Prysmian Group

INSTALLATION INSTRUCTION

MTWB INSTALLATION GUIDE

Description	Tools Required

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:
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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4. Routing of Fibre Outputs & Splicing

5. Pre-Connectorised Drop

6. Installation of Splitter

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1.0 BOX PREPARATION AND MOUNTING
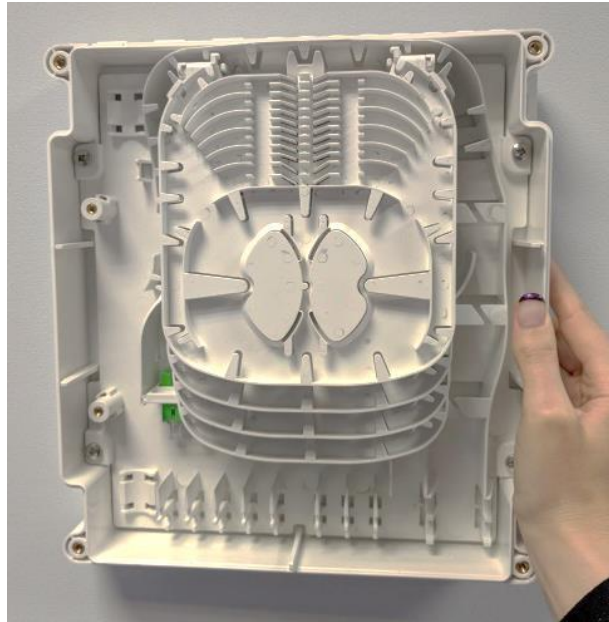### a. CABLE GLAND ENTRY FOR MLT & FLEXTUBE

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.
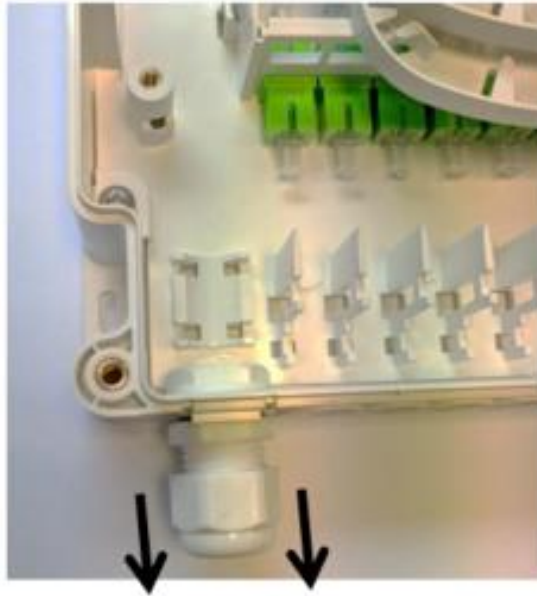
b. CABLE GLAND ENTRY FOR PASS THROUGH

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.
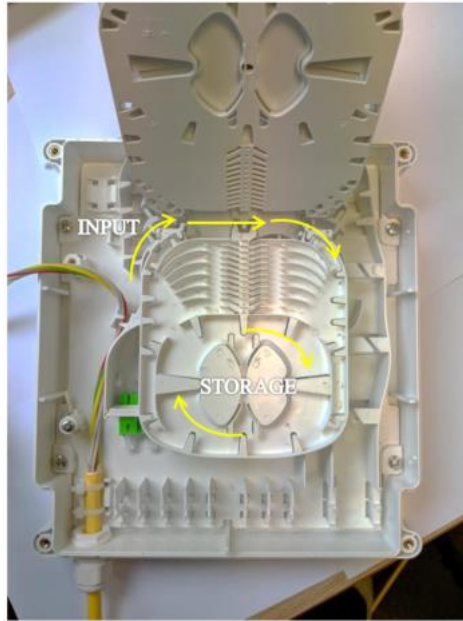
2.0 CABLE INPUT INSTALLATION

