

## Wall-Mount Distribution Center

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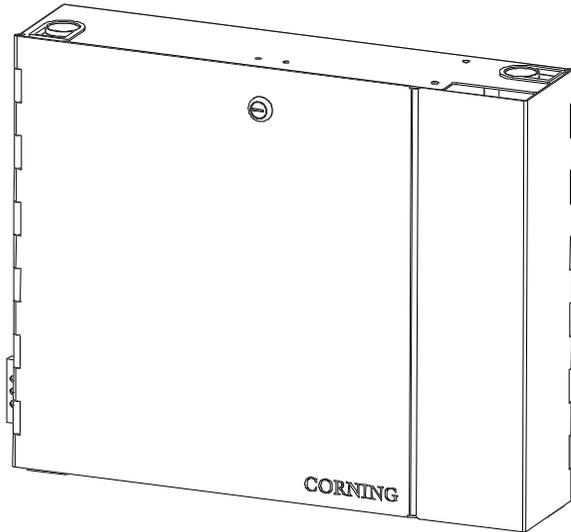


Figure 1

### 1. General

1.1 This instruction describes the recommended procedure for installation of the Wall-Mount Distribution Center (WDC-006) shown in Figure 1.

1.2 Make sure you read and understand this instruction and instructions for all related assemblies before beginning an installation.

1.3 Contact your customer service representative to purchase accessories that are sold separately.

1.4 This document is being revised to:

- remove all references to a total fiber count for the unit.
- include additional precautions.
- illustrate the redesigned organizer retainer.
- incorporate module removal instructions into Section 6.

### 2. Description

- A modular interconnect panel for computer room or central office use that serves as an interface between the outside loose tube cable or intrabuilding cable and opto-electronic equipment.

- Can be used for cross-connect and interconnect applications.
- Accommodates up to four LGX-compatible connector panels (or modules). Connector panels and modules are purchased separately
- Accommodates four Raychem® B-size organizer trays, which accepts up to six splices. Organizer trays are purchased separately.

### 3. Precautions

#### 3.1 Laser Handling Precautions

**⚠ WARNING:** *Never look directly into the end of a fiber that may be carrying laser light. Laser light may be invisible and can damage your eyes. Viewing it directly does not cause pain. The iris of the eye will not close involuntarily as when viewing a bright light. Consequently, serious damage to the retina of the eye is possible. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.*

**⚠ WARNING:** *DO NOT use magnifiers in the presence of laser radiation. Diffused laser light can cause eye damage if focused with optical instruments. Should accidental eye exposure be suspected, arrange for an eye examination immediately.*

### 3.2 Safety Precautions

**⚠ CAUTION:** *The wearing of safety glasses to protect the eyes from accidental injury is strongly recommended when handling chemicals and cutting fiber. Pieces of glass fiber are very sharp and can damage the cornea easily.*

**⚠ CAUTION:** *The wearing of safety gloves to protect hands from accidental injury is strongly recommended when using sharp instruments.*

**⚠ CAUTION:** *Isopropyl alcohol is flammable with a flashpoint at 50°F. It can cause irritation to eyes on contact. In case of eye contact, flush eyes with water for at least 15 minutes. Inhaling fumes may induce mild narcosis. In case of ingestion, consult a physician.*

### 3.3 Glass Fiber Precautions

**⚠ WARNING:** *Cleaved glass fibers are very sharp and can pierce the skin easily. Do not let cut pieces of fiber stick to your clothing or drop in the work area where they can cause injury later. Use tweezers to pick up cut or broken pieces of the glass fibers and place them on a loop of tape kept for that purpose alone. Good housekeeping is very important.*

### 3.4 Cable Handling Precautions

**NOTE:** *Fiber optic cable is sensitive to excessive pulling, bending and crushing forces. Consult the cable specification sheet for the cable you are installing. Do not bend the cable more sharply than the minimum recommended bend radius. Do not apply more pulling force to the cable than specified. Do not crush the cable or allow it to kink. Doing so may cause damage that can alter the transmission characteristics of the cable — the cable may have to be replaced.*

## 4. Tools and Materials

In addition to the usual complement of installation tools, you will need the following:

- Anchoring or wood screws  
(4 required; size range #8 to 1/4 in.)
- Cable-tie tool
- 5/16-inch nut driver
- 7/16-inch nut driver

## 5. Wall Mounting

Determine the mounting location of the WDC-006 unit.

- a) Open both doors and locate the mounting holes on the backplate.
- b) Mark the screw locations on the wall using the back of the WDC-006 unit or the template packaged with the unit (Figure 2).

