# PANDUIT

## FlexCore™ 150mm Vertical Cable Manager
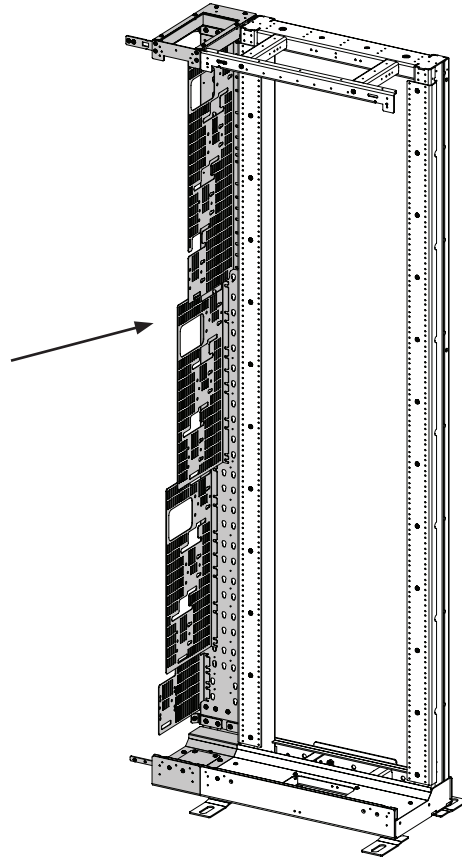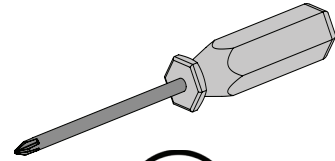Part Number(s) : FDFVCM1545**

**INSTALLATION INSTRUCTIONS** **FS191**

**FDFVCM1545**
FlexCore™ 150mm
Vertical Cable Manager
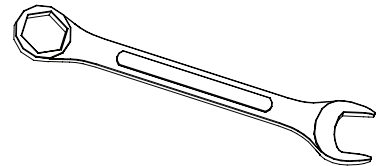*shown ganged to
FlexCore™ Optical
Distribution Frame*

## Tool List

Phillips screwdriver

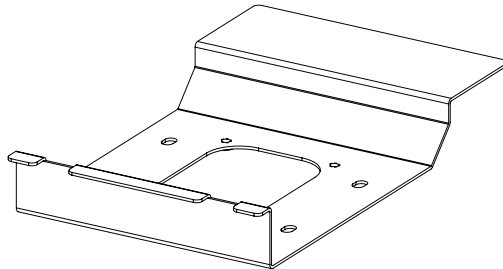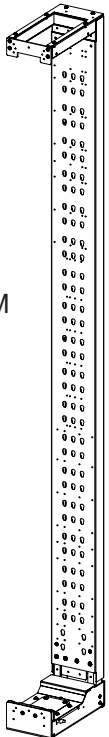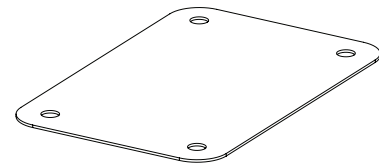1" Open End Wrench
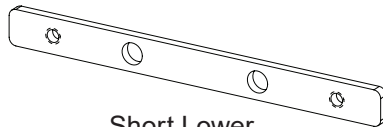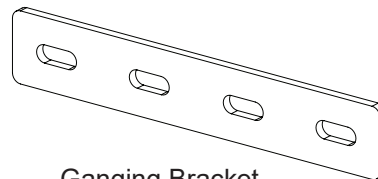
## Components included

150mm VCM
Frame
Qty: 1

Lower Cable
Pathway
Qty: 1

Lower Pathway
Access Cover
Qty: 1

Short Lower
Ganging Bracket
Qty: 2

Ganging Bracket
Qty: 2
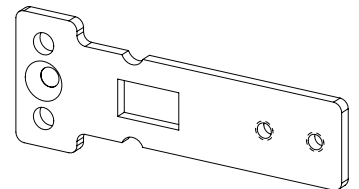
Halo Ganging Bracket
Qty: 2
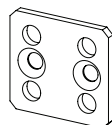
VCM Ganging Bracket
Qty: 1
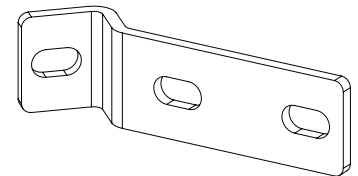
Offset Attachment Bracket
Qty: 4

*For Technical Support: www.panduit.com/resources/install_maintain.asp*
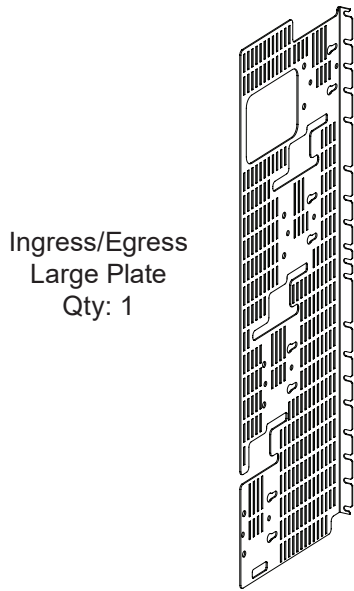
Ingress/Egress
Large Plate
Qty: 1
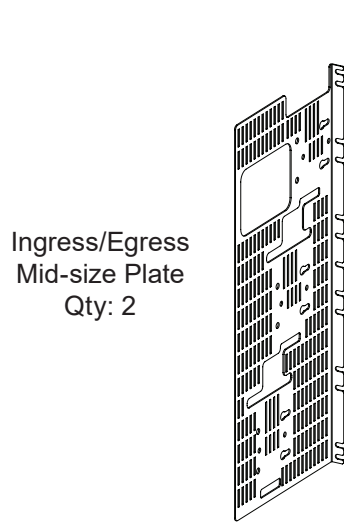
Ingress/Egress
Mid-size Plate
Qty: 2
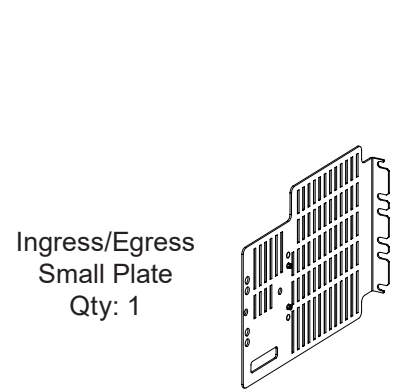
Ingress/Egress
Small Plate
Qty: 1

