

COYOTE® AXCESS SOLUTIONS WALL MOUNT CABINETS (up to 144 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
WDC12	Wall Mount Cabinet - splice and connect up to 144 fibers

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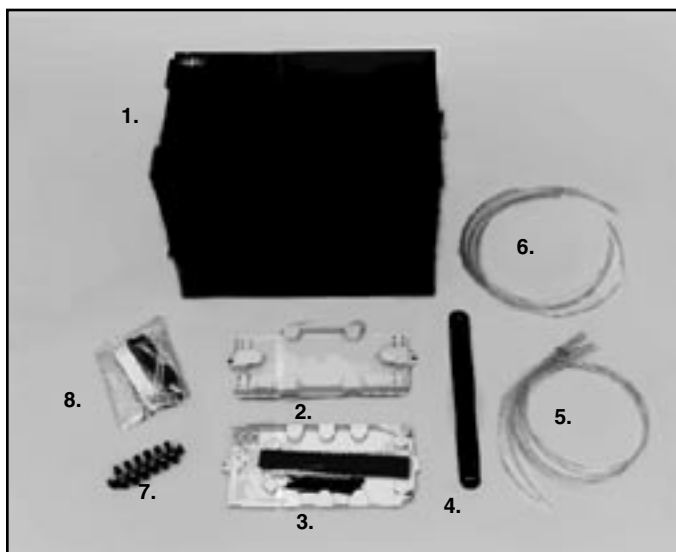


FIGURE 1 - NOMENCLATURE

1.00 NOMENCLATURE

- | | |
|---|---|
| <p>1.01</p> <ol style="list-style-type: none"> 1. Wall Mount Cabinet Assembly 2. Transition Assembly(s) 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, L-Bracket) |
|---|---|

2.00 DESCRIPTION

2.01 The COYOTE® Access Solutions Wall Mount Cabinets are designed to protect and organize optical fiber splices and connectors in central offices, equipment rooms, CEVs and building entrances.

2.02 Three sizes of cabinets with the COYOTE Splicing System are available to accommodate fiber splices and connectors ranging from 6 to 144 in number. This procedure deals with cabinets for up to 144 fibers.

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

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

2.05 The WDC12 Cabinet has a hinged, two-section design, which provides easy access to all the fiber connectors and splices.

3.00 MOUNTING ON WALL

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

3.02 Remove the center section by lifting it off the lower hinge section.

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

3.04 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.

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

3.06 Fasten cabinet securely to the wall, and reinstall the Transition Assembly within the rear section. Install the Transition Assembly on the upper set of 1/4" PEM nuts for a cable entering from the bottom of the cabinet, and on the lower set of nuts for a cable entering the top. (Figure 2)

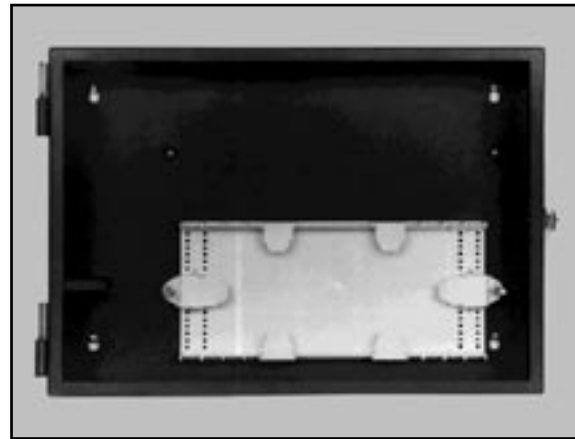


FIGURE 2 - PLACEMENT OF TRANSITION ASSEMBLY IN REAR SECTION (FOR CABLE ENTERING TOP OF CABINET)

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

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

3.09 Reinstall the center section, and the front cover.

4.00 PREPARATION AND ROUTING OF FEEDER CABLE

4.01 Remove the plug from the cable entry in the rear section to be used (top or bottom), and install the appropriate nonmetallic 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 (if required) 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 110" (2794 mm) of sheath from the cable, and thoroughly remove all filling compound from the buffer tubes or unitube using your 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 under the clip on the L-Bracket Assembly.

