Installation Instructions for Slimbox 2 Fiber Indoor/Outdoor Enclosure

7/11/2018

This document describes the Assembly Instructions for the SlimBox-V, Indoor/Outdoor Enclosure – 2 fiber.

1. Products

The equipment is used as a termination point for the feeder cable to connect with the drop cable in a FTTx network.   The fiber splicing, splitting, distribution can be done in the enclsoure and provides a solid protection and management for the FTTx network.

Features:
- Total enclosed structure.
- Material: PC+ABS, water resistant, dust-proof, IP55
- Clamping for feeder cable and drop cable, fiber splicing, storage, and distribution.
- Cable, pigtails,patch cords individual pathways without disturbing adjacent fibers
- Easy Access to feeder cable by raising the distribution panel
- Suitable for both Outdoor and Indoor usge

2. Specifications

- Environmental Requirement

| Working Temperature	-40˚ C to + 60˚ C
Relative Humidity	≤ 85% (+30˚C)
Atmospheric Pressure	70 Kpa ˜ 106 Kpa

- Electrical Requirement

- The grounding device is isolated with the cabinet, isolation resistance is less than $1000M\Omega/500V$ (DC); IR≥ $1000M\Omega/500V$
- The withstand voltage between grounding device and cabinet is not less than 3000V (DC)/minute, no puncture and no flashover; U ≥ 3000V

Configuration Table

Parameter	
Dimension (HxWxD)	320 X 240 X 100 mm
Color	Light Gray
Material	Plastic (PC + ABS)
Adapter Type	SC or LC Duplex that fits SC footprint
No of Adapters	8 (LC Duplex that fits SC footprint)
Splitter Type	Nx 2, Nx4 and Nx8
No. of Splitters	Max. 2 (N x 2, N x 4 and N x 8)
Capacity	Max 2
IP Grade	IP 55 (Outdoor)
Mount	Wall Mount
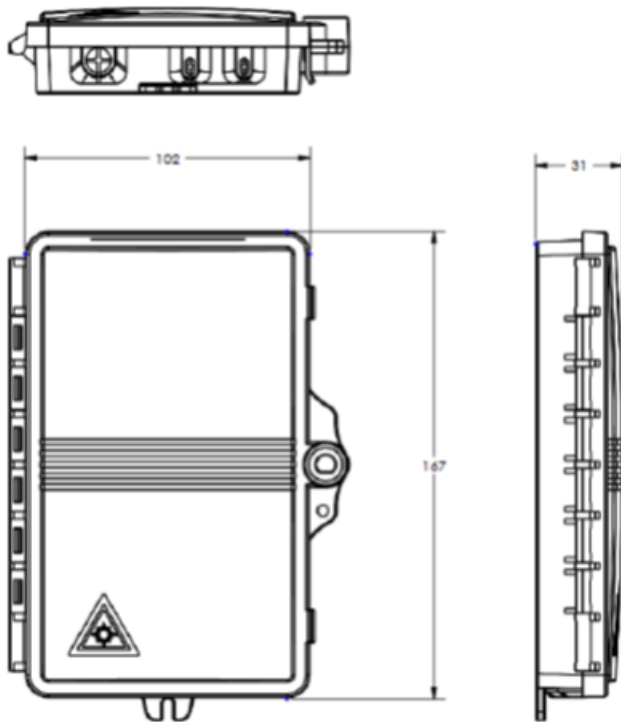
3. Product Structure and Cable Entry

