



Optical Distribution Box 300 Installation Guide

IMPORTANT INSTRUCTIONS

When using fiber optic equipment, basic precautions should always be followed to reduce the risk of injury to persons, including the following:

Read and understand all instructions.

1. Follow all warning and instructions marked on the product.
2. Laser light can be visible or invisible and can cause serious eye injury.

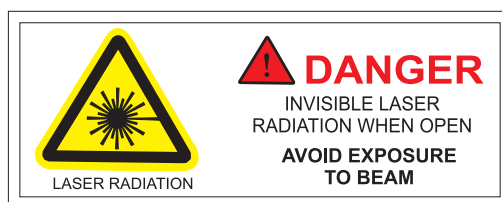
Do not look directly into the end of a fiber optic connector.

Do not look directly into the end of a fiber optic adapter having a fiber optic connector.

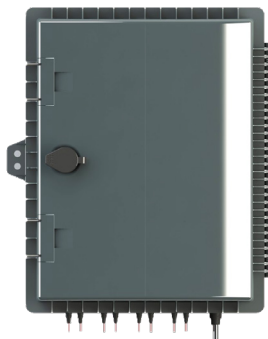
3. Install dust caps or plugs onto unused fiber optic connectors or non-shuttered fiber optic adapters.

Use an optical power meter to verify active fibers as necessary.

SAVE THESE INSTRUCTIONS



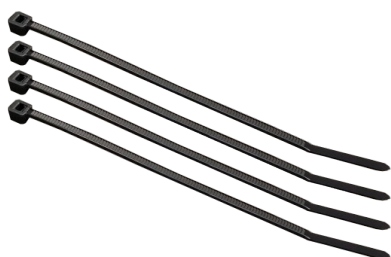
Contents of the Box



Optical Distribution Box



Splice Protection Sleeve



**Cable Tie 2.5 x 80mm
x 8 nos.**

**Cable Ties 2.5 x 100mm
x 8 nos.**



**Wallmount Anchors Triple Grip,
8 X 40 ,WA**



**Sheet Metal Screw PHP Steel Ni
Plated, 8 x 2.5" PHPS02**

General Information

48 port

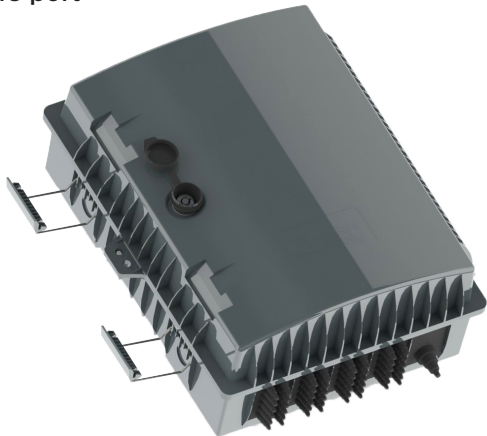


Fig 1.1

- 1.3. The splitter holder can hold a maximum of 2 numbers of 2x16 PLC or 1 number 2x32.
- 1.4. The box can house up to a maximum of 12 fiber adaptors.
- 1.5. The cable entries are located both at the top and bottom of the base allowing the CO incoming fiber cable and Customer cables to enter and exit the device.

- 1.1. This installation note provides the description and installation steps for the 48/96 Port Indoor / Outdoor Optical Distribution.

This product is designed to combine optical splitting and the distribution of optical signals to the customer premise.

- 1.2. The unit is furnished complete with splice cassette mounted on the base, swing tray with adaptor plate, splitter holder, cable management spools, fiber adaptors, PLC splitters, pigtails and accessories.

