

1. PRECAUTIONS



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



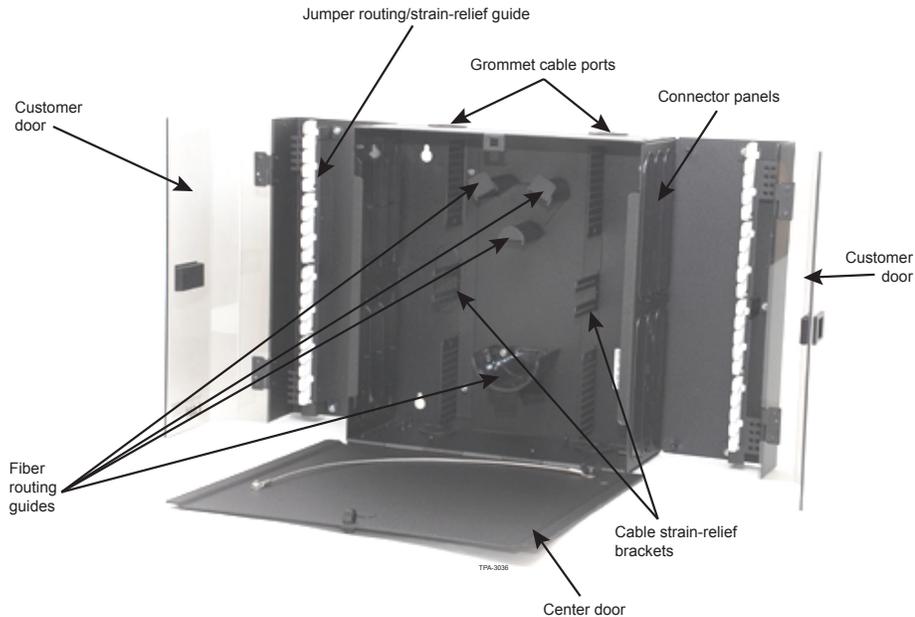
CAUTION: Recommend the use of safety glasses (spectacles) conforming to ANSI Z87, for eye protection from accidental injury when handling chemicals, cables, or working with fiber. Pieces of glass fiber are very sharp and have the potential to damage the eye.



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 to laser light be suspected, arrange for an eye examination immediately.



WARNING: **Never look directly into the end of a fiber that may be carrying laser light.** Laser light can 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.



2. CARTON CONTENTS

- Wall-Mountable Connector Housing
- WCH-04P/-06P/-12P (x2) Hardware Kit:
 - (1) Laser warning label
 - (6) Fiber identification labels
 - (1) 10-24 carriage bolt
 - (1) 10-24 wing nut
 - (2) M6 washers
 - (1) U-shaped washer
 - (3) Cable ties

3. TOOLS AND EQUIPMENT

- 5/16- and 3/8-inch wrench or socket
- Slotted screwdriver
- Phillips-head screwdriver

4. ADDITIONAL MATERIALS (PURCHASED SEPARATELY)

May or may not be required depending on your application

- Connector Panels (CCH-CPXX-YY)
- Mounting hardware appropriate for your installation
- Grounding kit (HDWR-GRND-KIT) for armored cable
- Buffer Tube Fan-Out kits (FAN-XX25-YY)
- Pigtailed Panels (CCH-CPXX-YY-P03ZZ)
- Pigtailed Modules (CCH-RMXX-YY-P03ZZ)
- Splice tray bracket (WCH-SPLC-4-8/-12)
- Reduced Length Splice Trays
- External Strain-Relief (WCH-STRNRLF-KIT)

5. MOUNTING

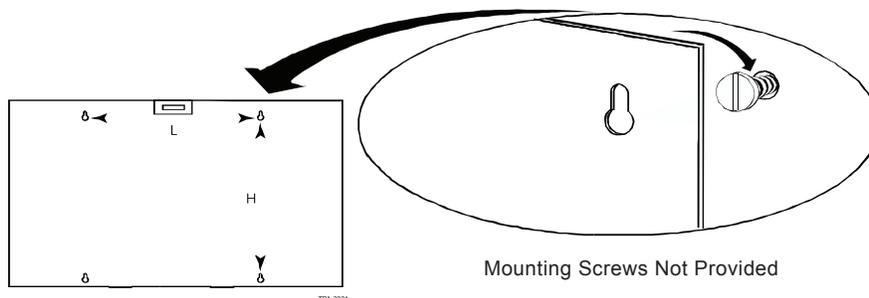
The WCH may be mounted directly to a wall. An optional wall standoff kit, (purchased separately), may be used for mounting to allow cable routing between the cabinet and the wall. The wall standoff kit may be installed following instructions provided with the kit.

