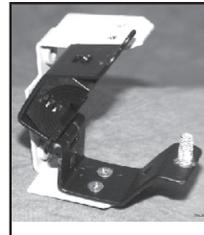
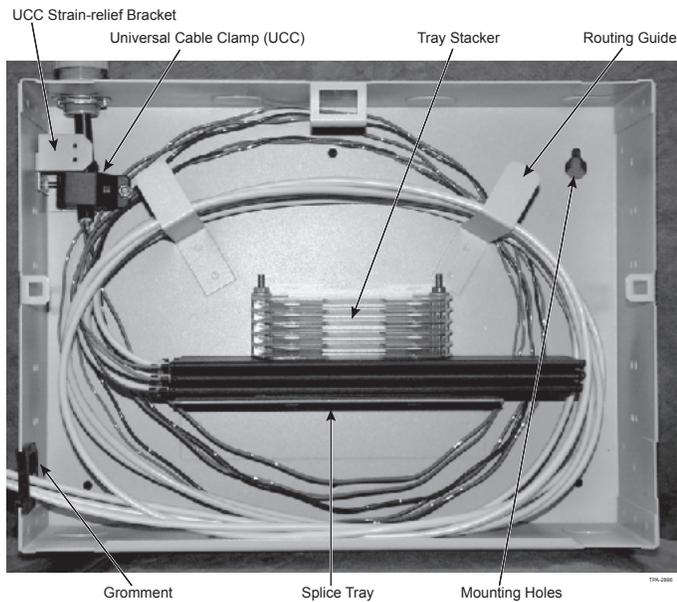
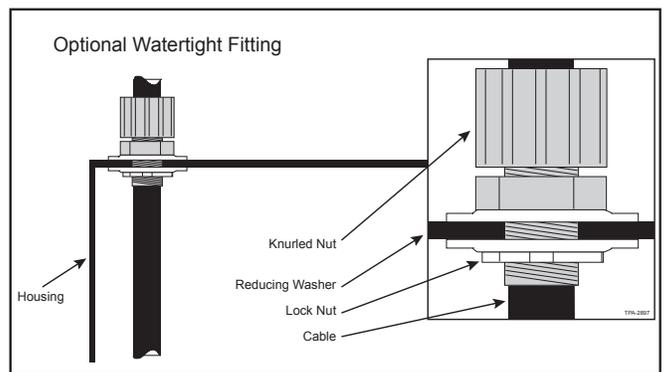
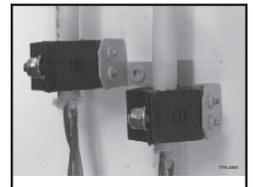




1. Components



Remove shims to attach UCC to bracket.



2. Tools and Materials

The usual complement of installation tools is required to install the WSC-001.

3. Precautions

	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.
	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.
	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 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.

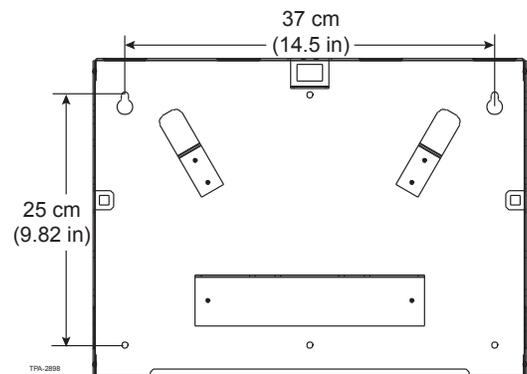
4. Mounting

Step 1: Remove the front door of the unit and set it aside. Mount the WSC-001 to a solid surface, inserting two mounting screws of the appropriate type through the top two mounting holes. If additional stability is required, mount a 1/4-inch thick section of plywood between the WSC-001 and the wall. Drive anchors or wood screws in at these locations, leaving a 1/8-inch gap between the mounting surface and screw or bolt head.