96 Port Side-by-Side configurations

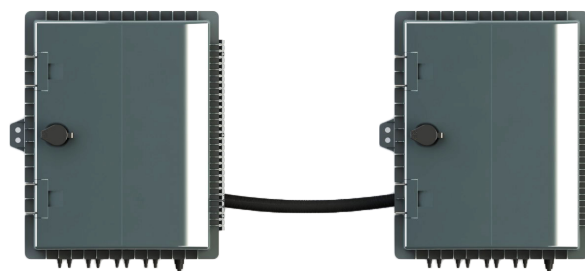


Fig 1.2

Product Description

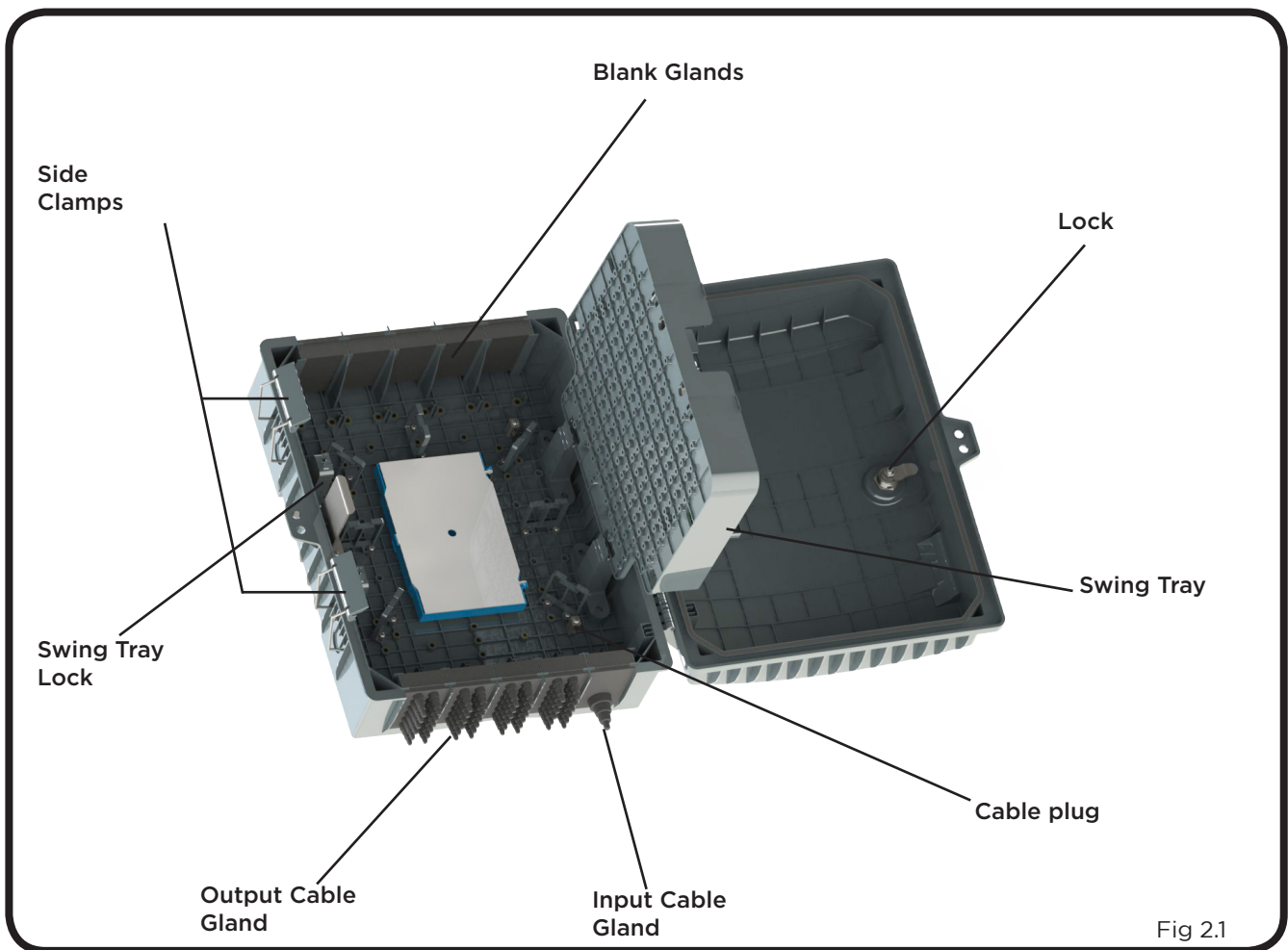


Fig 2.1

2.1. The ODB is furnished complete with accessories and requires no special tools for installation or maintenance. A 8 mm Hex Key with hole is required for opening and closing the door.

