

COYOTE® AXCESS SOLUTIONS WALL MOUNT CABINET (for up to 96 fibers)

Be sure to read and completely understand this procedure before applying product. Be sure to select the proper PREFORMED™ product before application.

Catalog Number	Product Description
WDC8	Wall Mount Cabinet - splice and connect up to 96 fibers

CONTENTS	PAGE	CONTENTS	PAGE
1. NOMENCLATURE	1	5. PIGTAIL PREPARATION AND ROUTING.....	4
2. DESCRIPTION	2	6. FIBER SPLICING AND SPLICE TRAY	5,6
3. MOUNTING ON WALL.....	2	7. JUMPER ROUTING	6
4. PREPARATION AND ROUTING OF FEEDER CABLE	2,3,4	8. ACCESSORIES	6-7
		9. SAFETY CONSIDERATIONS	7

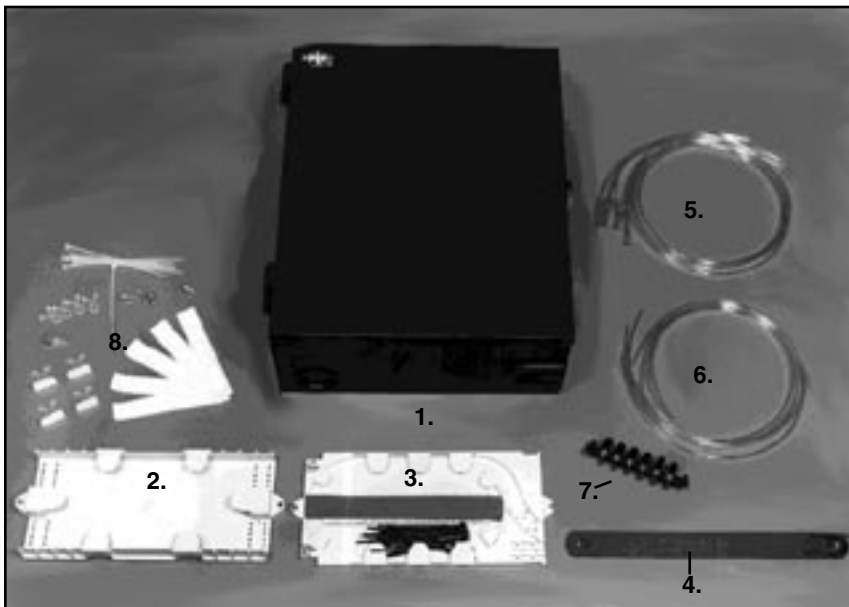


FIGURE 1 - NOMENCLATURE

1.00 NOMENCLATURE

- | | |
|--|--|
| <p>1.01</p> <ol style="list-style-type: none"> 1. Wall Mount Cabinet Assembly 2. Transition Assembly 3. Splice Tray(s) (sold separately) 4. Splice Tray Hold Down Strap 5. Pigtail Tube Assemblies | <ol style="list-style-type: none"> 6. Transport Tubes 7. Adapter Module (sold separately) 8. Small Parts Bag (mounting screws, tie wraps, ground lug, labels) |
|--|--|

2.00 DESCRIPTION

2.01 The COYOTE Wall Mount Cabinet is designed to protect and organize optical fiber splices and connectors in the central office, equipment room, CEV and building entrances.

2.02 Three sizes of Wall Mount Cabinets with the COYOTE Splicing System are available to accommodate from 6 to 144 fiber splices and connectors. This procedure deals with the cabinet for up to 96 fibers.

2.03 The Transition Assembly and Splice Tray(s) in the splicing compartment are the same as used in the COYOTE Closure. Each Splice Tray accommodates 24 splices per tray in this application.

