



**1.0 Scope**

This instruction sheet applies to the following HPW catalog numbers:

FPR3SP	FSPST6	FSPSCD3	FSPSCST3	FSPSCDO3	STRAY12M	STRAY24M
FPRBRKT1	FSPST6X	FSPSCD3X	FSPFC6	FSPSCDY3	STRAY12F	STRAY24F

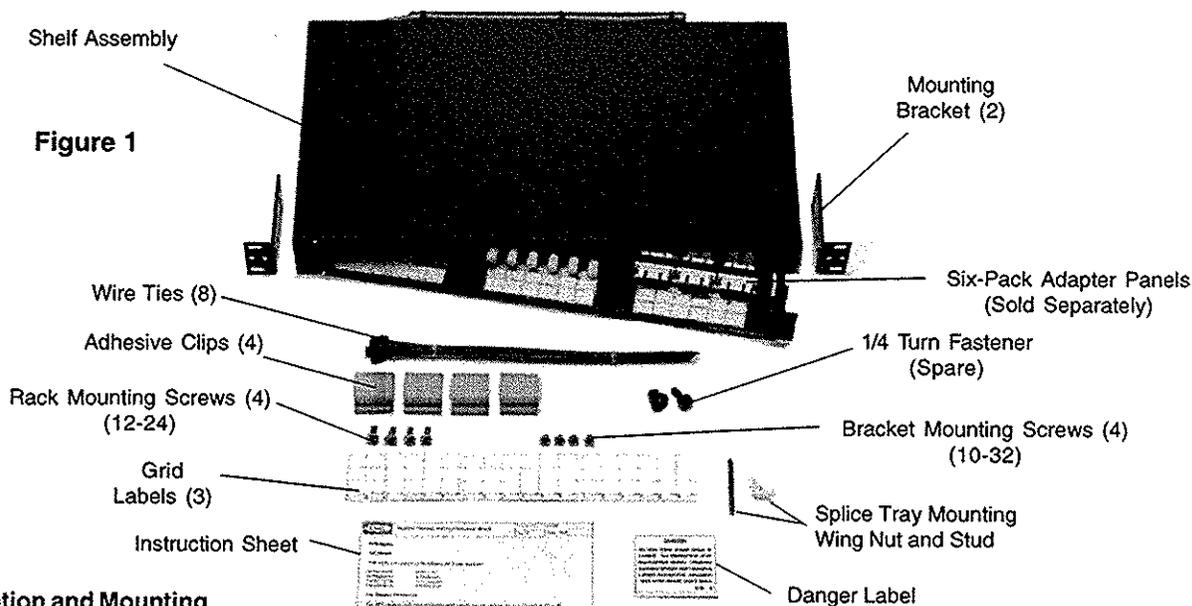
**2.0 General Information**

The FPR3SP series fiber optic interconnection shelf provides rack mount network interconnection capability with up to 6, 12, 18, 24 or 36 port capacity\*. It has a hinged swing-out tray for easy access to both sides of the interconnect which can hold up to two 7" or 10" splice trays. The shelf will accept up to three six-pack adapter panels (adapter panels are sold separately). FPR3SP series shelves are designed to accept the FPRBRKT1 cable management bracket.

\* Contact Hubbell Premise Wiring for information on the type of six-pack adapter panels available.

**3.0 Bill of Materials**

All FPR3SP series interconnection shelves are shipped with the following parts depicted in Figure 1 below.



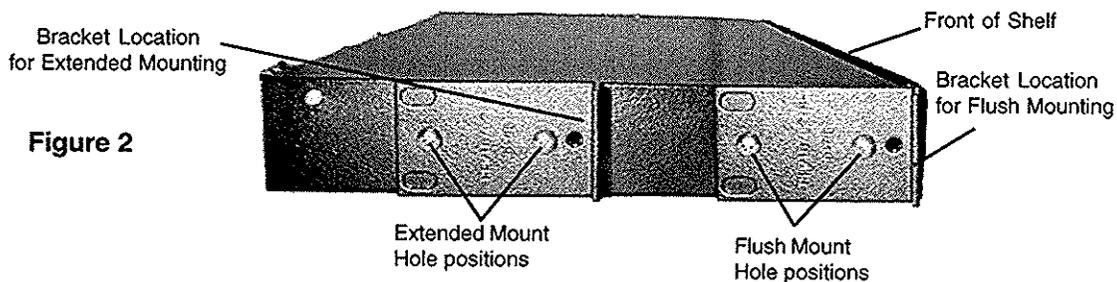
**4.0 Preparation and Mounting**

Refer to Figure 1 above for referenced items.

4.1 Remove the shelf assembly and hardware from the plastic bags. Check to make sure all materials are included.

4.2 Attach the mounting brackets to the side of the shelf assembly with the 10-32 bracket screws provided. The brackets can accommodate 19" or 23" mounting. The brackets may also be positioned for flush or extended mounting. Refer to Figure 2 below for flush and extended mounting hole positions.

4.3 For ease and convenience, the FPR3SP shelf can now be mounted into a rack if so desired. Four rack screws (12-24 thread) are provided for mounting the shelf.