## Hardware included
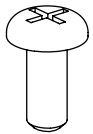
#12-24 x 1/2
Pan Head screw
Qty: 24

#12 Tooth Lockwasher
Qty: 24

#12-24 x 1/2
Flat Head screw
Qty: 4

#10-32 x 1/2
Pan Head screw
Qty: 23

#10 Tooth Lockwasher
Qty: 23
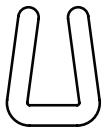
Grommet Edging
Qty: 6 feet
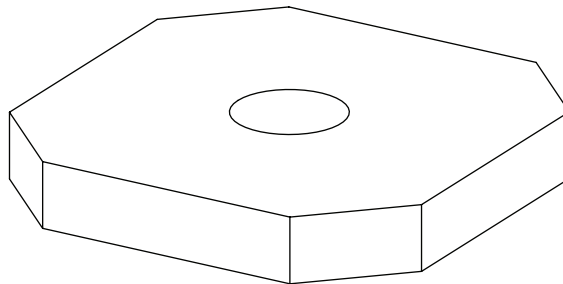
Seismic Washer
Qty: 1
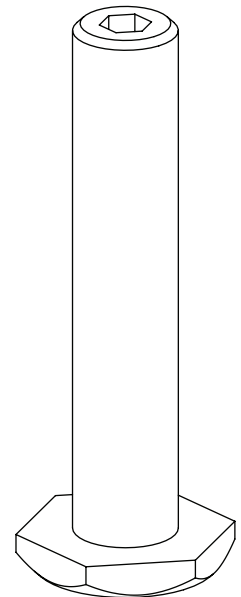
Leveling Leg
Qty: 1
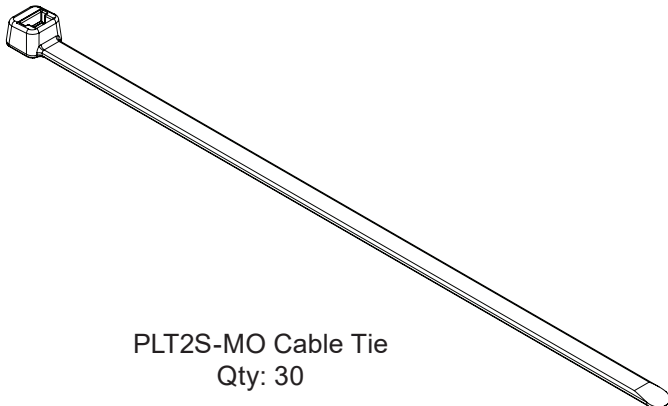
PLT2S-MO Cable Tie
Qty: 30

HLSP1.5S-XO
Velcro Cable Tie
Qty: 30

| ⚠️ **WARNING** |
|---|
| **Vertical Cable Manager Tipping Hazard** |
| Mount the Vertical Cable Manager to floor and/or gang it to a previously floor mounted frame or second Vertical Cable Manager before installing equipment in the Vertical Cable Manager . |
| **FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO SERIOUS INJURY, DEATH, OR DAMAGE TO YOUR EQUIPMENT.** |

## Floor Mounting - Seismic 3 Applications

- See Floor Mounting View below for floor mounting dimensions
- If floor is level, attach the anchors to the floor with appropriate hardware for your type of floor

*Note: If floor is not level, shims may be required to level the Vertical Cable Manager (shims not provided)*

**8.88 [225.4]**

**2.05 [52.1]**    **1.75 [44.4]**
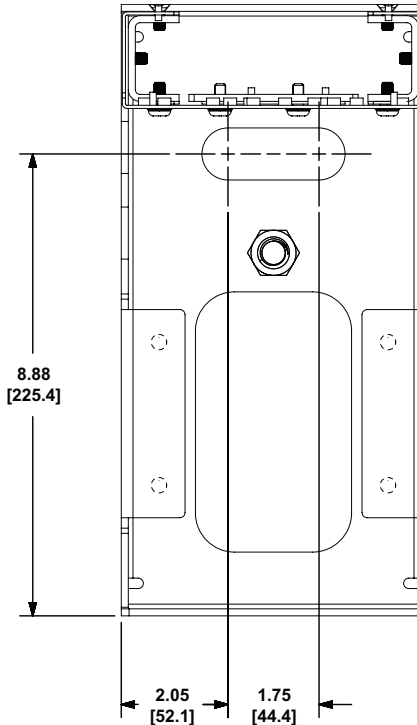
## Floor Mounting - Unlevel Floor (not recommended for seismic zones)

- Mount (1) Leveling Legs to the bottom of the Vertical Cable Manager as shown
- Ensure the Leveling do not protrude above the deck of the Vertical Cable Manager as shown.
- Legs should be extended at least 1.0"
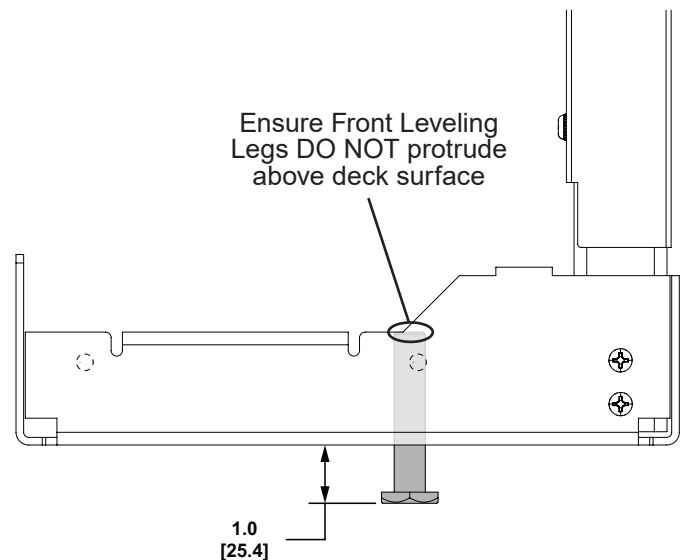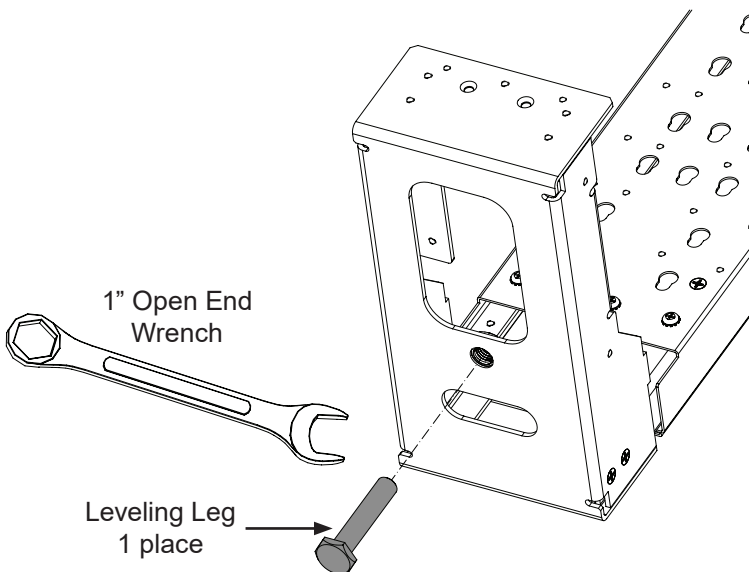
1" Open End Wrench

