

WALL MOUNT CABINETS (for 12 and 24 fibers)

Be sure to read and completely understand this procedure before applying product. Be sure to select the proper Optical Cable Corporation product before application.

Catalog#	Product Description (Where X is color: A = Almond, B = Black)
WTC12/24X-RT	Wall Mount Cabinet with W12RT System, accepts up to 4 Adapter Plates
WTC12/24X-PT	Wall Mount Cabinet with W24PT System, accepts up to 4 Adapter Plates

Catalog#	Product Description
W12RT	Runt Splice Tray WTC12/24
W24PT	Pup Splice Tray WTC12/24

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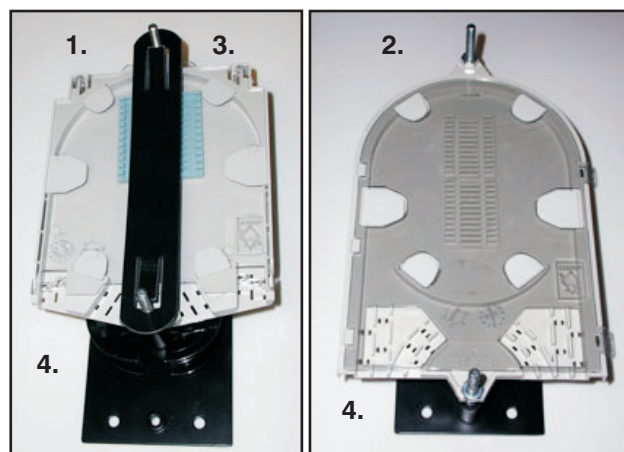
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1.00 NOMENCLATURE



FIGURE 1A - CABINET (WTC12/24X-RT SHOWN)

- 1.01
1. Wall Mount Cabinet Assembly
 2. Adapter Plate (sold separately)
 3. Small Parts Bag (mounting screws, tie wraps, ground lug)



W12RT (SHOWN)

W24PT (SHOWN)

FIGURE 1B - SPLICE TRAY KITS

- 1.02
1. Runt Splice Tray
 2. Pup Splice Tray
 3. Hold Down Strap (for W12RT only)
 4. Mounting Bracket with four 1/4" Fiber Radius Hoops and two 1/4" Studs and Nuts

2.00 DESCRIPTION

- 2.01 The Wall Mount Cabinets are designed to protect and organize optical fiber splices and connectors in a standard equipment rack in the central office, equipment room, and CEV.
- 2.02 One size of Runt Tray with integral Splice Blocks is available to accommodate from 6 to 12 fiber splices and connectors. The Pup Tray accommodates up to 24 fiber splices and connectors.
- 2.03 Adapter Plates are available with all standard fiber optic connectors (6 connectors per plate) and are ordered separately. (See Section 8.00)

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 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.
- 3.04 If a plywood backboard is used, drill a small pilot hole at the marks, otherwise install the appropriate anchors at the marked locations.
- 3.05 Fasten cabinet securely to the wall.
- 3.06 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.
- 3.07 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 The Mounting Bracket for Runt/ Pup Tray and four 1/4 Fiber Radius Hoops are installed inside the cabinet with bolts & nuts provided. (Figure 2)
- 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" into the cabinet, remove a minimum of 80" of sheath from the cable for the WTC12/24X-RT and for the WTC12/24X-PT.



FIGURE 2 - MOUNTING BRACKET

- 4.05 Thoroughly remove all filling compound from the unitube using your accepted company practices.
- 4.06 If required, install a bond connector at the end of cable jacket, and secure it to inside of cabinet.
- 4.07 Capture the central strength member and any other strength member into the clip on the Runt or Pup Tray Assembly.
- 4.08 Mark the unitube about 3" beyond the end of the Runt or Pup Tray Assembly.
- 4.09 Remove the unitube up to the mark and clean according to your accepted company practices.
- 4.10 Loosely route the bare fibers once around the inside of the Runt or Pup Tray and into the bottom groove of the Splice Block. (as shown in Figure 3) Cut off excess fiber length just beyond the end of the Splice Block.
- 4.11 Drape the fibers over the 1/4 Fiber Radius Hoops and use the felt strips to secure the fibers to the back of the splicing compartment.

