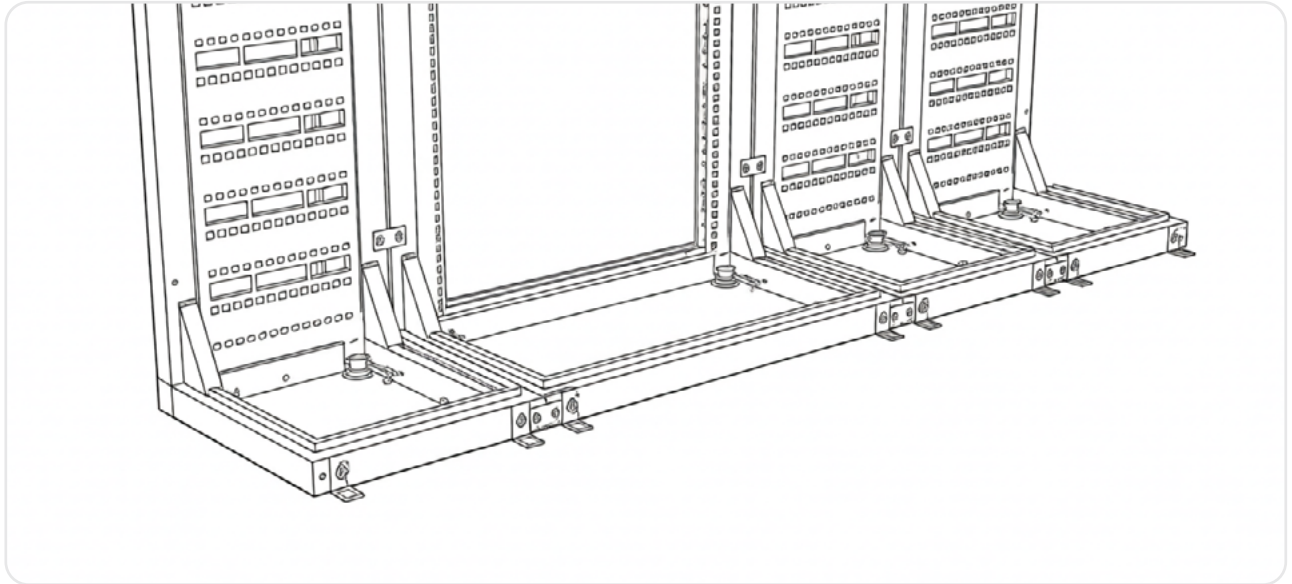
## 1.2. Option 2 - Screw to wall

1.2.1: Wall deployments use L-shaped stabilizers to connect to the cabinet and wall anchor points.

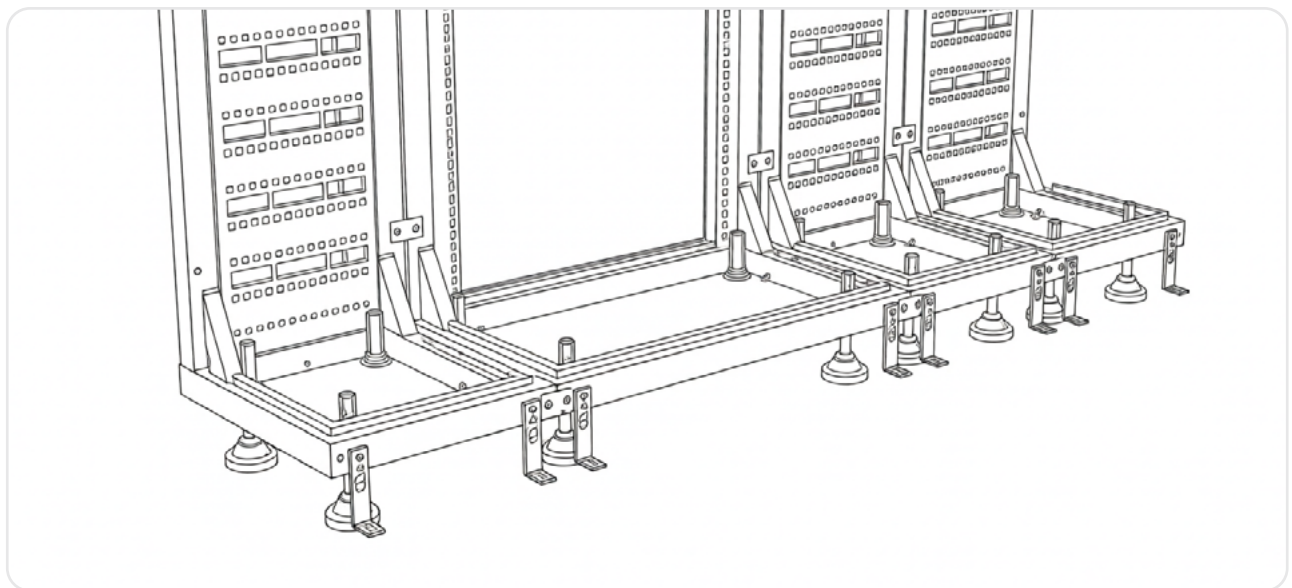


### 1.3. Option 3 - Screw to floor

1.3.1: Stabilizing brackets can be mounted at the base of the frame, with one end fixed to the frame and the other end secured to expansion anchors embedded in the floor.

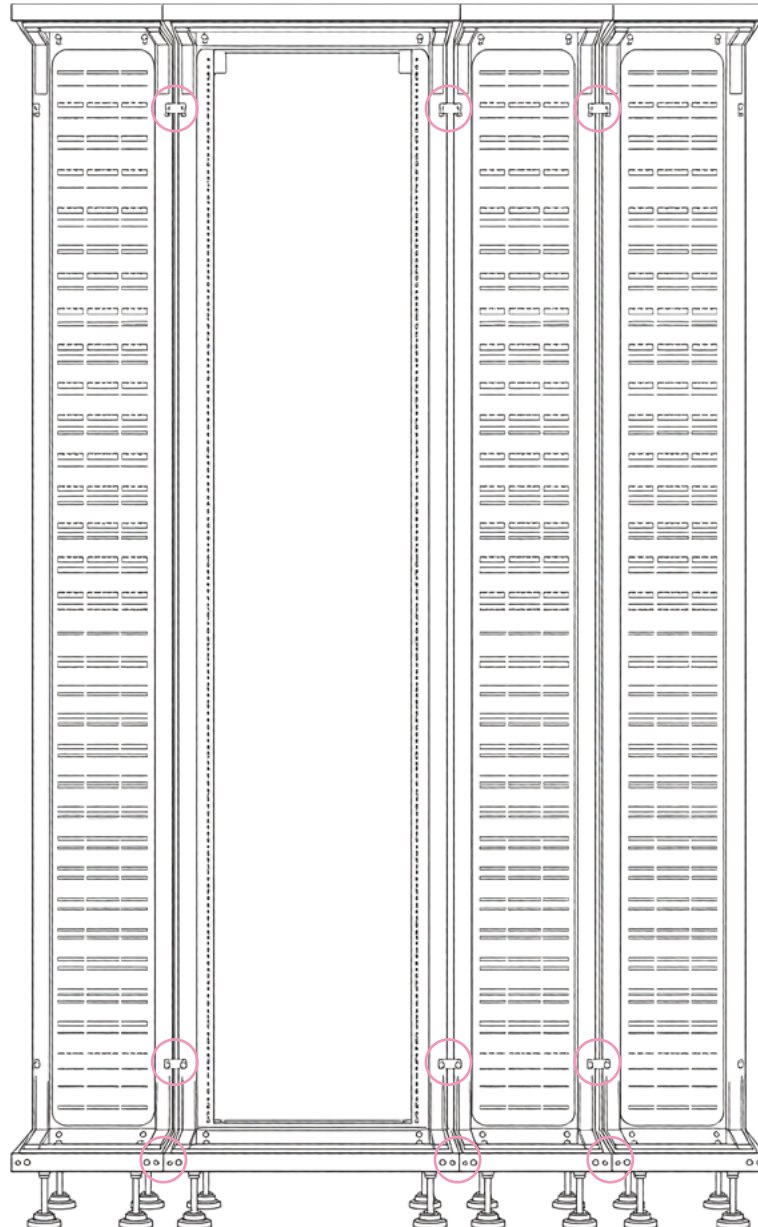


1.3.2: The frame contains feet pad floor installations. Stabilizing brackets can be mounted at the base of the frame, with one end fixed to the frame and the other end secured to expansion anchors embedded in the floor.

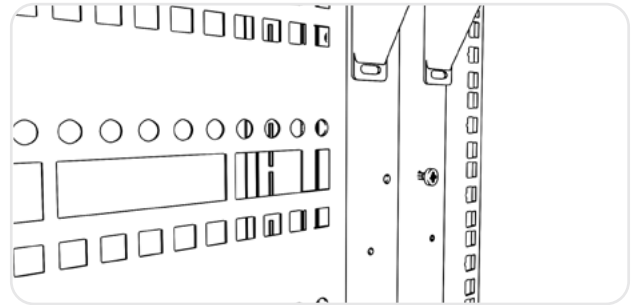
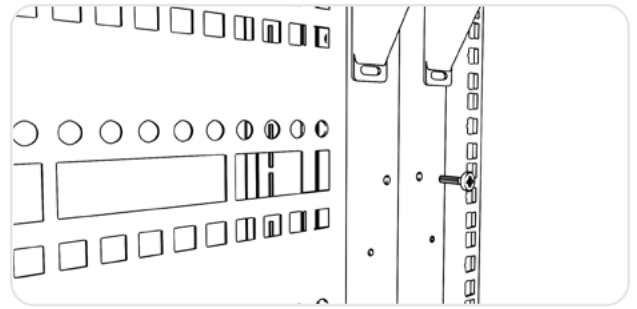


## 1.4. Interconnecting frame

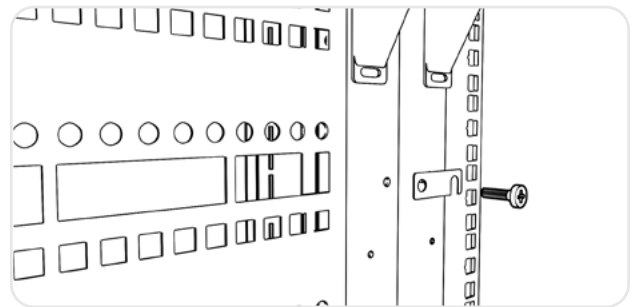
### 1.4.1: Locate the connection points



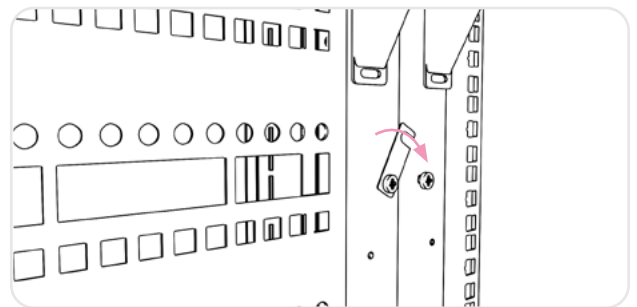
1.4.2: Pre-install an M6 screw in the frame interconnecting hole, but do not fully tighten it-leave approximately 5mm of gap.



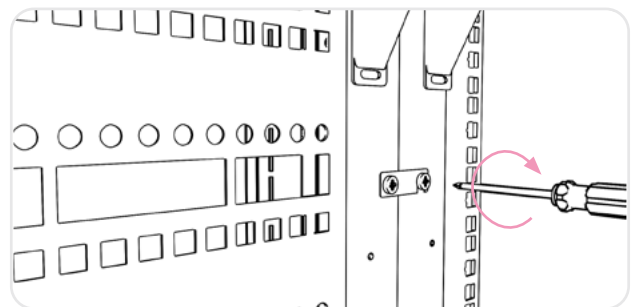
1.4.3: Insert the M6 screw through the round hole of the coupler, then tighten it into the frame interconnecting hole.



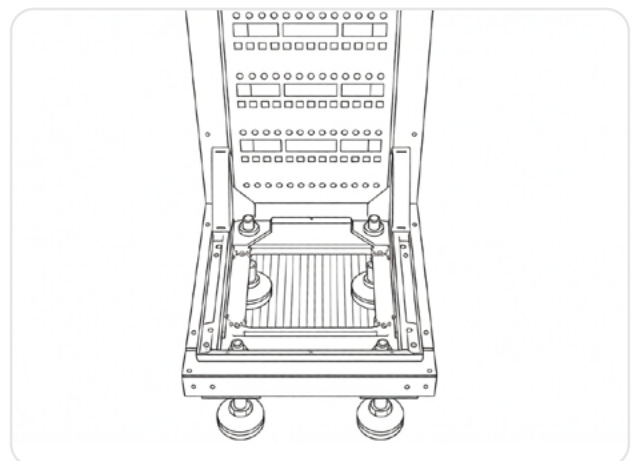
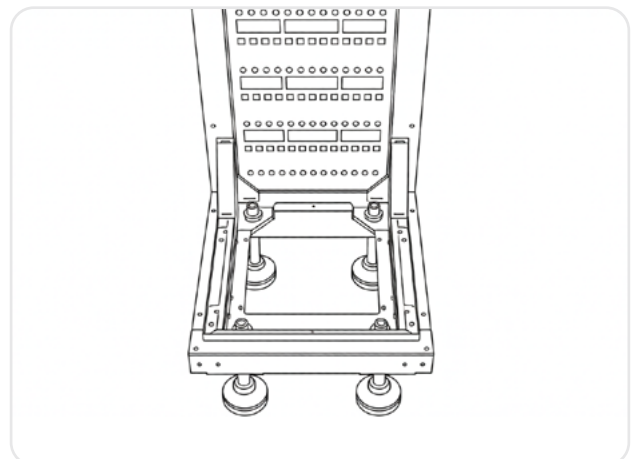
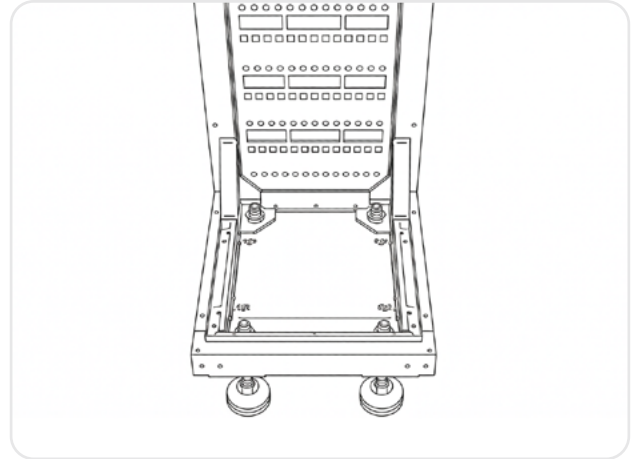
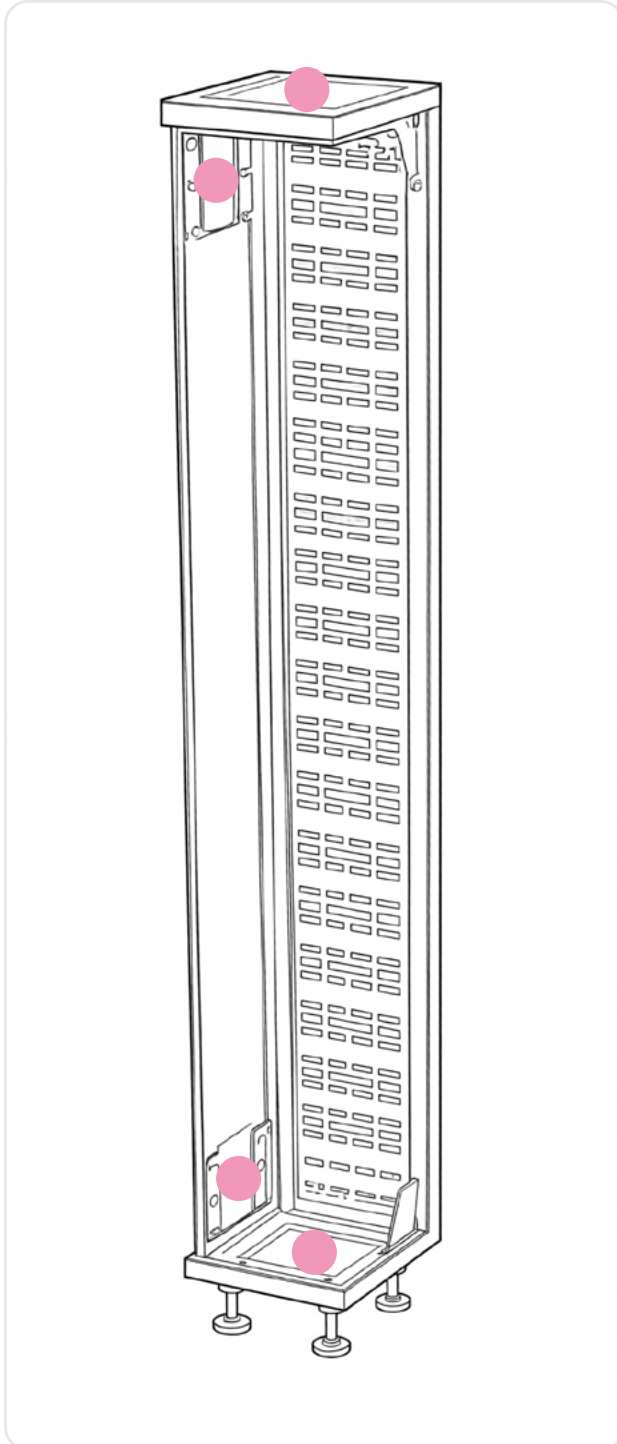
1.4.4: Rotate the coupler to hook its open slot onto the pre-installed M6 screw



