

MTWB INSTALLATION GUIDE

Description

The MTWB is designed for use on the inside or outside wall of a Multi Dwelling Unit (MDU) or Multi Occupancy unit (MOU).

The unit acts as a distribution point, serving up to 16 customers from a single input cable.

Fibres from the input cable are spliced to fibres from the customer connection cables. 4 splice trays allow fibre management for up to 48 fibres.

The unit can hold a splitter and 16 pre-connectorised customer outputs.

The input cable is retained by using the GRP restraint and the cable secured with ties.

Tools Required

Tools:

Large Screwdriver, File, Pilers, Torque Wrench with 5mm Allen key bit

| | |
|---|---------------|
| 1 Entry Port Kit | Qty 1 |
| 2 Through Port Kit | Qty 1 |
| 3 Pull Back Cable Output Ports | Qty 4 |
| 4 Customer Premises cable Ports (top and bottom) | Qty 16 |
| 5 12 IFDP Installation Kit | Qty 1 |

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 - b. Cable Gland Entry for Pass Through Cable
2. Cable Input Installation
3. Routing of Fibre Inputs
4. Routing of Fibre Outputs & Splicing
5. Pre-Connectorised Drop
6. Installation of Splitter

1.0 BOX PREPARATION AND MOUNTING

a. CABLE GLAND ENTRY FOR MLT & FLEXTUBE

Step 1



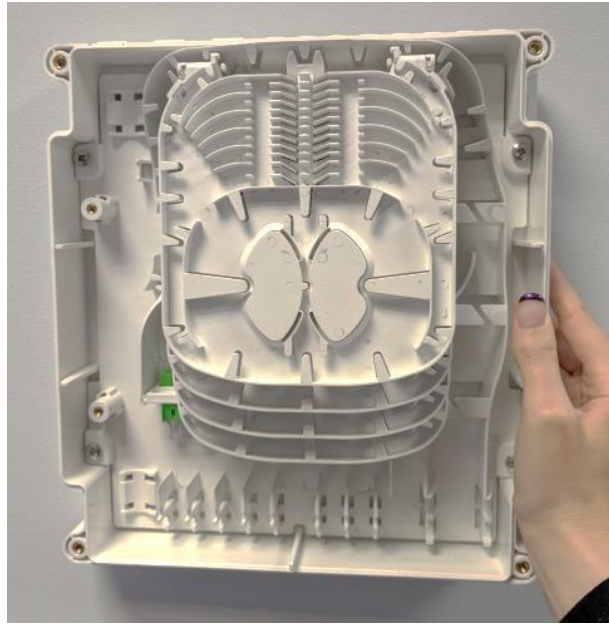
- Remove the cover from the MTWB box.
- Carefully knock out the cable entry port on the left-hand side of the base. Take care to support the base when doing this.

Note: Remove all rough edges with a file.

1.0 BOX PREPARATION AND MOUNTING

a. CABLE GLAND ENTRY FOR MLT & FLEXTUBE

Step 2



- Offer Base up to wall, level and mark 4 screw positions.
- Remove Base and drill marked positions using a 6mm drill bit.
- Insert wall plugs.
- Re-locate box to wall and screw into place with screws.

Note – Use suitable alternative wall fixing plugs if necessary to suit wall material or construction.

1.0 BOX PREPARATION AND MOUNTING

a. CABLE GLAND ENTRY FOR MLT & FLEXTUBE

Step 3



- Fit 'O' Seal over Cable Gland and into annular recess in hexagonal face.
- Push Cable Gland through previously knocked out cable entry port so that 'O' Seal sits against outside face of Base.
- Fit Locknut and tighten against inside face of Base to secure.

b. CABLE GLAND ENTRY FOR PASS THROUGH

Step 4



- Follow steps 1-2 from Section 1 a.
- Carefully knock out the cable exit port at the top of the left-hand side of the base. Take care to support the base when doing this.
- Remove entry and exit port cut outs using suitable hacksaw.

Note: Remove all rough edges with a file.

b. CABLE GLAND ENTRY FOR PASS THROUGH

Step 5



- Fit the port cover plate to both entry and exit positions to the cable and slide into position.
- Secure pass-through cable into position using 2x cable ties at entry and exit.

