24 Fiber OSP Splice Closure

For Installations in Both Underground and Aerial Environments

RLH Industries Outside Plant Fiber Splice Closure provides reliable and flexible installation for outdoor applications. The compact size and high quality construction allow for installation in both underground and aerial environments.

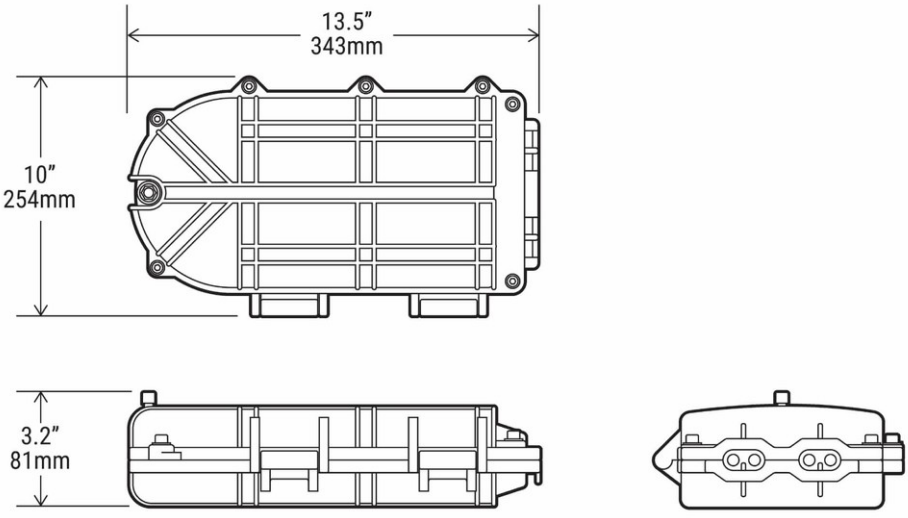
The case lid is hinged for correct alignment and is secured with stainless steel hardware for corrosion resistance. A silicone gasket with cable inlet and exit seals, along with sealing tape and plugs for unused cable entry points, provide a durable and water tight seal for fiber splicing in outdoor environments. Two splice trays with hinged covers hold up to 24 splice sleeves.

This User Guide provides basic installation instructions for fiber optic cable technicians.

24 Fiber OSP Splice Closure

Key Features

- 24 fiber capacity (splice trays included)
- 4 cable entry ports
- Aerial or underground applications
- Waterproof seal (IP 66)
- Temperature and chemical resistant
- Includes accessory kit with splice sleeves, cable seals, and aerial mounting brackets



General Safety Practices

Intended Audience

This guide is intended for use by knowledgeable installation, operation and repair personnel. Every effort has been made to ensure the accuracy of the information in this guide. However, due to constant product improvement, specifications and information contained in this document are subject to change without notice.

Conventions

Symbols for notes, attention, and caution are used throughout this manual to provide readers with additional information, advice when special attention is needed, and caution to prevent injury or equipment damage.

The equipment discussed in this document may require tools designed for the purpose being described. RLH recommends that service personnel be familiar with the correct handling and use of any installation equipment used, and follow all safety precautions including the use of protective personal equipment as required.

Caution - Severe Shock Hazard

- Never install during a lightning storm or where unsafe high voltages are present.
- Copper lines may carry high DC voltages. Use caution when handling copper wiring.

Guidelines for handling terminated fiber cable

- Do not bend fiber cable sharply. Use gradual and smooth bends to avoid damaging glass fiber.
- Keep fiber ends and fiber connectors clean and free from dust, dirt and debris. Contamination will cause signal loss.
- Do not touch fiber ends.
- Store excess fiber on fiber spools at site

Laser Safety

Do not look directly into a fiber-optic transceiver or into the ends of fiber-optic cables.
Fiber-optic transceivers and fiber-optic cable connected to a transceiver emit laser light that can cause eye damage.