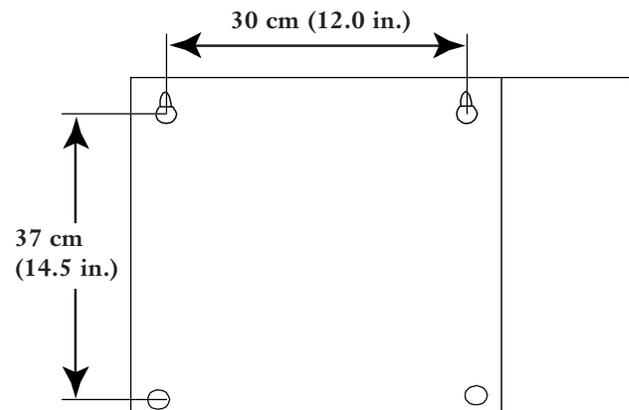


Figure 2

- c) Insert anchors or drill holes for wood screws at the four points. Insert screws into the top two anchors or drilled holes, leaving a 1/8-inch gap behind the screw heads.
- d) Position the keyholes of the WDC unit over the screws.
- e) Insert screws into the two lower holes.
- f) Secure the unit by tightening all four screws.

## 6. Cable Installation

**6.1** Determine cable entry location and prepare the cable entry grommet as shown in Figure 3. Slide the grommet onto the cable.

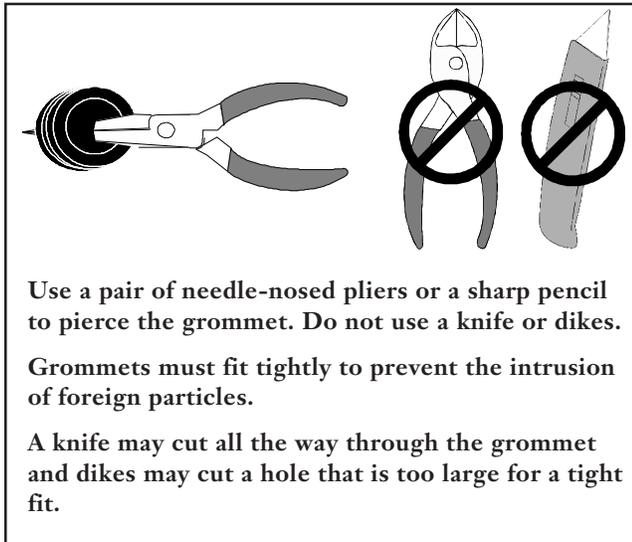


Figure 3

**6.2** Remove cable sheath as specified in instructions for the cable you are installing (Figure 4).

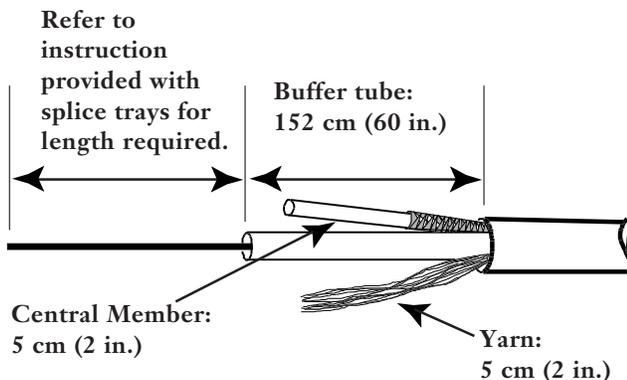


Figure 4

**6.3** Strain-relieve the cables to the removable strain-relief bracket shown in Figure 5. The removable bracket accommodates the strain-relief hardware and cable ties included with the unit. The removable bracket design permits convenient anchoring of all cable types.

**6.4** Attach the cable strain-relief bracket to the housing. Slide it over the mounting studs in the backplate, and attach with the lock washers and hex nuts.