b. CABLE GLAND ENTRY FOR PASS THROUGH

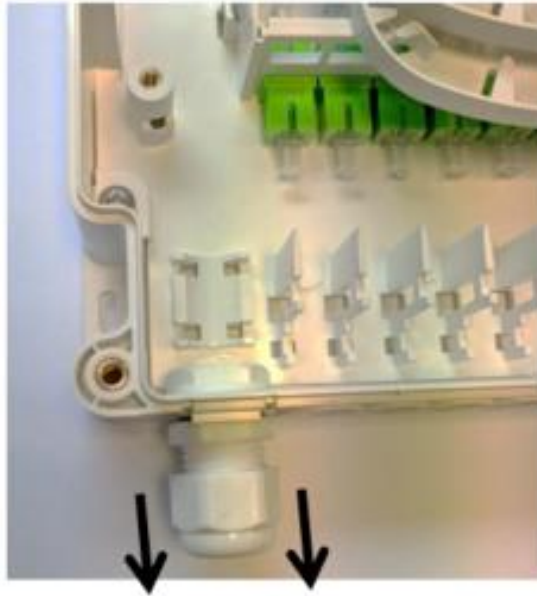
Step 6



Note: A window will now be cut into the pass-through cable using approved practises and routed as preferred.

2.0 CABLE INPUT INSTALLATION

Step 1



- Loosen the external gland nut and push through the cable.
- Strip cable back in accordance with approved practices.

2.0 CABLE INPUT INSTALLATION

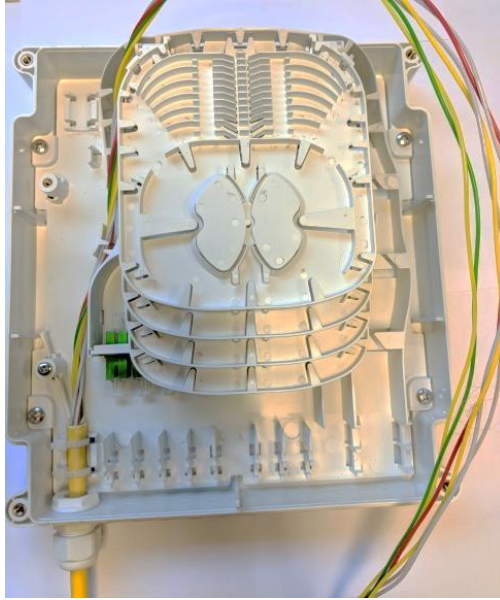
Step 2



- **For MLT Cable**, carefully cut the GRP back to 50mm.
- Insert the GRP into the slot as shown and secure M4 screw until it bottoms out.
- Cable ties the cable in 2 positions as shown.
- Place a mark as shown on the loose tubes 130mm from cable butt.
- **For Flextube cable**, cable tie the cable in 2 positions as shown.
- Place a mark as shown on the flex tubes 130mm from cable butt.

2.0 CABLE INPUT INSTALLATION

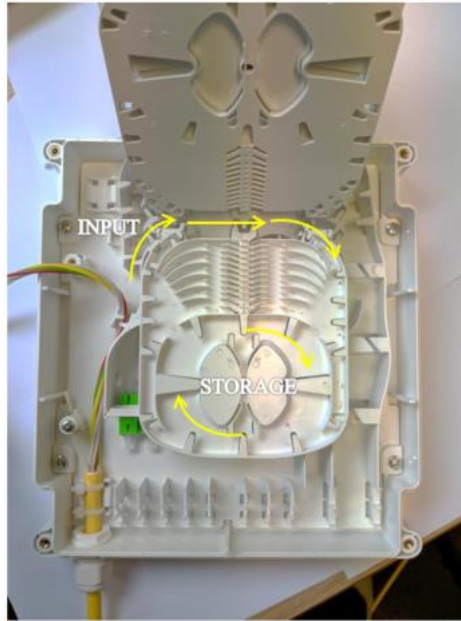
Step 3



- **For MLT and Flextube Cable,** Strip back to fibres in accordance with approved practices to the mark on the tubes.
- Secure the tubes into the track as shown.

3.0 ROUTING OF FIBRE INPUTS

Step 1



- Starting on the bottom tray route all input fibres up the left-hand side of the track.
- Route all fibres on to tray; ensure the fibres are correctly retained in the rear hinge area.
- Store the fibres in splice tray storage area.