2.2. Molded of a very durable rugged plastic that is designed for indoor / outdoor use, the ODB is provided with a right side hinge door. The outer door has provision for a lock and is covered with a dust cap to prevent the ingress of dust and water.

The door is held closed with a lock for security purpose and two side clamps to secure the door.

2.3. By default the entry and exit grommet are placed on bottom of the ODB and the replaceable blank grommets on top

2.4. The base is equipped with cable clamps for securing incoming and outgoing fiber optic cables.

2.5. Cable plug for securing the central strength member is provided for the incoming fiber optic cable.

2.6. The ODB can support various types of PLC splitters namely N x 2, N x 4, N x 8, N x 16 or N x 32 with the desired connector (LC / SC) on output end and bare fiber input on other end.

Installation

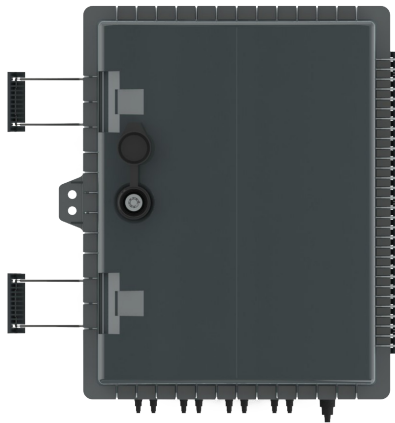


Fig 3.1

- 3.3. Place the wall mounting template on the wall and mark the mounting positions.
- 3.4. Internal mounting holes are provided for surface mounting. Mount the ODB to the wall using the appropriate tools and using the supplied wall mount kit.

- 3.1. Remove the unit from the carton and inspect it carefully for damage.
- 3.2. Open the unit by opening the dust cap and the door clamps. Rotate the key clockwise to release the lock.