Pigtail

Pigtail Entry to Splice Tray

Adapter Port

Lid

Splice Tray flip plate
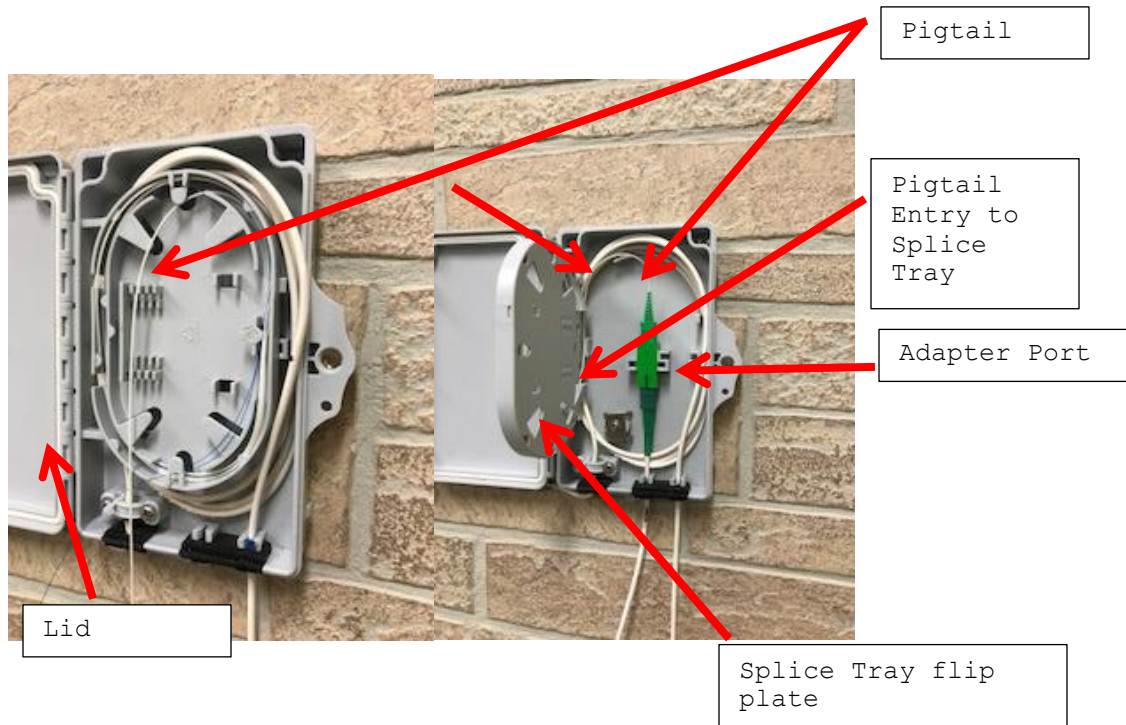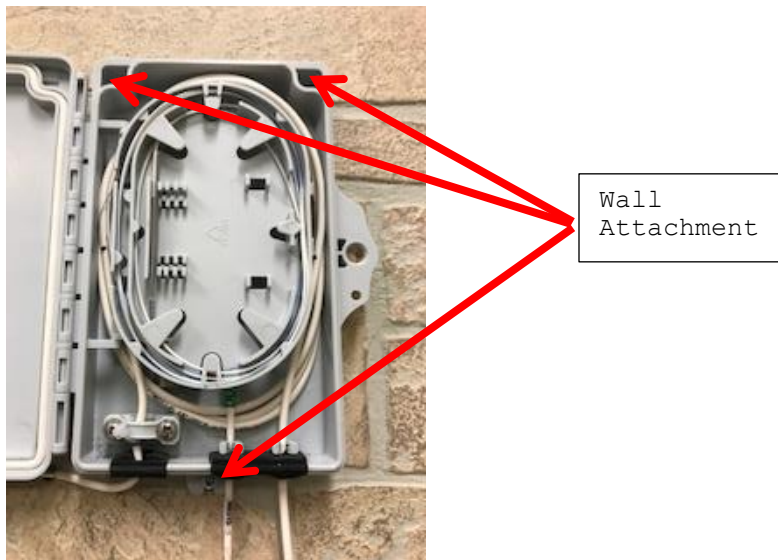
4. Enclosure Installation and drop cable attachment

1. Start by opening the accessories package and find the mounting screws included in the product packaging. Mount the enclosure to the wall with the thress screws shown in the photo.

Wall Attachment

2. Attach the Indoor/Outdoor cable to the wall with EZ Cable Clip Shark Tooth Anchors. Place one of the anchors close to the enclosure to provide strain relief.
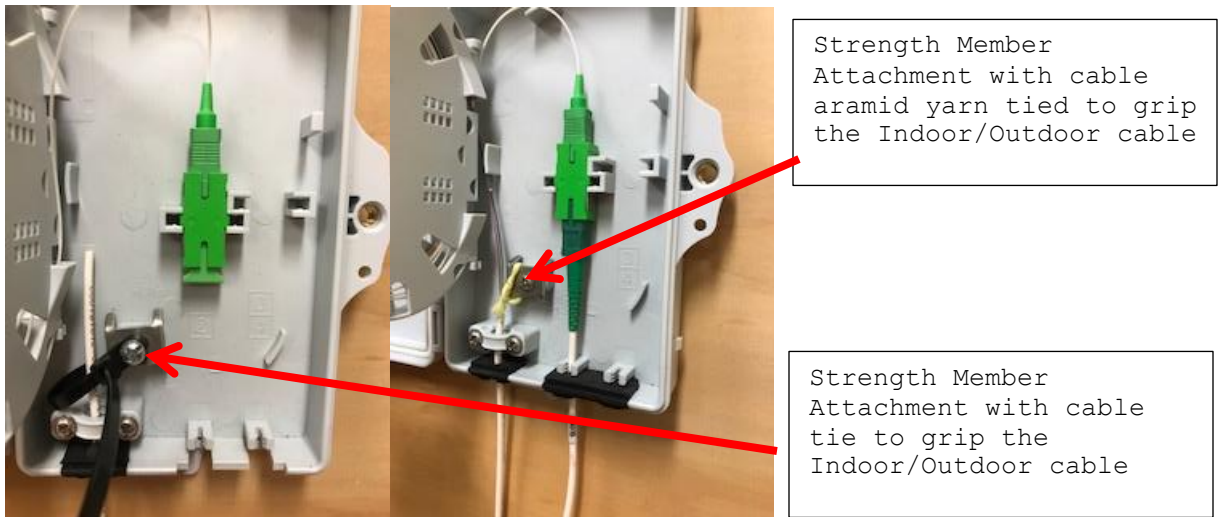

