INSTALLATION INSTRUCTIONS

IDEAA® Exterior Distribution Cabinet

TABLE OF CONTENTS

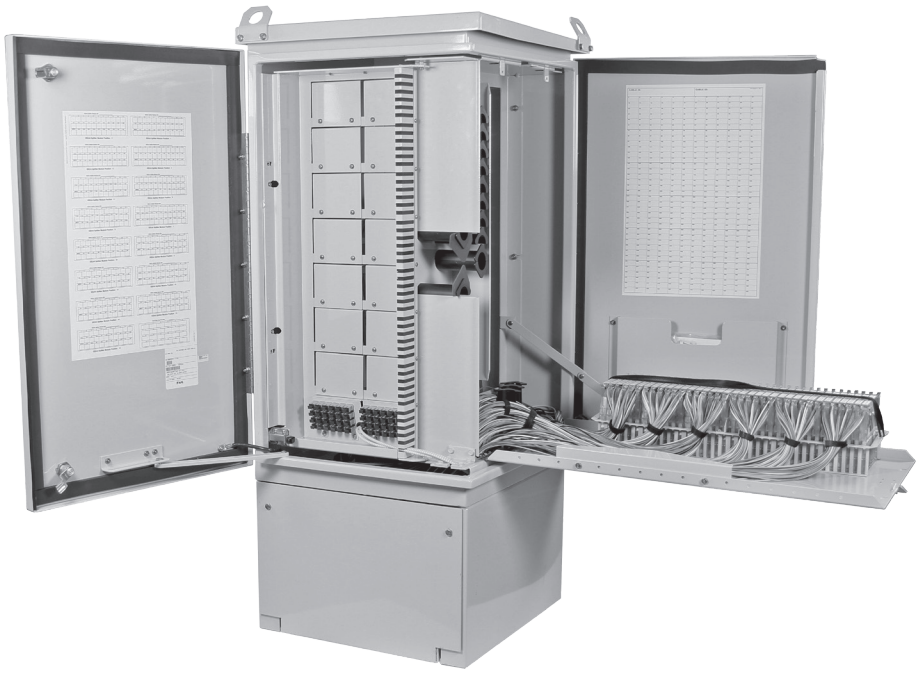
GENERAL

The IDEAA Exterior Distribution Cabinet (EDC) provides a convenient modular approach to centralized fiber distribution. All sizes of the EDC utilize the IDEAA splitter module to enable versatility across the platform. The EDC utilizes innovative jumper routing to enable efficient fiber management utilizing equal length pigtails for the entire cabinet.

SPECIFICATIONS

PARAMETER	VALUE	
	288 FIBER	432 FIBER
Splitter Capacity	Up to 9 Modules	Up to 14/15 Modules
Input/Pass Through Ports	24	24 (48 Available)
Dimensions (L x W x H) in. (cm)	38.00 x 20.00 x 20.00 (96.52 x 50.8 x 50.8)	46.00 x 20.00 x 20.00 (116.84 x 50.8 x 50.8)

PACKAGE CONTENTS



A. IDEAA Exterior Distribution Cabinet with Skirt
B. Fiber Input Cable
C. Fiber Distribution Cable

PACKAGE CONTENTS: ACCESSORIES

Skirt Mounting Hardware Kit

REQUIRED TOOLS

216 style Socket Tool

Phillips Head Screwdriver

ADD-ON COMPONENTS

SC IDEAA Module – 1 x 32

LC IDEAA Module – 2 x 32

LC Input / SC Output IDEAA Module – Dual 1 x 16

24 Fiber Input Assembly

CABINET MOUNTING

HAND-HOLE OR VAULT MOUNT

1. To remove either the front or rear access panels, lower the panel to an approximate 10° angle from that cabinet base and lift the door off of the mounting brackets. **(Figure 1)**
2. Route the cable stubs into the hand-hole or vault opening.
3. Set the EDC into place by aligning the skirt mounting holes with the hand-hole or vault mounting holes.
4. Secure the EDC by installing and tightening the four threaded bolts and washers included in the Skirt Mounting Hardware Kit. **(Figure 2)**
5. To re-install the skirt door, place the skirt panel at approximately a 10° angle to the base of the cabinet, so that the panel will slide onto the mounting brackets.
6. Ensure that both the front and rear skirt panels are securely attached to the EDC.

