

Splice Tray Kit for Pretium™ Wallmount Housings

Revision History

Issue	Date	Reason for Change
2	01/2007	Correct part number in Table 1
1	10/2006	Initial release

Related Literature

SRP 003-724	Instruction, Pretium™ Wallmount Housings (PWH-02P, -04P, and -06P)
SRP 003-728	Instruction, Pretium™ Wallmount Housings (PWH-12P)
SRP 001-284	Instruction, Splice Trays using Heatshrink Splice Protectors

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Admonishments

The precautionary terms used by Corning Cable Systems in its standard recommended procedures conform to the guidelines expressed in the American National Standards Institute

document (ANSI Z535) for hazard alert messages. Alerts are included in this instruction based on the following:



DANGER: indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING: indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

1. GENERAL

This document describes the recommended procedure for installing a splice tray holder and splice trays into a Pretium™ Wallmount Housing. Refer to Table 1 to determine the appropriate kit for your housing. Splice trays and splice protectors are purchased separately. Contact your customer service representative to purchase accessories that are sold separately.

Part Number	PWH-02P	PWH-04P	PWH-06P	PWH-12P
Connector Panels or Modules	Two (purchased separately)	Four (purchased separately)	Six (purchased separately)	Twelve (purchased separately)
Splice Trays	Two Type 4R Four Type 2R (purchased separately)	Six Type 4R Twelve Type 2R (purchased separately)	Six Type 4R Twelve Type 2R (purchased separately)	Six Type 4R Twelve Type 2R (purchased separately)
Splice Tray Holder Kit	p/n PWH-SPLC-02P	p/n PWH-SPLC-04-12P	p/n PWH-SPLC-04-12P	p/n PWH-SPLC-04-12P

KPA-0314

Table 1 — Specifications

2. CARTON CONTENTS

- (1) Splice tray holder assembly
- (1) Bracket
- (1) Hook-and-loop strap
- (1) #10 SS washer
- (3) 6-32 locknut

3. TOOLS AND MATERIALS REQUIRED

3.1 Tools

A $\frac{5}{16}$ -inch nutdriver is required for this installation.

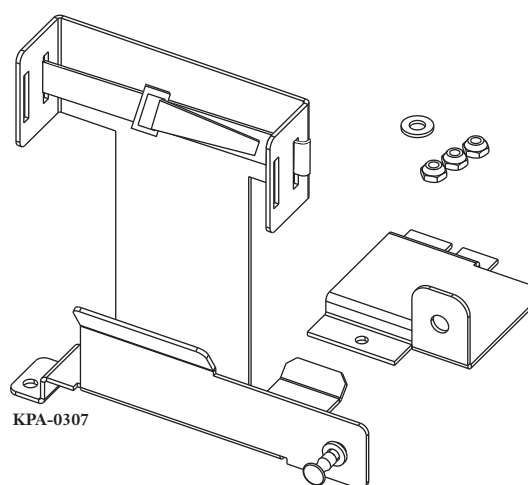


Figure 1 — Carton Contents

3.2 Materials

- Splice trays
- Cable stripping tools

4. INSTALLATION

4.1 Install Cable

IMPORTANT: *This procedure is to be used in conjunction with the instruction provided with your wallmount housing.*

Install cable as described in the instruction provided with the wallmount housing (Figure 2).

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 than can alter the transmission characteristics of the cable; the cable may have to be replaced.*