Step 2: Place the unit on the mounting hardware and tighten the screws.

Step 3: Add two more mounting screws to the bottom mounting holes near the left and right corners of the housing.

NOTE: Mounting hardware is not supplied.

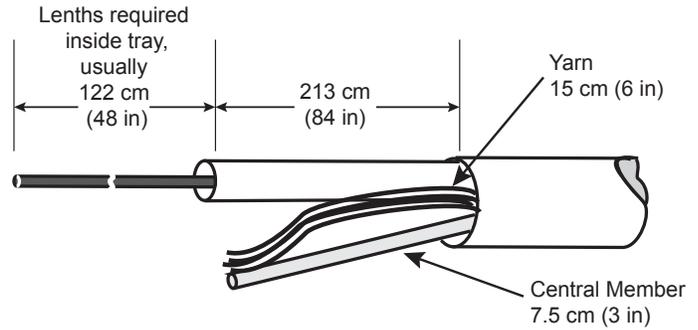


5. Planning

Before proceeding with the cable installation, determine how the cable will be routed. Cable entry (whether the cable enters from the top or bottom, and whether the cable exits the top or bottom) depends on the type of cable being installed. Knockouts should be removed and lined with rubber grommeting at cable entry/exit locations at this time. Cable may also enter/exit from the sides of the housing near the bottom.

6. Cable Sheath Removal

Perform cable sheath removal steps as explained in the instructions for the cable you are installing. Suggested lengths to leave are illustrated.



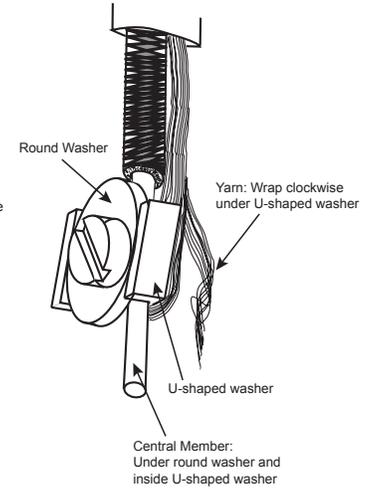
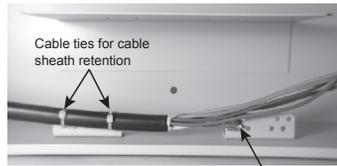
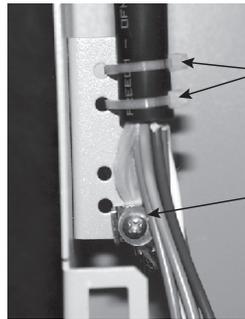
7. Cable Strain-relief

Step 1: Cables are strain-relieved on brackets attached to the side of the housing. See image.

Step 2: Attach the two central member strain-relief brackets to the housing (or you may use only one bracket) so that they align with the entry port where you plan to bring the cable into the housing. Use four of the 10-32 Phillips head screws provided to secure the brackets.

Step 3: Secure cable strength members (yarn and central member) as follows:

- Thread the cable into the housing through one of the entry ports.
- Attach the cable to the first bracket closest to the entry port with cable ties.
- Install the U-shaped washer assembly on the second bracket.
- Wrap the aramid yarn between the U-shaped washer and the strain-relief bracket (clockwise).
- Insert the central member of the cable between the U-shaped washer and the M6 flat washer and fasten securely.
- If the central member is metallic, make sure 1/2-inch of insulation has been stripped off the central member. Place the eye of a ground wire (#6 AWG; purchased separately in appropriate length from any electrical supply store) under the U-shaped washer or under the flat washer (the ground wire must have metal-to-metal contact providing an electrical path to the central member).
- Attach the other end of the ground wire to the building ground.
- For armored cable, use p/n: FDC-CABLE-GRND (kit purchased separately) to ground the cable. Follow the installation instructions supplied with the kit.
- Trim off excess yarn and central member.