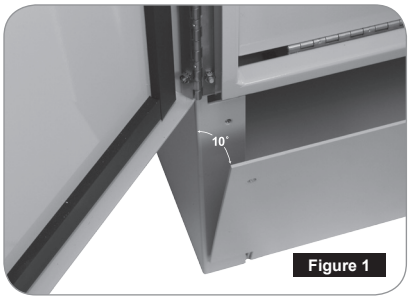


Figure 1

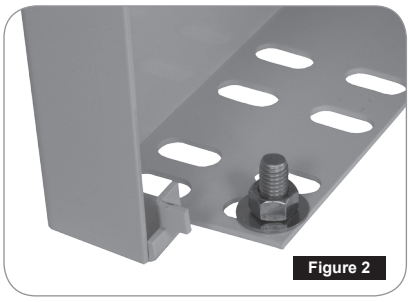


Figure 2

PAD MOUNT

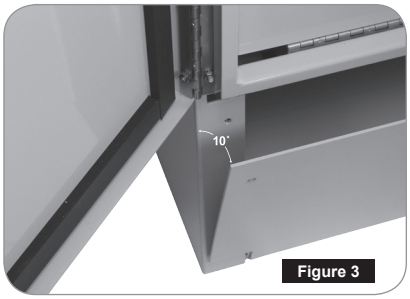


Figure 3

1. Position the mounting template on the concrete pad in the desired location.
2. Install mounting holes into the concrete.
3. Insert wedge anchors into the mounting holes and activate the anchor nuts.
4. To remove either the front or rear access panels, lower the panel to an approximate 10° angle from that cabinet base and lift the door off of the mounting brackets. **(Figure 3)**
5. Uncoil the cable stubs and route through the conduit in the concrete pad.
6. Set the EDC into place by aligning the skirt mounting holes with the wedge anchors.
7. Secure the EDC with the wedge anchor washers and nuts.
8. To re-install the skirt door, place the skirt panel at approximately a 10° angle to the base of the cabinet, so that the panel will slide onto the mounting brackets. **(Figure 3)**
9. Ensure that both the front and rear skirt panels are securely attached to the EDC.

POLE MOUNT

If the pole mount option is chosen the cabinet will come with the required mounting brackets attached to the EDC. **(Figure 4)**


Figure 4

Direct-to-Pole Mounting

1. Loosen the four set screws located on each side of the mounting bracket in order to remove the ‘W’ shaped portion of the bracket. Do not remove the set screws from the bracket.
2. Secure the ‘W’ bracket to the pole by installing and tightening the threaded bolts, included in the mounting hardware kit.
3. To install, align the cabinet bracket with the ‘W’ bracket.
4. Tighten the set screws loosened in Step 1 and route cable stubs to desired location.

Note: Use grounding bar located inside cabinet to ground armored cable.

Band Mounting

1. Loop the mounting band through loop channels on ‘W’ bracket.
2. Align the cabinet mounting bracket with pole and tighten the band around pole.

Note: Use grounding bar located inside cabinet to ground armored cable.

LOCK AND UNLOCK EXTERIOR DOORS

1. Using a standard 216 style tool, or similar, turn the locking bolt located at the top and botton of the EDC door a ¼ turn.

Note: A pad lock, not provided, may be utilized if additional security is desired.

IDEAA SPLITTER MODULE INSTALLATION

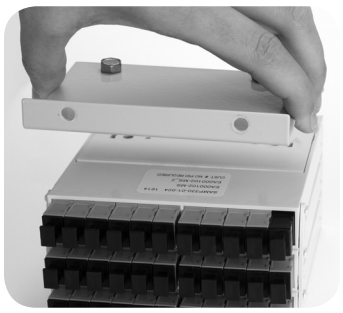
MOUNT IDEAA SPLITTER MODULE

1. Using local engineering practices, determine the location of the IDEAA Splitter Module to be installed within the EDC.
2. Remove the two screws at the base of the cover plate in the desired module location, using a Phillips head screwdriver. **(Figure 5)**

Note: These screws will be re-used to mount the IDEAA Splitter Module into the EDC.