2.04 Adapter Modules are available with all standard fiber optic connectors (and are ordered separately).

3.00 MOUNTING ON WALL

3.01 Remove the front cover by lifting it off the lower hinge section.

3.02 Remove the cover from the splicing chamber by lifting it out of the slots on the left side.

3.03 Remove the Splice Tray Hold Down Strap and the Splice Trays.

3.04 Loosen the 1/4" nuts from the threaded studs, and remove the Transition Assembly.

3.05 Position the rear section of the cabinet against the plywood backboard or wall where it is to be located, level, and mark the center of the four mounting hole locations.

3.06 If a plywood backboard is used, drill a small pilot hole at the marks, otherwise install the appropriate anchors at the marked locations.

3.07 Fasten cabinet securely to the wall and reinstall the Transition Assembly into the splicing chamber.

3.08 Secure the provided ground lug to the threaded hole in the left side of the cabinet with the 1/4-20 x 1/2" pan head screw provided.

3.09 Ground the cabinet to an approved ground with a #6 solid copper wire (or equivalent) attached to the ground lug.

4.00 PREPARATION AND ROUTING OF FEEDER CABLE

4.01 Remove the plug from the cable entry to be used (top or bottom) and install the appropriate non-metallic conduit fitting (if required).

4.02 Install the L-Bracket Assembly adjacent to the entry being used with the 1/4" bolt, nut and lockwasher provided.

4.03 Feed the cable through the conduit into and through the cabinet.

4.04 With the end of the cable jacket extending about 1-1/2" (38 mm) into the cabinet, remove a minimum of 90" (2286 mm) of sheath from the cable, and clean cable according to accepted company practices.

4.05 If required, install a bond connector at the end of the cable jacket, and secure it to the L-Bracket Assembly.

4.06 Capture the central strength member and any other strength member into the clip on the L-Bracket Assembly.

4.07 Lay the buffer tubes or unitube into the Transition Assembly. For unitube application, skip to Step 4.13.

PLP® TIP: The retaining tabs on top of the Transition Assembly are removable to facilitate placement of buffer tubes.

4.08 Mark the buffer tubes at the right wall center-line of the Transition Assembly as shown in Figure 2 (note that for cable entry into the bottom side of the cabinet, the buffer tubes are routed against the left side of the Transition Assembly, and then around to the right side).

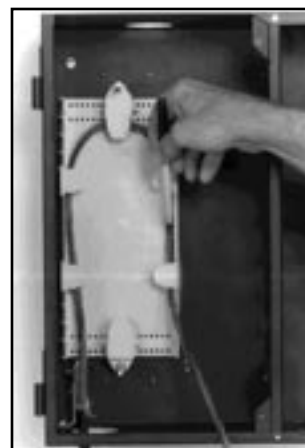


FIGURE 2A - MARK BUFFER TUBES FOR BOTTOM CABLE ENTRY

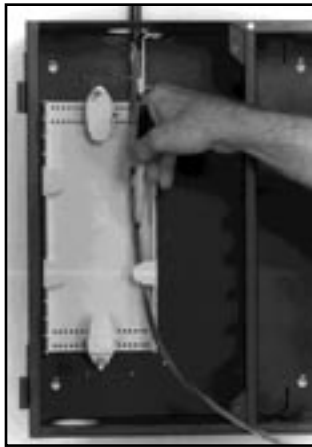


FIGURE 2B - MARK BUFFER TUBES FOR TOP CABLE ENTRY

4.09 Starting with one of the buffer tubes, remove the buffer tube up to the mark and clean the fibers according to your accepted company practices.

4.10 Feed the fibers from this buffer tube into one of the Transport Tubes provided with the cabinet, and allow the end of the buffer tube to be inserted into the Transport Tube for a distance of about 1/2" (13 mm).

4.11 Repeat Steps 4.09 and 4.10 for the remaining buffer tubes.

4.12 Using two of the tie wraps provided, secure the buffer tubes and Transport Tubes to the right wall of the Transition Assembly. (Figure 3) Proceed to Step 4.18.

