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LAN-538-EN Rack-mountable 1U Housing Hardware Product Specifications
SRP 003-659 Instruction, PC1-SPLC-04R splice tray holder.

1. Precautions



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.



CAUTION: The wearing of cut-resistant safety gloves to protect your hands from accidental injury when using sharp-bladed tools and armored cable is strongly recommended. Use extreme care when working with severed armor. There will be a sharp edge where armor is cut. To minimize the chance of injury from the cut armor, cover the exposed edge with a wrap of electrical tape. To minimize the chance of injury from sharp-bladed tools, always cut away from yourself and others. Dispose of used blades and armor scrap properly.



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.

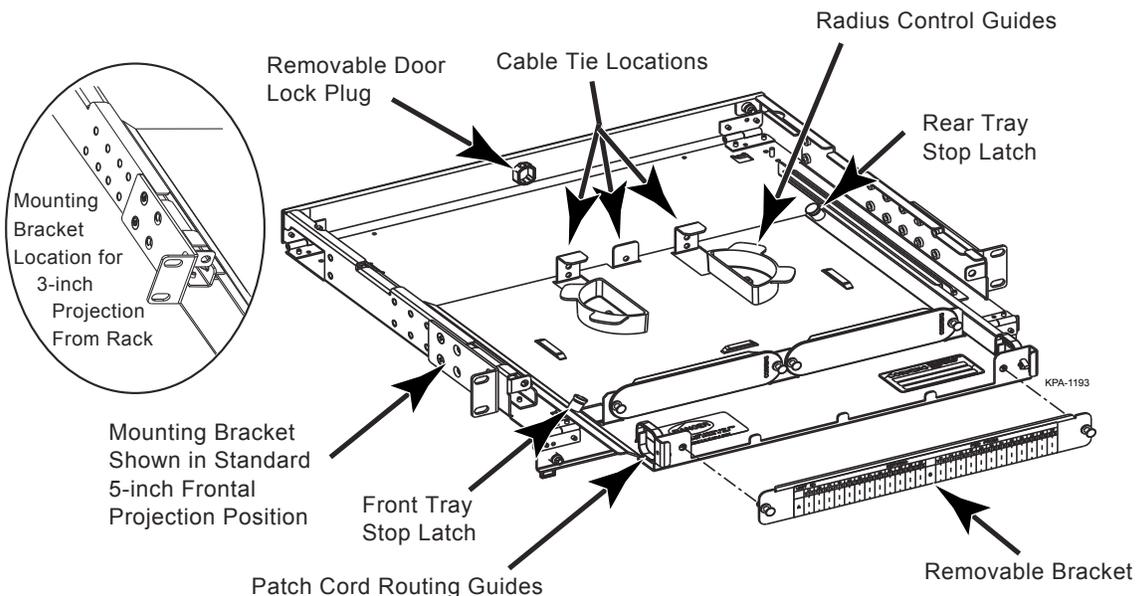


WARNING: DO NOT use magnifiers in the presence of laser radiation. Diffused laser light can cause eye damage if focused with optical instruments. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.



WARNING: Isopropyl alcohol is flammable with a flashpoint at 54°F. It can cause irritation to eyes on contact. In case of contact, flush eyes with water for at least 15 minutes. Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

2. Carton Contents



- Connector Housing
- Hardware Kit containing:
 - (1) Unit identification label
 - (1) Label, 12 x 12 position
 - (2 feet) Spiral wrap
 - (12) Cable ties
 - (1) Universal cable clamp (UCC) kit
 - (2) Strain-relief brackets
 - (1) Cable entry plate
 - (1) 8-32 x 0.5 in Phillips screw
 - (4) 10-32 x 0.5 in Phillips screws
 - (4) 12-24 x 0.5 in Phillips screws
 - (1) 6-32 wing nut
 - (1) M6 washer
 - (2) U-shaped washers

3. Tools Required

- Phillips screwdriver
- 5/16-in socket or wrench
- 3/8-in socket or wrench
- Sand paper

4. Additional Material (Purchased Separately)

May or may not be required depending on your application.