Leveling Leg 1 place

Ensure Front Leveling Legs DO NOT protrude above deck surface

**1.0 [25.4]**

*For Technical Support: www.panduit.com/resources/install_maintain.asp*

## Ganging Vertical Cable Manager to Frame

- Temporarily remove front plate of Halo to access and remove the spacer (Figure 1a)
- On sides that are being ganged to Frame, replace the spacer with Halo Ganging Bracket and re-assemble (Figure 1b)
- Install Offset Attachment Brackets to sides that are being ganged to Frame (Figure 2)
- Install Short Lower Ganging Brackets to sides that are being ganged to Frame (Figure 3)

1a

*Remove Spacer*

1b

*Replace with*
Halo Ganging Bracket

2

Offset Attachment
Bracket
Top & Bottom

#12 Tooth Lockwasher
2 per bracket

#12-24 x 1/2
Pan Head screw
2 per bracket

3

Short Lower
Ganging Bracket

#12-24 x 1/2
Flat Head screw
1 per bracket
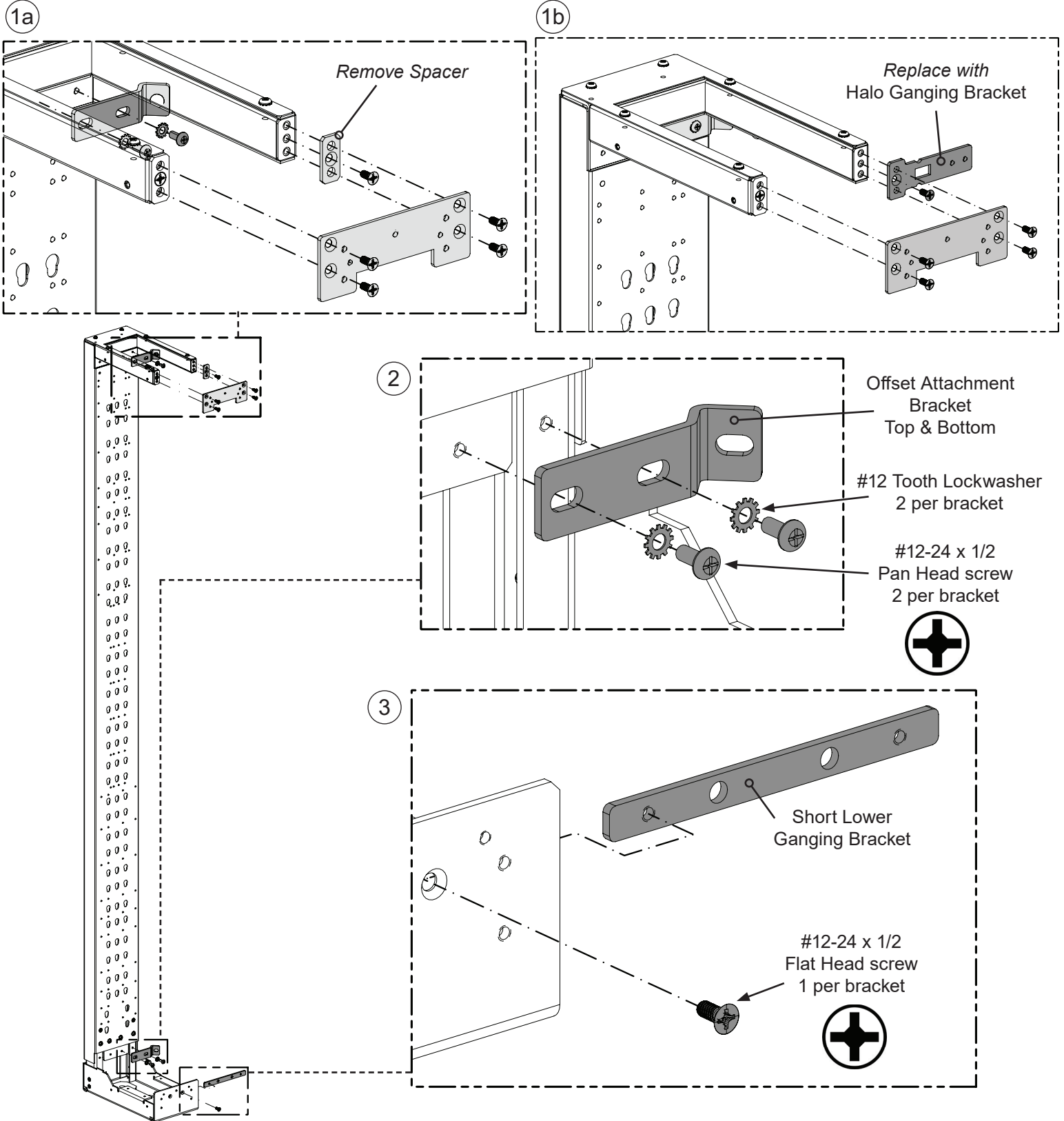
## Ganging Vertical Cable Manager to Frame - continued

- Slide Vertical Cable Manager into the Frame, aligning various ganging brackets to there mating holes on Frame
- Attach & tighten hardware to complete ganging

1a

#12 Tooth Lockwasher
2 per bracket

#12-24 x 1/2
Pan Head screw
2 per bracket

**ODF Frame**

2a

#12 Tooth Lockwasher
2 per bracket

#12-24 x 1/2
Pan Head screw
2 per bracket

#12-24 x 1/2
Flat Head screw
1 per bracket

3a

## Ganging Vertical Cable Manager to Frame - continued

• Tighten all hardware to complete ganging

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### ⚠️ DANGER

**Electrical Shock Hazard**
Each Vertical cable Manager must be connected to the Common Bonding Network (CBN).
**FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO SERIOUS INJURY, DEATH, OR DAMAGE TO YOUR EQUIPMENT.**