Step 1: When mounting the WCH directly to a wall, select a vertical surface. The surface should be flat so that the WCH won't warp when it is secured to the wall.

Step 2: Hold the unit in position on the wall and mark the hole locations with a pencil.



CAUTION: 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 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.



- Mounting holes for both the -04P and -06P units are:
 - L: 12 in (30.48 cm)
 - H: 11 1/8 in (28.26 cm)
 - Mounting holes for the -12P units are:
 - L: 10 in (25.4 cm)
 - H: 11 1/8 in (28.26 cm)
- Drive anchors or wood screws in at these locations leaving a 1/8-inch gap between the mounting surface and screw or bolt head. Hardware used for mounting depends on the mounting surface.

Step 3: Place the unit on the mounting hardware and tighten the hardware.

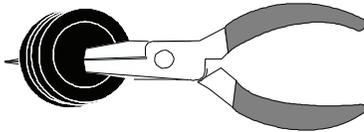
6. WCH DOOR

- Step 1:** The unit's center door can be opened and secured at a 90 degree angle by attaching the cable from it to the housing. Avoid putting excessive weight on the door when using it as a shelf; doing so may cause the door to bend or break.
- Step 2:** It is possible to close the door without disconnecting the cable. When closing, make sure the cable doesn't get caught between the door and the housing or interfere with the fibers or connectors.

7. INSTALLING CABLE TO BE SPLICED OR CONNECTORIZED

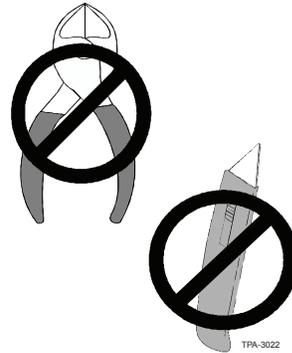
- Step 1:** Pierce the grommet in the top or bottom of the cabinet as illustrated and thread the cable through the hole.

Grommet Preparation



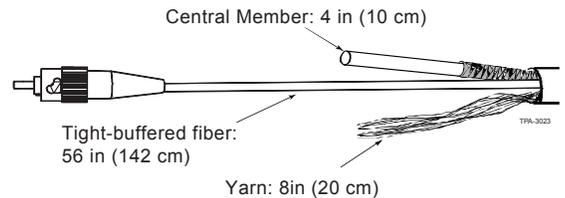
Use a pair of needle-nose pliers or sharp pencil to pierce the grommet. Do not use a knife or cutters.

Grommets must fit tightly to prevent the intrusion of insects, water, dirt, or foreign particles. A knife may cut all the way through the grommet, and cutters may cut a hole that is too large for a tight fit.

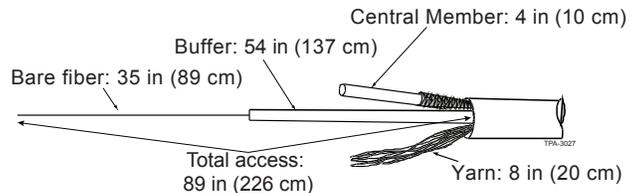


- Step 2:** Perform cable sheath removal steps as specified in instructions for the cable you are installing. Suggested lengths are illustrated.
- Step 3:** Trial position the cable on the cable strain-relief bracket as illustrated minimizing bending of the cable. If the cable you are installing has aramid or fiber glass yarn and a central member, you will need to attach a square-neck bolt, U-shaped washer and round washers to the bracket to strain-relieve the cable. Start the bolt into a square hole in the strain-relief bracket (with U-shaped and round washers on it as shown) but do not tighten it. Wrap the yarn from the cable around the bolt (between the U-shaped washer and the strain-relief bracket) in a clockwise direction. Insert the central member between the U-shaped washer and the first flat washer. Place the second flat washer on top and tighten the wing nut. Trim the excess central member and yarn.