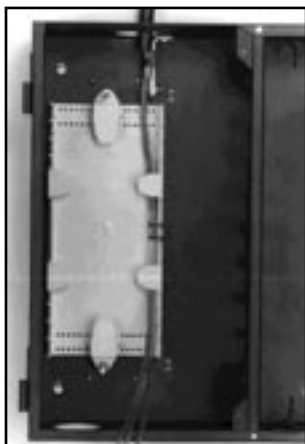


FIGURE 3 - SECURE BUFFER TUBES AND TRANSPORT TUBES TO TRANSITION ASSEMBLY

4.13 Mark the unitube at a point 2" (51 mm) from where it enters the Transition Assembly (for either top or bottom cable entry).

4.14 Remove the unitube and clean the fibers per your accepted company practices. Make sure to maintain the identity of each bundle of twelve fibers.

4.15 Secure the unitube to the Transition Assembly with the tie wraps provided. Use two sets of the tie down holes in the bottom of the Transition Assembly. (Figure 4)

4.16 Feed each bundle of fibers into one of the Transport Tubes provided. See Figure 4 for the position of the end of the Transport Tube.



FIGURE 4A - FIBER ROUTING AND TRANSPORT TUBE LOCATION FOR BOTTOM CABLE ENTRY

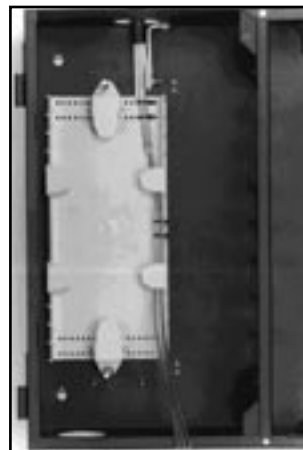


FIGURE 4B - FIBER ROUTING AND TRANSPORT TUBE LOCATION FOR TOP CABLE ENTRY

4.17 Secure the Transport Tubes to the right side of the Transition Assembly with two of the tie wraps provided. (Figure 4) Be sure that the fibers are not bent as they enter the Transport Tubes. If necessary, use some of the felt tape provided to secure the fibers to the Transition Assembly.

4.18 Use the cover of the splicing compartment as a work table by placing it into the grooves at the bottom of the splicing compartment. Carefully coil the Transport Tubes and bare fibers onto the work table until a later step in this procedure.

5.00 PIGTAIL PREPARATION AND ROUTING

5.01 The required pigtail length for the WDC8 cabinet is 3 meters.

5.02 Select one of the Adapter Modules (purchased separately) and install it in one of the locations in the cabinet bulkhead. Push the locking fasteners at the ends of the Coupler Plate to secure it in place.

5.03 Select six of the pigtails, clean the fiber connector, and connect them to the splice chamber side of the Coupler Plate.

5.04 Route the pigtails along the Transition Assembly toward the bottom of the cabinet, while maintaining a smooth bending radius behind the Coupler Plates. (Figure 5)

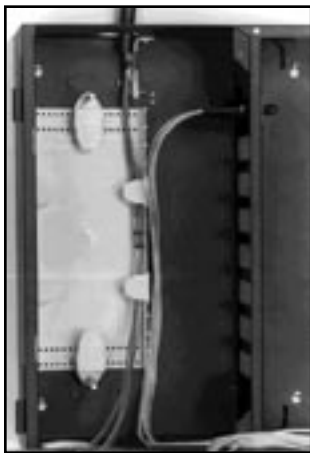


FIGURE 5 - ROUTE THE PIGTAILS

5.05 Mark the jacket of each of the pigtails at a point about 2" (51 mm) beyond the bending radius as shown in Figure 6.

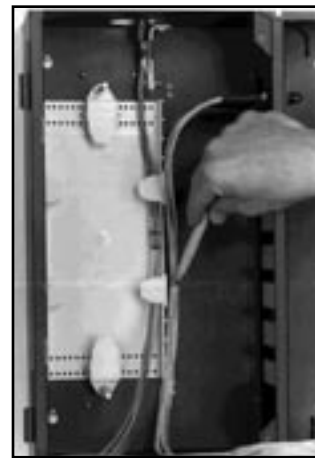


FIGURE 6 - MARK PIGTAILS

5.06 Carefully remove the jacket on each pigtail up to the mark. Number or color code the connector strain relief and the 900 micron tight buffer for fiber identification.