4.07 Route the buffer tubes or unitube into the upper left corner of the Transition Assembly. (Figure 3)

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

If the unitube is too stiff to bend without kinking, remove the unitube just beyond the end of the L-Bracket, and install a section of large Transport Tubing (available from PLP) between that point and the Transition Assembly.

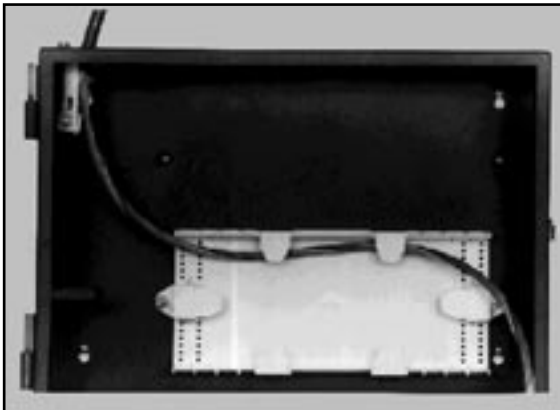


FIGURE 3 - ROUTING OF BUFFER TUBES OR UNITUBE INTO TRANSITION ASSEMBLY

4.08 Mark the buffer tubes or unitube at the upper wall center-line of the Transition Assembly as shown in Figure 4.

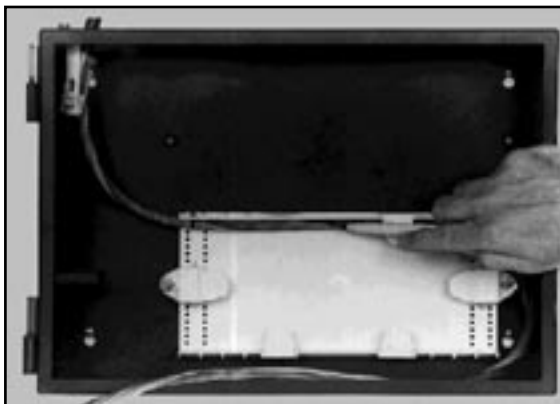


FIGURE 4 - MARKING BUFFER TUBES OR UNITUBES

4.09 Starting with one of the buffer tubes, remove the buffer tube up to the mark, and clean the fibers per your accepted company practices. For unitube cable, this applies to one of the group of 12 fibers in the bundle.

4.10 Feed the fibers from this buffer tube or unitube group 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 or unitube groups.

4.12 Using two of the tie-wraps supplied with the Splice Tray(s), secure the buffer tubes (or unitube) and Transport Tubes to the upper wall of the Transition Assembly. (Figure 5)

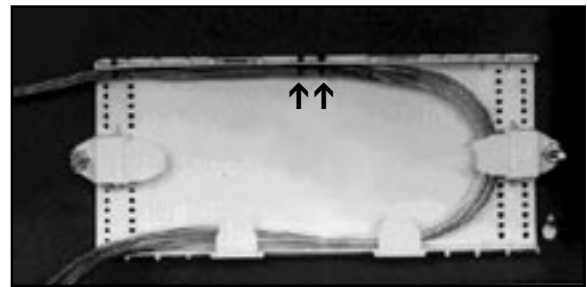


FIGURE 5 - SECURING BUFFER TUBES AND TRANSPORT TUBES TO TRANSITION ASSEMBLY

4.13 In the WDC12 Cabinet, route the Transport Tubes around the Transition Assembly, out the bottom left corner, across the hinge, and into the back left corner of the Transition Assembly in the center section. (Figure 6) If the Transition Assembly in the rear section is in the upper position (bottom cable entry), route the Transport Tubes through the Management Hoop before crossing the hinge.