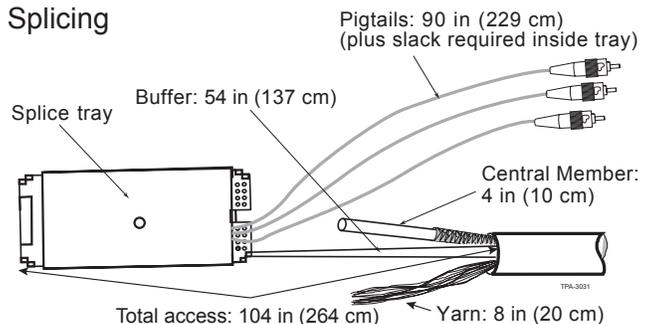
Direct termination



25-inch Fan-outs



Splicing

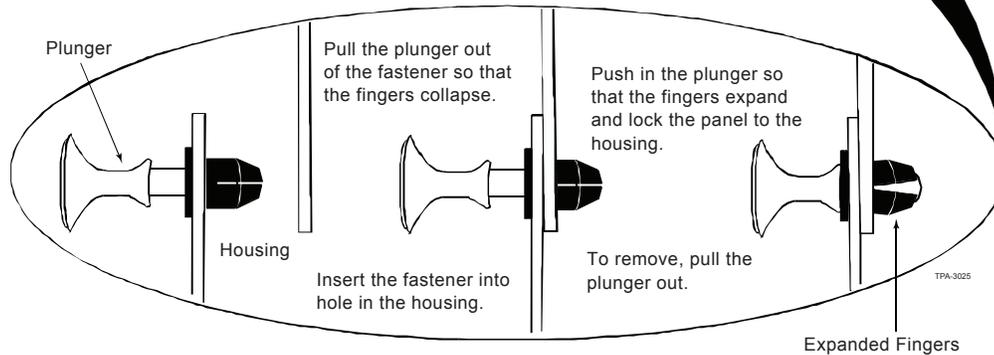
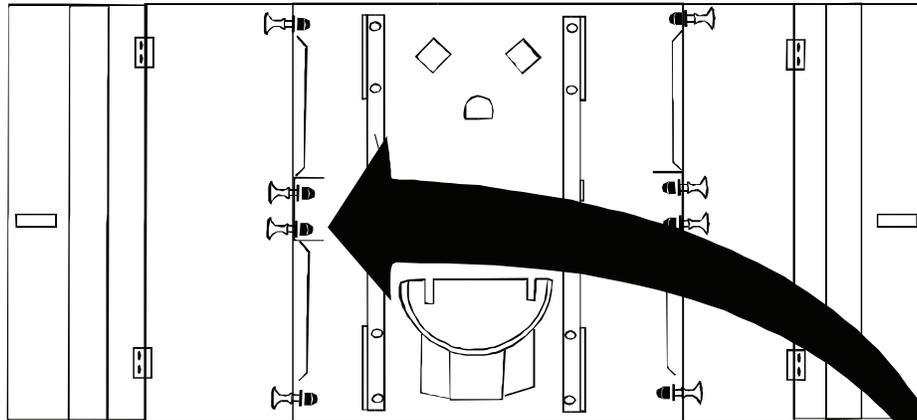
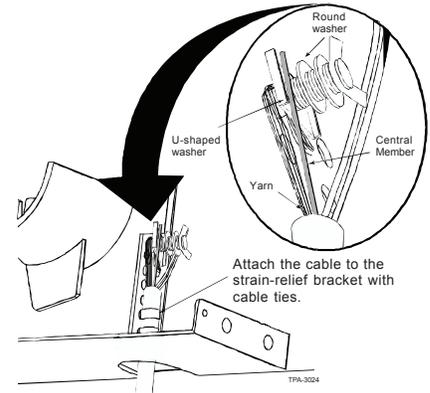


Step 4: Secure the cable sheath to the strain-relief bracket with cable ties and attach the bracket to the backplate of the WCH.