1.4.5: Secure the screw using a screwdriver

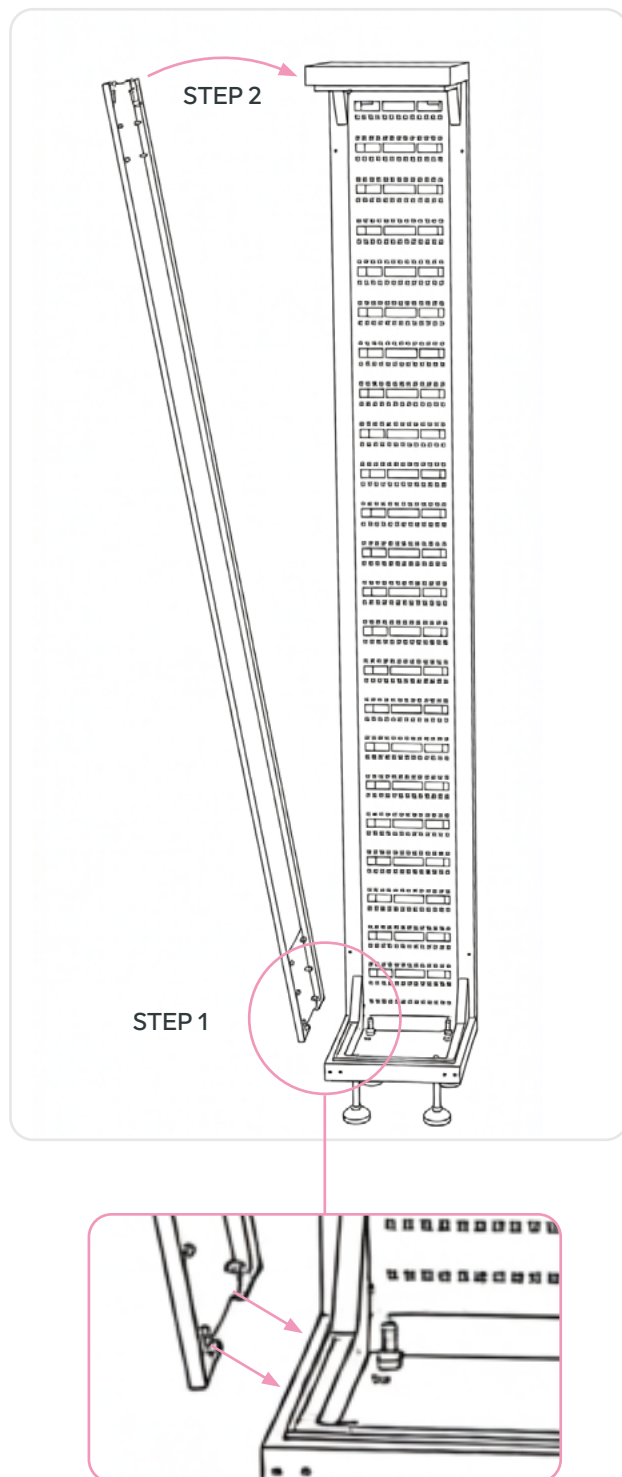


## 1.5. Installing frame cable brush grommets

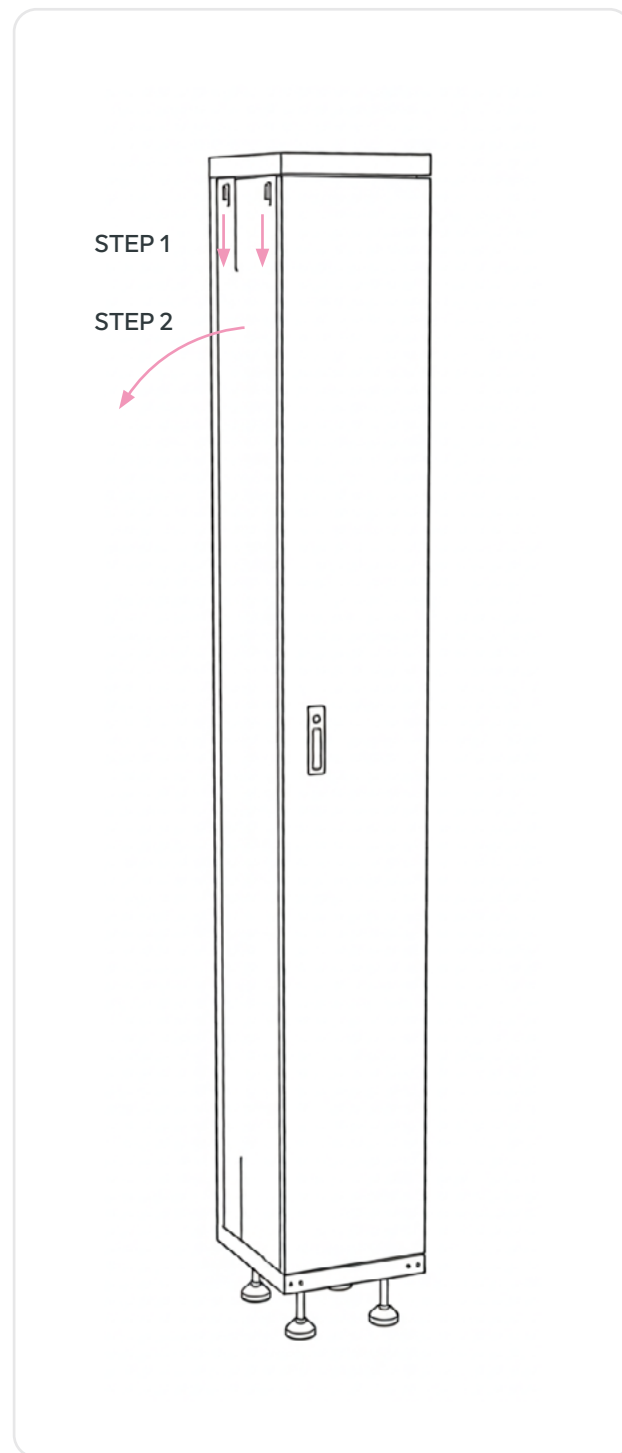


## 1.6. Installing frame side door

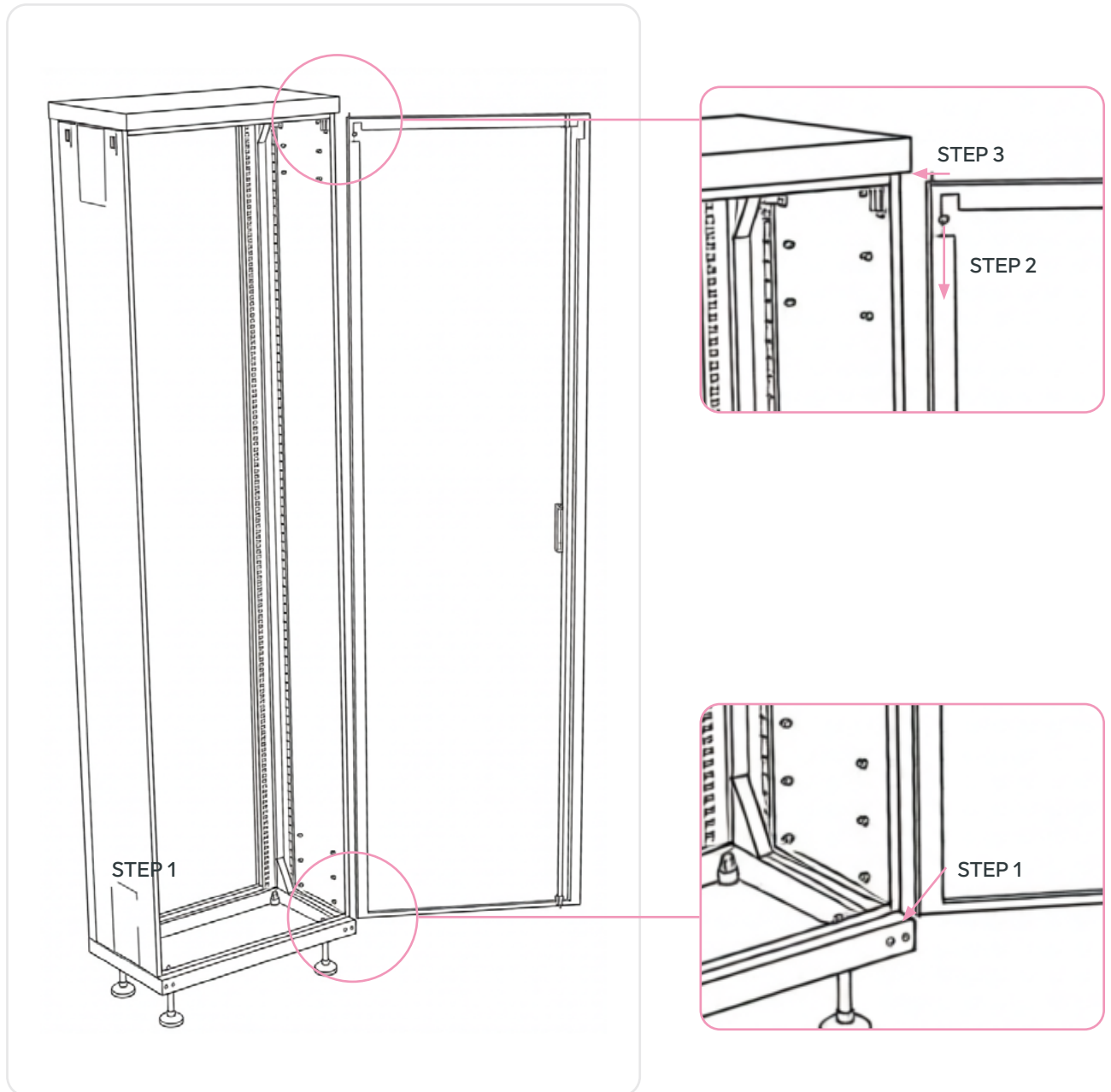
### 1.6.1: Installation



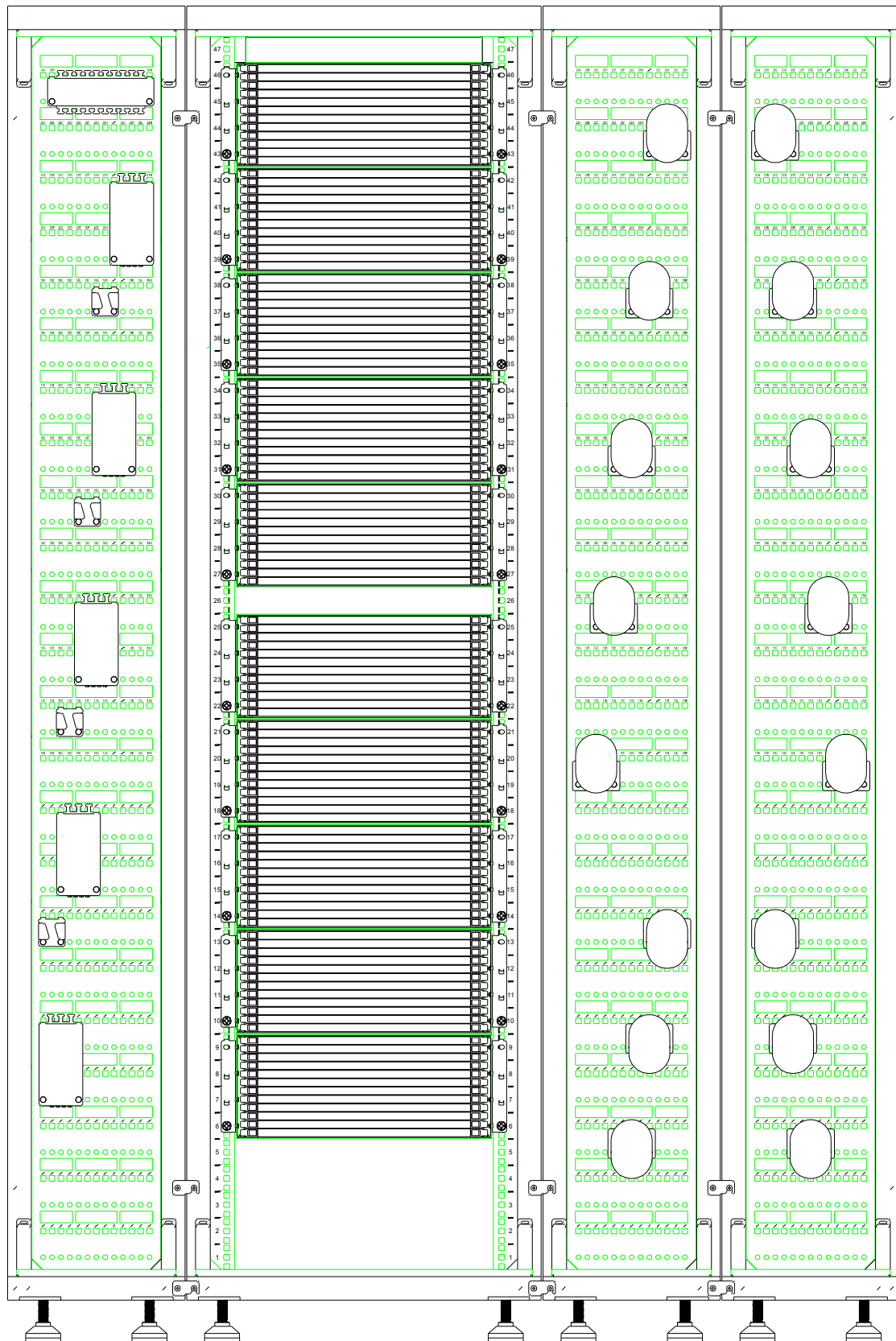