PLP TIP: PLP has pigtails available with different colored 900 micron tight buffer coatings to simplify fiber identification.

5.07 Feed the group of six buffered fibers into the end of one of the Pigtail Tube Assemblies with the larger diameter tube section, until the pigtail jackets are within the larger tube about 3/8" to 1/2". (9.5 mm to 13 mm) (Figure 7)

PLP TIP: Moisten the ends of the pigtail jackets to ease insertion into the tube.



FIGURE 7 - INSERT PIGTAILS INTO PIGTAIL TUBE ASSEMBLY

5.08 Repeat Steps 5.05 through 5.07 for each group of pigtails.

6.00 FIBER SPLICING AND ROUTING

6.01 Route the Transport Tubes with the feeder cable fibers and the Pigtail Tube Assemblies within the Transition Assembly so that they will exit at the top left corner of the Transition Assembly. (Figure 8)

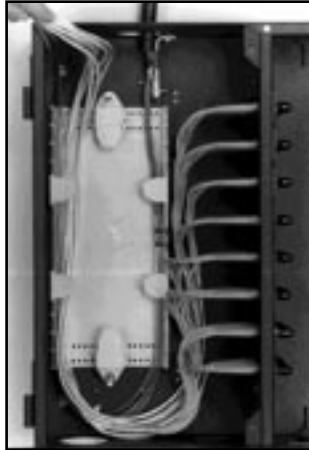


FIGURE 8 - ROUTE TRANSPORT AND PIGTAIL TUBES WITHIN TRANSITION ASSEMBLY

6.02 Place a Splice Tray with the cover removed on the threaded studs over the Transition Assembly. Temporarily hold in place with the Splice Tray Hold Down Strap or with an extra 1/4" nut (provided).

PLP TIP: Install the tie wraps into the Splice Tray tie down holes prior to installing the Splice Tray. (Figure 9)

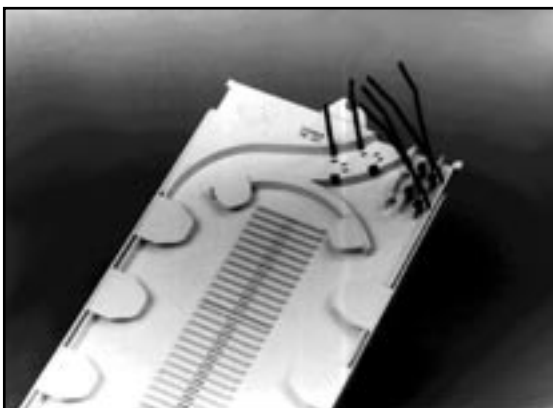


FIGURE 9 - INSTALL TIE WRAPS INTO SPLICE TRAY

6.03 Select four Pigtail Assembly Tubes and two Transport Tubes for installation onto the Splice Tray.

6.04 Lay the Pigtail Assembly Tubes within the wide entry slot of the Splice Trays and the Transport Tubes within the first two narrow slots, and mark the tubes slightly beyond the tie down locations. (Figure 10)



FIGURE 10 - MARK TUBES IN SPLICE TRAY

6.05 Carefully cut the tubes at the marks, and remove the excess length.

6.06 Secure the Pigtail Tubes and Transport Tubes to the Splice Tray with the tie wraps. (Figure 11)



FIGURE 11 - SECURE TUBES TO SPLICE TRAY

6.07 Route the Pigtail and feeder cable fibers one complete turn around the Splice Tray and into the splice groove furthest from the entry point of the tubes. (Figure 12)

PLP TIP: Temporarily remove the retaining tabs from the Splice Tray to ease fiber placement.