3.0 ROUTING OF FIBRE INPUTS

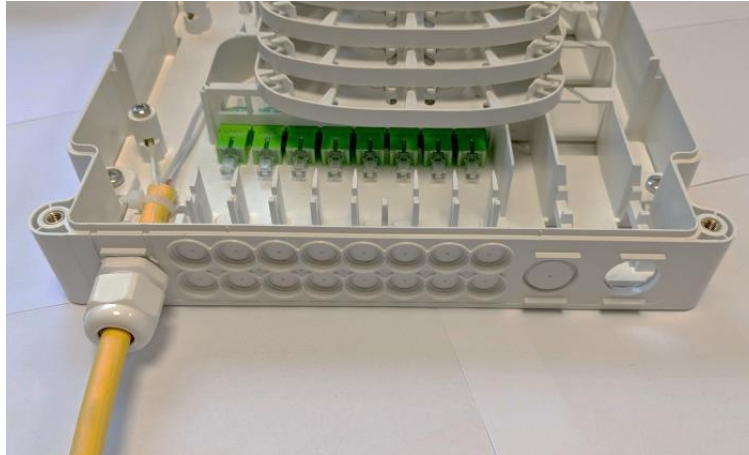
Step 2

GO TO RELEVANT CABLE OUTPUT SECTION

- If splicing to cable, see routing in Section 4.0
- If splicing to pre-connectorised drop see routing in Section 5.0
- If splicing to splitter see routing in Section 6.0

4.0 ROUTING OF FIBRE OUTPUTS & SPLICING

Step 1



- Carefully knock out the cable entry port on the right-hand side of the base. Take care to support the base when doing this.

Note: Remove all rough edges with a file.

4.0 ROUTING OF FIBRE OUTPUTS & SPLICING

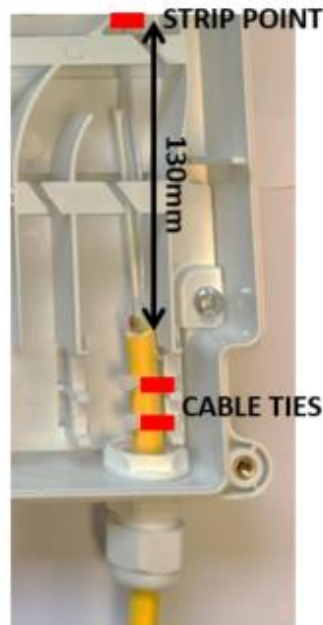
Step 2



- Fit 'O' Seal over Cable Gland and into annular recess in hexagonal face.
- Push Cable Gland through previously knocked out cable entry port so that 'O' Seal sits against outside face of Base.
- Fit Locknut and tighten against inside face of Base to secure.

4.0 ROUTING OF FIBRE OUTPUTS & SPLICING

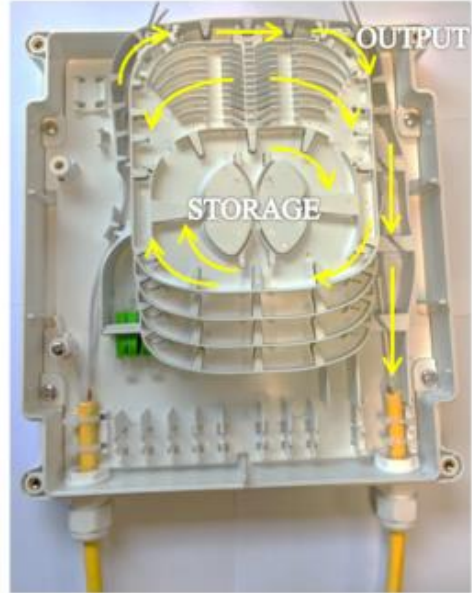
Step 3



- Loosen the external gland nut and push through the cable.
- Strip cable back in accordance with approved practices.
- Cable ties the cable in 2 positions as shown.
- Place a mark as shown on the tubes 130mm from cable butt.
- Strip back to fibres in accordance with approved practices to the mark on the tubes.
- Secure the tubes into the track as shown.

4.0 ROUTING OF FIBRE OUTPUTS & SPLICING

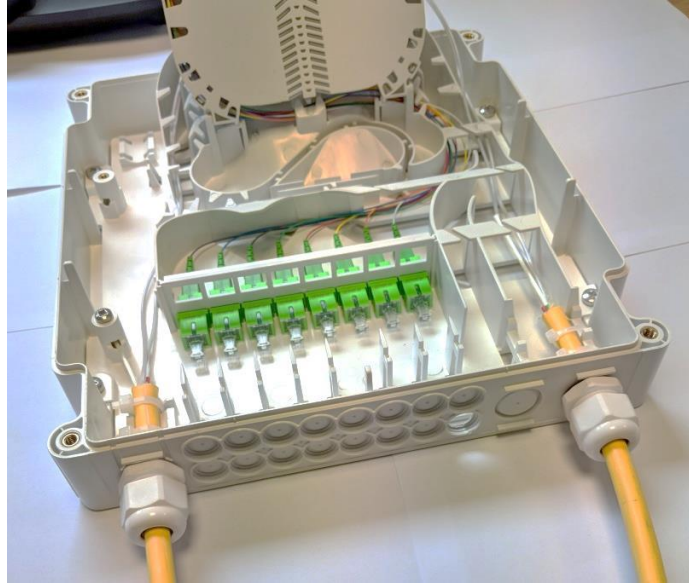
Step 4



- Starting on the bottom tray route all output fibres up the right-hand side of the track.
- Route all fibres on to the tray; ensure the fibres are correctly retained in the rear hinge area.
- Splice the input and output fibres in accordance with approved practises and store correctly in the splice bay and storage area of tray.