### 1.6.2: Removal



## 1.7. Installing frame front doors

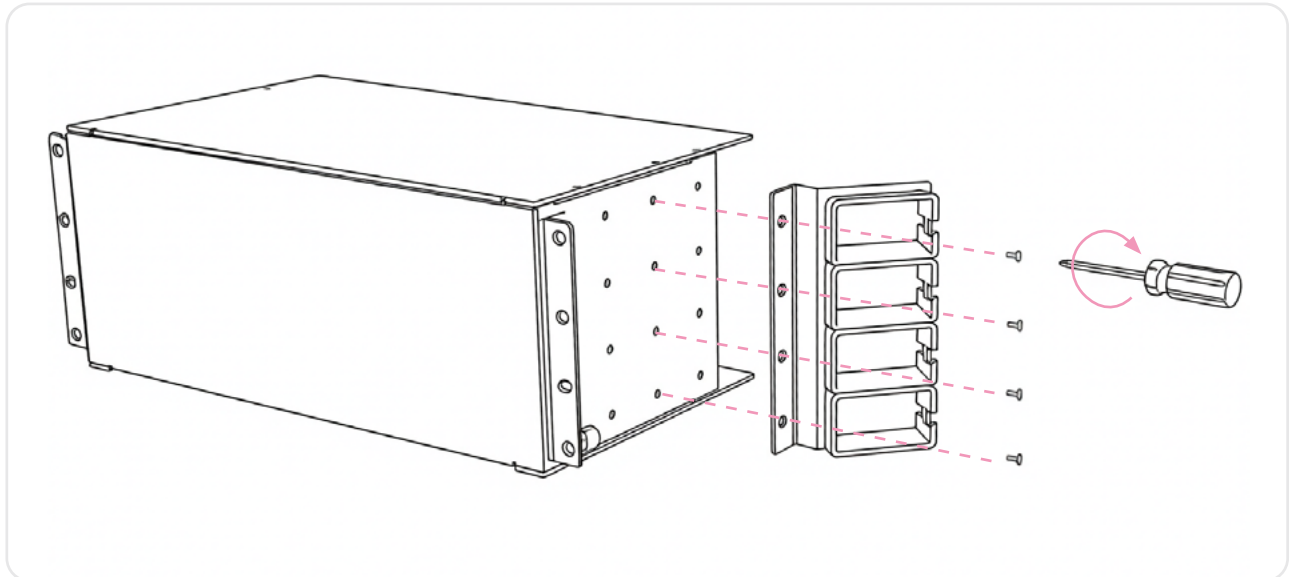


## 2. COMPONENTS INSTALLATION ADVICE

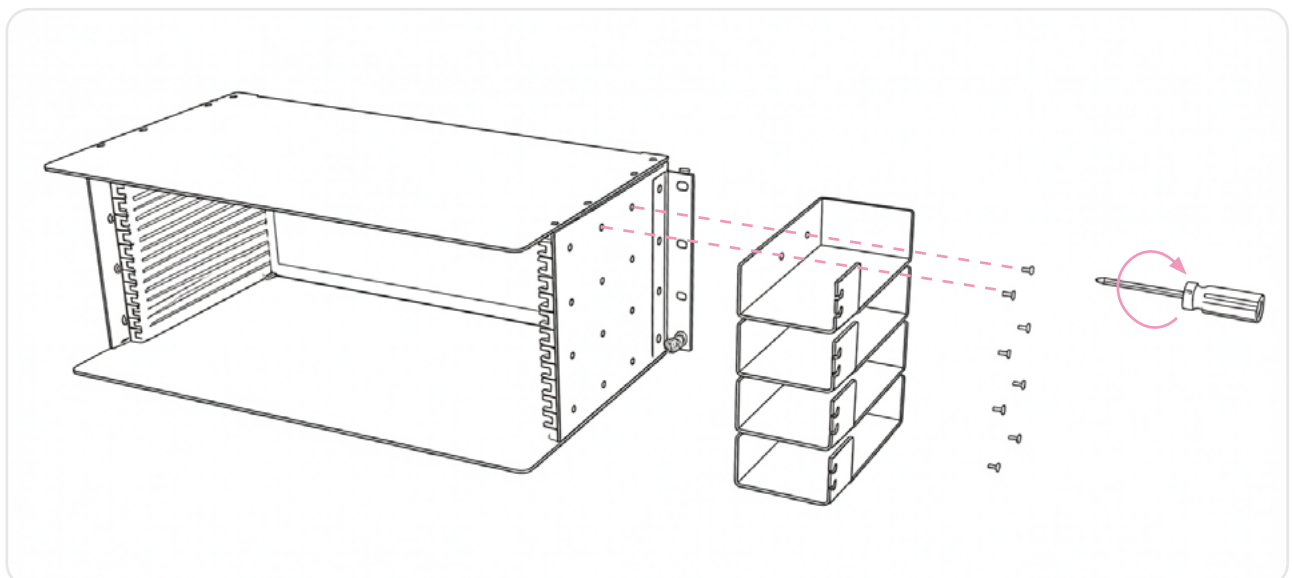


## 2.1 Installing Fibre Chassis

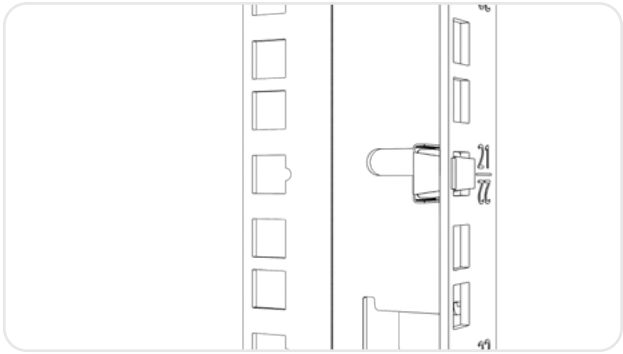
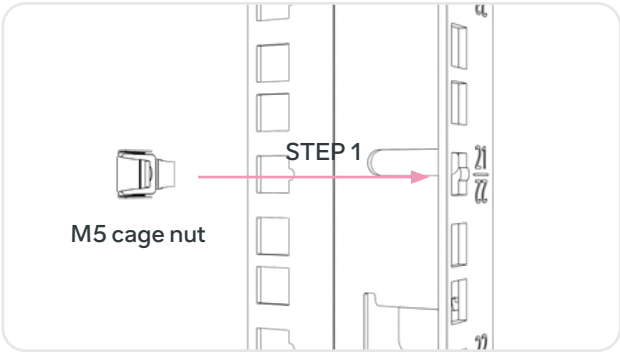
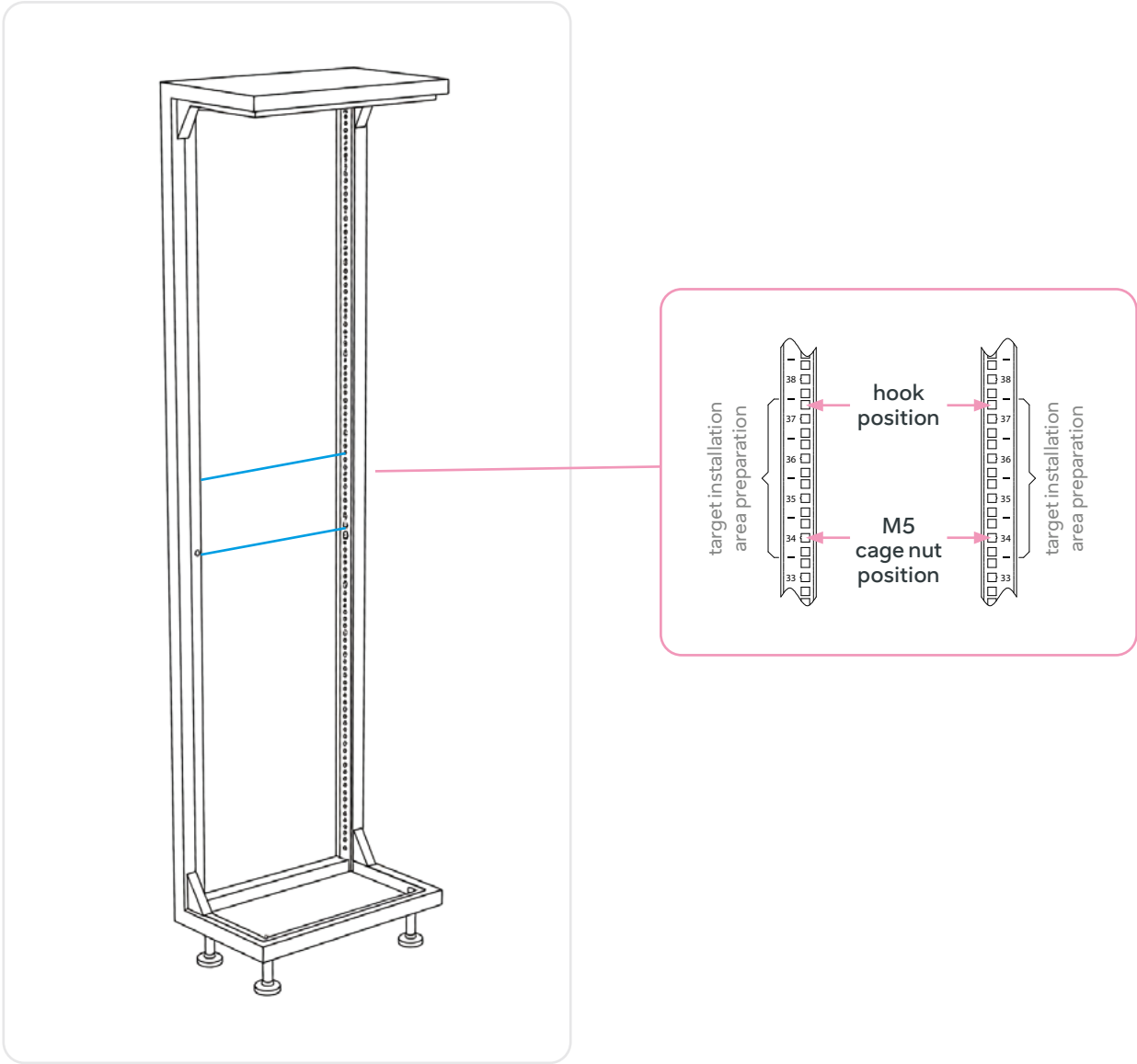
### 2.1.1: Installing cable management panel as needed