3. Using the hex-head screws provided with the IDEAA Splitter Module, attach the bottom side of the module to the removed cover plate. **(Figure 6)**
4. Re-mount the cover plate with the attached IDEAA module into the desired location, using the screws removed in Step 2. **(Figure 7)**
5. Repeat Steps 1-4 for each IDEAA Splitter Module that needs to be mounted.


Figure 5



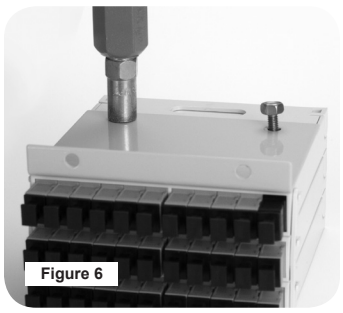


Figure 6


Figure 7

ACTIVATE IDEAA SPLITTER MODULE

An IDEAA Splitter Module that has been mounted into the EDC is not active until it has been connected to the Input Field.

Caution: When working with fiber optics, do not look directly into the end of the fiber cable or adapter port. A power meter may be used to determine if the cable or port is dark. Or use locally-accepted fiber optic safety practices.

1. Use locally-accepted practices to clean the connector end face at both ends of the jumper provided with the IDEAA Splitter Module.
2. Plug the jumper cable into the black input port on the IDEAA Splitter Module. **(Figure 8)**

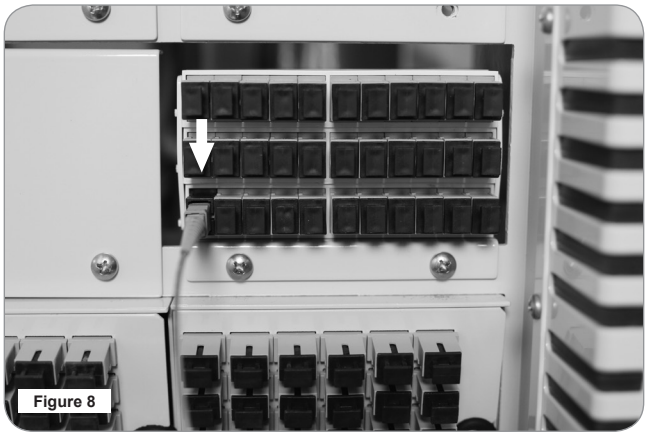


Figure 8

Note: When mounted on the cover plate, the black input port will be located in the bottom left corner of the adapter field

3. Using local engineering practices, determine the port to be used on the input panel for activating the IDEAA Splitter Module. Plug the opposite end of the jumper into the desired port on the input panel. **(Figure 9)**

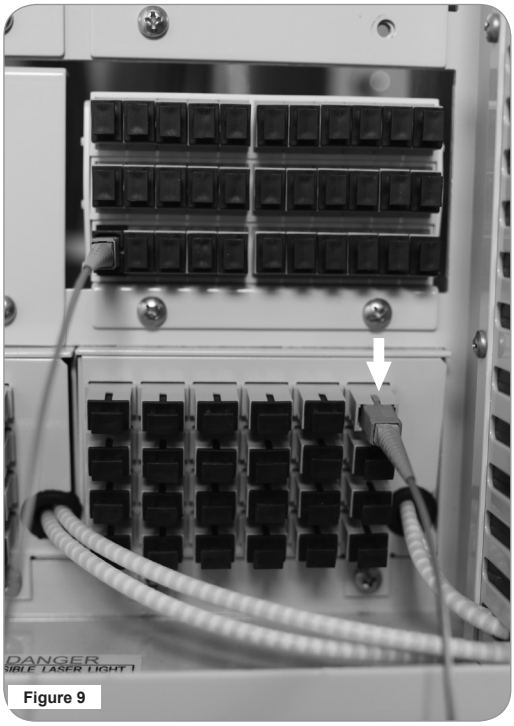


Figure 9

ACTIVATE IDEAA SPLITTER MODULE (CONTINUED)