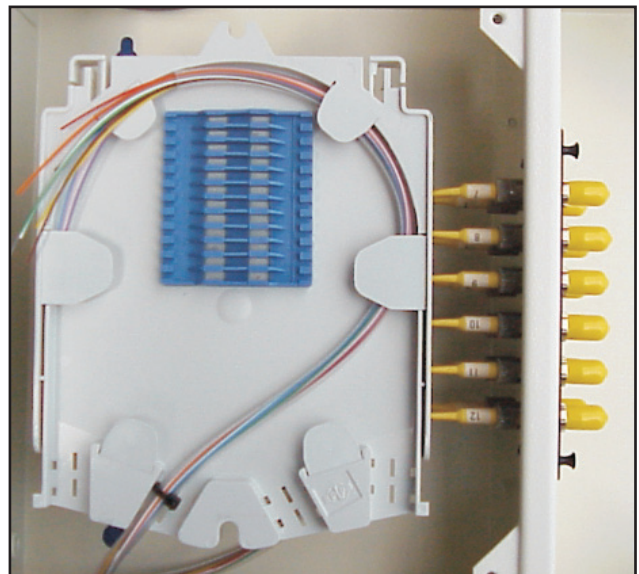


FIGURE 3 - ROUTE FIBER (RUNT TRAY SHOWN)

5.00 PIGTAIL/SPLICING APPLICATIONS

- 5.01 The required pigtail lengths for WTC12/24X-RT and WTC12/24X-PT is 3 meters.
- 5.02 Select one of the Adapter Plates (purchased separately) and install it in one of the locations in the cabinet bulkhead with the locking fasteners on the inside of the splicing compartment. Push the locking fasteners at the ends of the Adapter Plate to secure it in place.

TIP: Install the back Adapter Plates first to ease assembly.

- 5.03 Select six pigtails, clean the fiber connector, and connect them to the splice chamber side of the Adapter Plate.
- 5.04 Route the pigtails around the 1/4 Fiber Radius Hoops inside the splicing compartment one and one-half turns and into the Splice Block. Remove excess pigtail length.
- 5.05 Mark the jacket of each of the pigtails at a point 2" beyond the bending radius.
- 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.

TIP: Optical Cable Corporation has pigtails available with different colored 900 micron tight buffer coatings to simplify fiber identification (see section 8.00)

6.00 FIBER SPLICING AND ROUTING

- 6.01 Lay the pigtail fibers into individual grooves of the Splice Block and mark the pigtail fibers just beyond the center of the Splice Block.
- 6.02 Disconnect the Adapter Plates with installed pigtails from the bulkhead and remove the pigtails from the splicing compartment for the splicing operation.
- 6.03 Mark the feeder cable fibers just beyond the center of the Splice Block and uncoil the fibers from the splicing compartment for the splicing operation.

TIP: Use felt tape to secure the fibers to the back of the splicing compartment just beyond the end of the buffer tubes or unitube to avoid undue bending of the fibers during this operation.

- 6.04 Splice the pigtail fibers to the feeder cable fibers using accepted company practices.

TIP: Use the cover of the splicing compartment as a work table by placing it into the grooves at the bottom of the splicing compartment.

- 6.05 Lay the completed splices into individual grooves of the splice block.

7.00 JUMPER ROUTING

- 7.01 Clean the fiber connectors and attach the jumpers to the front side of the Adapter Plates.
- 7.02 Gently bend the jumpers toward 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 Table 1 details the Adapter Plates and Pigtail Assemblies available for the Wall Mount Cabinets. (see next page)

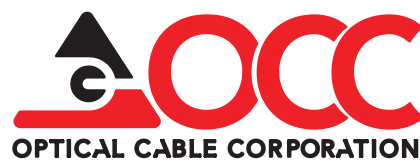
9.00 SAFETY CONSIDERATIONS

- 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 Optical Cable Corporation product before application.
- 9.04 This product is intended for use by trained technicians only. The product **should not be used** by anyone who is not familiar with and not trained to use it.

TABLE 1**SEPTEMBER 2009**

ADAPTER PLATE ASSEMBLIES	
Catalog#	Description
616MMST	Plate equipped with 6 multimode ST adapters
616SMST	Plate equipped with 6 singlemode ST adapters
616MMSC	Plate equipped with 6 multimode SC adapters
616SMSC	Plate equipped with 6 singlemode SC adapters
616MMFC	Plate equipped with 6 multimode FC adapters
616SMFC	Plate equipped with 6 singlemode FC adapters
616MMDLC	Equipped with 3 multimode duplex LC adapters
616SMDLC	Equipped with 3 singlemode duplex LC adapters
600	Blank Filler Plate (no port holes or adapters)
12 FIBER PIGTAIL ASSEMBLIES	
Catalog#	Description
P5ST12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 50 μ m multimode ST connectors
P6ST12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 62.5 μ m multimode ST connectors
P8ST12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 9 μ m singlemode ST connectors
P5SC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 50 μ m multimode SC connectors
P6SC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 62.5 μ m multimode SC connectors
P8SC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 9 μ m singlemode SC connectors
P5FC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 50 μ m multimode FC connectors
P6FC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 62.5 μ m multimode FC connectors
P8FC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 9 μ m singlemode FC connectors
P5LC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 50 μ m multimode LC connectors
P6LC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 62.5 μ m multimode LC connectors
P8LC12-3M	12 fibers with different colored 900 μ m buffers, 3 meters long, 9 μ m singlemode LC connectors

NOTE: Contact Optical Cable Corporation for additional adapter plates and pigtail assemblies.



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