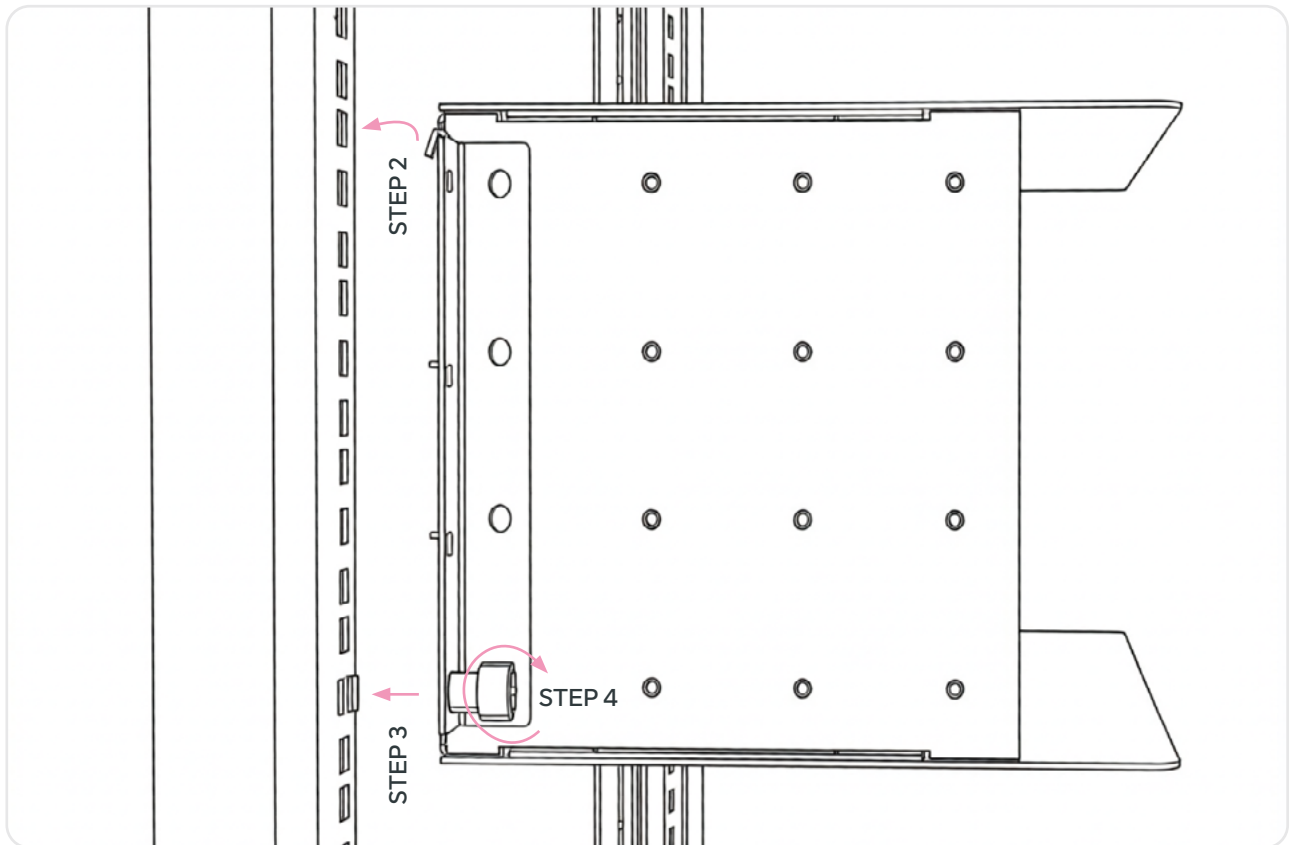


### 2.1.2: Installing output cable buffer panel

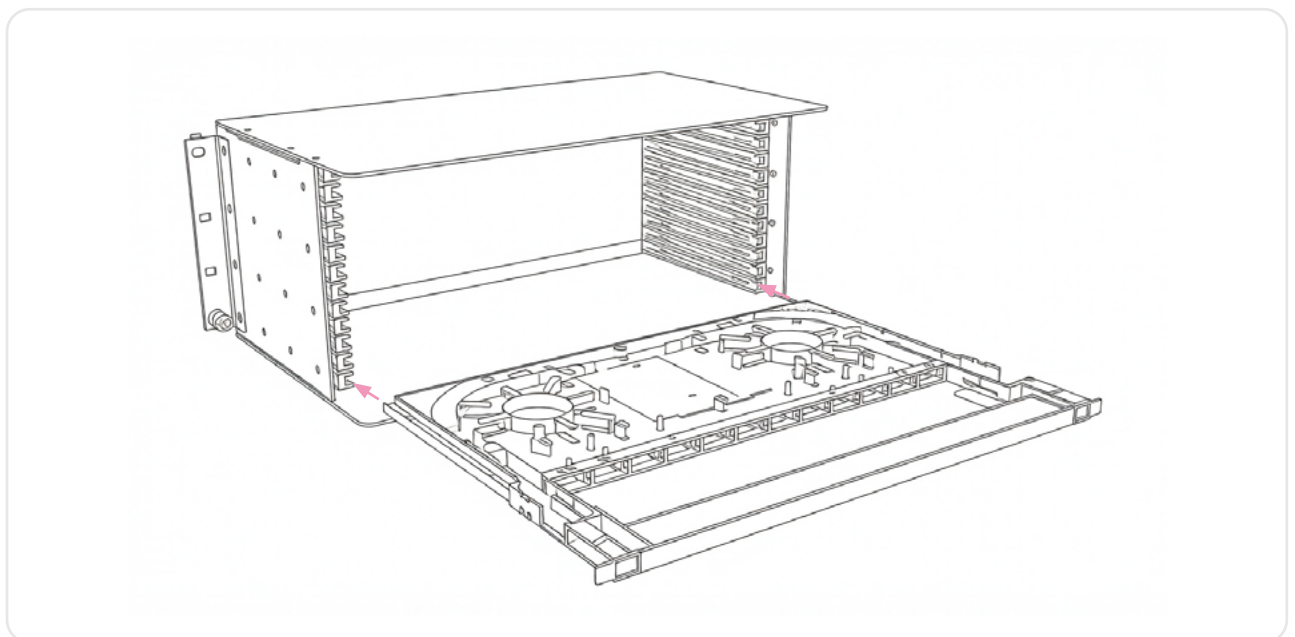


2.1.3: Installing the Chassis into the frame

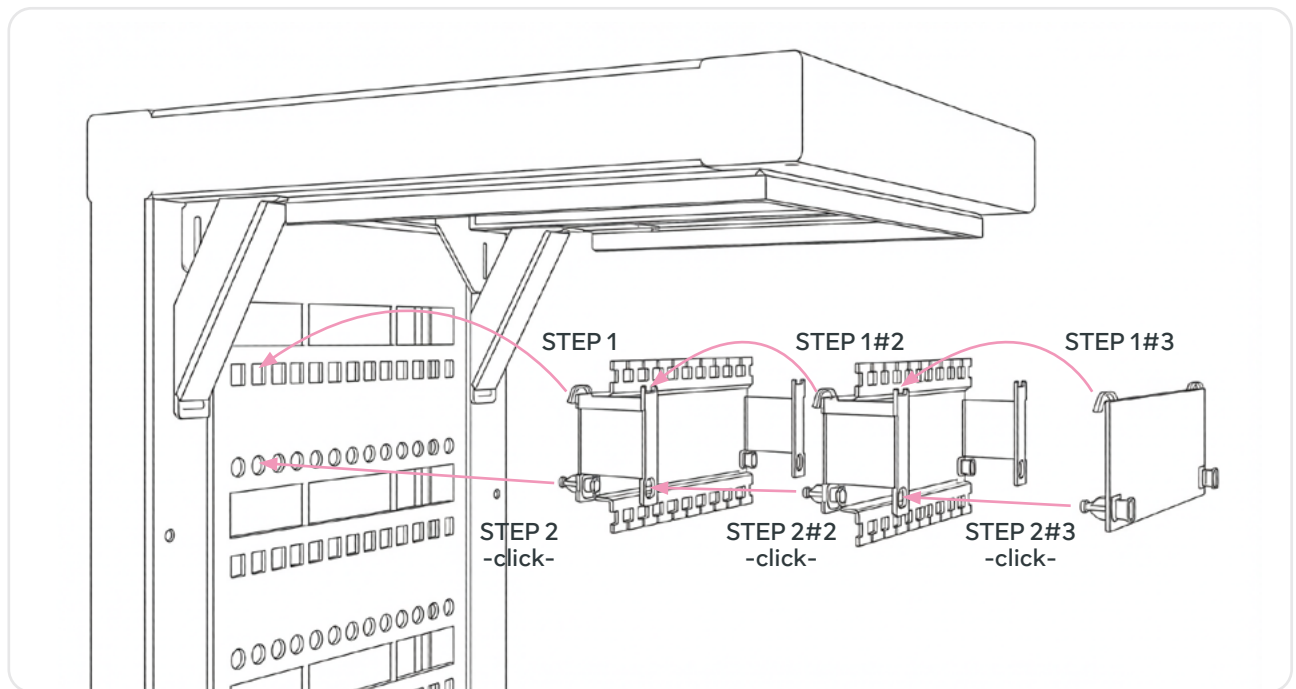




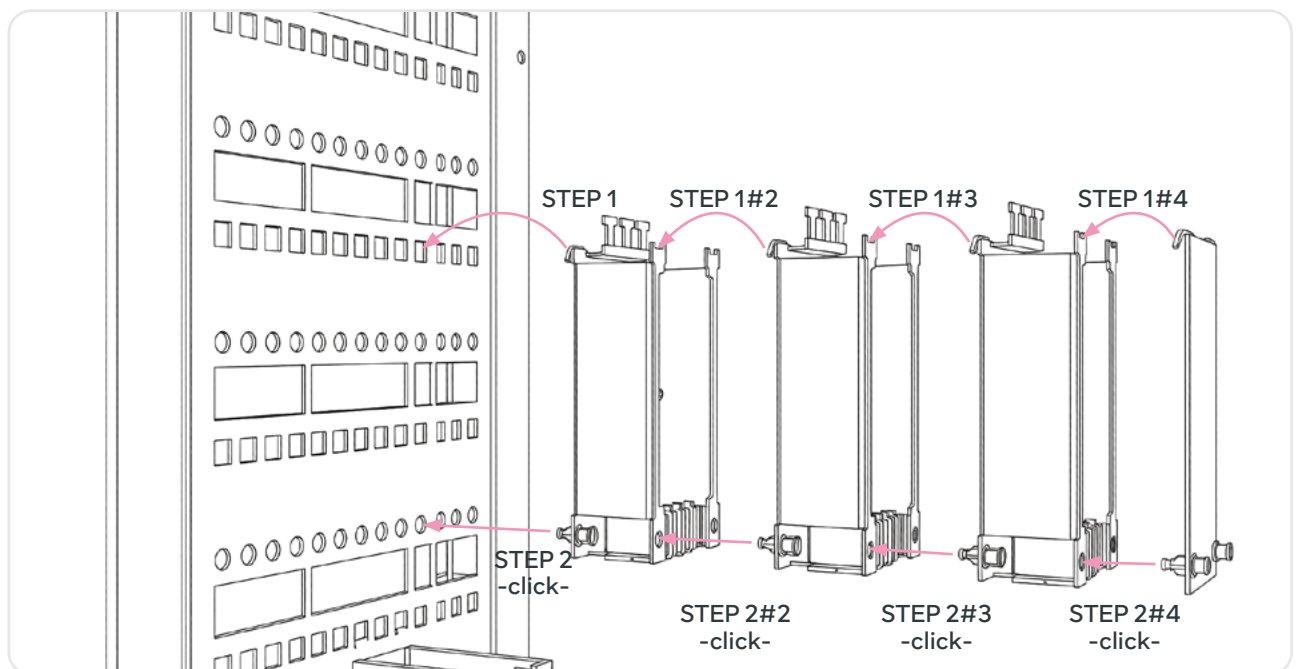
#### 2.1.4: Installing the fibre tray assembly into the Fibre Chassis



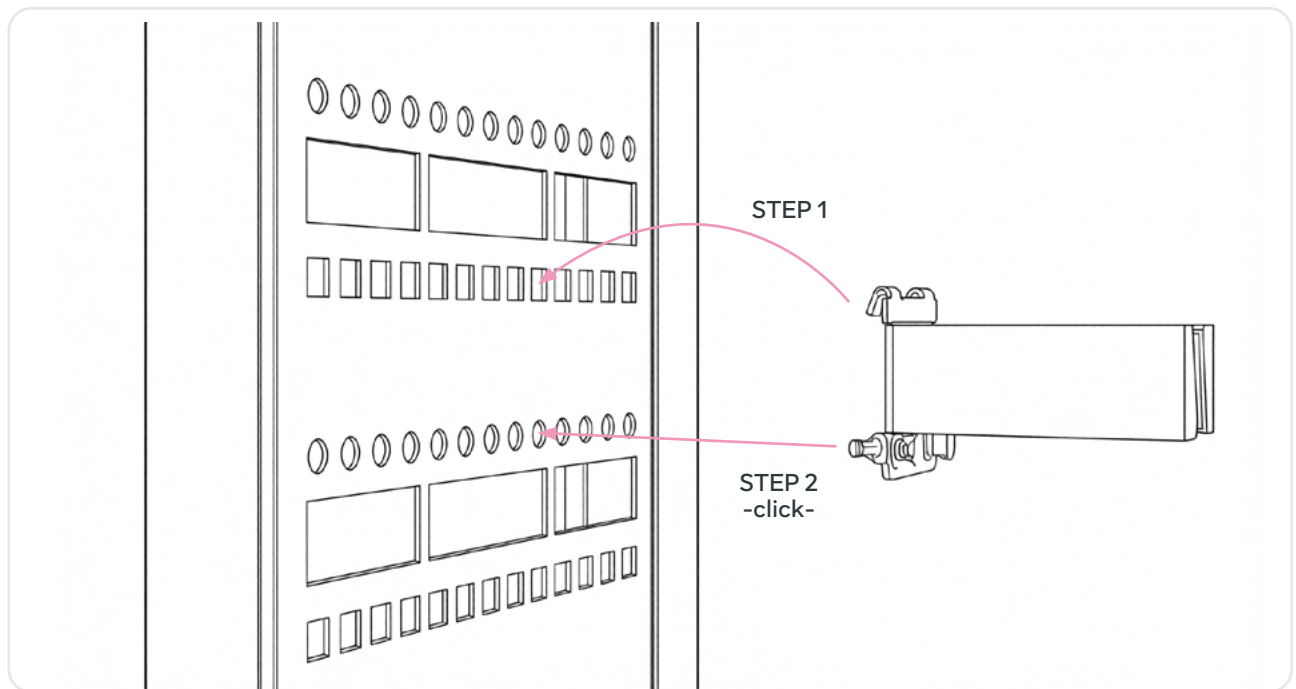
## 2.2 Installing stackable clamp panel for input cable



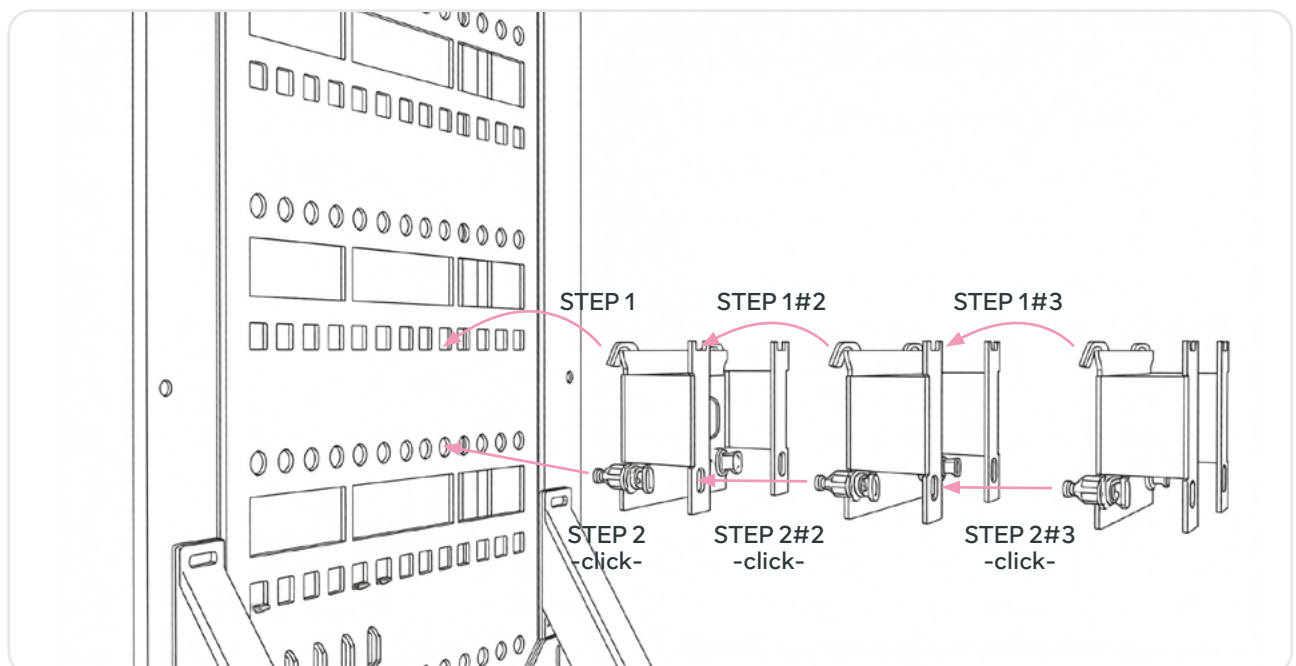
## 2.3 Installing stackable fanout-kit for input cable



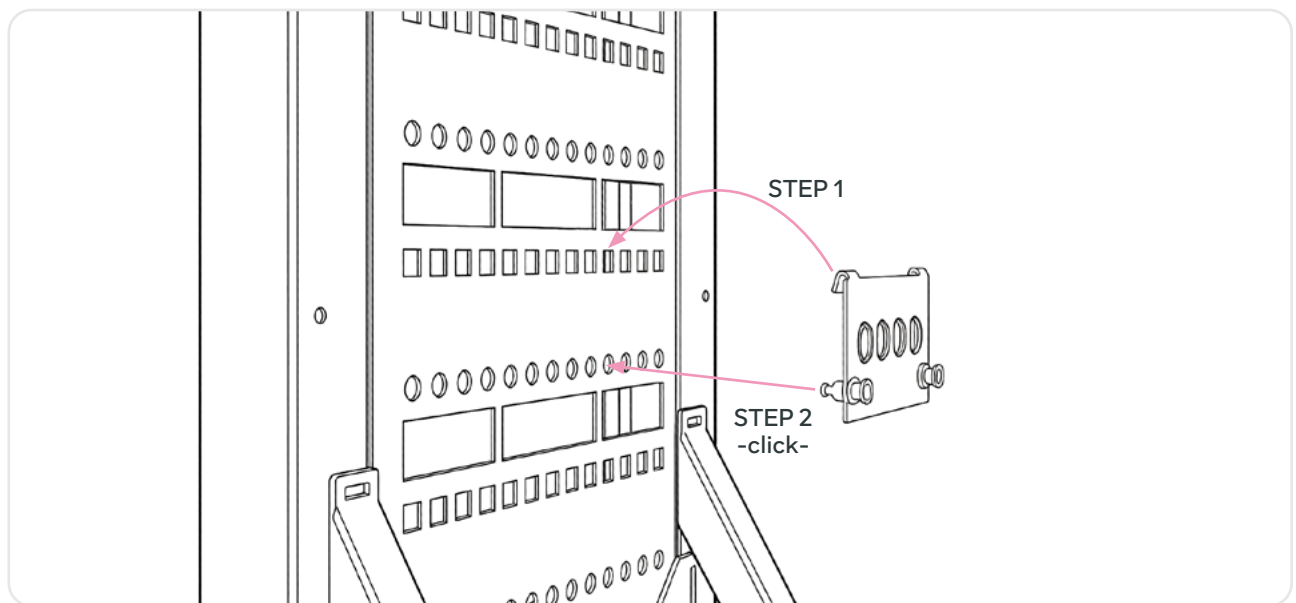
## 2.4 Installing cable managers



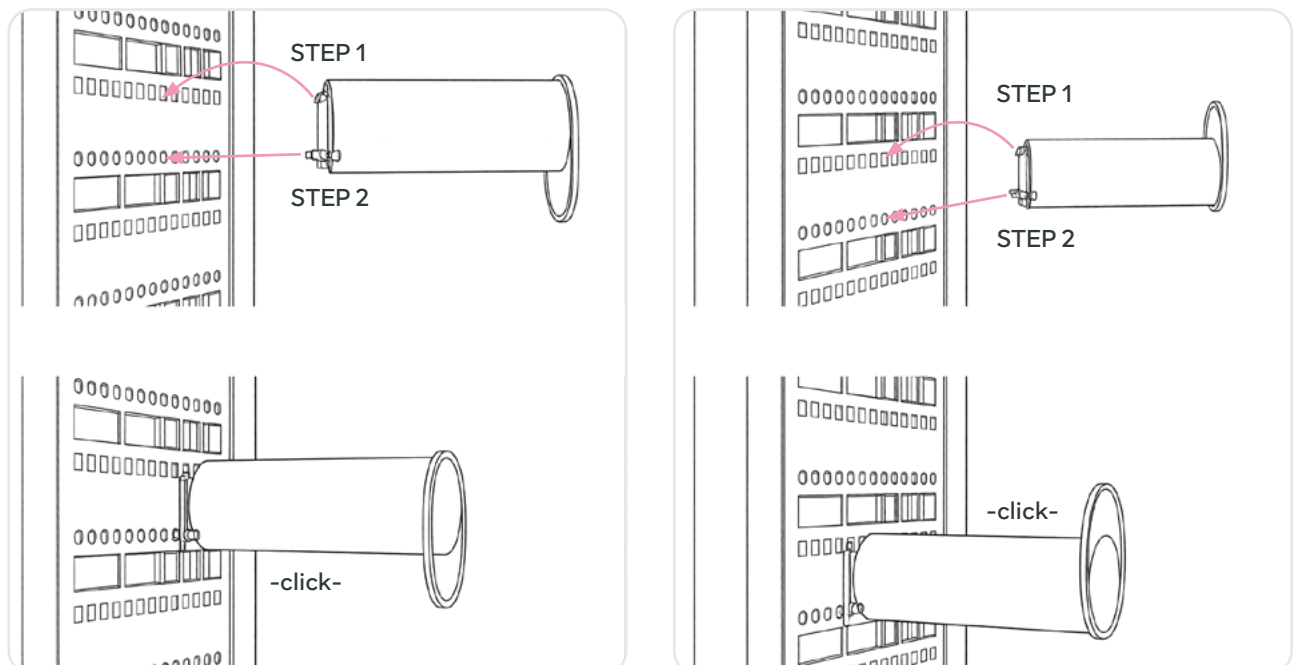
## 2.5 Installing stackable cable tie panel