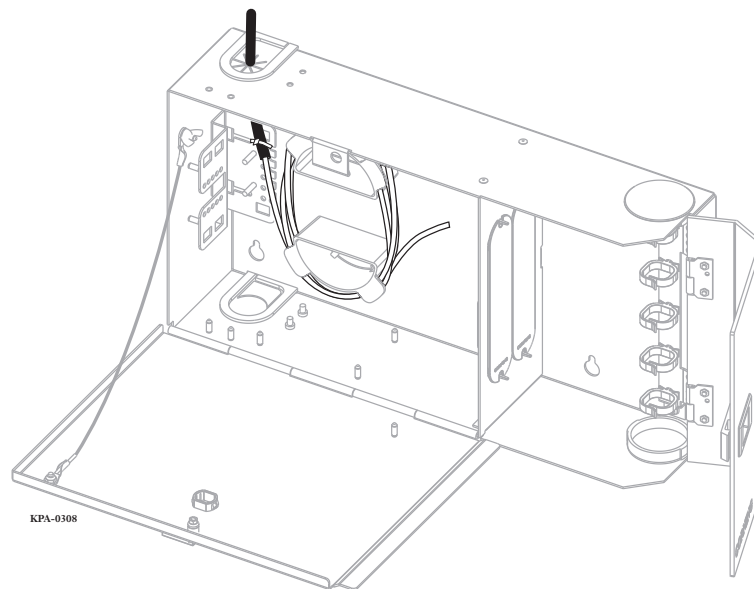


Figure 2 — Install Cable into Housing

4.2 Install Splice Tray Holder

Step 1: Attach the bracket onto the wall of the housing using two locknuts (Figure 3).

Step 2: Attach the splice tray holder to the wall of the housing using the flat washer and a locknut. Tighten nut enough to allow holder to pivot and leave the holder in the up position.

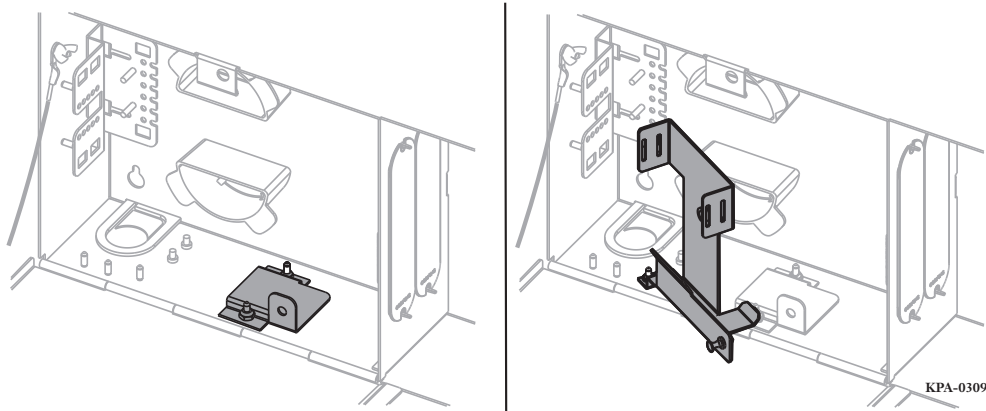


Figure 3 — Install Bracket and Holder (Cable not shown for clarity.)

4.3 Install Splice Tray

Temporarily position the splice tray in the holder to determine adequate fiber slack.

4.4 Route Buffer Tubes

Step 1: Route the buffer tube in a counterclockwise direction around the radius control guides to the splice tray (Figure 4).

Step 2: Mark the cable where it will enter the splice tray.

IMPORTANT: *If the cable enters the wallmount housing from the bottom, route the buffer tube in a clockwise direction around the radius control guides.*