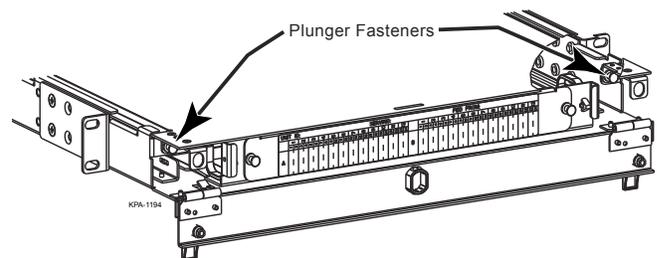
- Connector panels (CCH-CPXX-YY)
- Grounding kit (HDWR-GRND-KIT) for armored cable
- Additional UCC kits (UCC-001/-005)
- Buffer tube fan-out kit (FAN-XX36-YY)
- Closet splice housing (CSH-05U-F-P)
- Pigtailed panels (CCH-CPXX-YY-P03ZZ)
- Pigtailed modules (CCH-RMXX-YY-P03ZZ)
- 23-in rack-mounting brackets (PC1-BKT-23)
- Hardware lock kit (PC1-LOCK-KIT)

5. Product Installation

5.1 Removing the Cover

Removing the cover is optional but is recommended to ease installation

- Step 1:** Open front and rear doors.
- Step 2:** Locate the plunger fasteners at the front of the unit under the housing cover and pull out to release the plungers.
- Step 3:** Slide the cover toward the front until it is clear of the base. Set the cover aside.

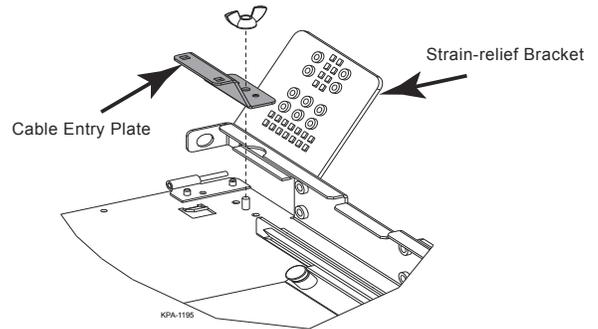


5.2 Mounting the Housing into a Rack

Attach the unit to the equipment rack using the four screws provided. Two screws are required per side of the housing.

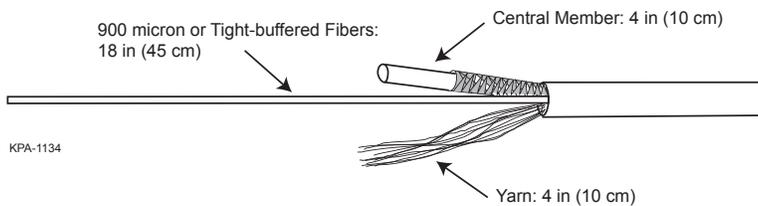
5.3 Installing Cable Entry Plate

- Step 1:** Determine location for cable entry into housing.
- Step 2:** Slide drawer back completely. The drawer must be in this position to prevent fiber damage during drawer actuation.
- Step 3:** Install cable entry plate using the provided wing nut at the location where the cable will enter the housing.
- Step 4:** Install the strain-relief bracket to the side of the housing at the location where the cable will enter the housing.