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## Grounding

• The Vertical Cable Manager only becomes grounded when ganged to the FlexCore™ Frame that has previously been properly bonded to the Common Bonding Network (CBN) per FlexCore™ Optical Distribution Frame Instructions FS190.
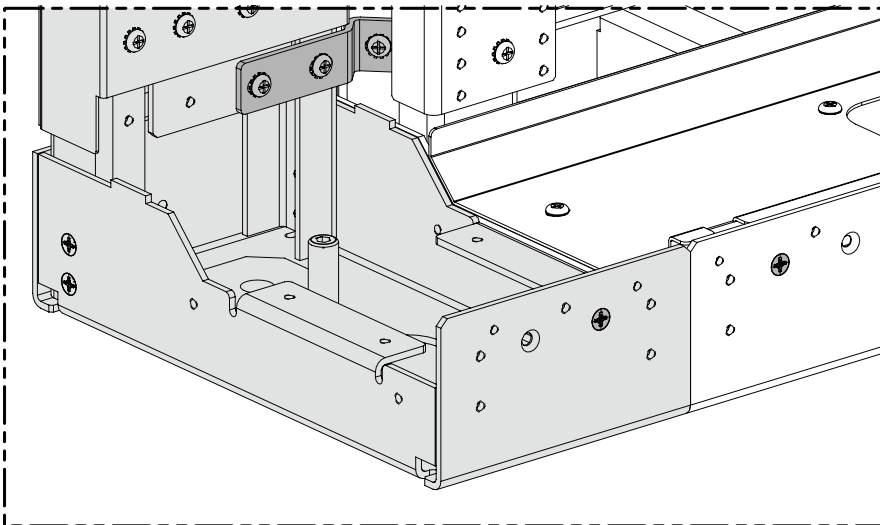
## Ganging Vertical Cable Manager to a 2nd Vertical Cable Manager
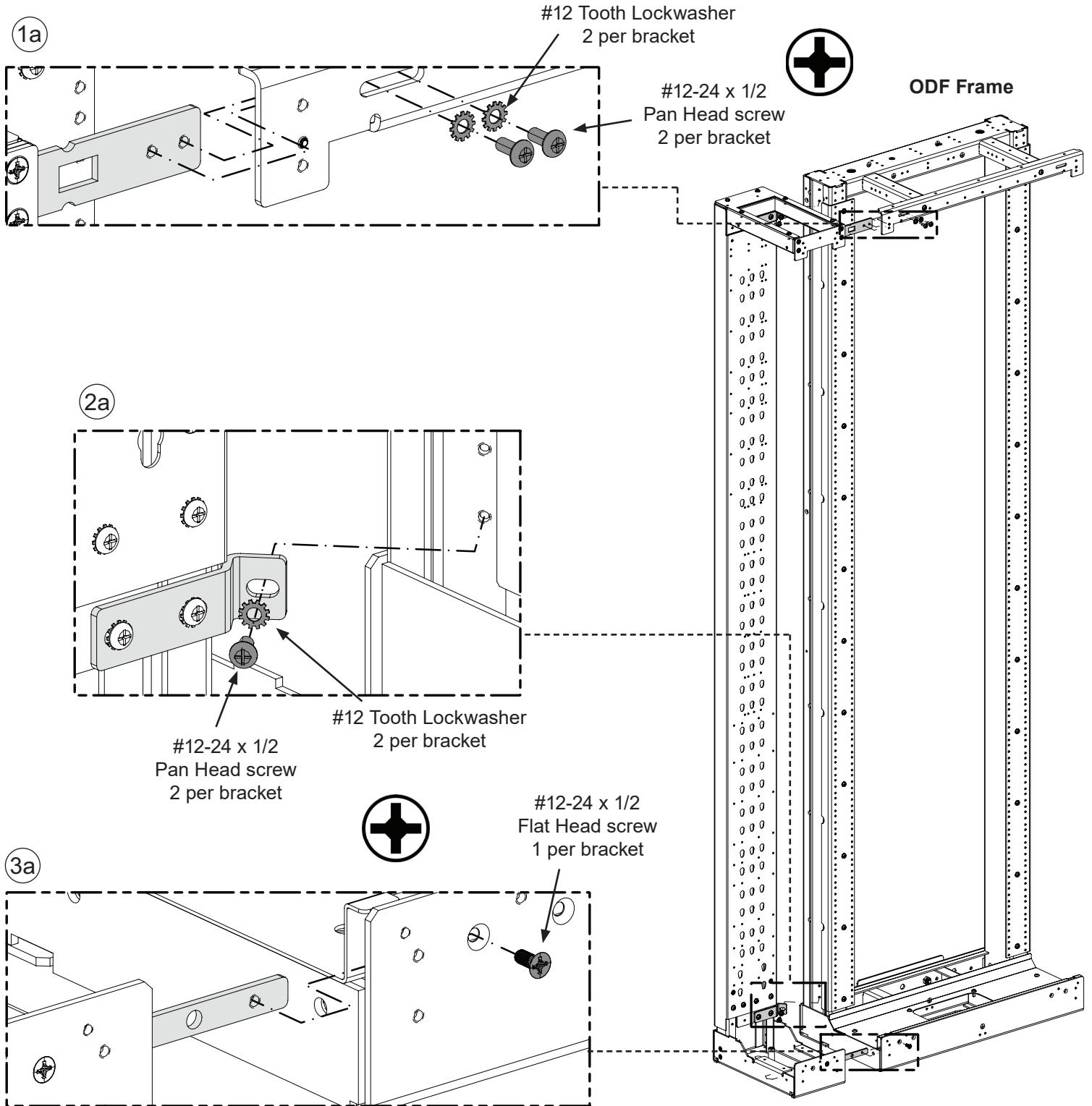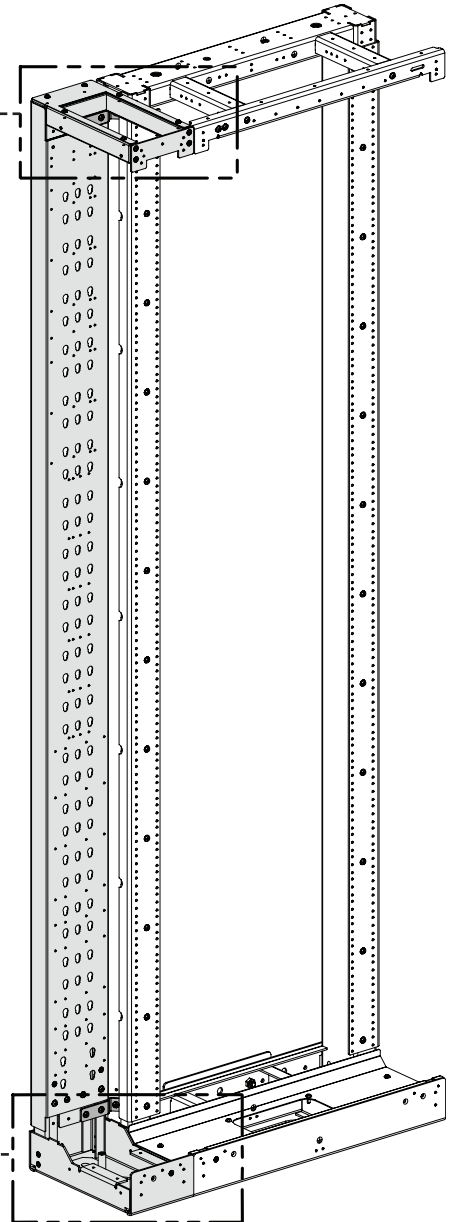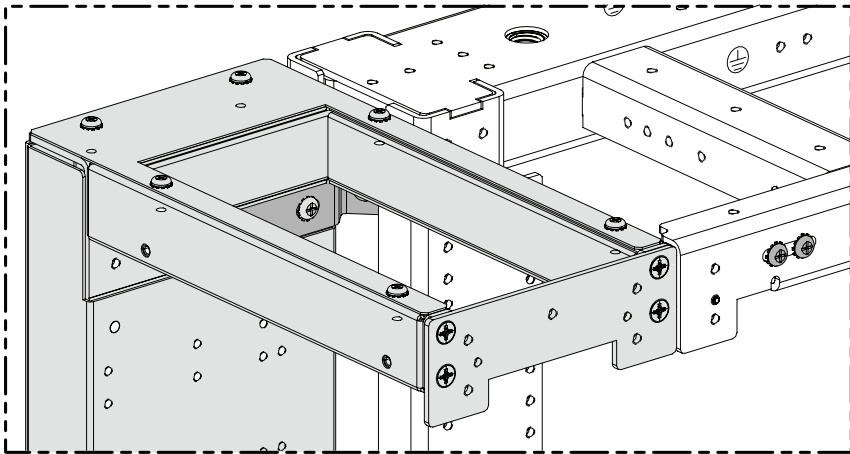
- Temporarily remove front plate of Halo to access and remove the spacer (Figure 1a)
- On sides that are being ganged to a 2nd Vertical Cable Manager, replace the spacer with VCM Ganging Bracket
- and re-assemble (Figure 1b)
- Install Ganging Brackets to sides that are being ganged to the 2nd Vertical Cable Manager (Figure 2)
- Install Short Lower Ganging Brackets to sides that are being ganged to 2nd Vertical Cable Manager (Figure 3)