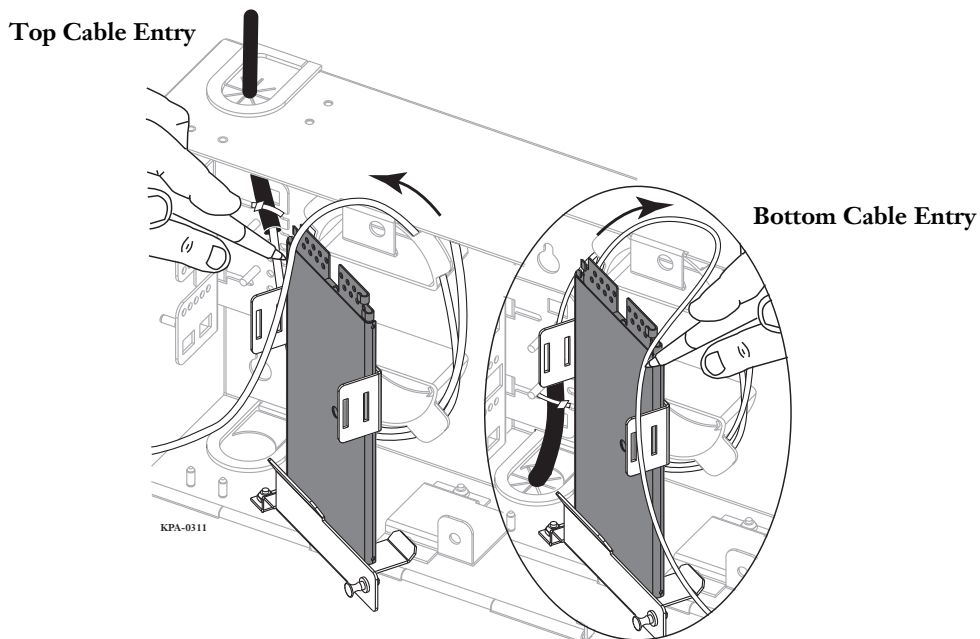


Figure 4 — Route Buffer Tube

4.5 Route Pigtail Fibers

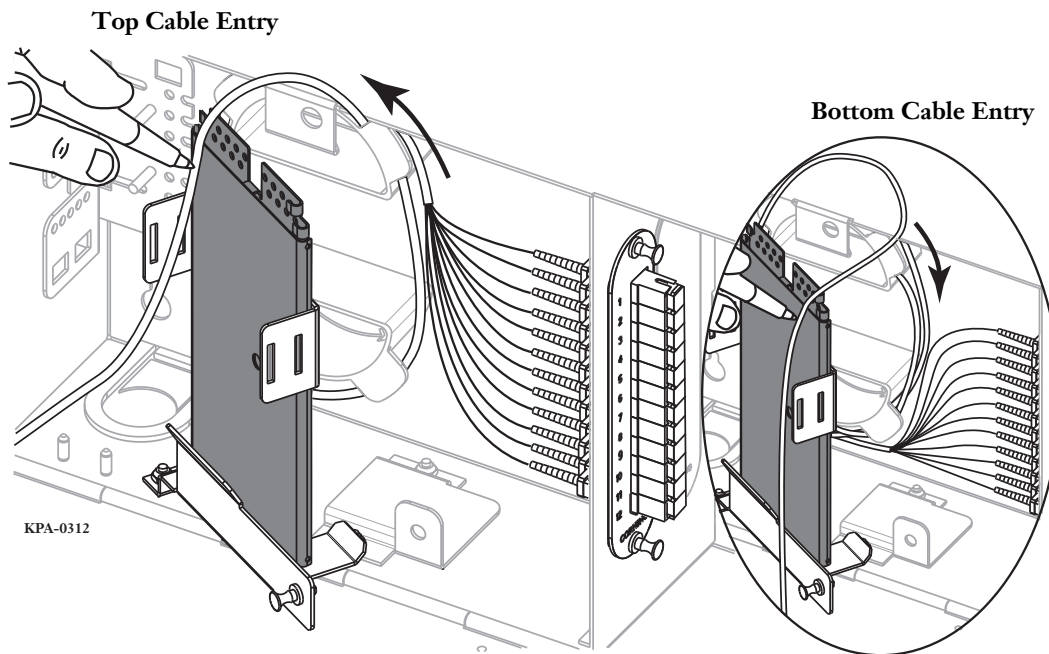


Figure 5 — Install and Route Pigtail

Step 1: Remove the blank panels from the wallmount housing by squeezing the tabs together and lifting the panel away from the opening. Install factory-pigtailed panels.

Step 2: Route pigtails in a counterclockwise direction around the radius control guides to the splice tray.

Step 3: Mark the pigtail where it will enter the splice tray (Figure 5).