5.0 PRE-CONNECTORISED DROP

Step 1

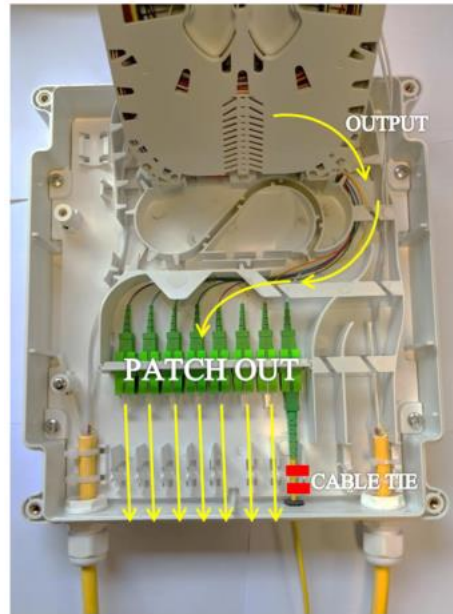


- Carefully knock out relevant patch cord entry port on the bottom of the base. Take care to support the base when doing this.
- Repeat for all drops to be connected.

Note: Remove all rough edges with a file.

5.0 PRE-CONNECTORISED DROP

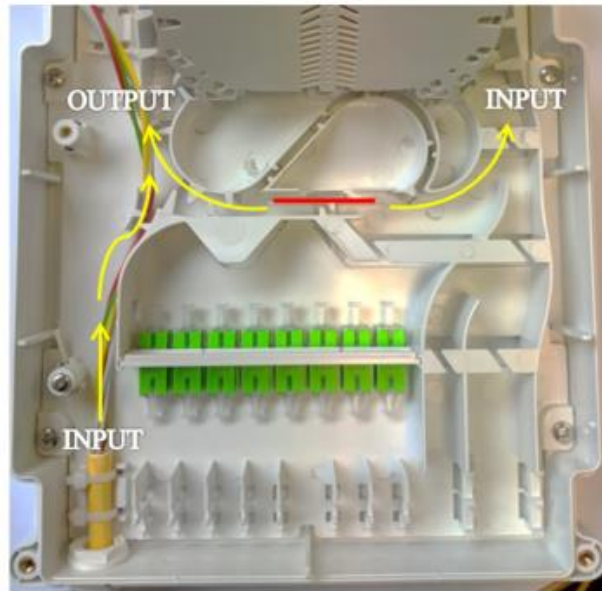
Step 2



- Feed the cable into the grommet and push into port as shown.
- Remove dust caps and plug in connectors into the adapters.
- Cable ties the cable in 2 positions as shown.
- Plug in pigtails and route all fibres on to the tray; ensure the fibres are correctly retained in the rear hinge area.
- Splice the input and output fibres in accordance with approved practises and store correctly in the splice bay and storage area of tray.

6.0 INSTALLATION OF SPLITTER

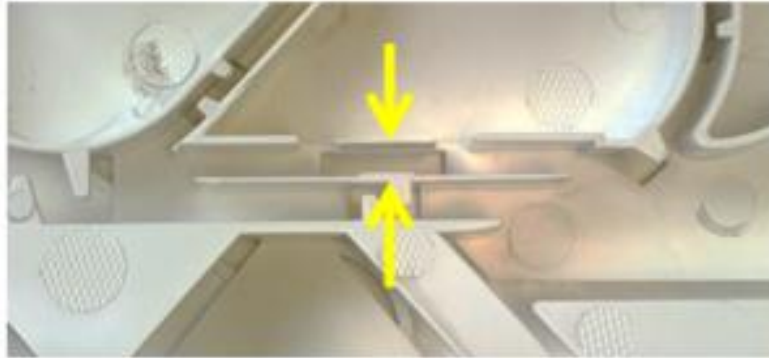
Step 1



- Locate the splitter to be installed.
- Using the top slot beneath the fibre routing area push the splitter into place.
- Route the splitter fibres around the tracks and onto the trays in the directions as shown.

6.0 INSTALLATION OF SPLITTER

Step 2



- Ensure the splitter is pushed to the base of the insert.
- The splitter should be securely held back behind these clips.
- Go To Section 1 cable installation and Section 2 fibre routing for splicing onto the tray.