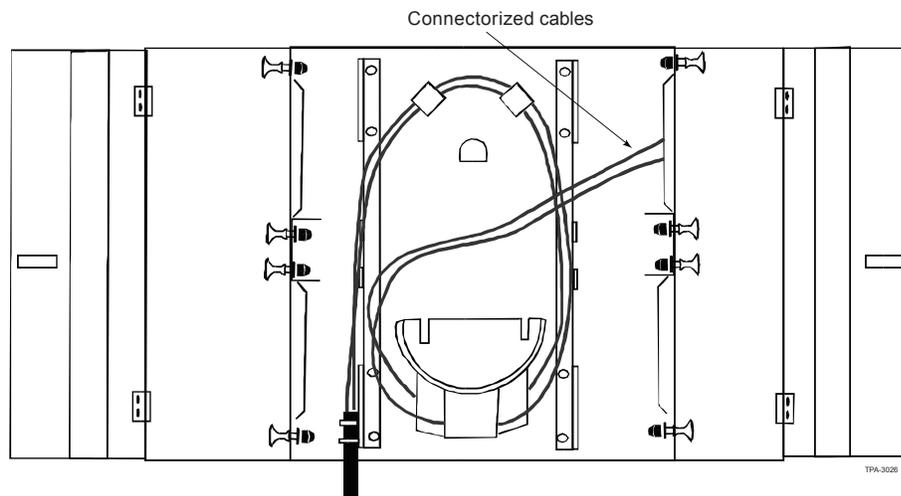
NOTE: Use care not to overtighten the tie wraps. This may macro/microbend the cable, thus damaging the fiber.

Step 5: If the cable you are installing must be connectorized, do so at this time per connector manufacturer instructions.

Step 6: Install connector panels.

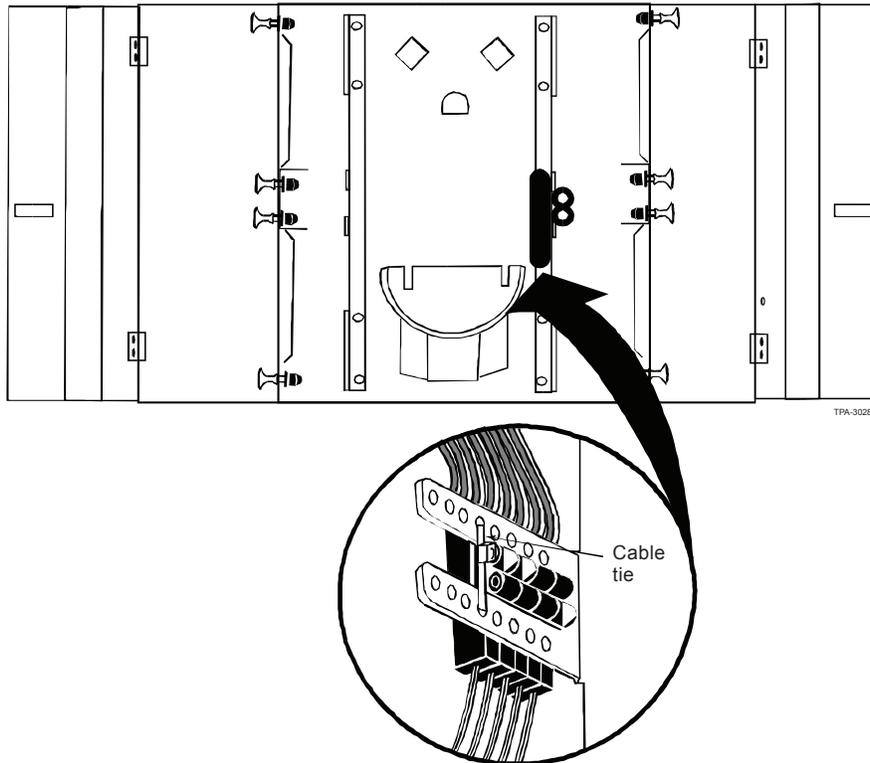


Step 7: Once the connectors have been terminated, route the fiber using the routing pattern illustrated.