**1a**

*Remove Spacer*

**1b**

*Replace with*
VCM Ganging Bracket

**2**

Ganging Bracket
Top & Bottom

#12 Tooth Lockwasher
2 per bracket

#12-24 x 1/2
Pan Head screw
2 per bracket

**3**

Short Lower
Ganging Bracket

#12-24 x 1/2
Flat Head screw
1 per bracket

*For Technical Support: www.panduit.com/resources/install_maintain.asp*
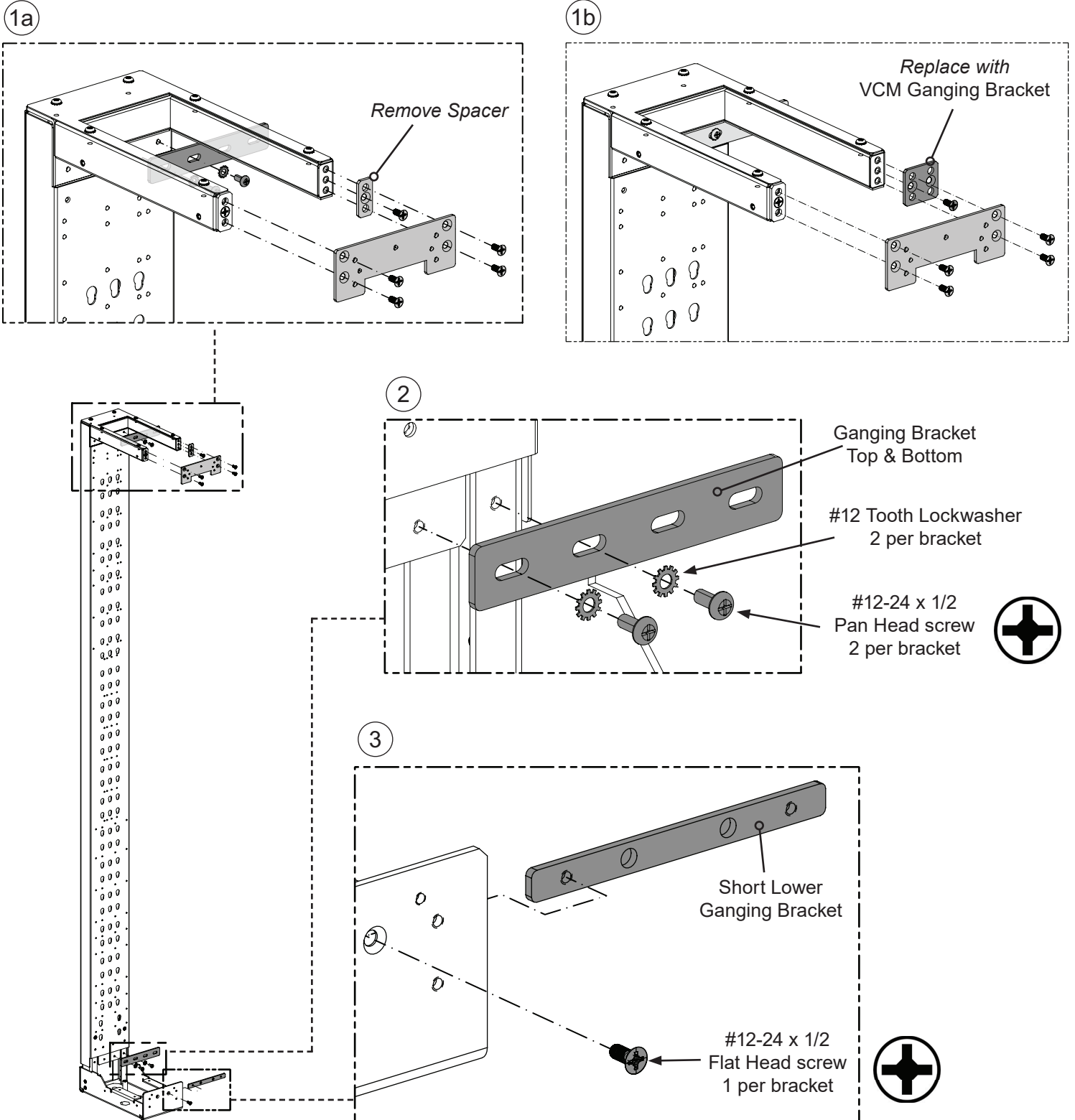
## Ganging Vertical Cable Manager to a 2nd Vertical Cable Manager - continued