4. Use the foam fiber relief to route the jumper cable to the fiber routing section of the EDC. **(Figure 10)**

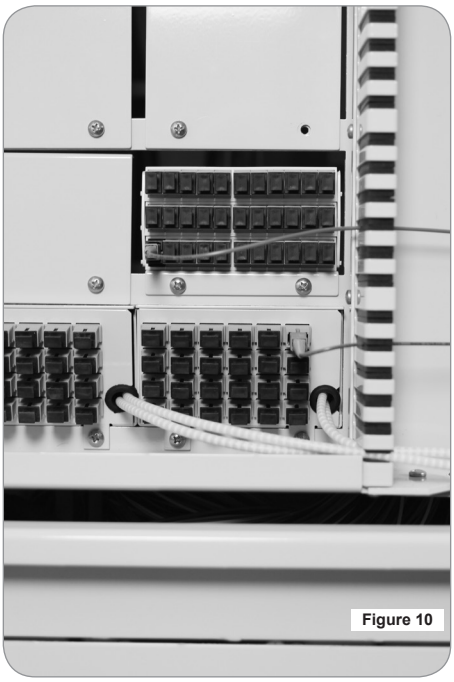


Figure 10

Figure 11

5. Route the remaining jumper slack through the fiber routing section of the EDC. **(Figures 11 and 12)**

6. Repeat Steps 1-5 for each IDEAA Splitter Module that needs to be activated.

Note: For best practice, it is recommended that the jumper slack be routed around the upper most cable routing guide. Avoid looping the slack through the fiber routing section of the EDC.

Figure 12

CONNECT DISTRIBUTION FIBER

1. Remove the shipping screw from each end of the swing down tray. A total of two shipping screws will be removed. **(Figure 13)**

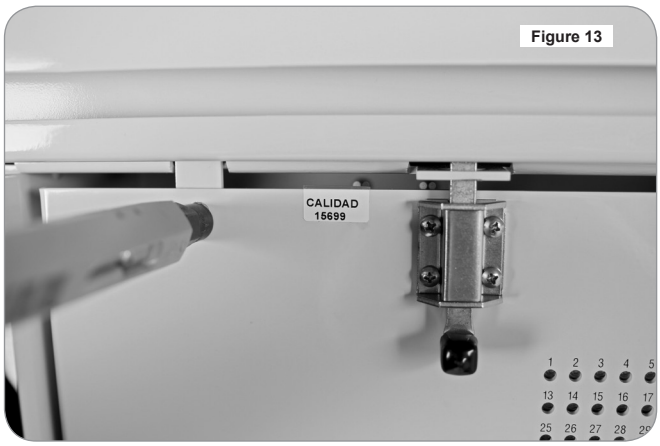


Figure 13

2. Using local engineering practices, determine the appropriate distribution fiber to be connected. Remove the corresponding fiber storage cartridge from the swing down tray by pushing in and pulling up on the cartridge arms. **(Figure 14)**

⊛ **Note: The cartridges and distribution fibers are numbered to assist in fiber identification. Additionally, distribution fibers may be identified by placing a red light on the customer side of the fiber and locating the fiber on the swing down tray. (Figure 15)**

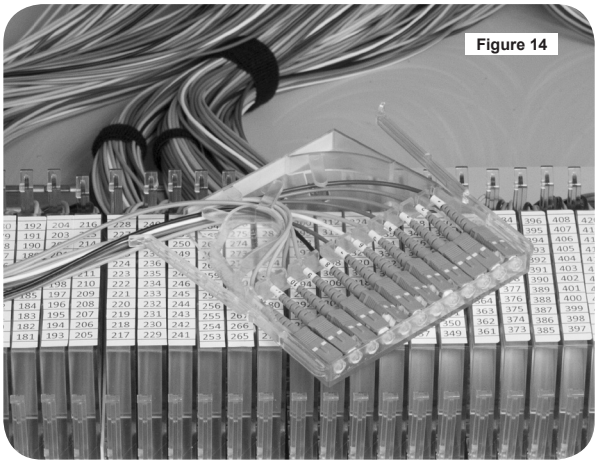


Figure 14

Figure 15

3. Remove the desired distribution fiber from the cartridge by sliding the connector out of the housing location and continue to route the cable out of the cartridge.
4. For best practice, it is recommended that the distribution fiber be routed back to the grommet. Ensuring the distribution fiber has a clear path to the fiber routing section of the EDC.
5. Use local accepted practices to clean the distribution fiber connector end face.

CONNECT DISTRIBUTION FIBER (CONT.)