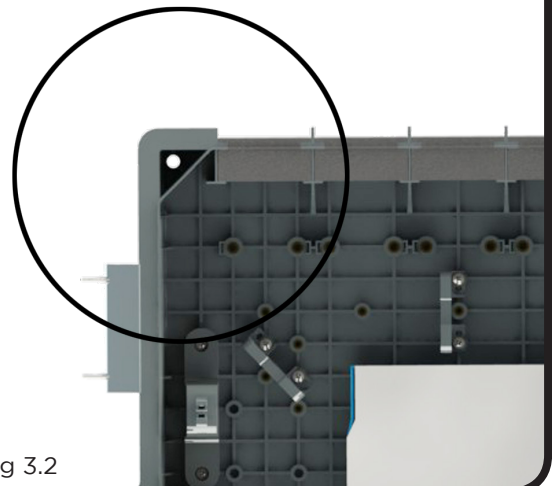


Fig 3.2

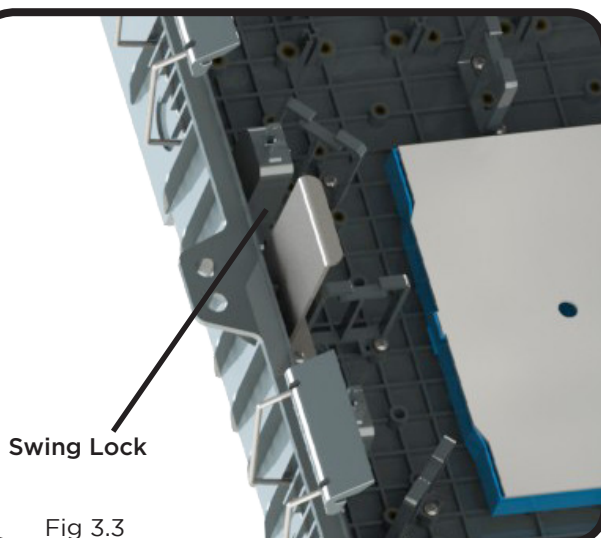
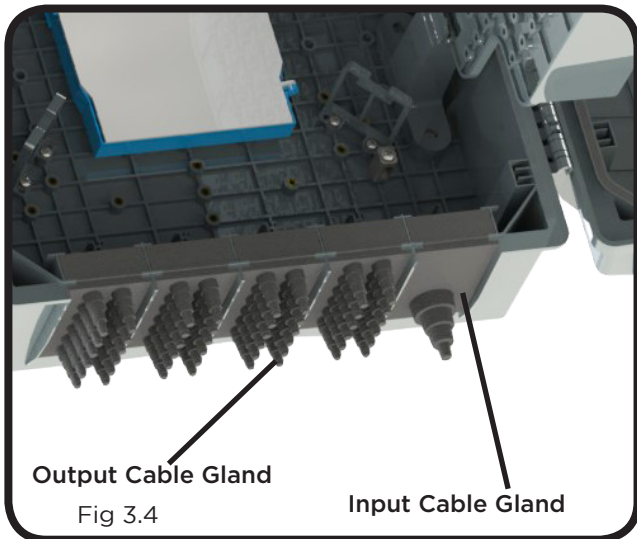


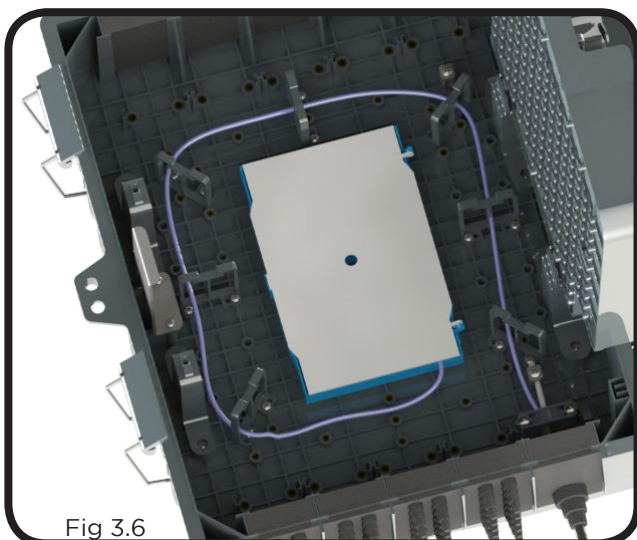
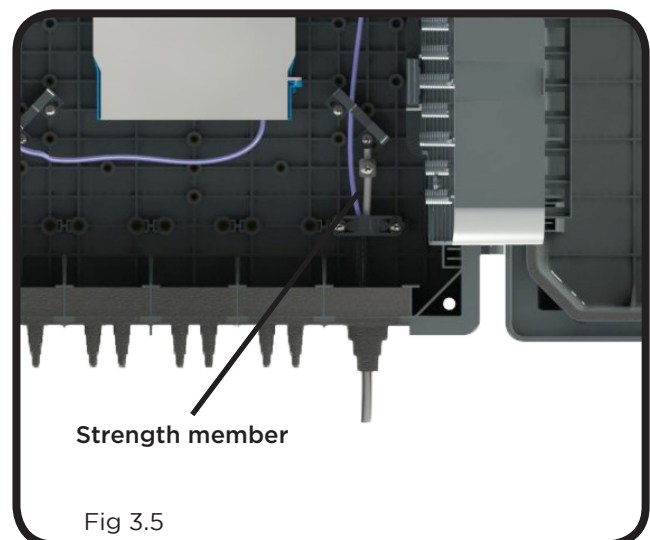
Fig 3.3

- 3.5. You are now ready to place the CO and Drop fiber cable into the enclosure and prepare for wiring.
- 3.6. Release the swing tray by pulling it from the swing lock.