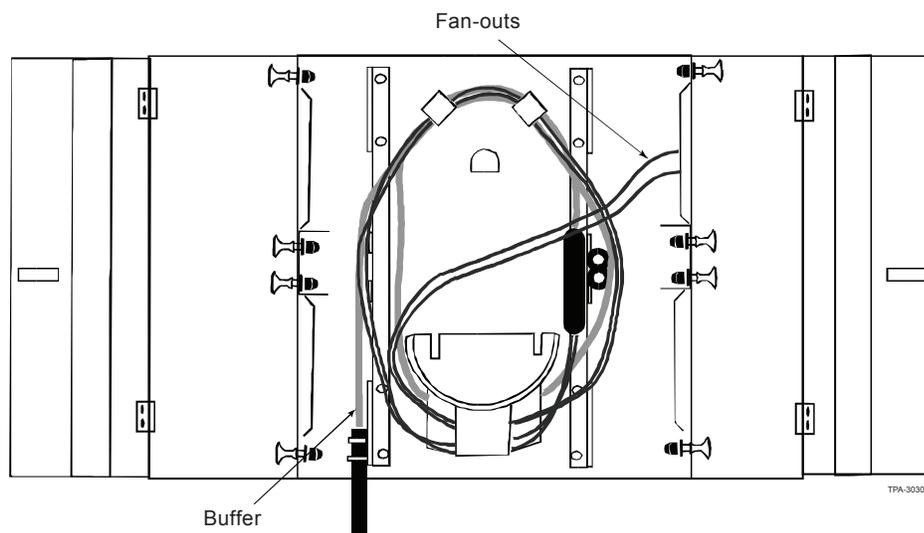
8. INSTALLING CABLE WITH FAN-OUTS

Step 1: Buffer Tube Fan-Out Kits are attached inside the WCH on fingers on the center of the strain-relief bracket(s). The fan-outs slide between the fingers and are secured with a single cable tie wrap threaded through holes in the fingers.



Step 2: Remove the strain-relief bracket from the unit and strain-relieve cable components to it as explained in Section 5 Step 3.

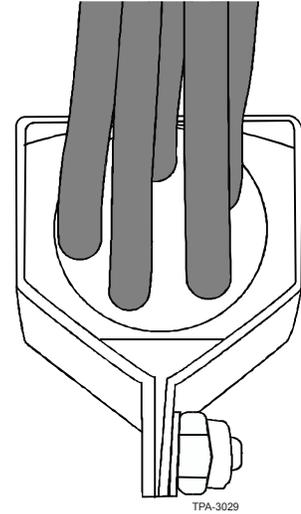
Step 3: Install Fan-Out bodies and connectors as described in the fan-out instructions.



Step 4: Reinstall the strain-relief bracket and carefully route buffers around the routing guides (2-1/2 loops). Slide the fan-out bodies between the fingers on the strain-relief bracket, route the fanned-out fibers, and mate connectors to connector adapters.

9. INSTALLING EXTERNAL STRAIN-RELIEF

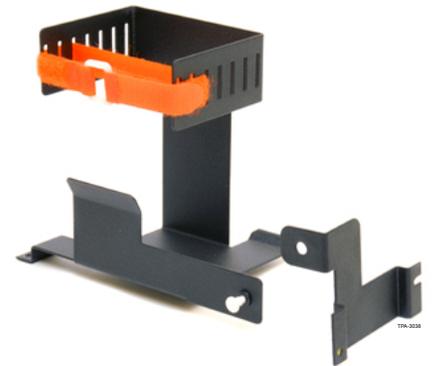
An optional Universal Cable Clamp (UCC) kit (purchased separately) with an insert, which manages up to five cables, can be attached to the exterior of the housing over any of the rubber grommets entry holes.