NOTE: The exposed length of the central member (after strain-relief) is to be less than or equal to 6.5 cm (2.5 in) between the U-shaped washer and the end of the cable sheath.

NOTE: If 50 ft or more of outside plant cable is routed within an environmentally controlled building to reach the WSC, strain-relieving the cable sheath is adequate. Securing the cable strength members (yarn and/or central member) is not necessary.

For cable sheath retention only, cable ties or the Universal Cable Clamp should be used.

Step 4: Remove approximately 11 feet of cable sheath to allow for routing of the fiber and for slack storage.

Step 5: If you plan to use the UCC, cut the central member and strength member yarn flush with the cable sheath end.

Step 6: Install the UCC strain-relief bracket (per the instruction provided with the kit) near the entry port you plan to use to bring cable into the housing. Use two of the #10-32 Phillips screws provided to secure the bracket as shown.



Step 7: Install grommets as appropriate:

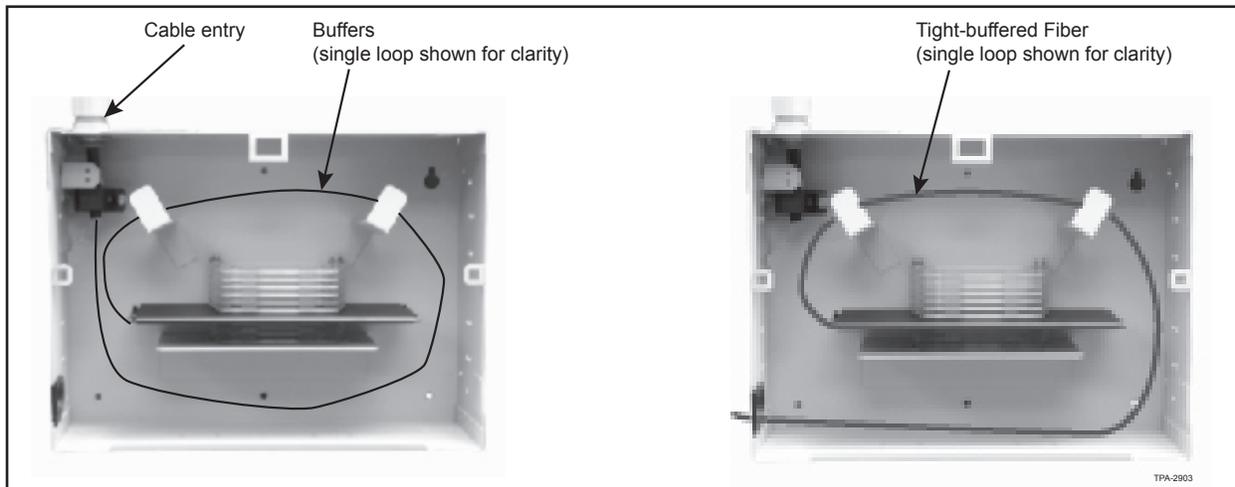
- a. Peel Grommet: Use shims for larger diameter cables. Measure the diameter of the cable that will be secured with the UCC using the supplied measuring guide. All shims have a designated number. Use the appropriate shim(s) for proper cable diameter as outlined in the table. Follow detailed instructions supplied with the kit p/n: UCC-001 for specific guidelines on installing the UCC-001.
- b. Slotted Grommet: When installing multiple cables, use the slotted grommet for cables with diameters less than 0.4 inches. Sand the cables lightly where they will contact the grommet and wrap them with electrical tape (in a spiral). Sand the taped areas and compress the cables in the grommet. Follow detailed instructions supplied with the kit p/n: UCC-005 for specific guidelines on installing the UCC-005.

8. Splicing

Once cables have been strain-relieved, splice cables at a work location close to the unit. See the instructions supplied with the splice tray and splicing method you are using for details.

9. 11. Cable Routing

After the fibers have been spliced and stored in the splice tray, place the tray in the stacker and route the cable in the unit.



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