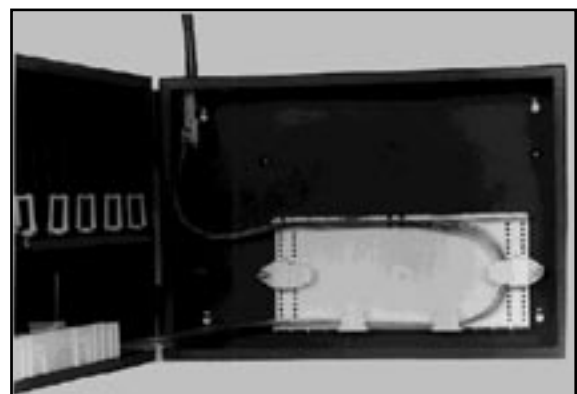


FIGURE 6 - ROUTING TRANSPORT TUBES IN WDC12 CABINET (FOR CABLE ENTERING TOP OF CABINET)

4.14 In the WDC12 Cabinet, route the Transport Tubes around the Transition Assembly and out the bottom left corner. Route six Transport Tubes through the Management Hoop, across the hinge and into the back left corner of the lower Transition Assembly in the center section. Route the remaining six Transport Tubes into the back left corner of the upper Transition Assembly.

4.15 Use two of the tie-wraps provided with the Splice Trays to secure the bundle of Transport Tubes to the bottom left corner of the Transition Assembly in the rear section.

4.16 Carefully coil the Transport Tubes within the Transition Assembly(s) in the center section until a later step in this procedure.

5.00 PIGTAIL PREPARATION AND ROUTING

5.01 The following are the required pigtail lengths for each COYOTE Access Solutions Wall Mount Cabinet:

WDC12.....3 meters

5.02 Select one of the Adapter Modules (purchased separately) and install it in one of the locations in the cabinet bulkhead in the center section. 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 rear of the Coupler Plate.

5.04 Route the pigtails through the Pigtail Management Hoops toward the right side of the cabinet, while maintaining a smooth bending radius behind the Coupler Plates. (Figure 7)

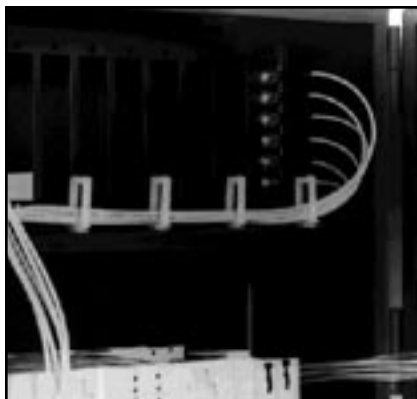


FIGURE 7 - ROUTING OF PIGTAILS

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 8.

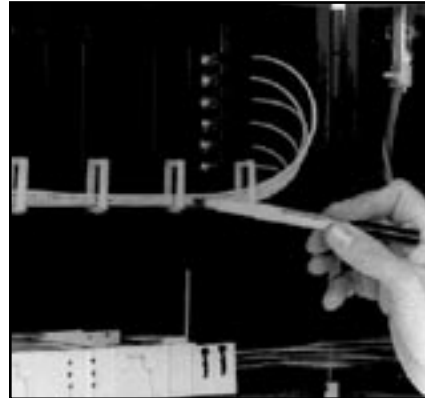


FIGURE 8 - MARKING PIGTAILS

5.06 Carefully remove the jacket on each pigtail up to the mark, and 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" (10 mm to 13 mm). (Figure 9)

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

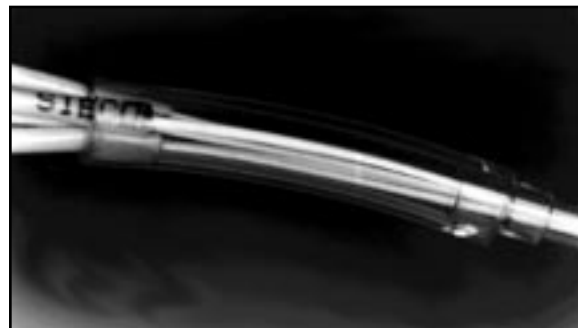


FIGURE 9 - INSERTING PIGTAILS INTO PIGTAIL TUBE ASSEMBLY

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 front left corner of the Transition Assembly. (Figure 10)