Installation



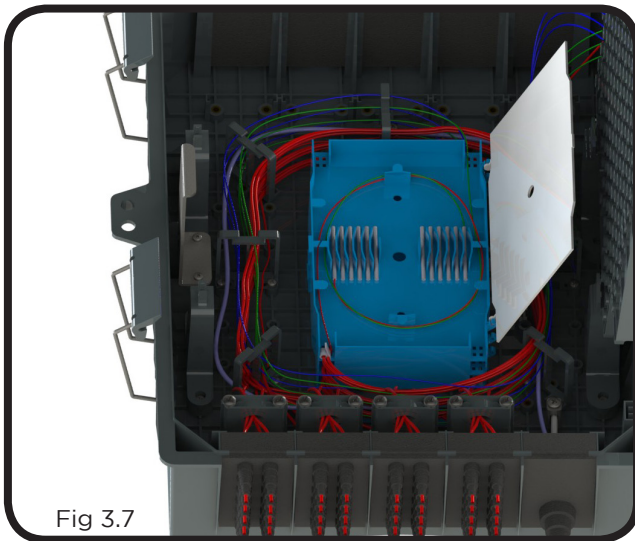
- 3.9. Cut grommet at position based on the type and size of the cable using the knife and guides the incoming fiber through the grommet. Secure the strength member to the cable plug. The jacket can be further secured with the cable clamps provided. Secure the cable to the grommet using the (provided) black cable tie.



- 3.7. Route the Central Office (CO) fiber optic cable into the ODB through the right grommet on the bottom of the ODB.
- 3.8. Strip the fiber cable jacket depending on the desired excess length to be stored exposing the loose tubes. A minimum of two meters is advisable. The minimum length of the central strength member / Kevlar / glass yarn has to be 50mm.

- 3.10. Route the loose tube fiber through the cable routers in an anti-clockwise direction to store the extra length. The bottom most splice cassette shall be use for the incoming fibers.
- 3.11. Place the loose tubes into the cassette and using a marker measure 60mm on the tube from the edge of the cassette.

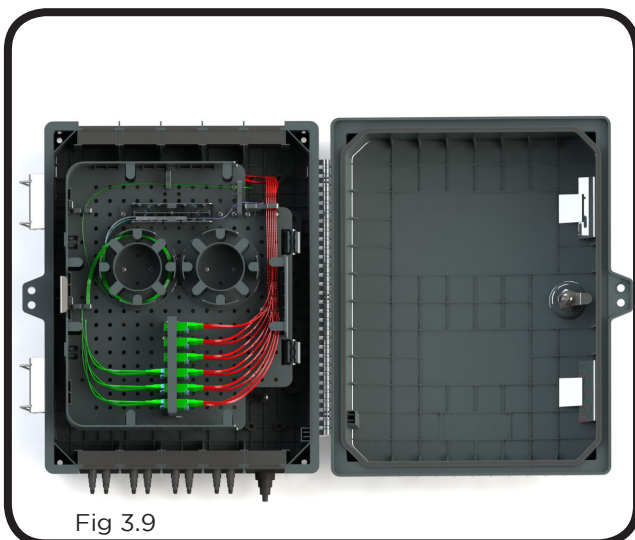
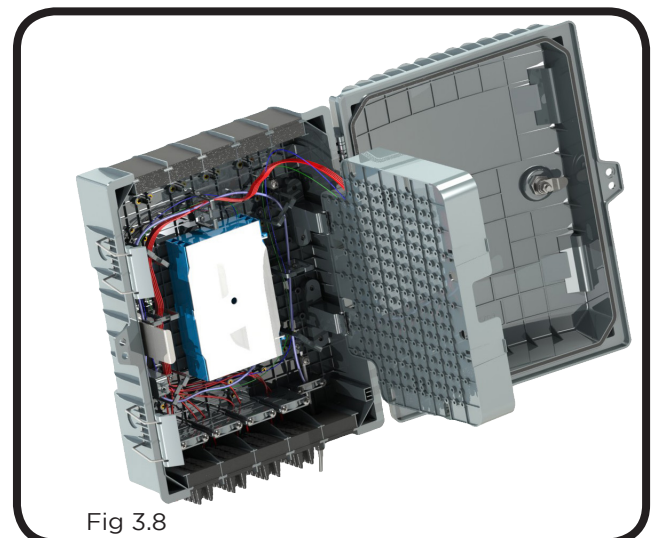
Installation