6. Connect the distribution fiber to the appropriate port on the IDEAA Splitter Module. **(Figure 16)**
7. Use the foam fiber relief to route the distribution fiber to the fiber routing section of the EDC. Employing a similar technique to that used with the activation jumper cable.
8. Route the remaining distribution fiber slack through the fiber routing section of the EDC. **(Figures 17 and 18)**

Note: For best practice, it is recommended that the distribution fiber slack be routed around the upper most cable routing guide. Avoid looping the slack through the fiber routing section of the EDC.

9. Repeat Steps 2-8 for each addition distribution fiber needing to be connected.

Note: Unused fiber should remain the in the fiber storage cartridge until needed.

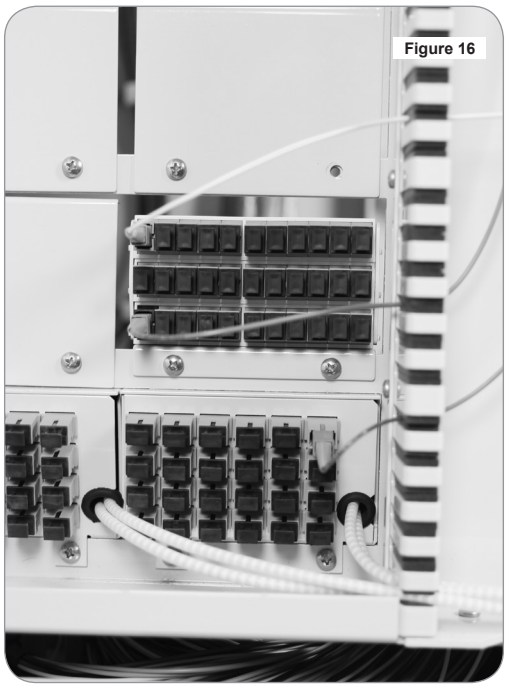


Figure 16


Figure 17


Figure 18

PASS THROUGH CONNECTION

1. Using local engineering practices, determine the appropriate distribution fiber to be used for a pass through connection. Remove the corresponding fiber storage cartridge from the swing down tray by pushing in and pulling up on the cartridge arms.
2. Remove the desired distribution fiber from the cartridge by sliding the connector out of the housing location and continue to route the cable out of the cartridge.
3. For best practice, it is recommended that the distribution fiber be routed back to the grommet. Ensuring the distribution fiber has a clear path to the fiber routing section of the EDC.
4. Use local accepted practices to clean the distribution fiber connector end face.
5. Connect the distribution fiber to the appropriate port on the input field.
6. Use the foam fiber relief to route the distribution fiber to the fiber routing section of the EDC. Employing a similar technique to that used with the jumper cable.
7. Route the remaining distribution fiber slack through the fiber routing section of the EDC.
8. Repeat Steps 1-7 for each addition pass through connection.

Note: Unused fiber should remain the in the fiber storage cartridge until needed.

CROSS-CONNECTION APPLICATION

For cross-connect applications the EDC cabinet will be configured with a dedicated cross-connect panel in place of the IDEAA Splitter Module mounts. The cross-connect panel will have the input cable factory installed into the master plate.

1. Using local engineering practices, determine the appropriate port within the input master plate.
2. Using local engineering practices, determine the appropriate distribution fiber to be used for the cross-connections. Remove the corresponding fiber storage cartridge from the swing down tray by pushing in and pulling up on the cartridge arms.

Note: The cartridges and distribution fibers are numbered to assist in fiber identification. Additionally, distribution fibers may be identified by placing a red light on the customer side of the fiber, and locating the fiber on the swing down tray.

3. For best practice, it is recommended that the distribution fiber be routed back to the grommet. Ensuring the distribution fiber has a clear path to the fiber routing section of the EDC.
4. Use local accepted practices to clean the distribution fiber connector end face.
5. Connect the distribution fiber to desired adapter located on the cross-connect panel.
6. Use the foam fiber relief to route the distribution fiber to the fiber routing section of the EDC.
7. Route the remaining distribution fiber slack through the fiber routing section of the EDC.

Note: For best practice, it is recommended that the jumper slack be routed around the upper most cable routing guide. Avoid looping the slack through the fiber routing section of the EDC.

8. Repeat Steps 1-7 for each addition cross-connection.

Note: Unused fibers should remain in the fiber storage cartridge until needed.