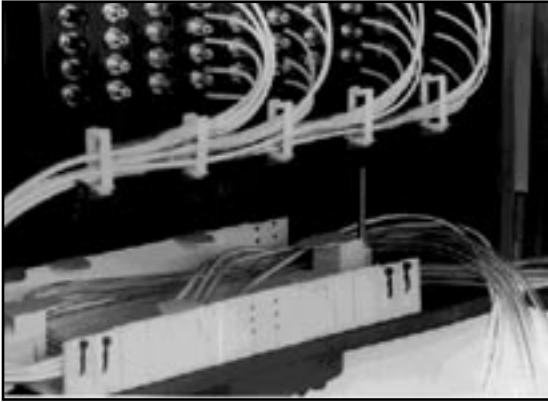


FIGURE 10 - ROUTING TRANSPORT AND PIGTAIL TUBES WITHIN TRANSITION ASSEMBLY

6.02 Use two tie-wraps to gently secure the Pigtail Assemblies to the back right corner of the Transition Assembly as shown in Figure 10.

6.03 Place a Splice Tray on the threaded studs over the Transition Assembly.

PLP TIP: Install the tie-wraps into the Splice Tray tie-down holes prior to installing the Splice Tray. (Figure 11)

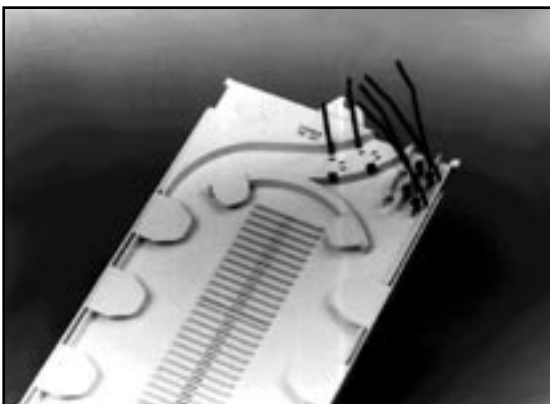


FIGURE 11 - INSTALL TIE-WRAPS INTO SPLICE TRAY

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

6.05 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 12)



FIGURE 12 - MARKING TUBES IN SPLICE TRAY

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

6.07 Secure the Pigtail Tubes and Transport Tubes to the Splice Tray with the tie-wraps. (Figure 13)



FIGURE 13 - SECURE TUBES TO SPLICE TRAY

6.08 Route the pigtail and feeder cable fibers one complete turn around the Splice Tray, and into the splice groove farthest from the entry point of the tubes. (Figure 14)

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

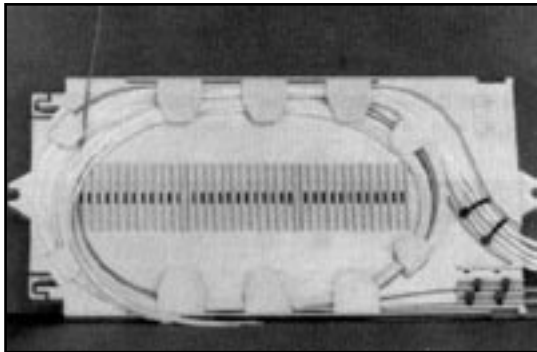


FIGURE 14 - ROUTE FIBERS WITHIN SPLICE TRAY

6.09 Splice feeder cable fibers to pigtail fibers per accepted company practices. Place each splice in the groove, starting from the farthest groove from the tube entry.

6.10 Repeat Steps 6.03 through 6.09 for additional Splice Trays.

6.11 Secure Splice Trays in place with Splice Tray Hold Down Strap. (Figure 15)



FIGURE 15 - 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 Coupler Plates.

7.02 Gently bend the jumpers toward, and through the grommet on either the top or bottom of the hinge side (left) of the cabinet.

7.03 Lightly secure the jumpers to the tie-down post with the tie-wraps provided.

8.00 ACCESSORIES

8.01 Tables on page 7 detail the Adapter Modules 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 

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