Transportation and Storage

- The Splice Closure is safe to transport in any method desired.
- Avoid impact damage to packaging from dropping or crushing.
- Store in a dry environment, avoid exposure to corrosive gas.
- Storage Temperature Range: -40°C ~ +60°C (-40°F ~ 140°F)

Products Covered in this Guide

Description	Part Number
24 Fiber OSP Splice Closure	RLH-OFSC-24-B-1

General Specifications

Color	Black
Material	PP + GF
Dimensions	13.5”(L) x 10”(W) x 3.2”(H), (343mm x 254mm x 81mm)
Fiber Splice Capacity	24 Fibers
Fibers Per Tray	12
Cable Ports	2 + 2
Cable Diameter (mm)	Φ5 ~ Φ14
Weight	2 lbs. (0.9Kg) Approx.
Protection	IP66
Installation	Outdoor underground or aerial, butt end

Installation

Prior to Installation

Check for shipping damage:

- Check the contents to ensure contents and accessories
- Have a clean, dry, installation environment ready

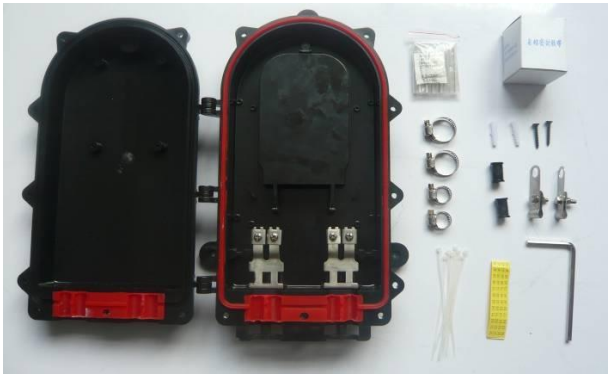
Accessory	Description	Accessory	Description
	Protective Splice Sleeves		1 roll Sealing tape
	4 ea. Hose Clamps Φ10 ~ Φ16 (mm)		Cable Ties
	2 ea. Hose Clamps Φ16 ~ Φ25 (mm)		1 ea. M6 Hex Key
	2 ea. Cable Opening Plugs		2 ea. Aerial Mounting Brackets

Tools required

Accessory	Description	Accessory	Description
	Pliers		Slotted screwdriver
	Phillips Screwdriver		

Installation Steps

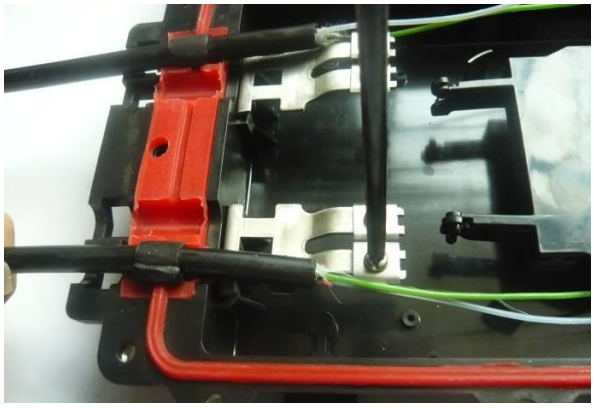
1. Check product, kit contents and tools



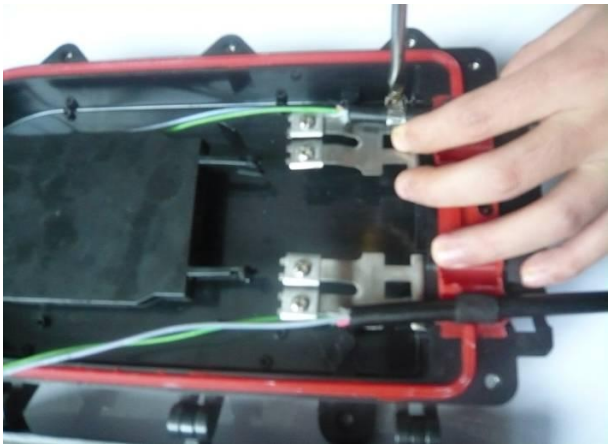
2. Strip the optical cable and bend the strengthening line with pliers for securing to the attachment screw.