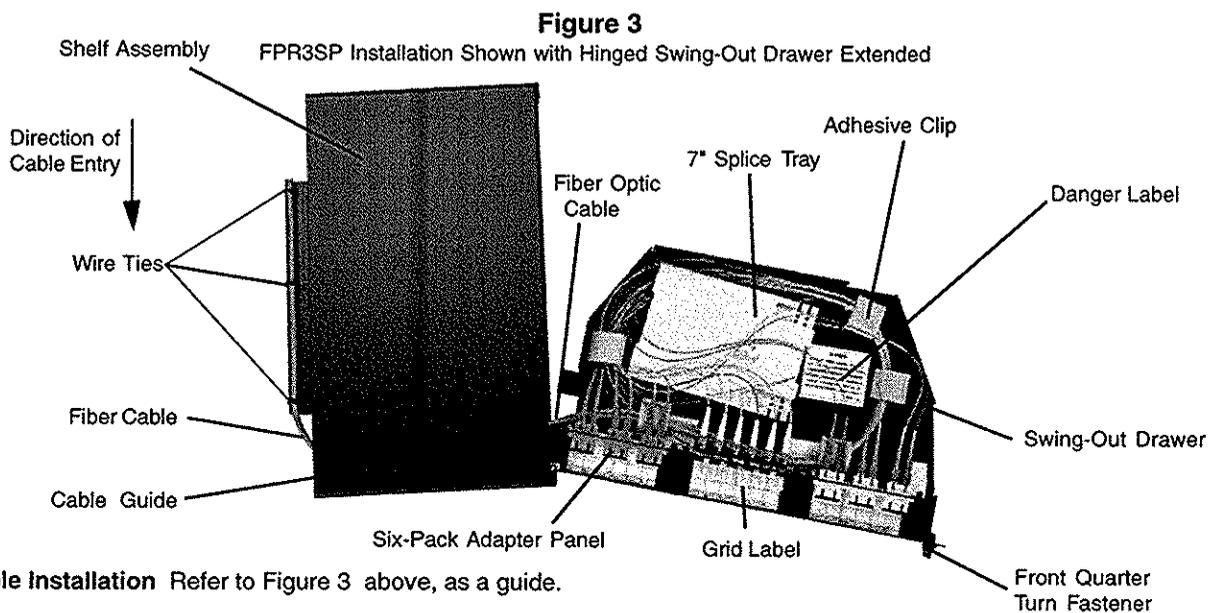


4.4 Turn the front quarter-turn fastener and swing the drawer out from the shelf chassis. Attach the four adhesive clips as shown in Figure 3. **Note:** Other clip arrangements may be used, but it is important to maintain a minimum fiber loop diameter of 3 inches.

4.5 Install the six-pack adapter panels. Take care to orient the adapters in a consistent manner with all of the alignment keyways in the same direction.

4.6 Place Danger and Grid labels inside the shelf drawer in a fully visible location.

4.7 Mount shelf into rack if not previously installed in step 4.3.



**5.0 Cable Installation** Refer to Figure 3 above, as a guide.

**Important:** Cable installation should be completed in accordance with all TIA/EIA procedures and specifications.

5.1 With the FPR3SP shelf mounted into the rack, route the incoming fiber cable to the back of the unit. The cable must enter the back of the panel from the left as viewed from the rear. Ensure that the cable is free from sharp bends or tension.

5.2 Lay the cable into the rear of the cabinet and mark the tie down point. Allow approximately 60 inches (1.5 meters) from this point to the cable end to strip off the cable jacketing and remove all strength members.

5.3 Prepare the cable to be terminated by stripping off about 60 inches (1.5 meters) of the outer jacket to expose any cable subunits. Remove any cable Kevlar or epoxy/fiberglass strength members. Remove about 28 inches (0.7 meters) of cable subunit jackets to expose the 900 micron buffered fibers.

5.4 Carefully lay the cable into the chassis and secure it with the supplied cable ties - **Do not** overtighten the ties. Route the fibers into the chassis and around the guide. The fibers must go outside the guide to prevent damage when the drawer is opened and closed.

5.5 Loosely route the fibers around the fiber management clips to determine the best length for terminating and storing the fiber slack. Trim the fibers if necessary.

5.6 Terminate the fibers according to the connector manufacturer's recommendations. **Note:** It is the responsibility of the installer to determine the proper method of termination, including whether additional supportive materials (break-out kits) are required.

5.7 When all fibers are terminated, clean the connectors and insert them into the appropriate adapters. Then gently route the fiber slack into the clips. Remove the entire bundle when accessing individual fibers. In this way, only the fibers of interest need to be disconnected so tangles in the bundle are prevented.

## 6.0 Patch Cord Installation

6.1 Connect patch cords from the front adapter ports to the active equipment and route the cables through the front opening of the shelf. Close the hinged drawer being careful not to pinch any fibers. Turn the quarter-turn fastener so that the tab is horizontal and push in until it snaps into place (Patch cords are sold separately).

6.2 To organize the patch cords, attach the Hubbell FPRBRKT1 cable bracket to the front of the drawer and attach Velcro cable management loops (Each of these items are sold separately).