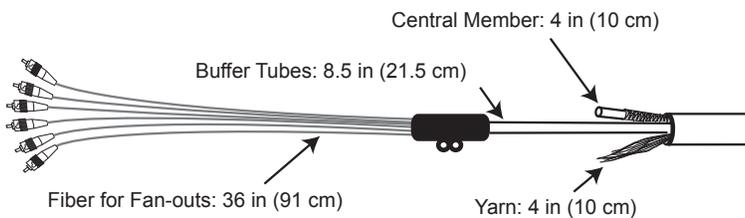


5.4 Cable Preparation

- **Indoor Cables: Access 18 inches (45 cm)**



- **Outdoor Cables with 25-inch Fan-Out Kit: Access 44.5 inches (112.5 cm)**

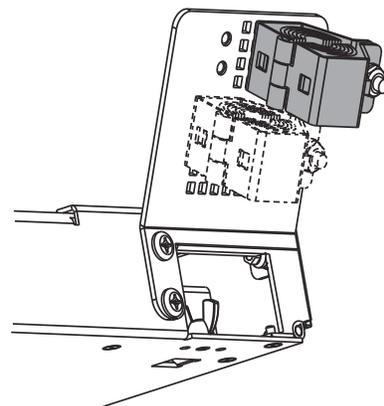


IMPORTANT: If you are installing outside plant cable or temperature fluctuates widely along any part of the cable, the strength members of the cable must be strain-relieved. Failure to do so may result in damage to the cable as temperature varies. Other situations only require the cable to be strain-relieved by sheath retention only.

5.5 Securing the Cable

NOTE: 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 the 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.

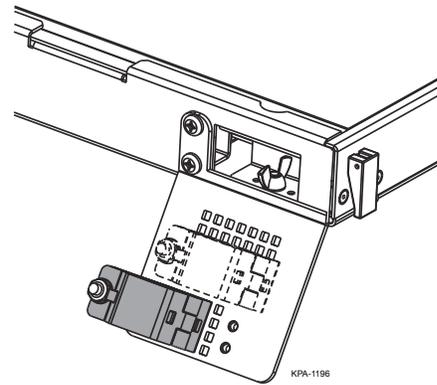
Bracket Orientation for Top Cable Entry



5.5.1 Sheath retention strain-relief using the UCC

- Step 1:** Attach the UCC clampshell to the strain-relief bracket as shown in Figure 5 to allow installation of a second UCC if necessary.
- Step 2:** Follow installation instructions provided with the UCC kit to secure the cable. Allow room on the bracket to strain-relieve the strength member, if necessary. Do not tighten yet to allow for cable adjustment if necessary.
- Step 3:** Secure buffer tubes, sub-units, or spiral-wrapped tight-buffered fibers to the cable entry plate using a cable tie. Do not tighten cable tie.

Bracket Orientation for Bottom Cable Entry

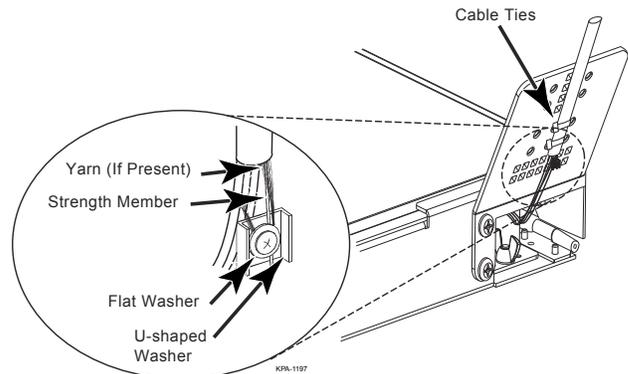


5.5.2 Sheath retention strain-relief using Cable Ties

Attach the cable to the strain-relief bracket with cable ties in two places as shown.

5.6 Strength member strain-relief

- Step 1:** Attach the cable to the strain-relief bracket with cable ties in two places as shown in.
- Step 2:** Install the U-shaped washer and the flat washer on the strain-relief bracket using the supplied Phillips machine screw.
- Step 3:** Place the yarn, if present, and the central member between the U-shaped washer and the flat washer.
- Step 4:** Wrap yarn around the screw in a clockwise direction and under the U-shaped washer.
- Step 5:** Tighten the nut.
- Step 6:** Trim off the excess yarn and central member.



5.7 Grounding Armored Cable

Use one HDWR-GRND-KIT per armored cable. Follow instructions provided with kit to properly ground the cable.