IMPORTANT: *If the cable enters the housing from the bottom, route the pigtail around the guides in a clockwise direction.*

4.6 Splice

IMPORTANT: *This procedure is to be used in conjunction with the instructions provided with the splice tray.*



WARNING: *Never look directly into the end of a fiber that may be carrying laser light. Laser light is invisible and can damage your eyes. Viewing it directly does no 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: *Wear safety glasses to protect your eyes from accidental injury when handling chemicals and cutting fiber. Pieces of glass fiber are very sharp and can damage the eye easily.*

- Step 1:** Follow instructions provided with the splice tray to remove cable buffer and jacket and secure them to the splice tray.
- Step 2:** Move the splice tray and fibers to the splicing equipment. Splice fibers as described in the instruction provided with your splicing equipment.
- Step 3:** Route fiber slack around the radius control guides.
- Step 4:** Install the splice tray into the holder.
- Step 5:** Install hook-and-loop strap into the holder.
- Step 6:** Swing the splice tray holder against the bracket and secure it to the bracket using the nylon fastener.
- Step 7:** Once all splicing is complete, secure the splice trays into the holder using the hook-and-loop strap (Figure 6).

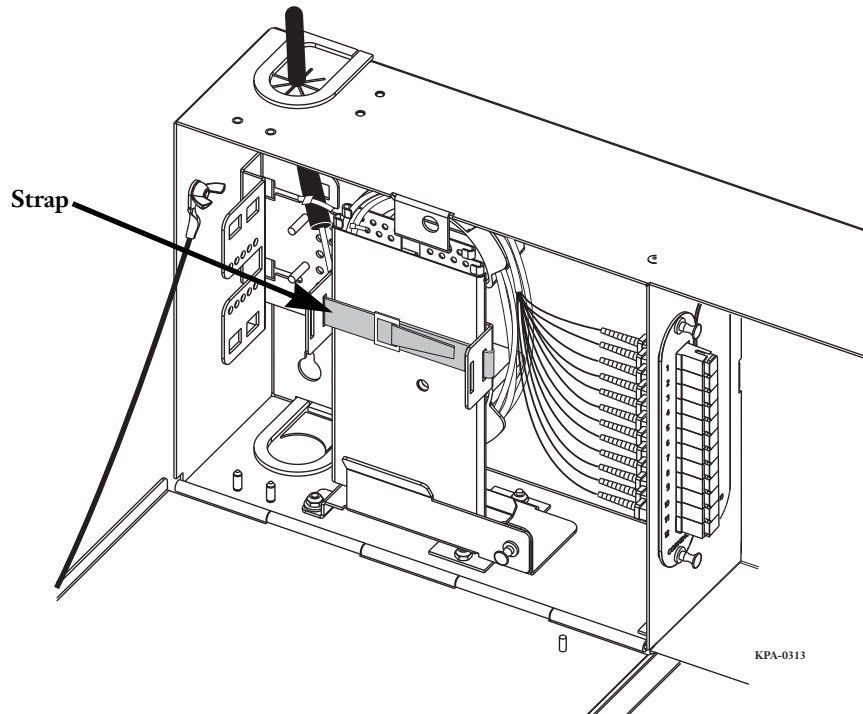


Figure 6 — Secure Splice Tray

5. MAINTENANCE

The unit requires very little maintenance to ensure fibers and parts remain in good condition.

- External components may be cleaned occasionally with a damp, nonabrasive cloth.
- Check nuts, bolts, and screws; tighten as needed.

- Check fiber optic cable to make sure bends do not exceed the minimum bend radius.
- Check cables for unnecessary strain, for crimping or crushing at entries and exits, and for damage.
- Check unit record labels to make sure all are clear and accurate.

6. GROWTH

To increase the capacity of the wallmount unit, add additional splice trays.

Acronyms

ANSI	American National Standards Institute
PWH	Pretium Wallmount Housing

Glossary

Buffer Tube

Extruded cylindrical tubes within a cable assembly used for protection and segregation of colored optical fibers.

Fiber Bend Radius

Radius a fiber can bend before the risk of breakage or increase in attenuation.

Pigtail

Optical fiber cable that has connector(s) installed on one end.

Splice Tray

A container used to secure, organize, and protect spliced fibers.