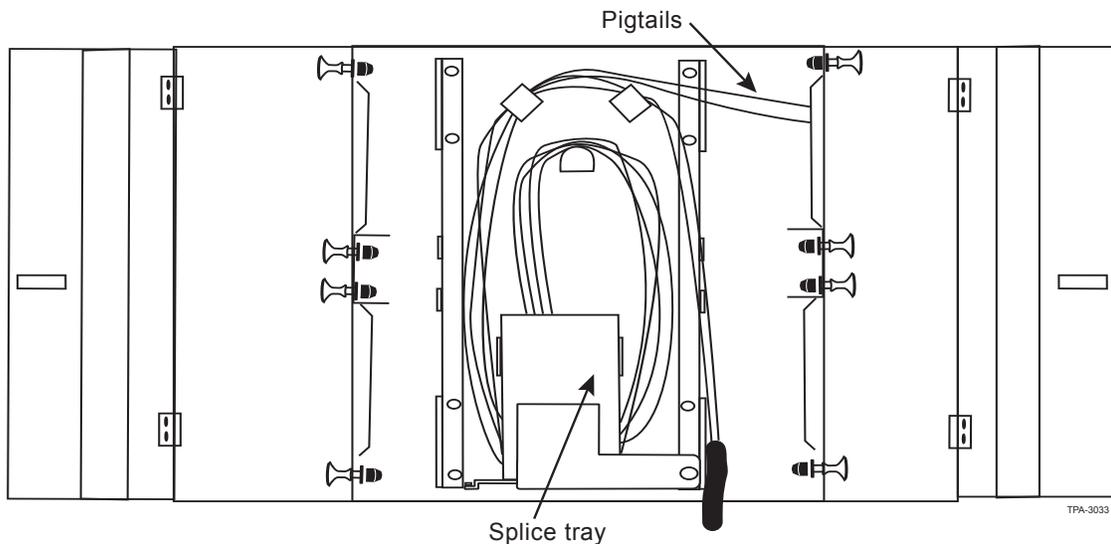
10. SPLICING

Step 1: Splice trays are located in the optional splice tray holder. To install the splice tray holder kit, use a nut driver or socket to remove the nuts which hold the lower routing guide in place.

Step 2: Remove the vinyl caps from the three studs in the bottom of the cabinet and place the splice tray holder and its bracket over the studs as shown. Place and fasten the nuts provided to hold the bracket and holder in place. Swing the tray holder into its closed position and push the plunger into the hole to secure.



Step 3: Splice trays may be inserted into the holder and secured with the hook-and-loop strap.

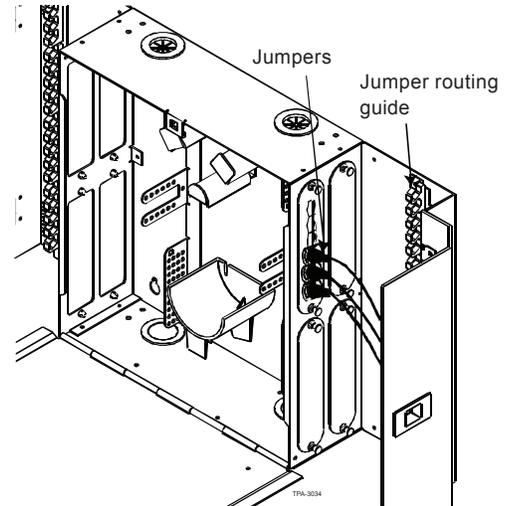


11. JUMPER INSTALLATION

Step 1: Develop a plan for routing jumpers from the WCH and locate the fibers in the plastic routing guides.

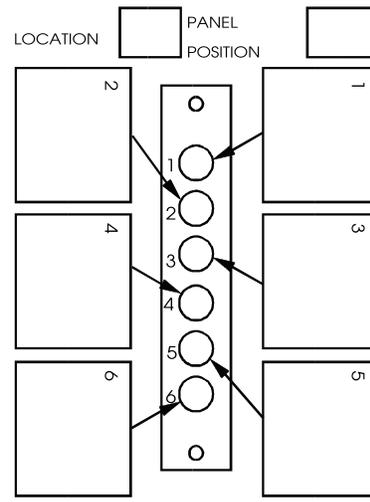
Step 2: Take care to maintain a reasonable bend radius when routing jumpers out of the unit. Carefully dress the jumpers through the fiber routing guides. To facilitate housekeeping, periodically tape the jumpers together with vinyl tape or tie wrap at the bottom or top of the housing.

NOTE: Do not overtighten jumpers with vinyl tape or tie wraps. This may cause macro/microbending, thus damaging the fiber.



12. DOCUMENTATION

Record information on each fiber on the label located on the inside of the door.



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