## 2.6 Installing single-layer cable tie panel

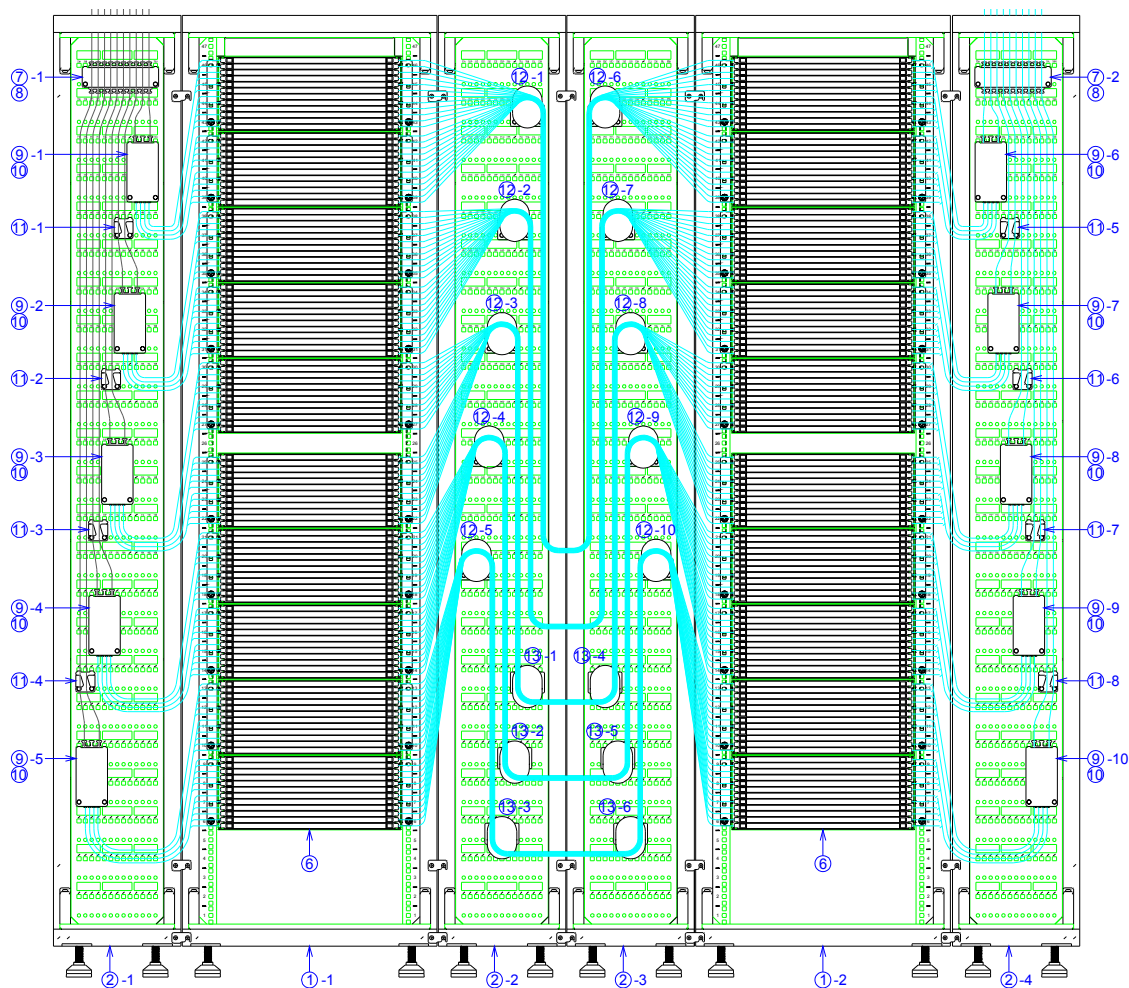


## 2.7 Installing cable management spool (flange is reversible see note)



### 3. CABLE ROUTING

#### 3.1 An example of a full cable optical cross-connect(OXC)



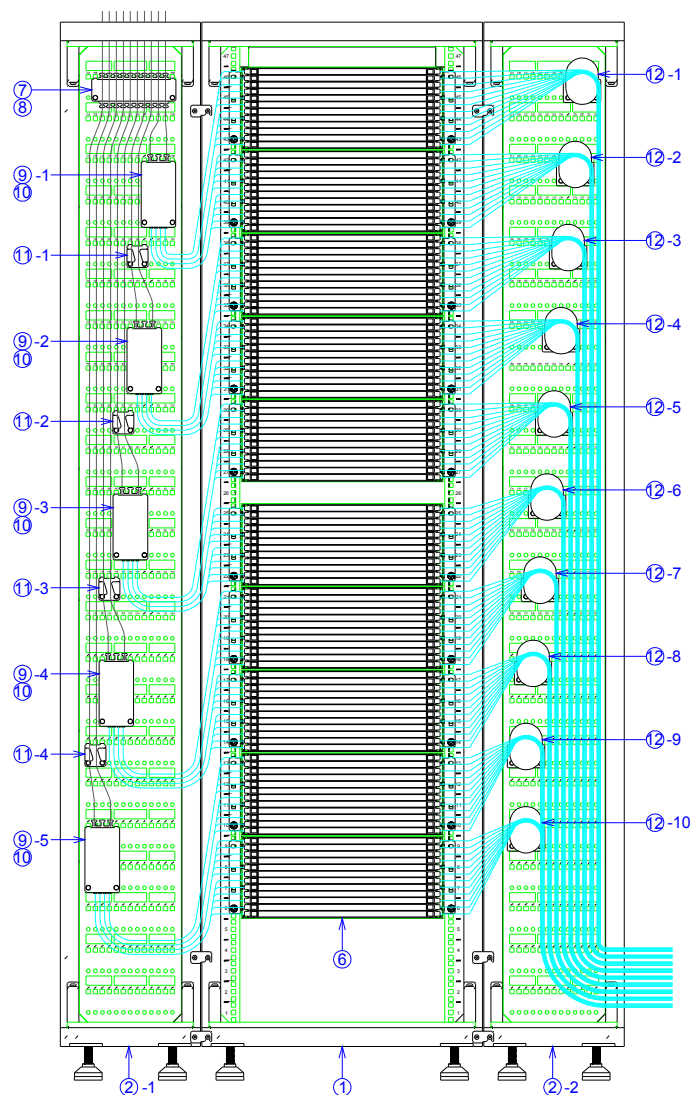
List of materials required:

| No. | Part Code | Material Name                                  | Q'ty | No. | Part Code | Material Name                                | Q'ty |
|-----|-----------|------------------------------------------------|------|-----|-----------|----------------------------------------------|------|
| 1   | 212-001   | Elevate ODF 19" Equipment Frame BLK            | 2    | 9   | 212-118   | Elevate ODF Inbound Cable Fanout Clamp       | 40   |
| 2   | 212-000   | Elevate ODF 300mm Inbound/Outbound Frame       | 4    | 10  | 212-119   | Elevate ODF Inbound Cable Fanout Clamp Cover | 10   |
| 3   | 212-111   | Elevate ODF 600mm Front Door - Equipment Frame | 3    | 11  | 212-120   | Elevate ODF Cable Management Hoop            | 8    |
| 4   | 212-110   | Elevate ODF 300mm Front Door for In/Out Frame  | 2    | 12  | 212-113   | Elevate ODF Cable Management Spool           | 10   |
| 5   | 212-112   | Elevate ODF 286mm Side Panel - Fits All Frames | 2    | 13  | 212-113   | Elevate ODF Cable Management Spool           | 6    |
| 6   | 213-000   | Elevate ODF 4U Chassis                         | 20   | 14  | 213-001   | Elevate ODF 4U Side Cable Management Hoops   | 20   |
| 7   | 212-116   | Elevate ODF Inbound Cable Clamp                | 8    | 15  | 213-002   | Elevate ODF Output Cable Management Tray     | 80   |
| 8   | 212-117   | Elevate ODF Inbound Cable Clamp Cover          | 2    |     |           |                                              |      |

List of materials required:

| NO.  | Material Code | Material Name                                | Q'ty | Location        |
|------|---------------|----------------------------------------------|------|-----------------|
| ⑥    | 213-000       | Elevate ODF 4U Chassis                       | 20   | 6U~25U; 27U~46U |
| ⑦-1  | 212-116       | Elevate ODF Inbound Cable Clamp              | 4    | 23B,23M         |
| ⑧    | 212-117       | Elevate ODF Inbound Cable Clamp Cover        | 1    |                 |
| ⑦-2  | 212-116       | Elevate ODF Inbound Cable Clamp              | 4    | 23A,23L         |
| ⑧    | 212-117       | Elevate ODF Inbound Cable Clamp Cover        | 1    |                 |
| ⑨-1  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 21I,21M         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-2  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 17G,17K         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-3  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 13E,13I         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-4  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 9C,9G           |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-5  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 5A,5E           |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-6  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 21A,21E         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-7  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 17C,17G         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-8  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 13E,13I         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-9  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 9G,9K           |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-10 | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 5I,5M           |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑪-1  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 19G,19I         |
| ⑪-2  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 15E,15G         |
| ⑪-3  | 212-120       | Elevate ODF Cal Management Hoop              | 1    | 11C,11E         |
| ⑪-4  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 7A,7C           |
| ⑪-5  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 19E,19G         |
| ⑪-6  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 15G,15I         |
| ⑪-7  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 11I,11K         |
| ⑪-8  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 7K,7M           |
| ⑫-1  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 22I,22M         |
| ⑫-2  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 19G,19K         |
| ⑫-3  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 16E,16I         |
| ⑫-4  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 13C,13G         |
| ⑫-5  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 10A,10D         |
| ⑫-6  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 22A,22E         |
| ⑫-7  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 19C,19G         |
| ⑫-8  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 16E,16I         |
| ⑫-9  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 13G,13K         |
| ⑫-10 | 212-113       | Elevate ODF Cable Management Spool           | 1    | 10I,10M         |
| ⑬-1  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 7I,7M           |
| ⑬-2  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 5G,5K           |
| ⑬-3  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 3E,3I           |
| ⑬-4  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 7A,7E           |
| ⑬-5  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 5C,5G           |
| ⑬-6  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 3E,3I           |

### 3.2 An example of a full cable Interconnect



List of materials required:

| No. | Part Code | Material Name                                  | Q'ty | No. | Part Code | Material Name                                | Q'ty |
|-----|-----------|------------------------------------------------|------|-----|-----------|----------------------------------------------|------|
| 1   | 212-001   | Elevate ODF 19" Equipment Frame BLK            | 1    | 9   | 212-118   | Elevate ODF Inbound Cable Fanout Clamp       | 20   |
| 2   | 212-000   | Elevate ODF 300mm Inbound/Outbound Frame       | 2    | 10  | 212-119   | Elevate ODF Inbound Cable Fanout Clamp Cover | 5    |
| 3   | 212-111   | Elevate ODF 600mm Front Door - Equipment Frame | 1    | 11  | 212-120   | Elevate ODF Cable Management Hoop            | 4    |
| 4   | 212-110   | Elevate ODF 300mm Front Door for In/Out Frame  | 2    | 12  | 212-113   | Elevate ODF Cable Management Spool           | 10   |
| 5   | 212-112   | Elevate ODF 286mm Side Panel - Fits All Frames | 2    |     |           |                                              |      |
| 6   | 213-000   | Elevate ODF 4U Chassis                         | 10   | 14  | 213-001   | Elevate ODF 4U Side Cable Management Hoops   | 10   |
| 7   | 212-116   | Elevate ODF Inbound Cable Clamp                | 4    | 15  | 213-002   | Elevate ODF Output Cable Management Tray     | 40   |
| 8   | 212-117   | Elevate ODF Inbound Cable Clamp Cover          | 1    |     |           |                                              |      |

List of materials required:

| NO.  | Material Code | Material Name                                | Q'ty | Location        |
|------|---------------|----------------------------------------------|------|-----------------|
| ⑥    | 213-000       | Elevate ODF 4U Chassis                       | 10   | 6U~25U; 27U~46U |
| ⑦    | 212-116       | Elevate ODF Inbound Cable Clamp              | 4    | 23B,23M         |
| ⑧    | 212-117       | Elevate ODF Inbound Cable Clamp Cover        | 1    |                 |
| ⑨-1  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 21I,21M         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-2  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 17G,17K         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-3  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 13E,13I         |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-4  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 9C,9G           |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑨-5  | 212-118       | Elevate ODF Inbound Cable Fanout Clamp       | 4    | 5A,5E           |
| ⑩    | 212-119       | Elevate ODF Inbound Cable Fanout Clamp Cover | 1    |                 |
| ⑪-1  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 19G,19I         |
| ⑪-2  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 15E,15G         |
| ⑪-3  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 11C,11E         |
| ⑪-4  | 212-120       | Elevate ODF Cable Management Hoop            | 1    | 7A,7C           |
| ⑫-1  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 23I,23M         |
| ⑫-2  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 21H,21L         |
| ⑫-3  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 19G,19K         |
| ⑫-4  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 17F,17J         |
| ⑫-5  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 15E,15I         |
| ⑫-6  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 13D,13H         |
| ⑫-7  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 11C,11G         |
| ⑫-8  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 9B,9F           |
| ⑫-9  | 212-113       | Elevate ODF Cable Management Spool           | 1    | 7A,7E           |
| ⑫-10 | 212-113       | Elevate ODF Cable Management Spool           | 1    | 5A,5E           |

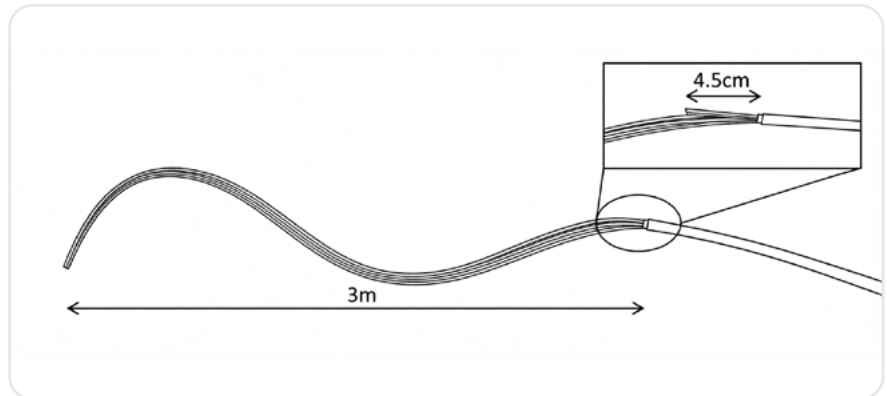
### 3.3 Provided operational steps

#### 3.3.1: Input cable secured to stackable fanout-kit

Multi-fibre optical cable with jacketed sub-units:

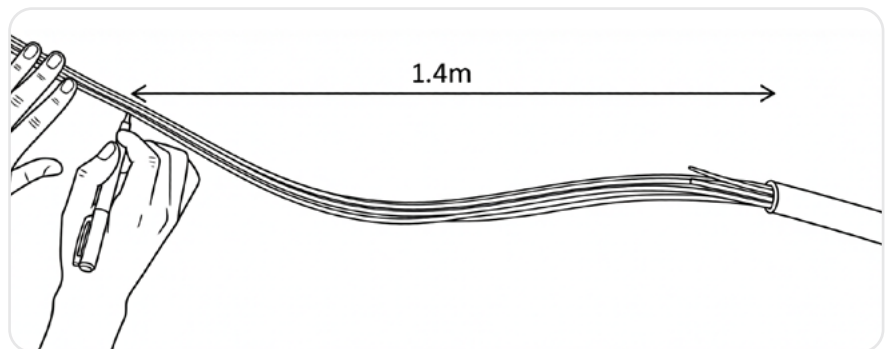
##### Step 1:

Strip 3 meters of the optical cable jacket and retain 4.5cm of the strength member.