Anchor Placement

3. Remove both grommets by sliding forward and notch through the base of the grommet for the cable and drops to enter the enclosure. Run the cable through the opening on the left and through the cable bracket. The Indoor/Outdoor cable is smaller than the bracket and can be held in place with a cable tie included in the accessory package. Place two wraps of cable inside the base. Exit the cable on the far right and the drop will be installed in the left side drop port opening. When doing a mid-span cable the cable exits from one of the drop ports. The exit end of the cable is pressed into the plastic drop grip at the base of the enclosure. Move to step 5.

4. If terminating the cable into the unit during an indoor or outdoor application the cable enters in the cable port. The cable can be attached in the enclosure by capturing the aramid yarn or capturing the cable with a eyelet cable tie that is secured with the screw in the strength member clamp. Prep the cable and cut the aramid yarn. Tie off the aramid yarn on the strength member clamp shown in diagram above. The cable can also be attached using a cable tie attached in the screw port of the strength member clamp shown below. Strength member clamp used to capture the strength member if an Outside Plant Cable is used see step 8.

Strength Member Attachment with cable aramid yarn tied to grip the Indoor/Outdoor cable

Strength Member Attachment with cable tie to grip the Indoor/Outdoor cable

5. Route the drop cables through the grommet ports and attach the connectorized end (SCU, SCA, LCU or LCA) into the adapters. Match the adapter number with the appropriate cable number.

6. Mark the loop of the Indoor/Outdoor cable at the middle of the flip tray. Release the two loops of cable and open the cable with the Jonard tool for 3.0 mm cable OD. The opening will be 20.5 inches in order to remove the specified fiber that will connect the drop. The fiber is then routed to the splice tray from the rear of the tray at the top opening. Three loops may be required and opening the cable 50 inches dependent on how close the fusion splicing machine can be positioned.

7. Pigtails may be ordered with the enclosure or ordered separately. When ordered with the enclosure they will already be attached to the adapter on the base and the excess fiber routed through the flip tray port at the rear of the splice tray and stored in the front of the splice tray. If ordered separately then attach the pigtail to the adapter. The pigtail fiber ends will need to be routed from the rear of the flip tray bottom port opening to the front of the flip tray and prepared for splicing.
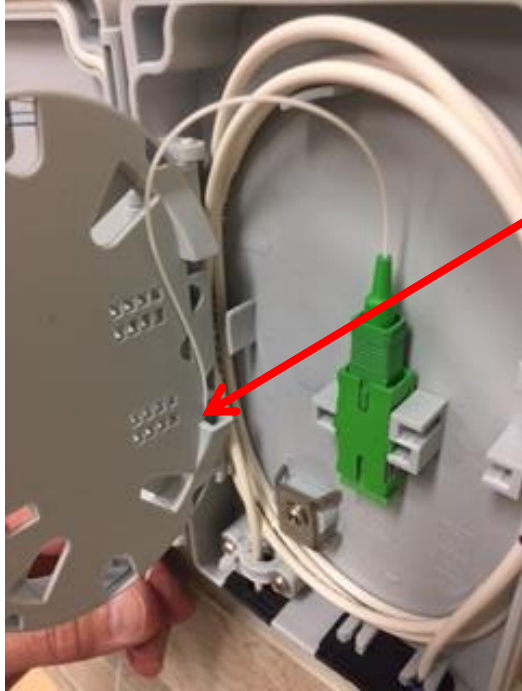
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Pigtail placement on the
bottom rear of the flip
tray and is then routed
counter clockwise on the
front of tray.  Pigtail
length can be cut
dependent on access to
the fusion splicing
equipment
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8. When using Outside Plant cable route the cable into the bottom left hand corner of the base and attached inside the bracket at the base of the enclosure by removing the two screws and re-installing the clamp and two screws. The cable is prepped with 38 inches of exposed unit tube that is routed in the base of the enclosure and routed to the opening of the flip tray. The unit tube that will be spliced is prepped 20.5 inches to expose the fiber that will be spliced to the pigtail. Once the fusion splice is completed the splice sleeve is installed on the flip tray and the pigtail is routed counter clockwise and the unit tube is routed clockwise on the splice flip tray. Attach the protective plastic cover upon completing splicing.