- Temporarily remove front plate of Halo to access and remove the spacer on the 2nd Vertical Cable Manager
- Install & tighten hardware



1a

#12 Tooth Lockwasher
2 places

#12-24 x 1/2
Pan Head screw
2 places

*Remove Spacer*

1b

2a

#12 Tooth Lockwasher
2 places

#12-24 x 1/2
Pan Head screw
2 places

#12-24 x 1/2
Flat Head screw
1 place

2b

*For Technical Support: www.panduit.com/resources/install_maintain.asp*
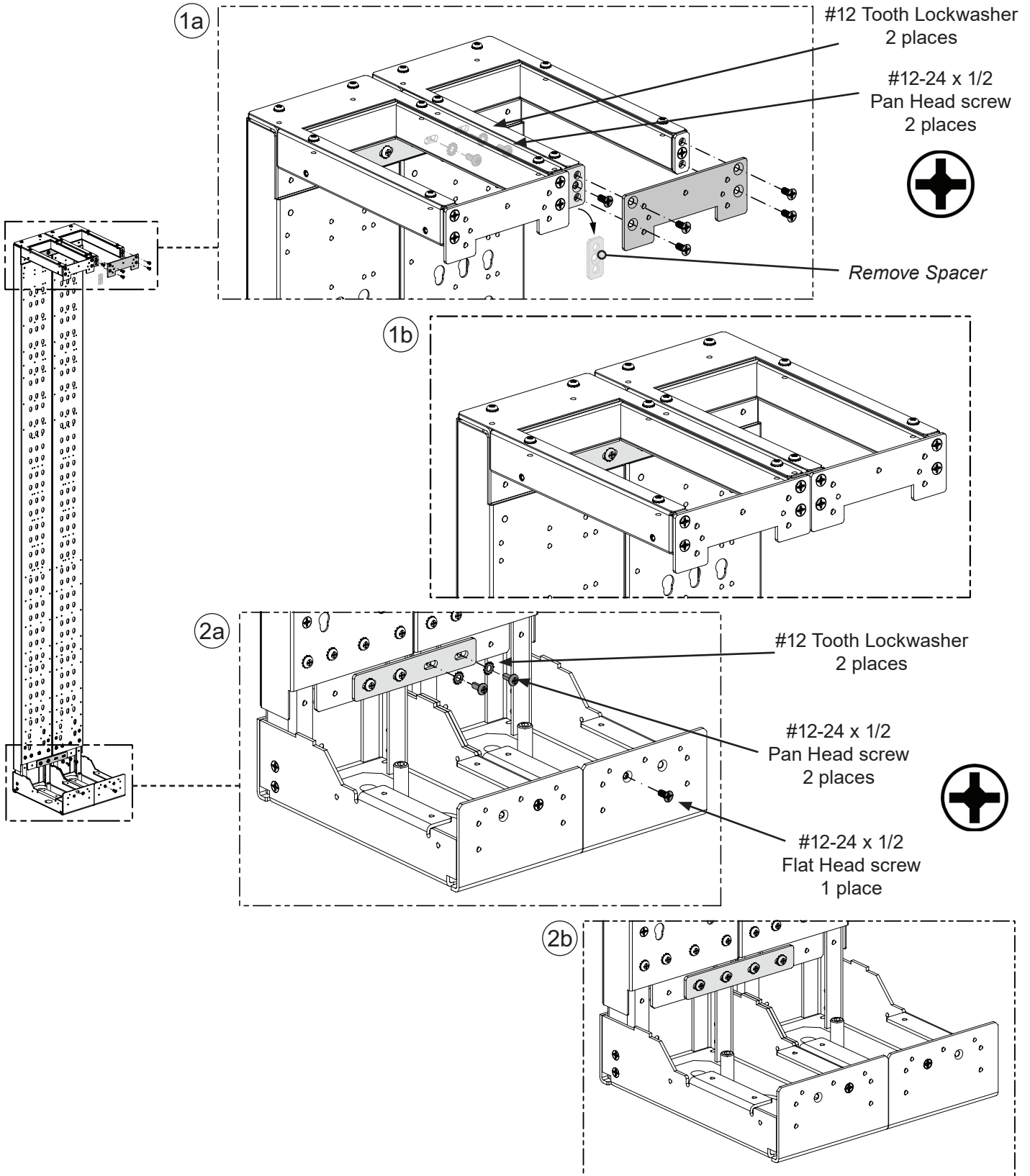
## Cable Opening Sizes in Vertical Cable Manager

### Top of Vertical Cable Manager - Overhead Incoming Cable Area



**9.04**
**[229.7]**

**4.32**
**[109.8]**
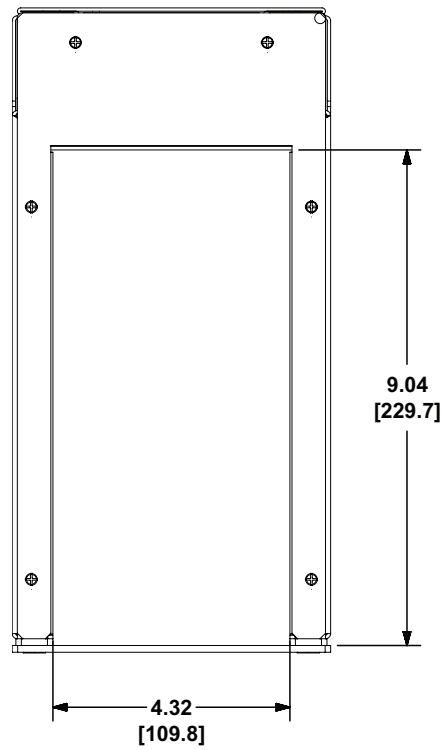
### Bottom of Vertical Cable Manager - Floor Incoming Cable Open Area