- Step 1:** Remove the paint from the rack with sand paper to ensure metal-to-metal contact at the grounding location.
- Step 2:** Attach the other end of the ground wire from the cable to the rack. The rack must be grounded to the primary building ground for this to work properly.

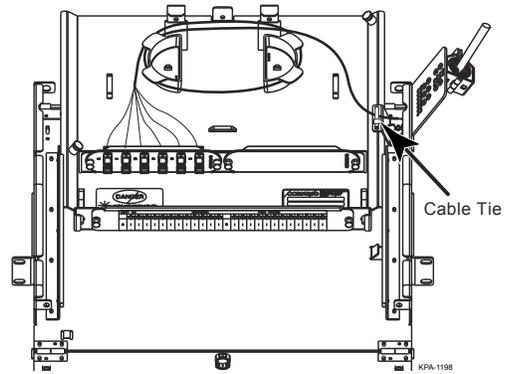
OR

- Step 2:** Attach the other end of the ground wire from the cable to a rack-mount grounding bus.

5.8 Installing Preconnectorized Cable into Connector Panels

- Step 1:** Remove the blank panels from the unit and replace with connector panels (purchased separately).
- Step 2:** Install connectors into the adapters at the rear of the connector panels.
- Step 3:** Route cable slack around radius control guides.

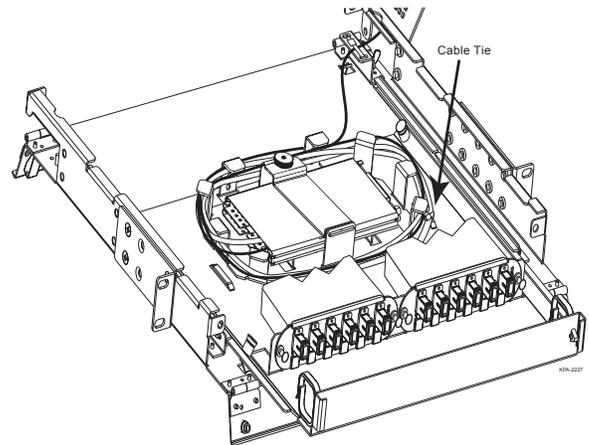
IMPORTANT: Lift the tray stop latches and slide the drawer to the forward and back positions to verify that there is enough fiber slack to prevent violating the minimum fiber bend radius of the cable.



5.9 Installing Closet Connector Housing Pigtail Modules

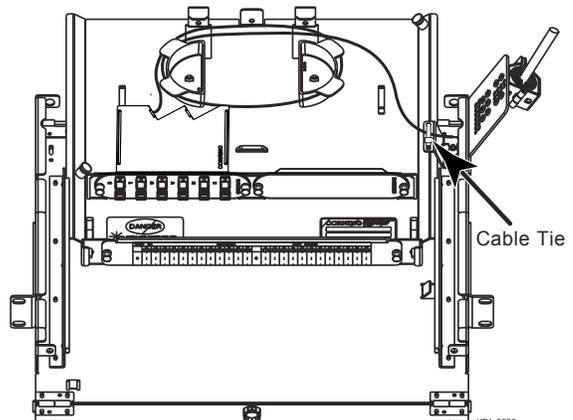
- Step 1:** Remove the blank panels from the unit and replace with pigtail modules (purchased separately).

- Step 2:** If you intend to splice inside the PCH-01U unit using the Splice Tray Kit (p/n PC1-SPLC-04R), remove the radius control guides and install the splice tray kit per the instructions provided with it. Route cable slack around kit and into the splice trays. Splice per the instructions provided with the splice tray.



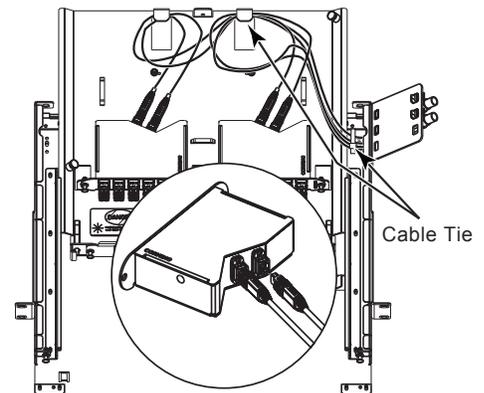
- Step 3:** If you intend to splice using an external splice housing, route slack around the radius control guides and through the rear entry openings to the applicable splice housing above or below the PCH-01U unit.