3.12. Strip the cable from the 60mm mark exposing the 250 micron fibers. Clean the fibers to remove the gel.

3.13. Secure the tubes with the cable ties and then route the 250 micron fiber inside the cassette.

3.14. Splice the incoming fiber to the input of the splitter or to the pigtails using the fusion splicing method.



3.15. For pre-connectorized outgoing fiber cables, cut grommet at position based on the type and size of the cable using knife and insert the LC/SC connector by pressing the clip. Secure the cable to the grommet using the (provided) black cable tie. Secure the fiber cables using the rubber plugs and fasten the cable clamp. Route the cables through the cable routers to the swing tray as shown. Connect the pre-connectorized fiber cables to the other end of the adaptor.

Installation



**Grommet with
steps for 17, 12,
9 & 4mm cable**

Fig 3.10

- 3.18. Pull the desired length of outgoing cable as required.
- 3.19. The outgoing cable jacket can be further secured with the cable clamps and the rubber plugs provided. Secure the clamp by tightening the screws. Check if the drop cable is secured and that it does not slip from the cable clamp.

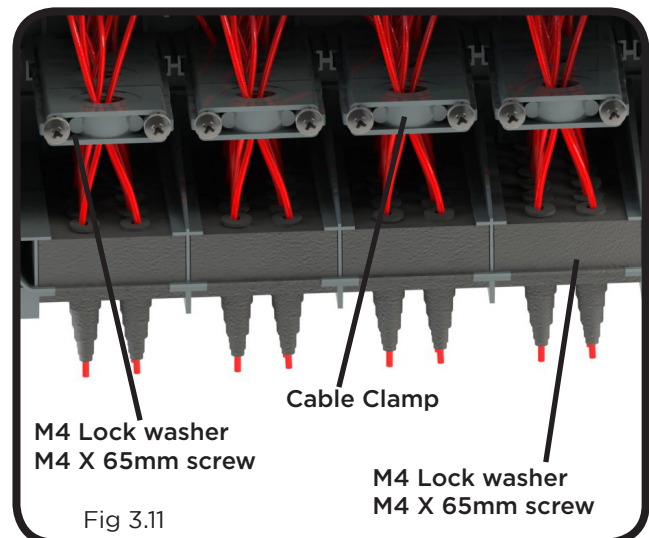


Fig 3.11

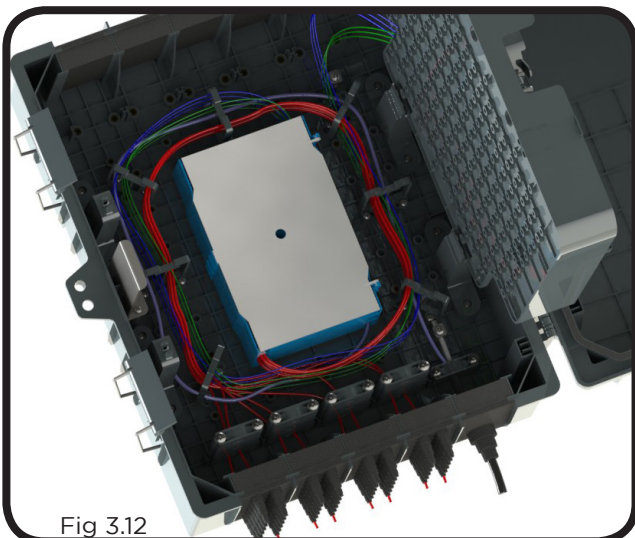
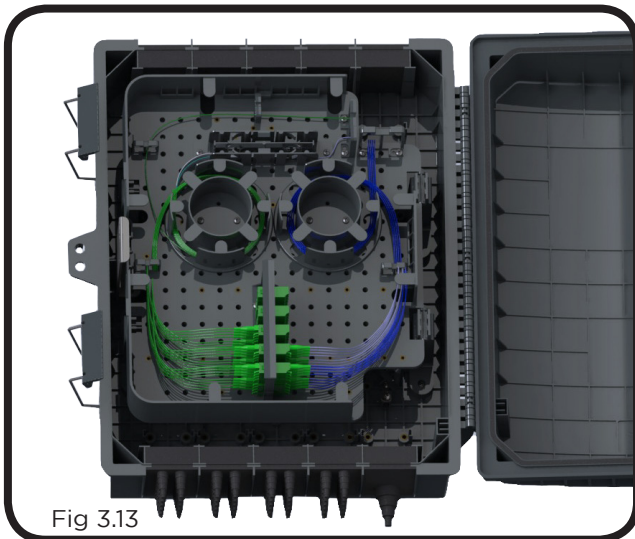