**5.00**
**[127.0]**

**3.00**
**[76.2]**

*For Technical Support: www.panduit.com/resources/install_maintain.asp*
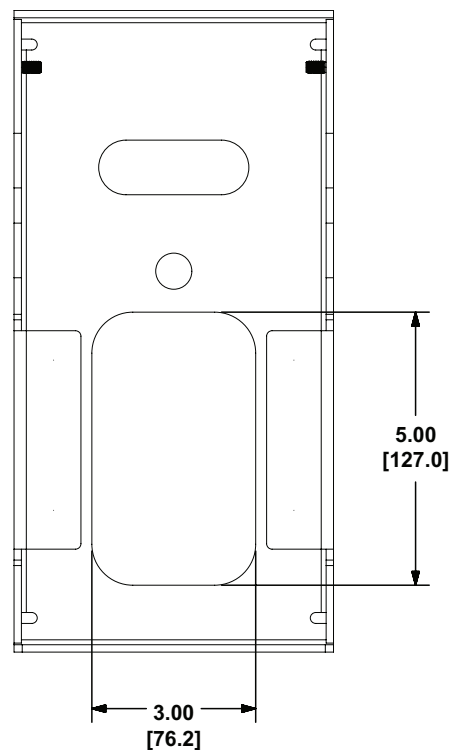
## Attach Lower Cable Pathway

### Cable Opening

2.50
[63.5]

4.25
[108.0]

#12-24 x 1/2
Pan Head screw
4 places

#12 Tooth Lockwasher
4 places

Lower Cable
Pathway
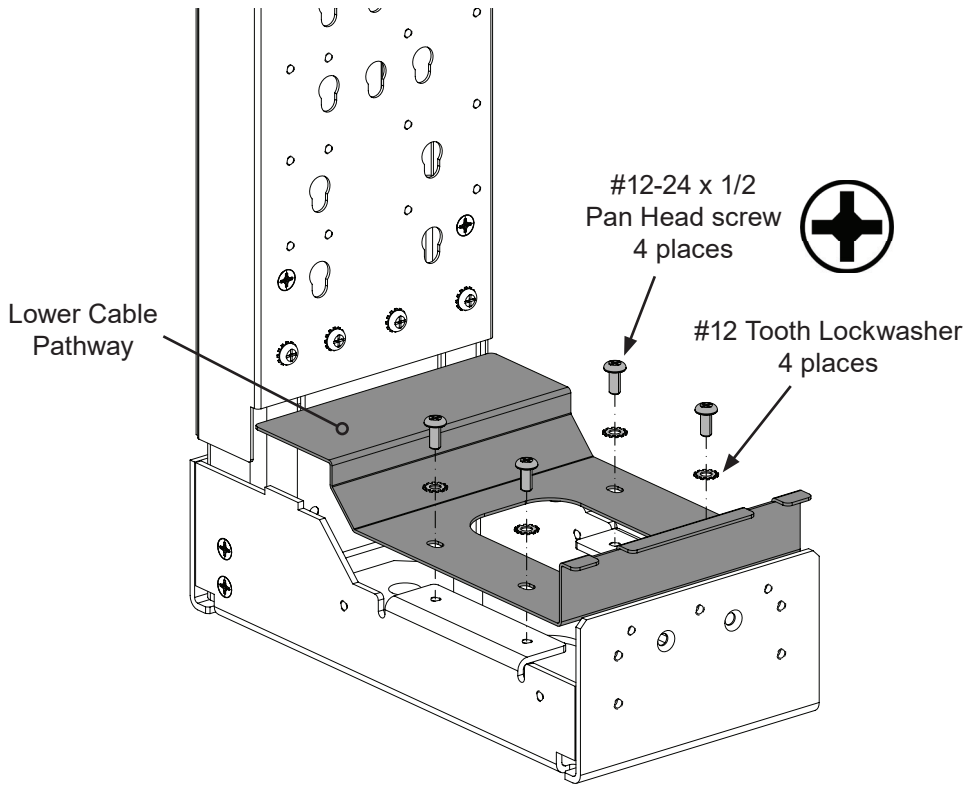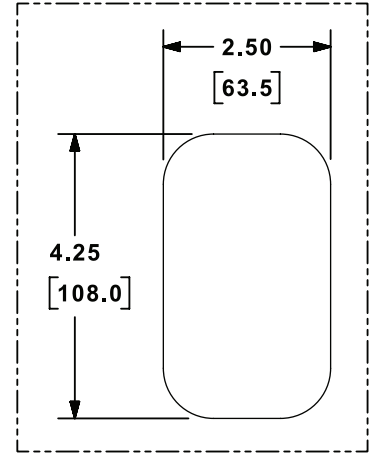
## OPTIONAL - Attach Lower Pathway Access Cover

#12-24 x 1/2
Pan Head screw
4 places

#12 Tooth Lockwasher
4 places

Lower Pathway
Access Cover
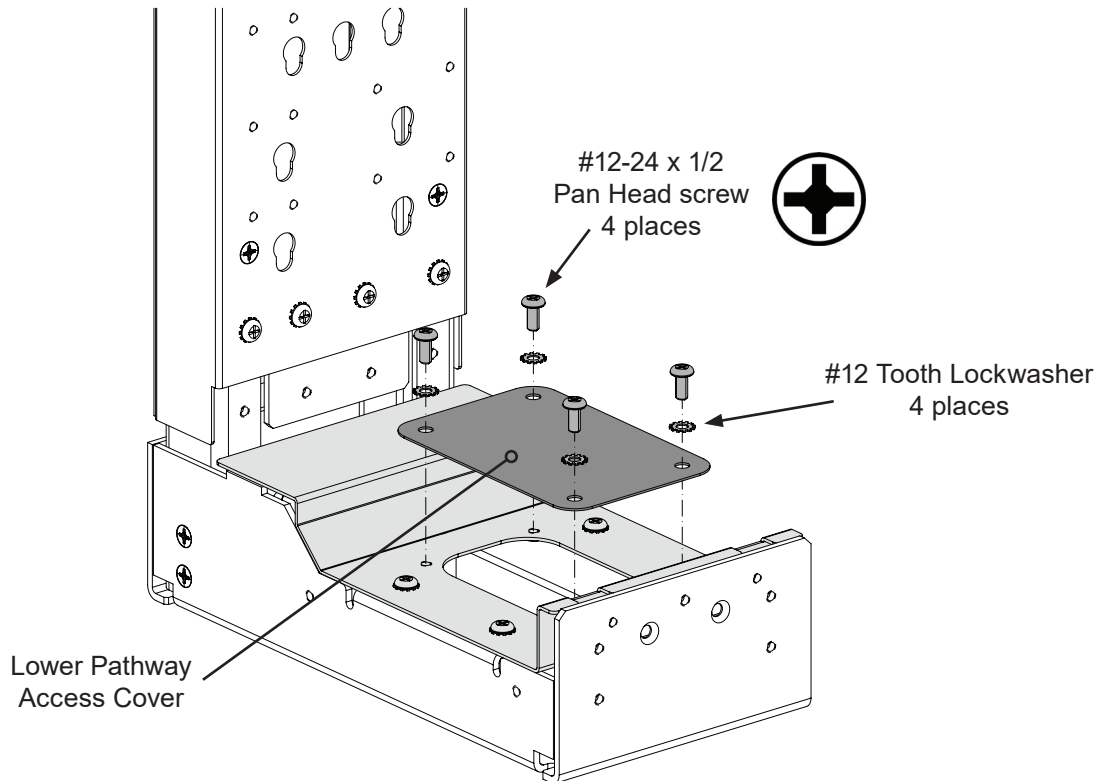
## Install Ingress/Egress Panels