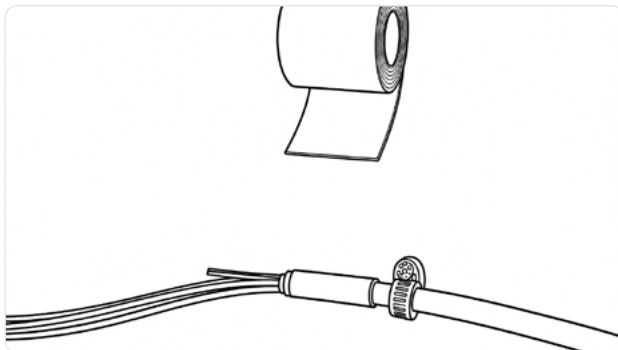
##### Step 2:

Mark the sub-unit jacket with a marker pen at 1.4m from the stripped section.



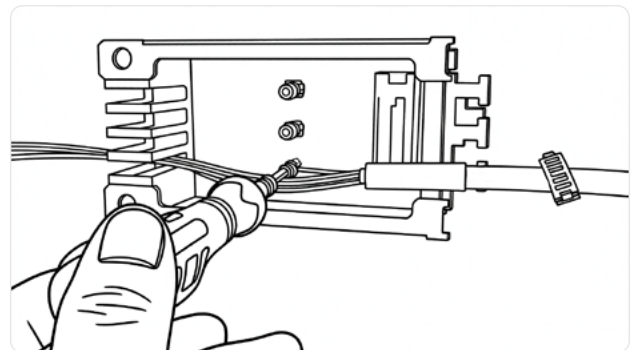
##### Step 3:

Wrap the cable jacket with anti-slip tape, then thread it through a cable clamp.



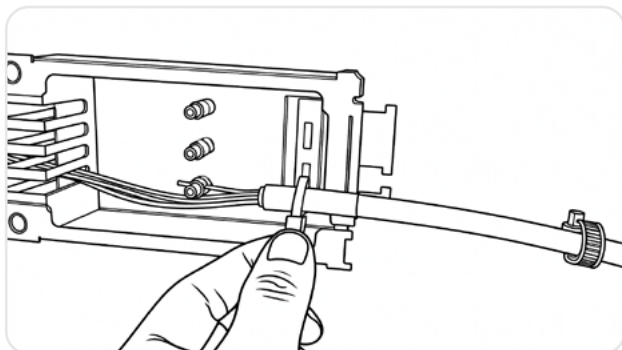
##### Step 4:

Secure the optical cable strength member.



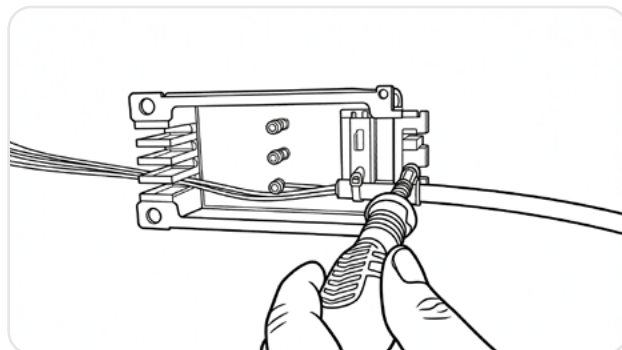
Step 5:

Secure the optical cable with nylon cable ties.



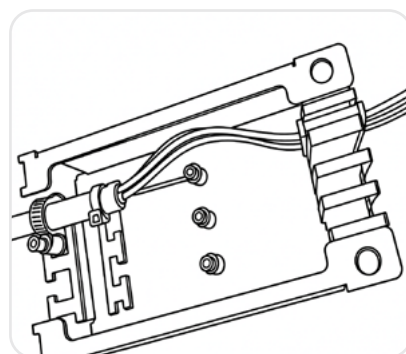
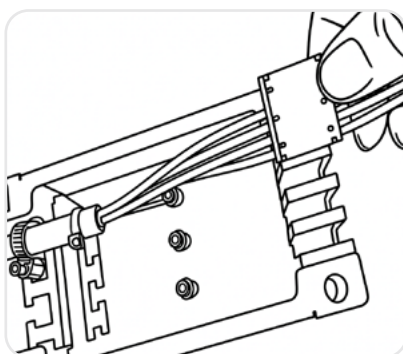
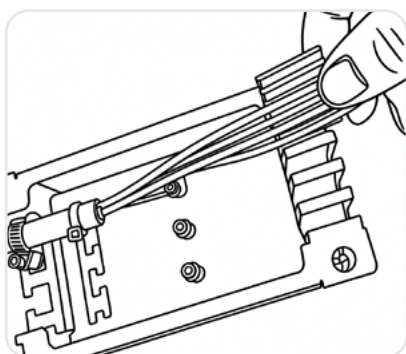
Step 6:

Secure the optical cable with cable clamp.



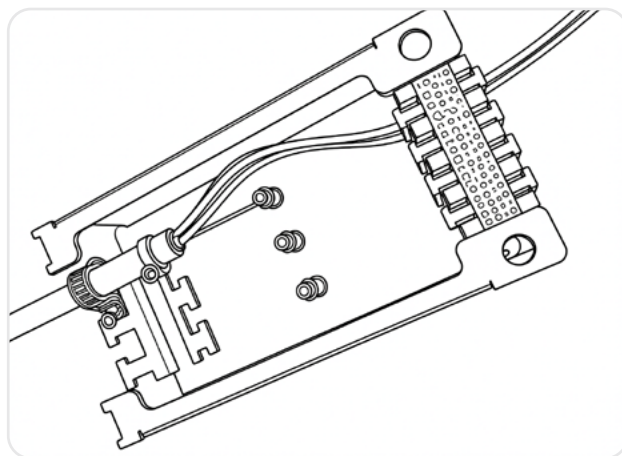
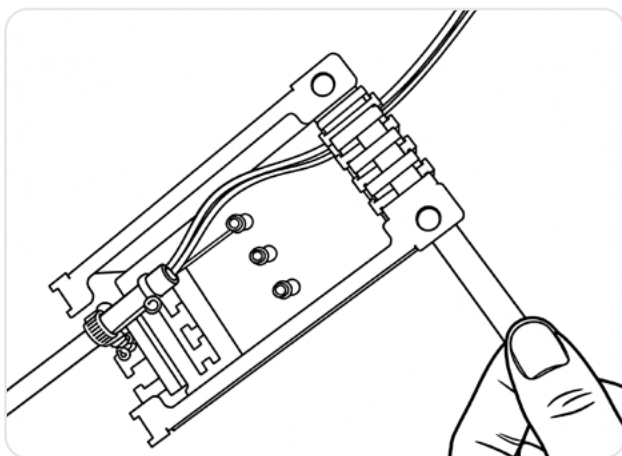
Step 7:

Secure the sub-unit jacket within the plastic clamp.



Step 8:

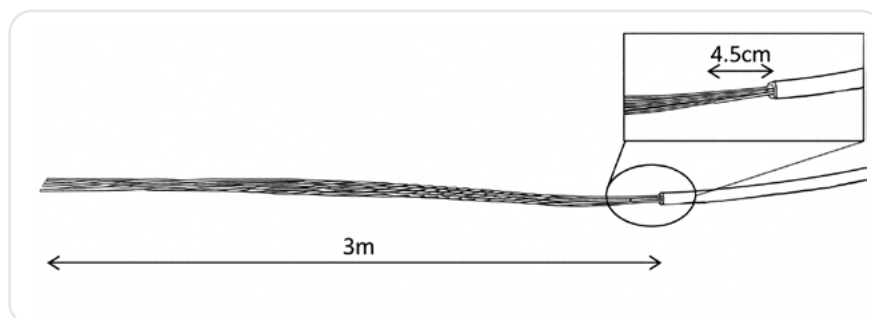
Secure the plastic clamp with a Velcro strap.



Multi-fibre optical cable without jacketed sub-units:

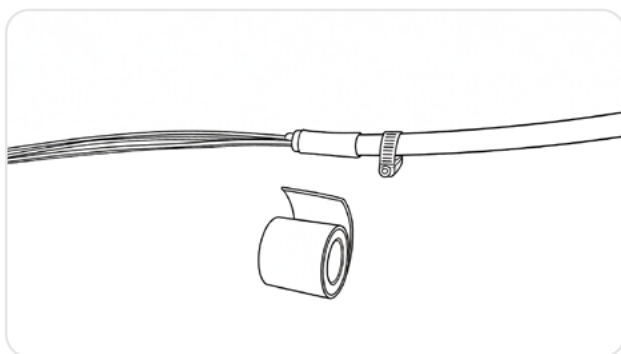
Step 1:

Strip 3 meters of the optical cable jacket and retain 4.5cm of the strength member.



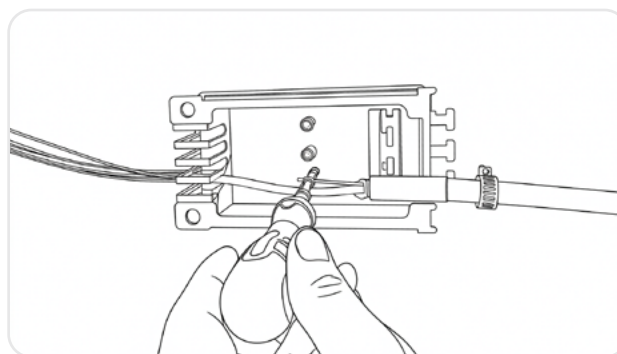
Step 2:

Wrap the cable jacket with anti-slip tape, then thread it through a cable clamp.



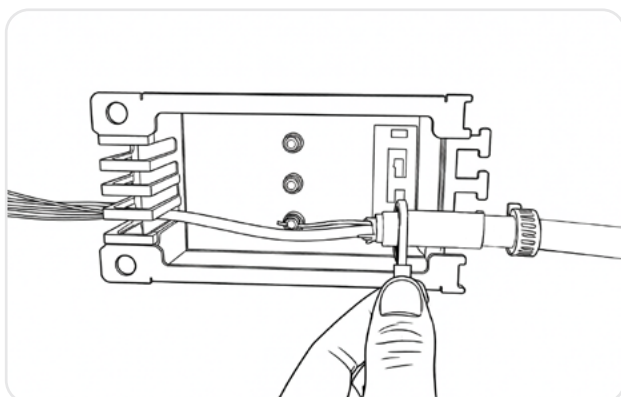
Step 3:

Secure the optical cable strength member.



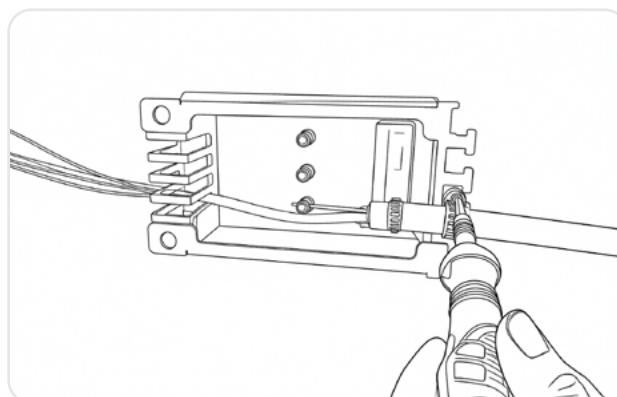
Step 4:

Secure the optical cable with nylon cable ties.



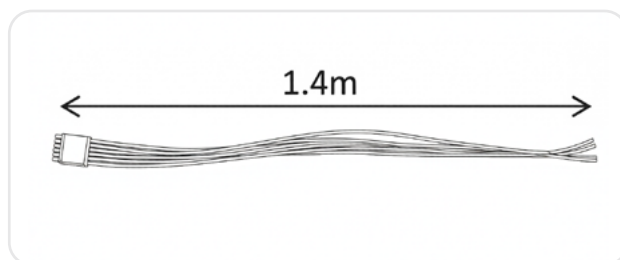
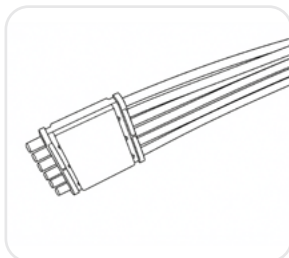
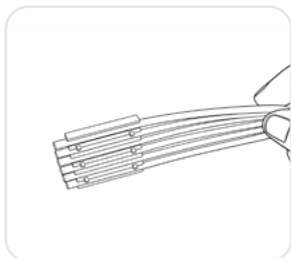
Step 5:

Secure the optical cable with cable clamp.



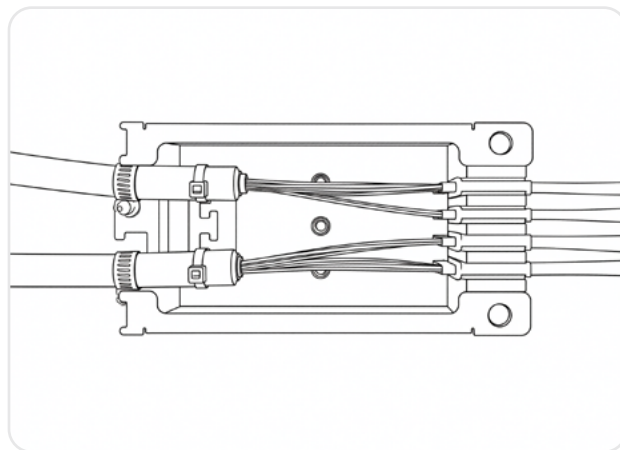
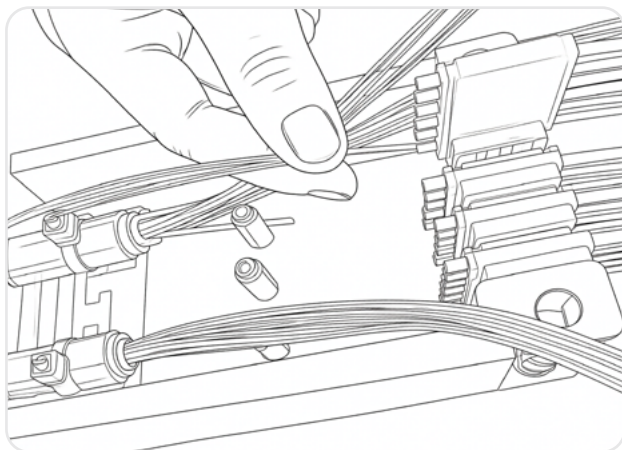
Step 6:

Prepare 1.4 meter empty tube conduit and secure it within a plastic clamp.



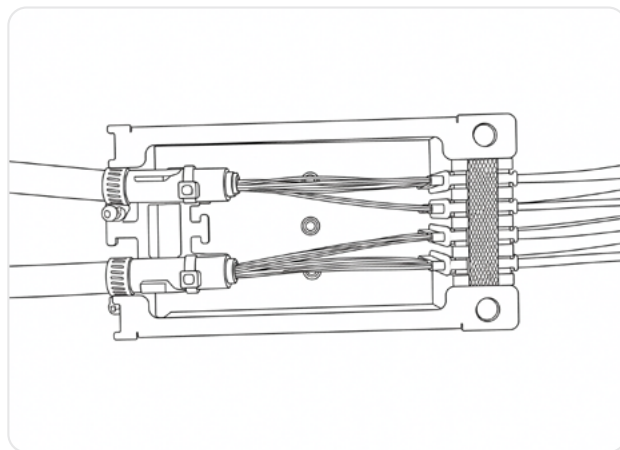
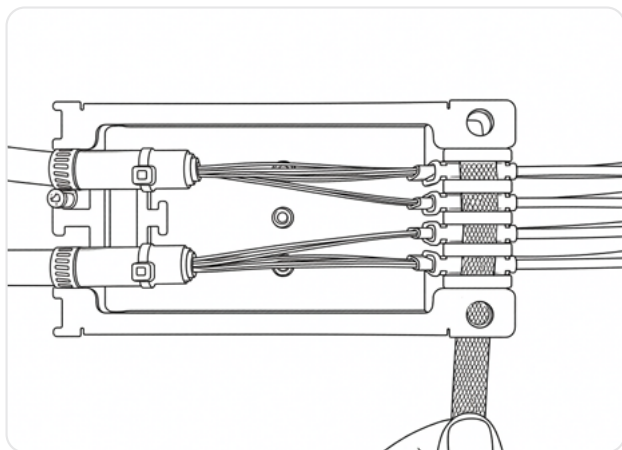
Step 7:

Thread the bare fibre into the empty tube.