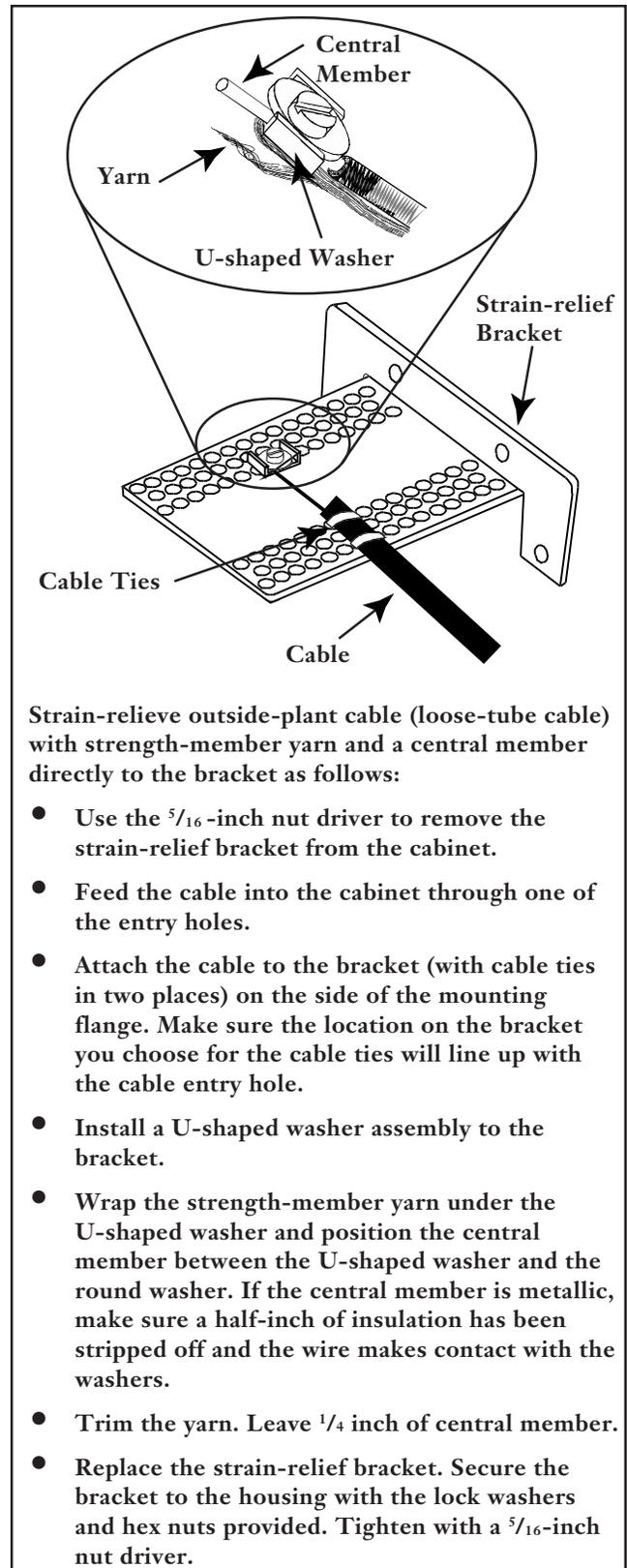


Figure 5

6.5 If grounding is required, ground cables according to the instructions provided with the ground kit (purchased separately).

## 7. Connector Modules

Load the connector modules if they are not already mounted (Figure 6).

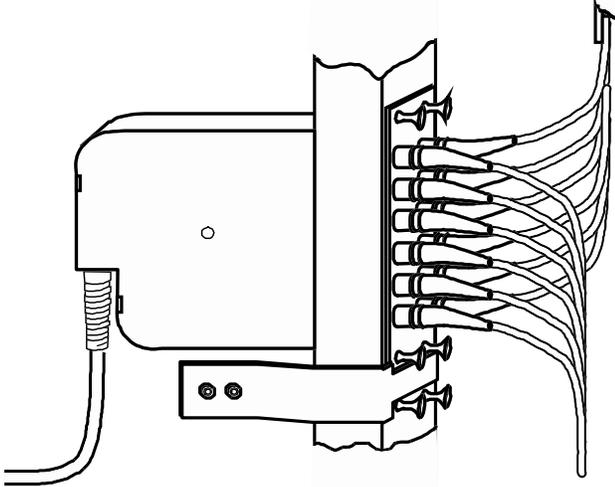


Figure 6

a) Remove the module lock-bracket, if installed, by removing the two  $\frac{7}{16}$ -inch nuts holding it to the backplate (Figure 7).

**NOTE:** *It is not possible to remove modules from the unit without first removing the module lock-bracket.*

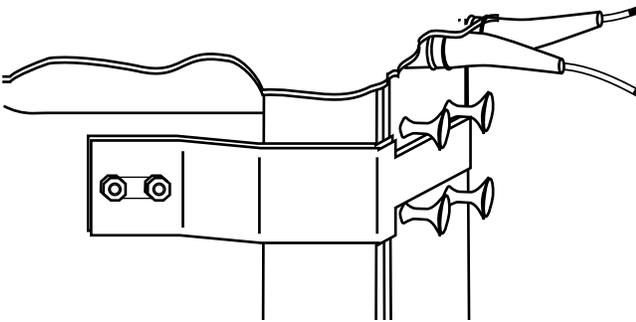


Figure 7

- b) Remove the blank panels by pulling on the plunger fasteners as shown in Figure 8.
- c) Pull out the plunger fasteners on each module and position the module so that its base is in the mounting hole. Press the plunger to lock the module in place (Figure 8).
- d) Replace the module lock-bracket.