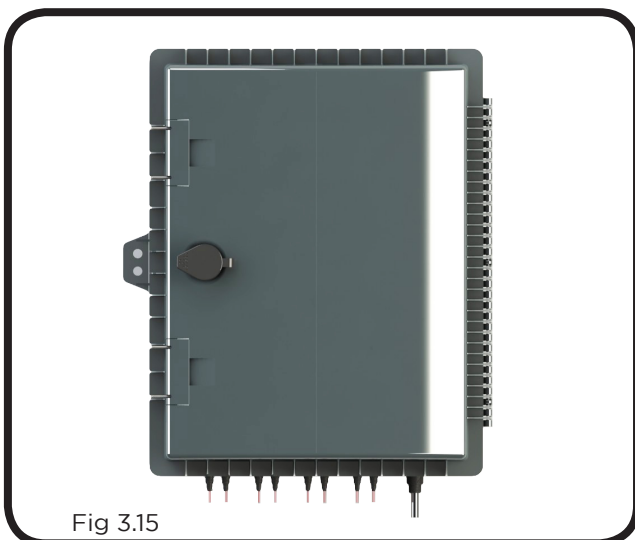
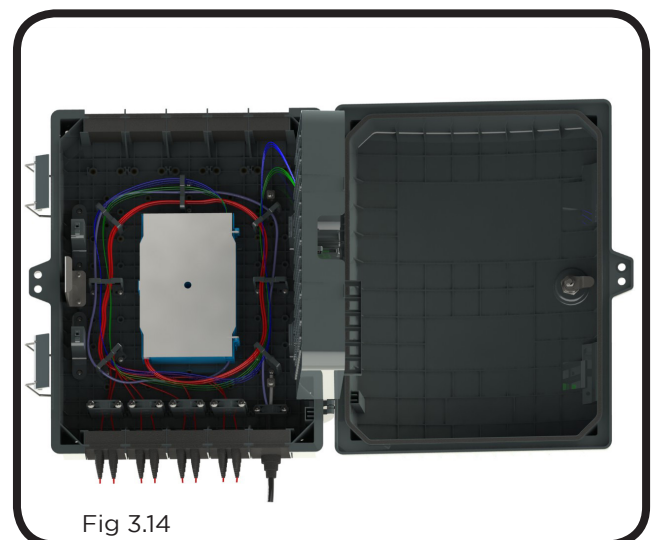
Fig 3.12

- 3.20. Wrap the excess fiber clockwise through the fiber guides located at the base of the ODB and direct the fibers to the bottom left entry of the splice cassettes (2nd & 3rd) located at the base of the ODB.

Installation



3.23. Inspect the connection following by the recommended fiber testing procedures either using an OTDR or the Light Source Power Meter.



3.21. Strip the fiber jacket exposing the bare fiber before entering into the cassette.

3.22. Connect the LC or SC pigtails to the adaptor and route the pigtails inside the spool on the swing tray and take the desired length to the top right entry of the splice cassettes (2nd & 3rd) located at the base of the ODB. Use the spiral wrap to protect the fibers while routing to the base.

3.24. Close and secure the cover by closing the side clamps and rotate the key anti clockwise.