3. Wrap the sealing tape on to the optical fiber. Ensure that the tape fits snugly in the cable openings.

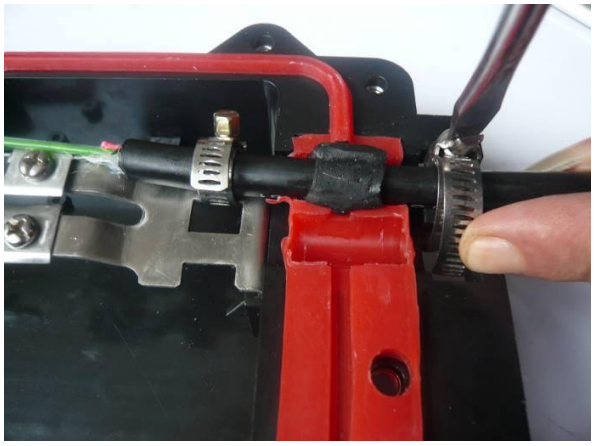
4. Attach the strength member of the optical cable to the securing screw with the Phillips screwdriver.



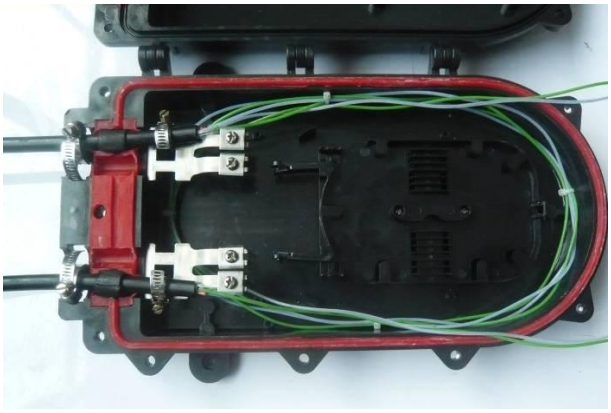
5. Secure the fiber cable to the inner supporting bracket with the smaller hose clamp.



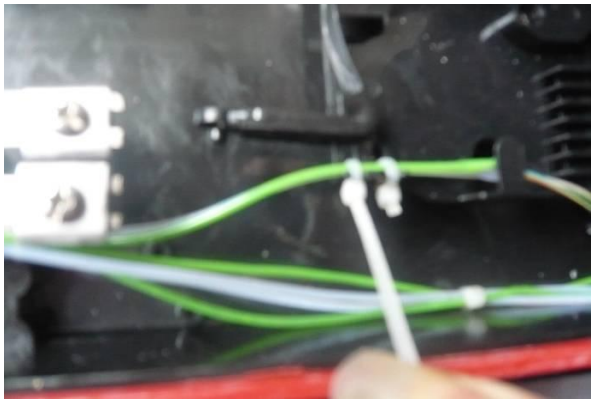
6. Secure the fiber cable to the outer support tab with the larger hose clamp.



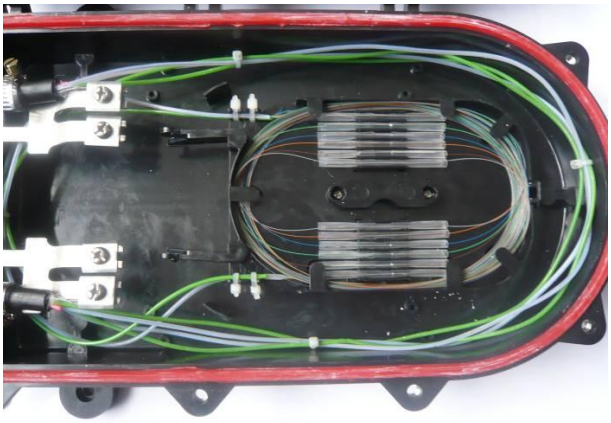
7. Loop the surplus fiber in the the bottom of the housing.