- Install Ingress/Egress plates to the vertical Cable Manager in preferred configuration
- Install Grommet Edging to protect cables
- See Installation Instructions FS206 for further information on Cabling and configuration options

#10-32 x 1/2
Pan Head screw

#10 Tooth
Lockwasher

Large
Ingress/Egress
Plate
Qty: 1

Mid-size Ingress/
Egress Plate
Qty: 2
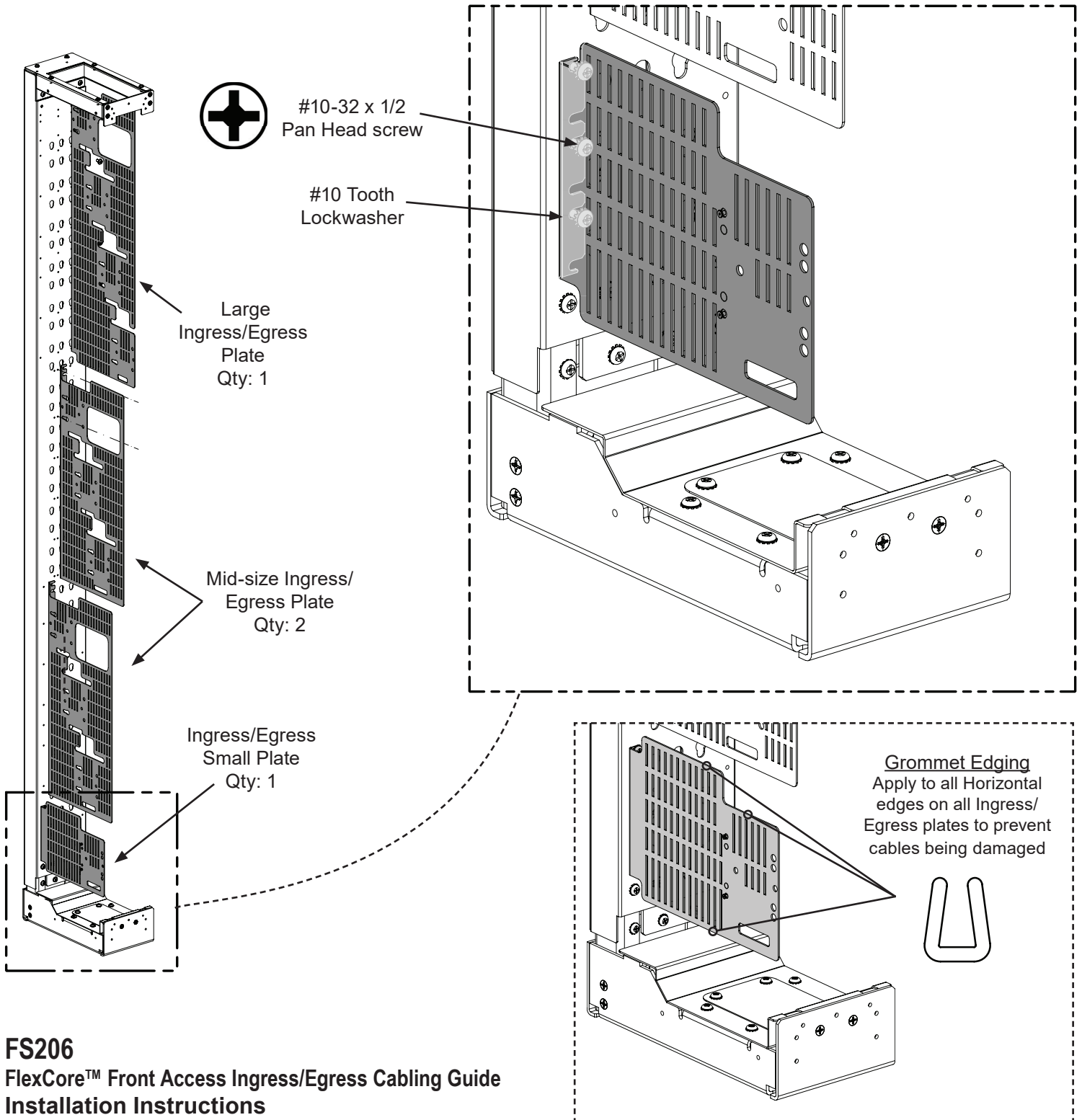
Ingress/Egress
Small Plate
Qty: 1

Grommet Edging
Apply to all Horizontal
edges on all Ingress/
Egress plates to prevent
cables being damaged

## FS206
### FlexCore™ Front Access Ingress/Egress Cabling Guide
### Installation Instructions
*See for more detailed information on cable routing & different
configuration options*

## FlexCore™ System Installation Instructions

| Installation Instruction Number | Panduit Part Number | Description |
|---|---|---|
| FS187 | FOBKF**(Y/A)M1 | Fiber Breakout Kit, Flat Ribbon Furcation Tube |
| FS190 | FDFF45** | FlexCore™ Optical Distribution Frame |
| FS191 | FDVCM1545** | FlexCore™ 150mm Vertical Cable Manager |
| FS192 | FDVCM3045** | FlexCore™ 300mm Vertical Cable Manager |
| FS193 | FDUFD**45*X** | FlexCore™ Single Hinge Front Doors |
| FS194 | FDFEP45** | FlexCore™ End Panels |
| FS198 | FDUSP | FlexCore™ Fiber Spool |
| FS199 | FDUSP6 | FlexCore™ Fiber Spool 6-pack Color Coordinated Kit |
| FS200 | FDS**-24-*** | FlexCore™ Fusion Splice Cassette - Cable to LC Adapter |
| FS201 | FDSN-24 | FlexCore™ Fusion Splice Cassette - Cable to Cable |
| FS203 | FDFUE4** | FlexCore™ 4RU Universal Enclosure |
| FS204 | N/A | FlexCore™ Front Access Optical Distribution Frame Patchcord Routing Guide |
| FS205 | FDFRC45** | FlexCore™ Frame Rear Panel |
| FS206 | N/A | FlexCore™ Front Access Ingress/Egress Cabling Guide |

**For Instructions in Local Languages and Technical Support:**

www.panduit.com/resources/install_maintain.asp

**PANDUIT**

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