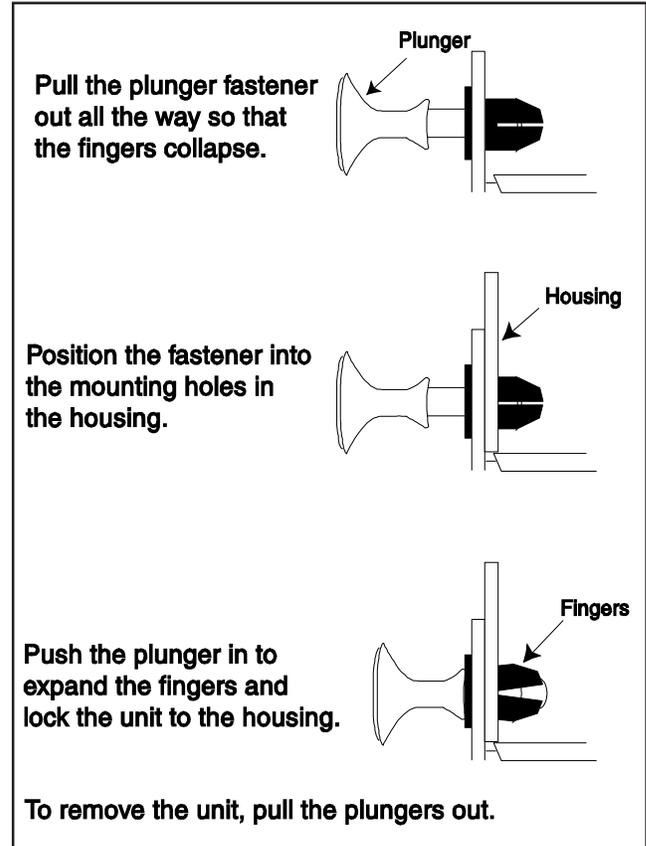


Figure 8

## 8. Splicing

8.1 Straighten out the buffer tubes from the cable and the pigtail fibers from the connector panel modules, working from the housing to the splicing area. Use cable ties to secure buffer tubes and pigtails to the organizer tray.

8.2 Splice fibers as described in instructions for the splicing method you are using.

8.3 Place splice parts and route fiber inside the organizer trays as explained in the instructions provided with the organizer.

8.4 Route the pigtails and buffer tubes around the fiber routing guide on the backplate of the unit (Figure 9).

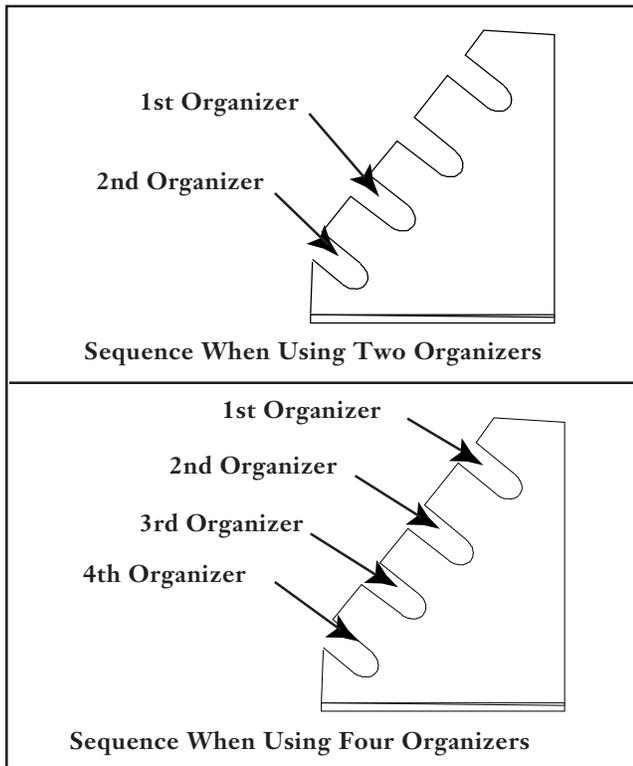


Figure 9

8.5 Load organizer trays into the WDC unit as indicated in Figure 10. Work on one organizer at a time starting with the one to be placed in the lowest slot you intend to use in the organizer holder.