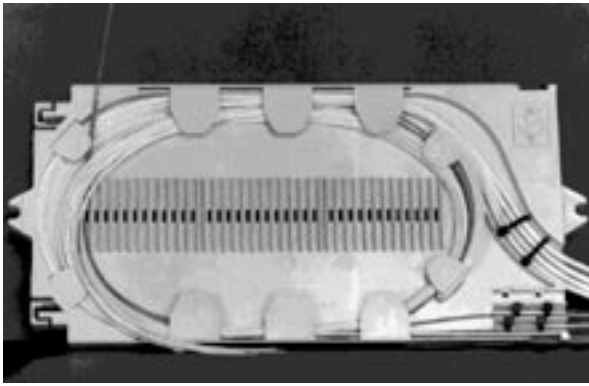


FIGURE 12 - ROUTE FIBERS WITHIN SPLICE TRAY

- 6.08** Splice feeder cable fibers to Pigtail fibers per accepted company practices. Place each splice in groove, starting from the furthest groove from the tube entry.
- 6.09** Repeat Steps 6.02 through 6.08 for the additional Splice Tray (if required).
- 6.10** Secure Splice Tray(s) in place with Splice Tray Hold Down Strap. (Figure 13)

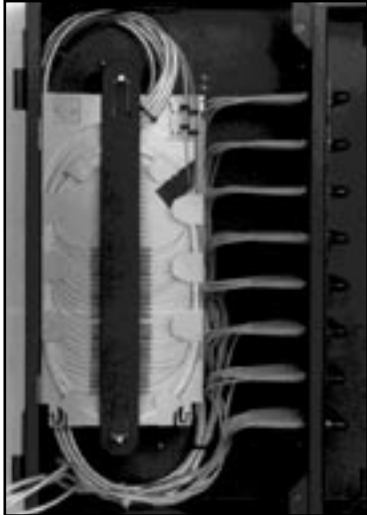


FIGURE 13 - SECURE SPLICE TRAYS WITH SPLICE TRAY HOLD DOWN STRAP

7.00 JUMPER ROUTING

- 7.01** Clean the fiber connectors and attach the jumpers to the front side of the Adapter Modules.
- 7.02** Gently bend the jumpers towards and through the grommet on either side of the cabinet.
- 7.03** Lightly secure the jumpers to the tie down post with the tie wraps provided.

8.00 ACCESSORIES

- 8.01** The tables on page 7 detail the Adapter Module and Pigtail Assemblies available for the COYOTE Access Solutions Wall Mount Cabinets.

Adapter Modules			
Catalog No.	Description	Adapters	Sleeve
6SMSC	SC	6	Ceramic
6SCAPC	SC/APC	6	Ceramic
12SMDSC	SC	12 (6 Duplex)	Ceramic
8SMSC	SC	8	Ceramic
6SMST	ST	6	Ceramic
8SMST	ST	8	Ceramic
6SMFC	FC	6	Ceramic
8SMFC	FC	8	Ceramic
6FCAPC	FC/APC	6	Ceramic
6SMLC	LC	6	Ceramic
12SMLC	LC	12	Ceramic
600	Blank Plate	-	-

Pigtail Cable Assemblies - Bundled 900 Micron Fibers in Yellow Sleeve		
Catalog No.	Connector	Fiber Count
P6SCU_*	SC/UPC	6
P12SCU_*	SC/UPC	12
P6SCA_*	SC/APC	6
P12SCA_*	SC/APC	12
P6ST_*	ST	6
P12ST_*	ST	12
P6FC_*	FC	6
P12FC_*	FC	12
P6LC_*	LC	6
P12LC_*	LC	12
*Cable length in meters Contact PLP for other options		

9.00 SAFETY CONSIDERATIONS

9.01 This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. Failure to follow these procedures may result in personal injury.

9.02 When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.

9.03 For proper performance and personal safety, be sure to select the proper size PRE-FORMED Product before application.

9.04 This product is intended for use by trained technicians only. This product **should not be used** by anyone who is not familiar with, and not trained to use it.

PREFORMED LINE PRODUCTS 

P.O. Box 91129, Cleveland, Ohio 44101 • 440.461.5200 • www.preformed.com • e-mail: inquiries@preformed.com

SP2983