Step 8:

Secure the plastic clamp with a Velcro strap.



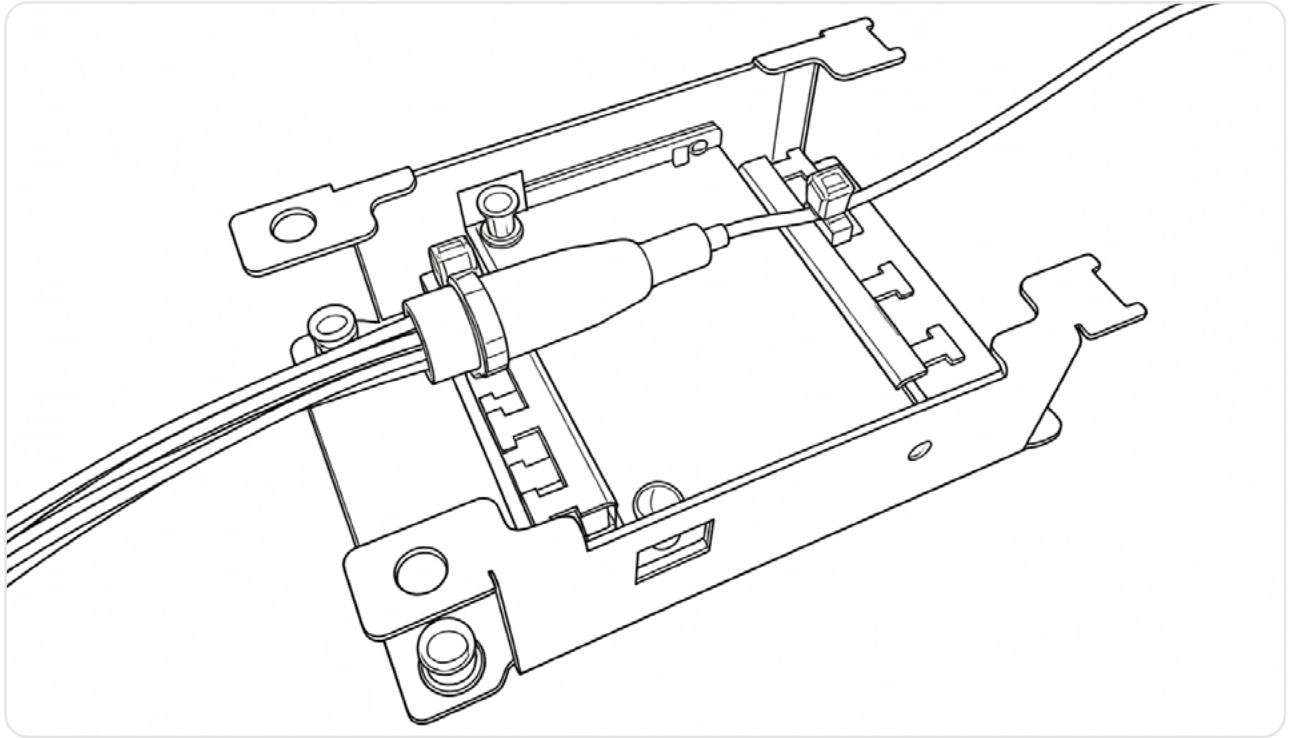
Fan-out optical cable assembly with MPO connector:

Recommended breakout cable length: 1.2 meters (MPO connector to sidewall of distribution unit box)

Recommended breakout cable length: 1.8 meters (MPO connector to Integrated fibre tray)

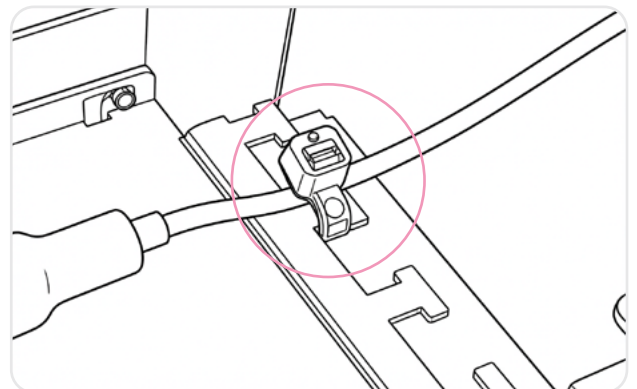
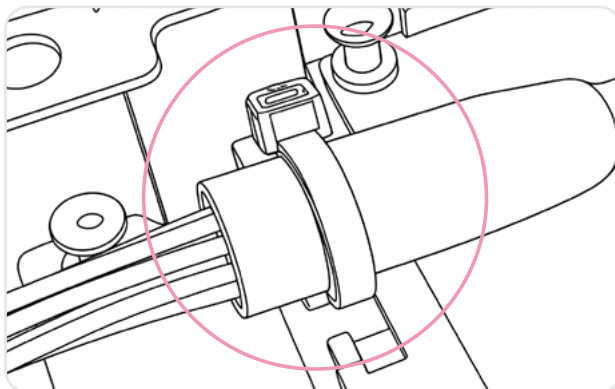
Step 1:

Wrap the Fanout-kit with anti-slip tape



Step 2:

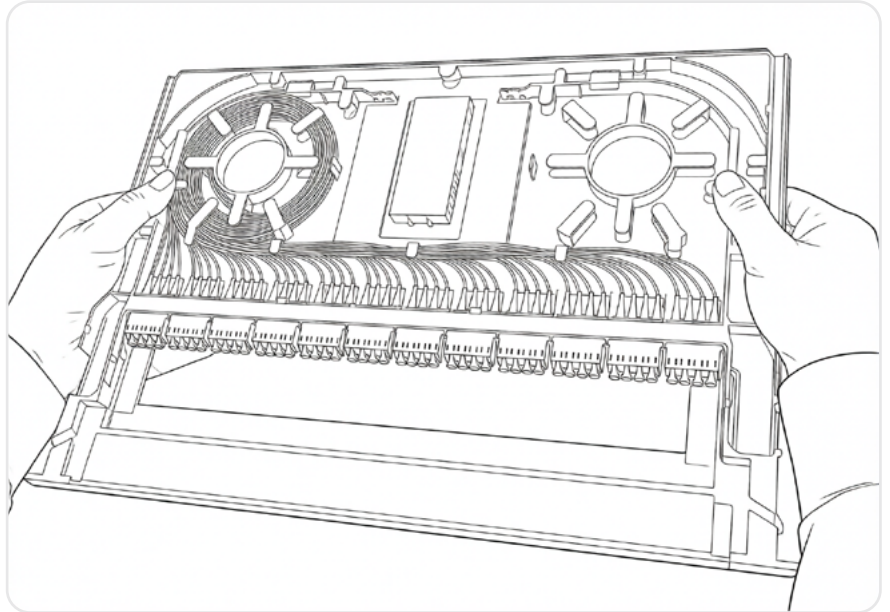
Secure the Fanout-kit with nylon cable ties.



### 3.3.2: Input cable secured to stackable fanout-kit

#### Step 1

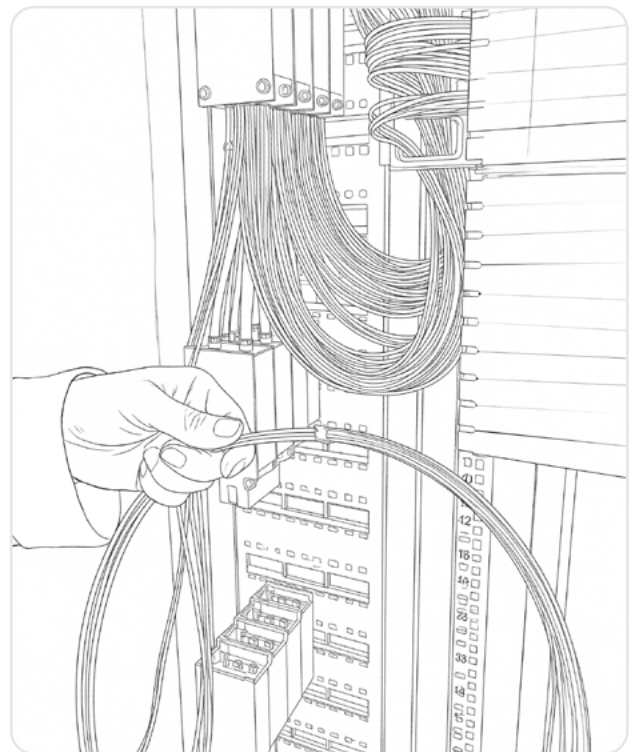
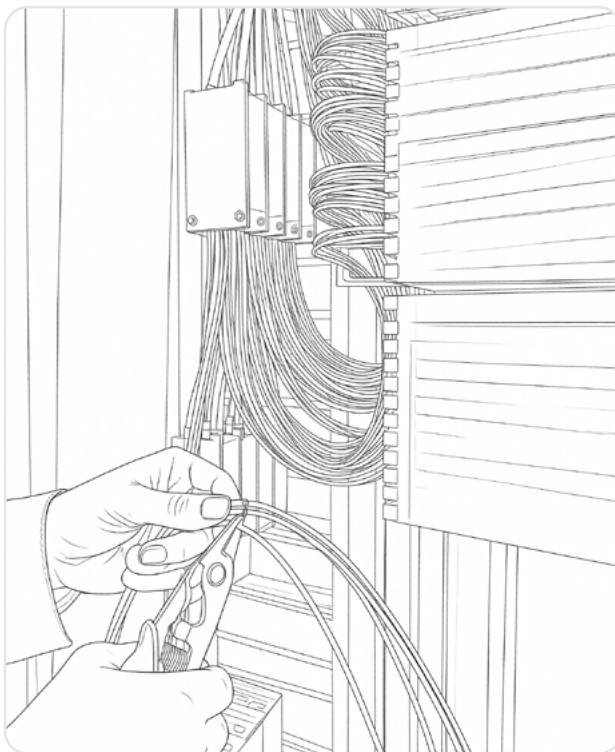
Slide the fibre tray assembly transparent cover backward to open it.



#### Step 2

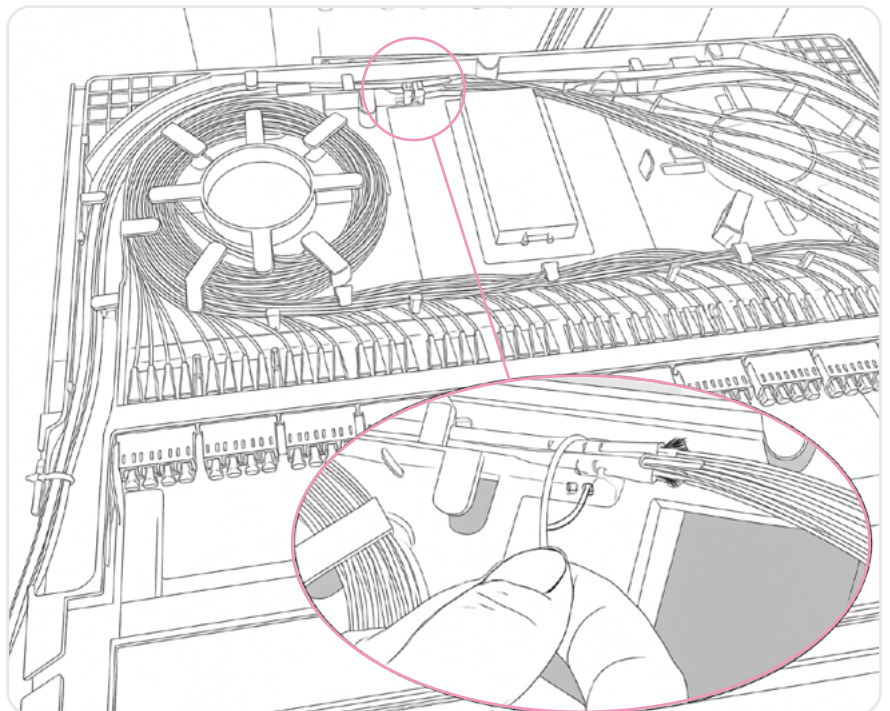
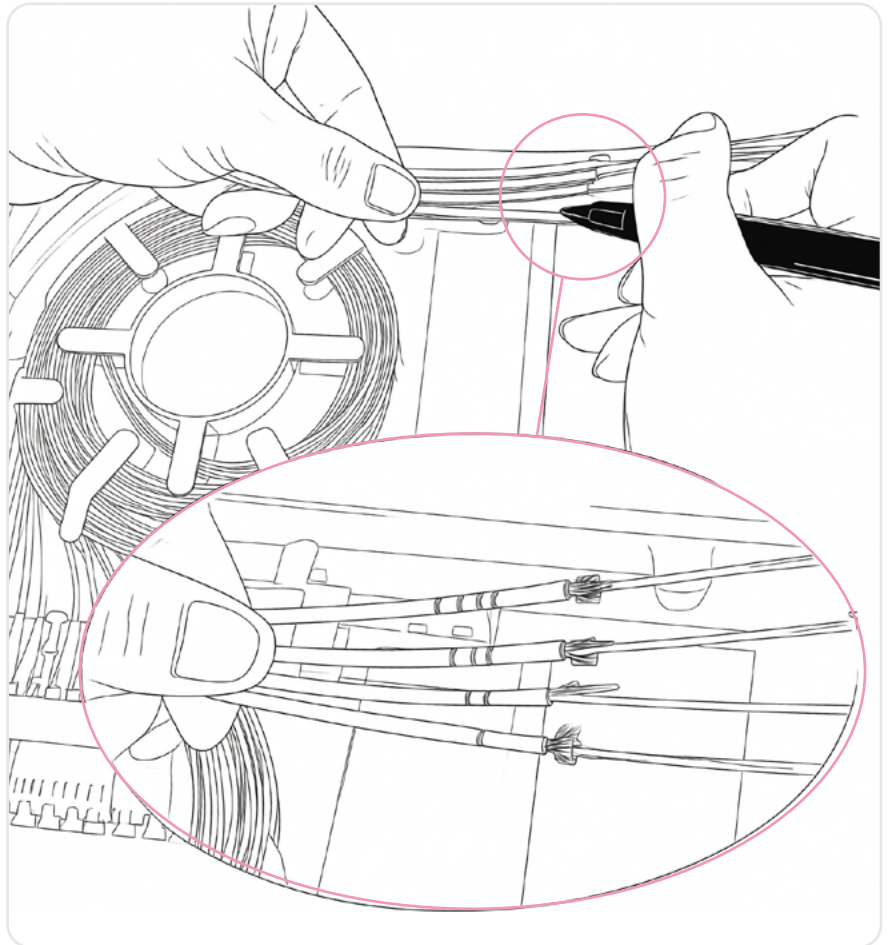
Strip the optical cable sub-unit jacket from the pre-marked position.