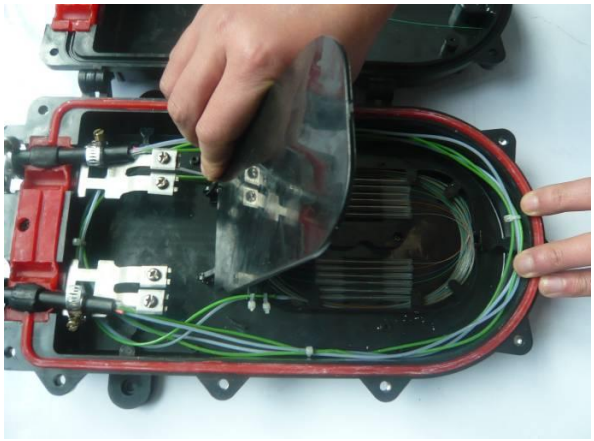
8. Secure the inner fiber optic cable to the case with the cable ties.



9. Secure the spliced fiber optics to the in and out ports of the fiber splice tray and organize fiber strands.

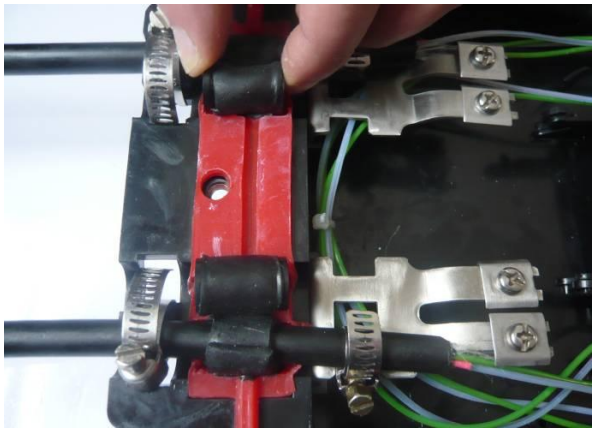


10. Carefully attach and close the cover on the fiber splice tray.

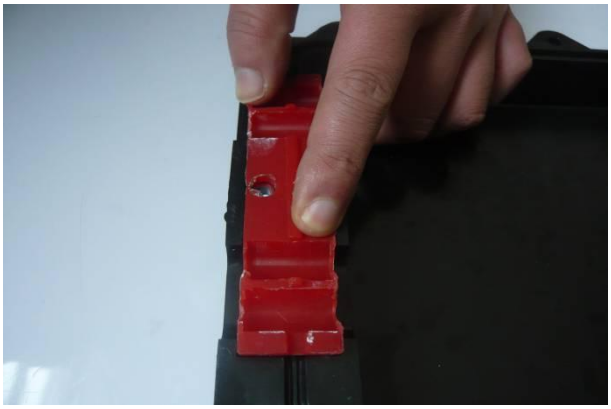


11. Wrap the sealing plugs with the sealing tape.

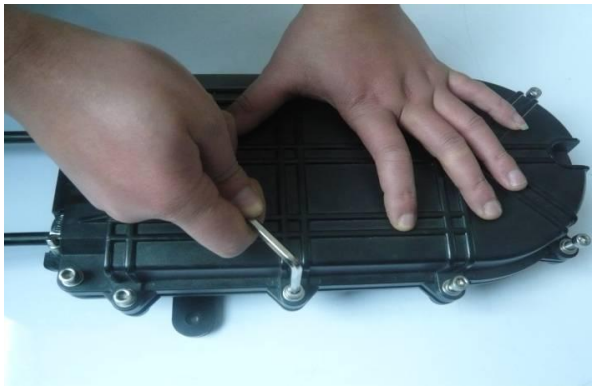
12. Insert the plugs into the unused cable guides ensuring a good seal.



13. Install the sealing gasket onto the housing cover.



14. Ensure good alignment of the cover onto the housing and secure with screws using the hex key. Do not over tighten.



15. For aerial mounting, install the aerial mounting brackets on to the the securing screws on the side of the housing.