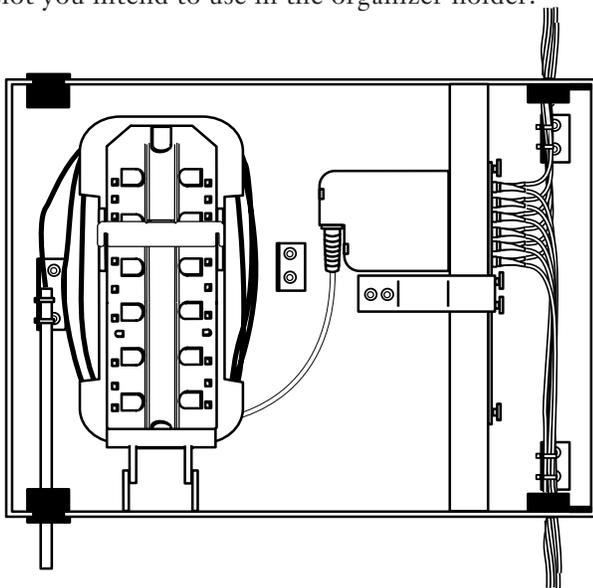


Figure 10

- If loading four organizer trays, start with the bottom slot.
- If loading two organizer trays, start with the third slot from the bottom.

8.6 Allow the organizer to swing in a horizontal position as you work on the next one.

8.7 When all the organizers are loaded, swing them up into a vertical position and secure them with the organizer retainer (Figure 11).

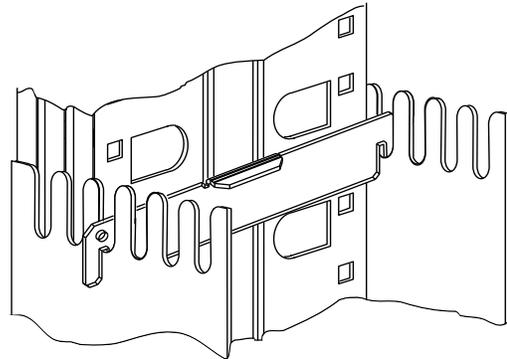


Figure 11

8.8 Record splicing assignments on the large splicing assignment label. Install the label on the inside of the front cover.

## 9. Jumper Routing

9.1 Route jumpers into the WDC unit through grommets in the top and bottom of the unit. Prepare grommets as shown in Figure 3.

9.2 Determine the length of jumper required to make each connection and install appropriately.

**NOTE:** Obey the following precautions in order not to damage the surface of the connector and make it unusable:

- Use a clean tissue soaked in alcohol to gently clean the connector. Do not press heavily on it as you clean.
- Dry the connector prior to installation by using a tissue or blowing it dry with compressed air.
- Clean all areas that will contact the connector adapter.
- Do not force the connector into the receptacle. If the connector does not fit easily into the receptacle, back it out and reinstall.
- Install threaded connectors into the adapter and tighten. Do not OVERTIGHTEN. Do not allow the connector body (ferrule) to turn as you screw it into place. This causes the surfaces to grind against each other.

9.3 Secure the jumpers on strain-relief brackets with cable ties (Figure 12).

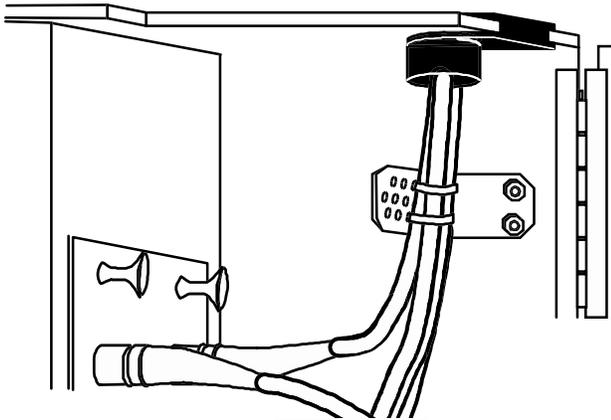


Figure 12

9.4 Record jumper identification on the label provided for that purpose.

## 10. Maintenance

10.1 The WDC-006 unit is not designed for outdoor use. Keep the unit away from moisture. If desired, moisture accumulation packets (desiccant bags) may be placed in the unit.

10.2 Clean the WDC with a dry cloth.

Special Note:  
Fiber Optic  
Training  
Program



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