**Caution:** Use appropriate tools to prevent damage to the fibre.



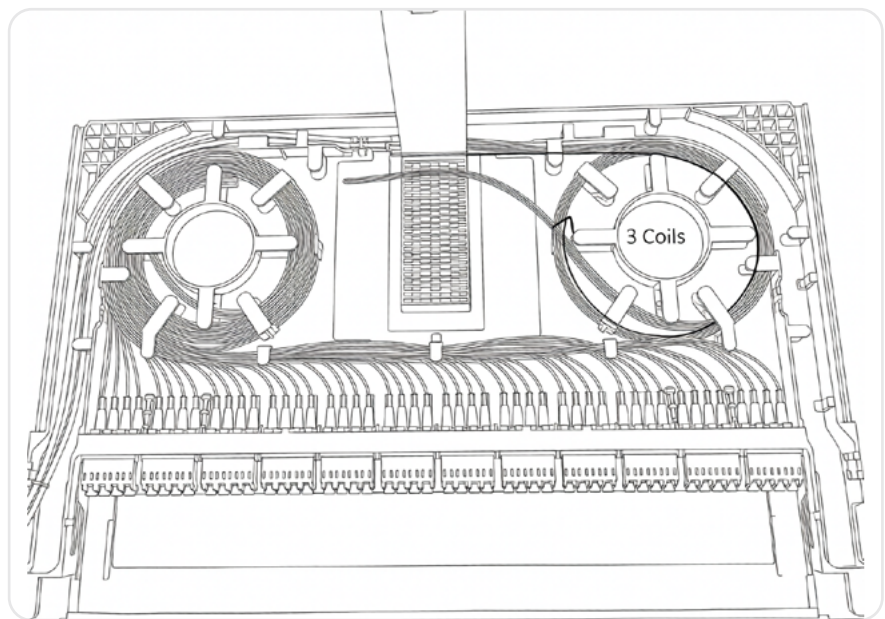
### Step 3

Mark the optical cable sub-unit jacket within the same fibre tray assembly and secure them in place with nylon cable ties. Anti slip tape is also recommended before securing with tie.



Step 4:

Coil the bare fibre.



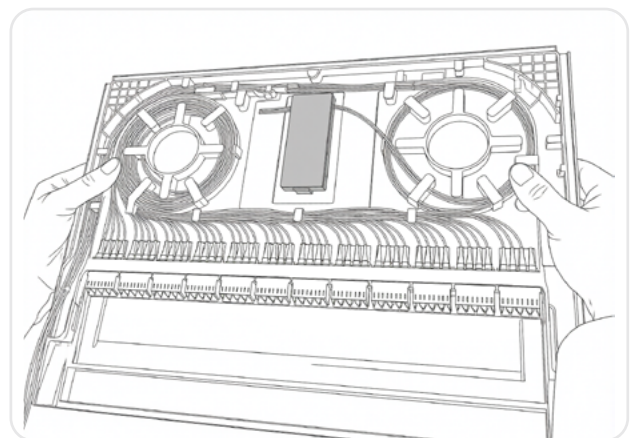
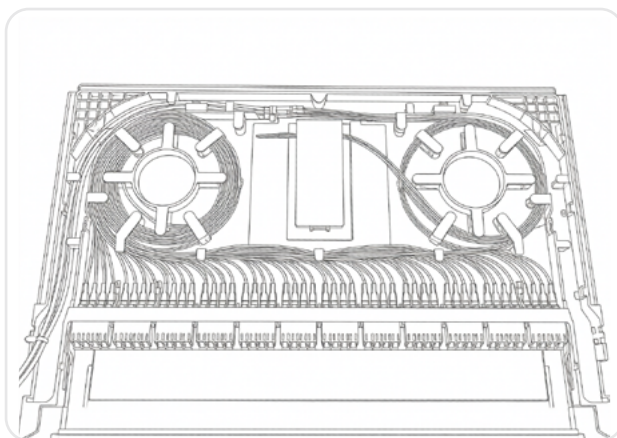
Step 5:

Splice the fibres.

*Splicing to follow your own company procedures using the 30mm splice protectors supplied with each tray*

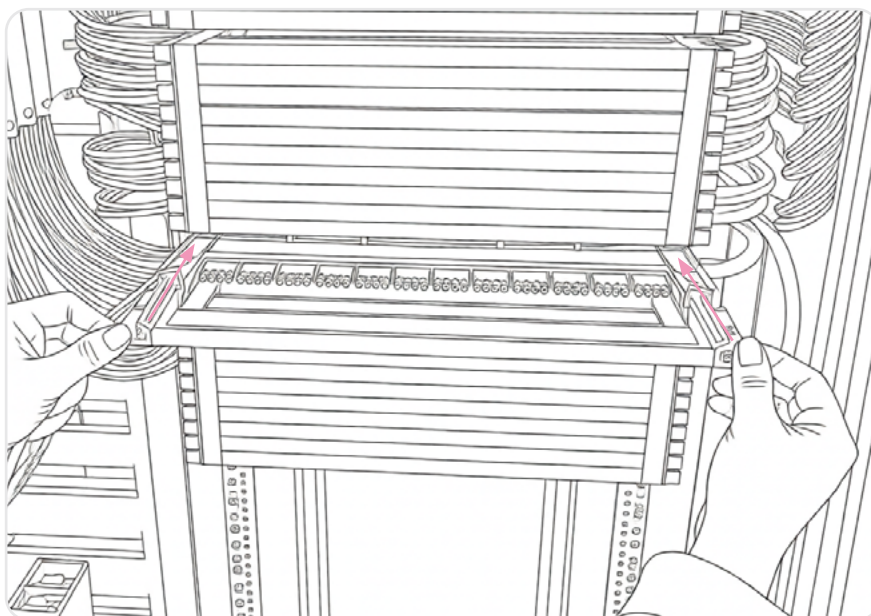
Step 6:

Slide the fibre tray assembly transparent cover forward to close it.



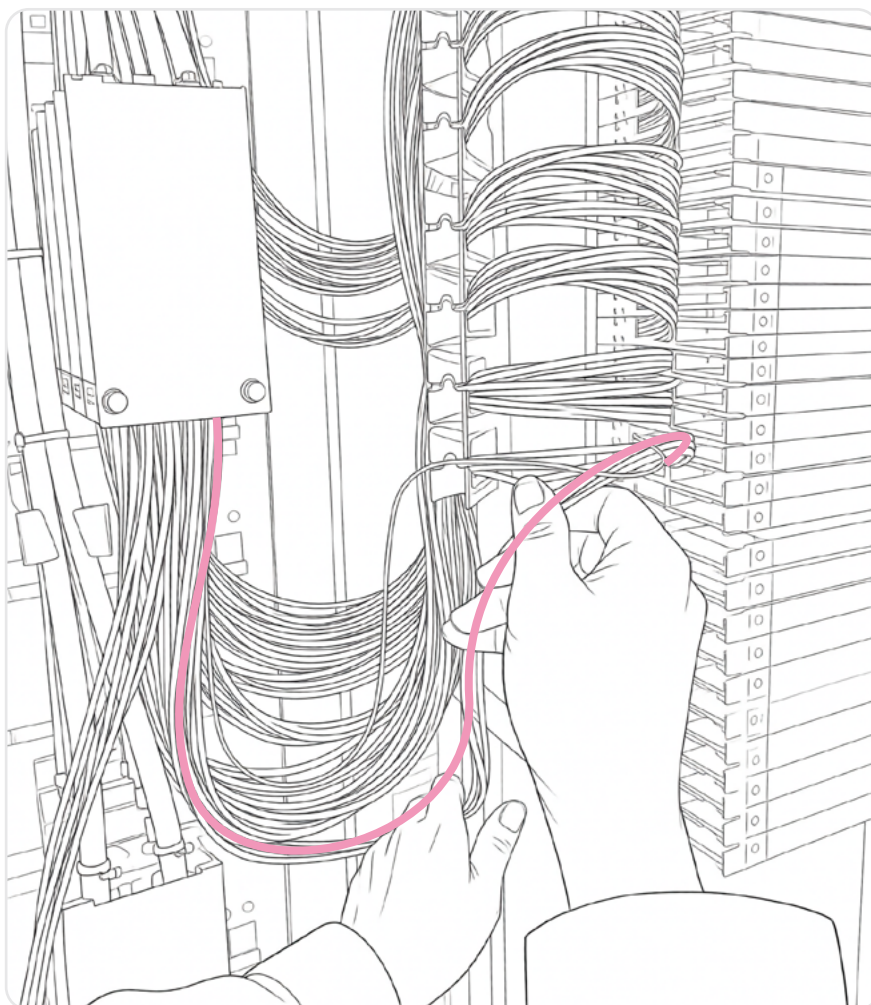
Step 7:

Installing the fibre tray assembly into the Fibre Distribution Unit.



Step 8:

Organise and secure the input sub-unit fibre cables.

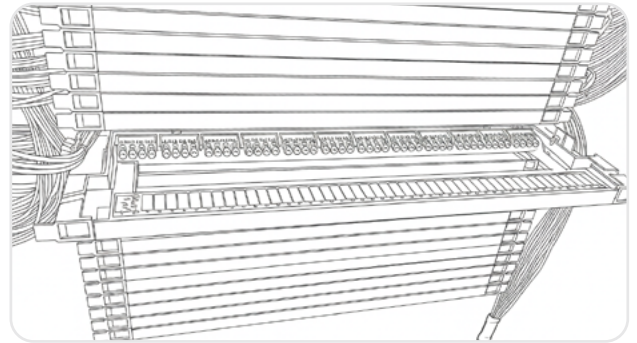
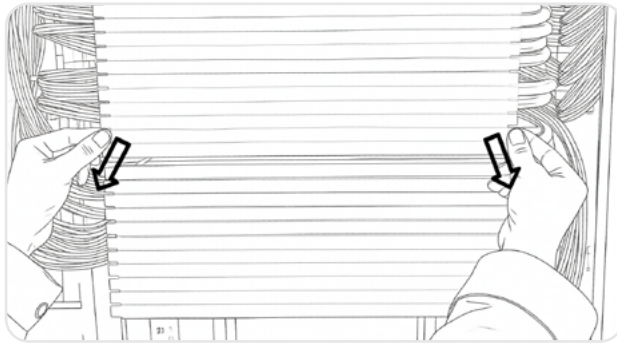


*Spiral wrap can be installed as an option to control input tails in a more orderly fashion*

### 3.3.3 Installing output patch cord

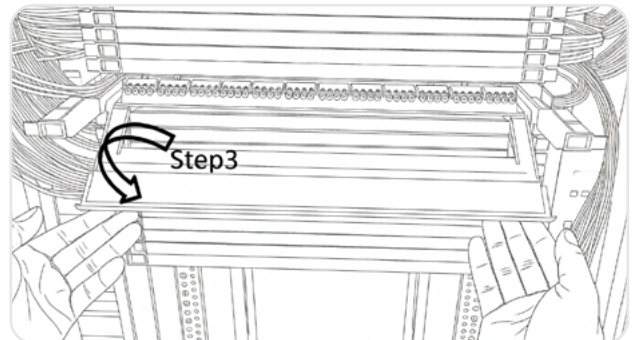
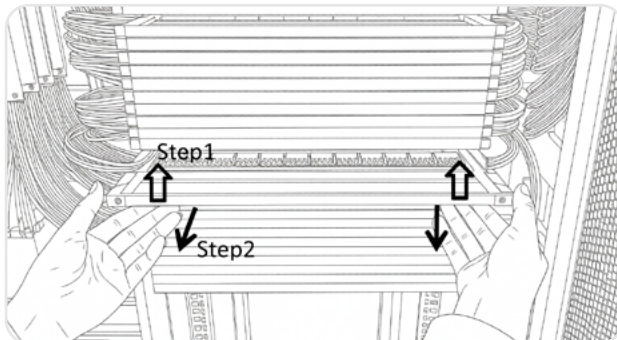
Step 1:

Slowly slide the fibre tray outward until it engages at the intermediate detent.



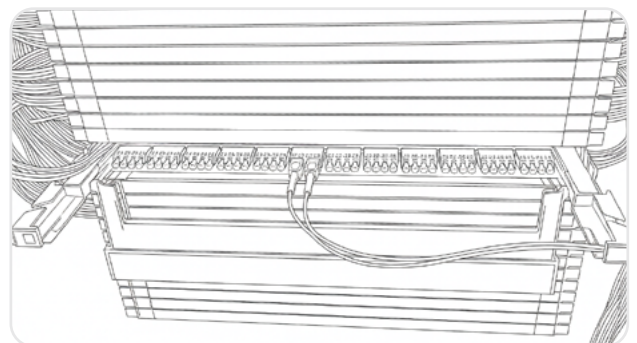
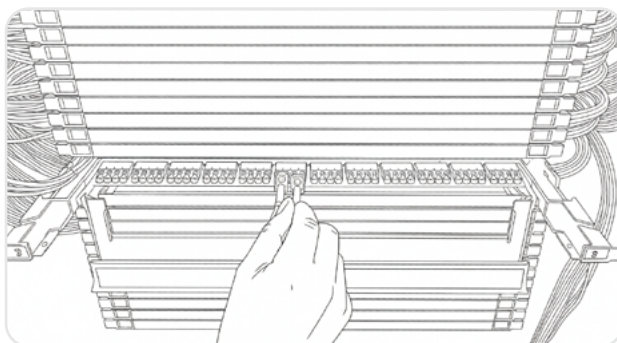
Step 2:

Open the front cable management panel of the fibre tray.



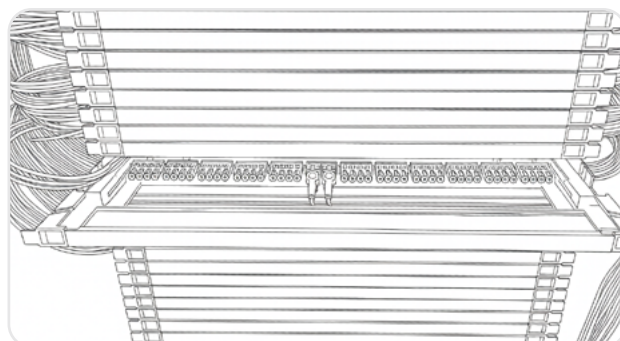
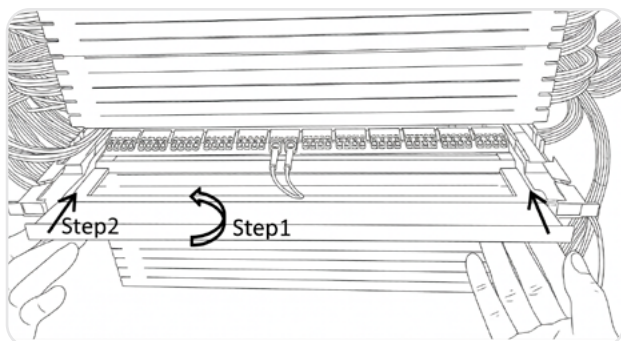
Step 3:

Clean the fibre optical connector, then insert in into the corresponding adapter.



Step 4:

Flip the front cable management panel and slide it inward to reset it on the fibre tray.



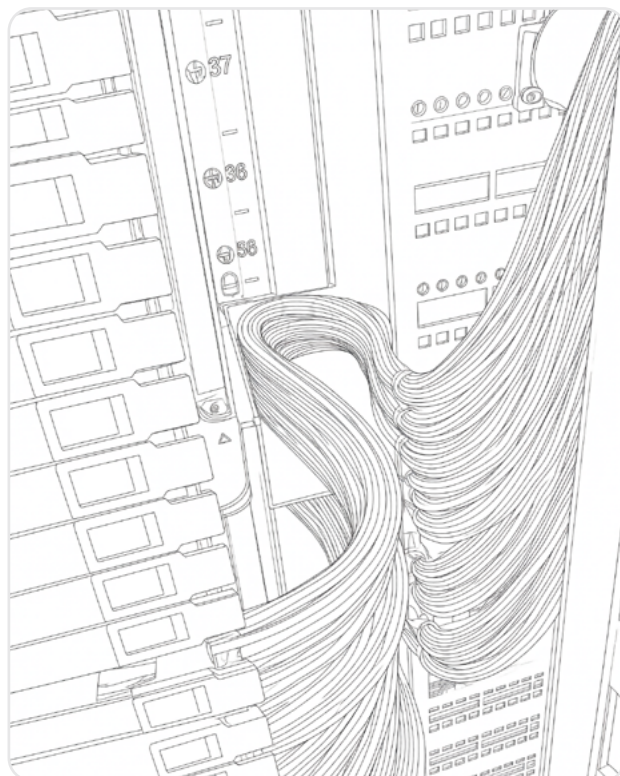
Step 5:

Push the fibre tray inward to reset it fully within the Fibre Distribution Unit.



Step 6:

Coil the output patch cord with spiral wrap protector and secure it in place using nylon ties.



Step 8:

Route and secure all cables as per the design specifications.

# ELEVATE

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