IMPORTANT: Lift the tray stop latches and slide the drawer to the forward and back positions to verify that the drawer slides in the grooves of the guides and that there is enough fiber slack to prevent violating the minimum fiber bend radius of the cable.



5.10 Installing Preconnectorized Cable into Connector Modules (Plug & Play®)

- Step 1:** Using a 6-32 hex nut driver, remove the radius control guides. (This step is recommended when cables enter from the right side of the housing.)
- Step 2:** Reinstall the nuts onto the radius guide studs to prevent fiber snags.
- Step 3:** Remove the blank panels from the unit and replace with connector modules (purchased separately).
- Step 4:** Install MTP connectors into the MTP adapters at the rear of the connector modules. Route fiber as shown and loosely secure with cable ties.

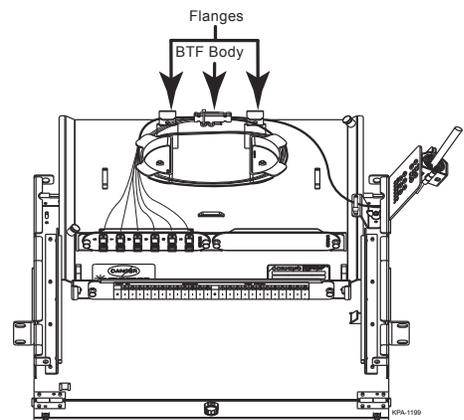


IMPORTANT: Lift the tray stop latches and slide the drawer to the forward and back positions to verify that there is enough fiber slack to prevent violating the minimum fiber bend radius of the cable.

5.11 Installing a Buffer Tube Fan-out Kit

Loose-tube fiber optic cable can be connectorized using Buffer Tube Fan-out (BTF) kits (purchased separately).

- Step 1:** Terminate the fibers according to the instruction provided with the BTF kit.
- Step 2:** Slide drawer back completely and route buffer tube behind the flanges on the drawer and secure with cable ties. Do not tighten cable ties. Route buffer tube around the radius control guides.
- Step 3:** Secure the BTF body to the tray using a cable tie.
- Step 4:** Continue routing the fiber and install connectors into the adapters at the rear of the connector panels.



5.12 Closing the Housing

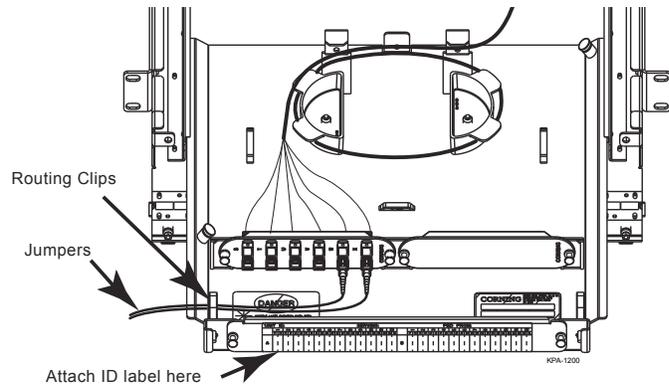
- Step 1:** Slide drawer back to original position.
- Step 2:** If previously removed, slide the cover back in the retaining flanges on top of the housing. Push the plunger fasteners into secure.
- Step 3:** Close the front and rear doors.

5.13 Routing Jumpers

Install jumpers as specified on planning diagrams. Route jumpers through the routing clips on either side at the front of the housing.

Provide enough jumpers slack to allow the connector panel tray to slide to the back and forward positions without violating the minimum bend radius of the jumpers.

Record jumpers routing information on the identification (ID) label provided.



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