Splitter holder

Attachment of Outside Plant Cable or Indoor/Outdoor Cable
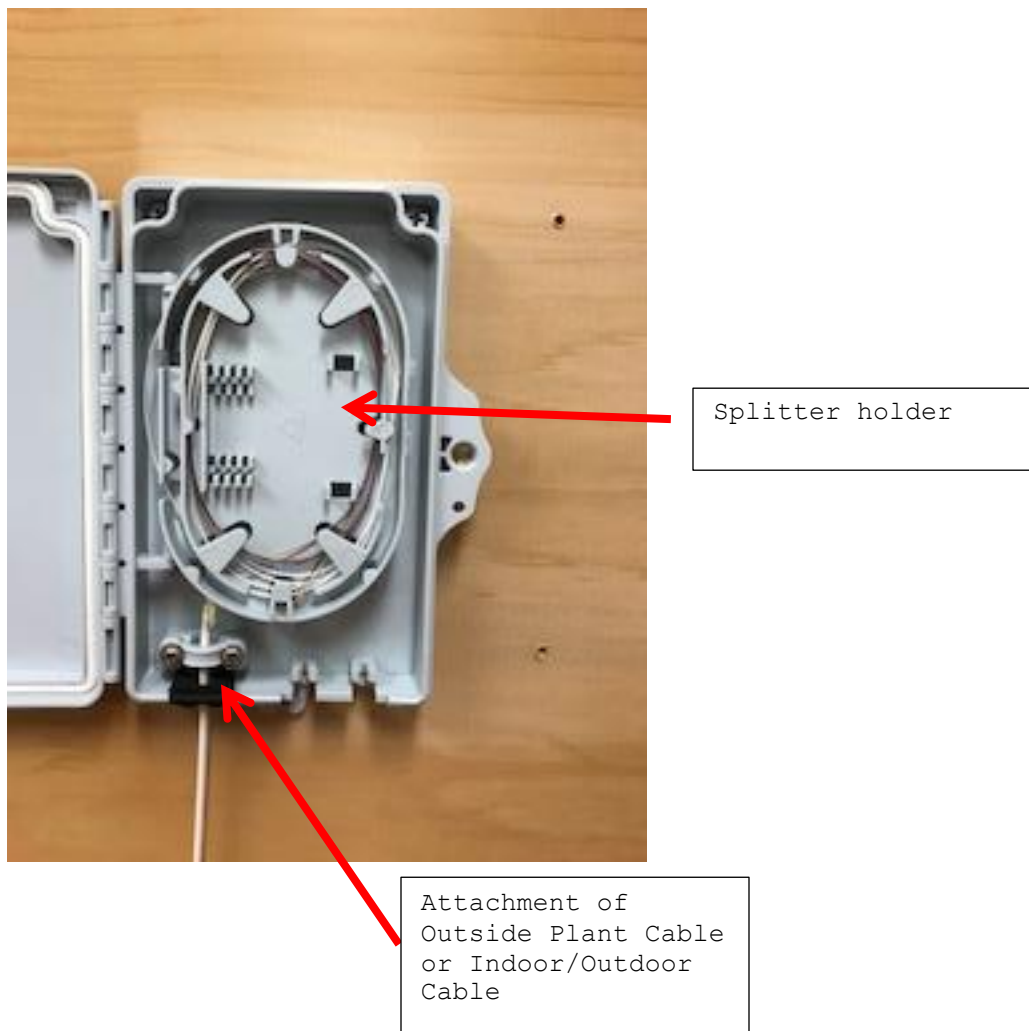
5. Splitter Installation

1. Attach the splitter on the top right side of the splice flip tray.

2. The excess fiber will be stored in the fiber management on the top of the flip tray.

3. If the splitter output and inputs are to be spliced to pigtails attach the pigtail connector on the base of the enclosure through the adapter to the connector of the drop lead. Then take the ends from the base of the flip tray to the rear of the tray. Take the splitter output leads and splice the respective pigtail to the splitter output fiber.

4. The input fiber from the splitter will be spliced on the splice flip tray to the specified fiber in the incoming feeder cable.

5. Store the splice protectors and slack in the left hand side of the splice flip tray.

6. Record the connection information and place in the inside cover of the enclosure.

7. Close the cover and attach to the base making sure not to pinch fibers and cable. To reopen utilize the cam wrench to open the lock and a screwdriver to release the latches.

Fiber Management

Splitter Placement