Step 3
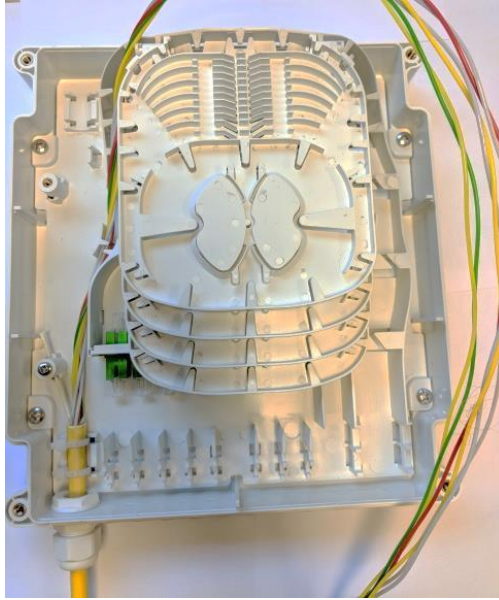
- **For MLT and Flextube Cable,** Strip back to fibres in accordance with approved practices to the mark on the tubes.

- 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.
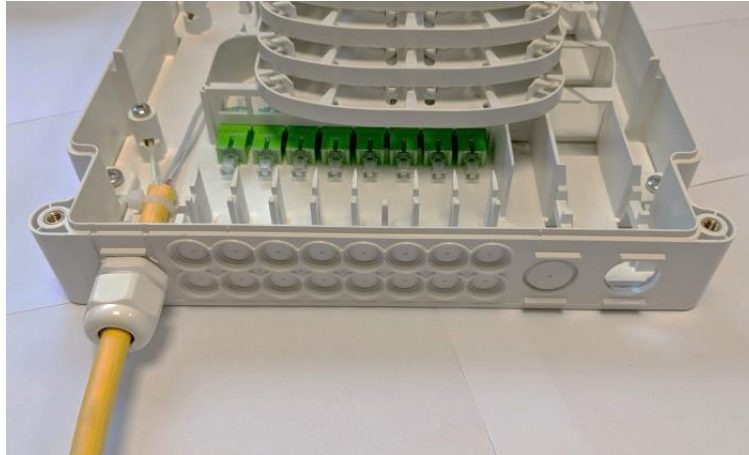
3.0 ROUTING OF FIBRE INPUTS

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.
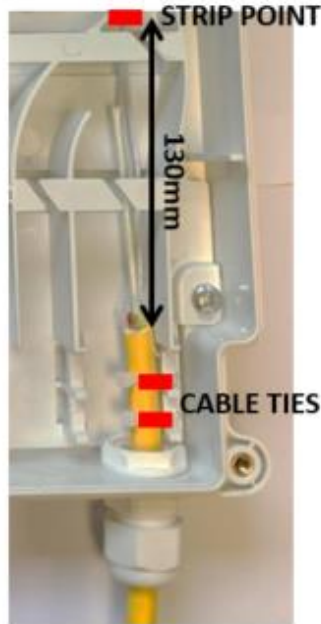
4.0 ROUTING OF FIBRE OUTPUTS & SPLICING

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
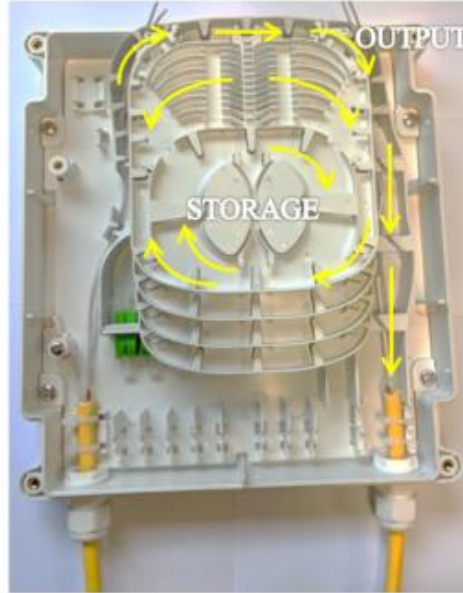
- Starting on the bottom tray route all output fibres up the right-hand side of the track.

- 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
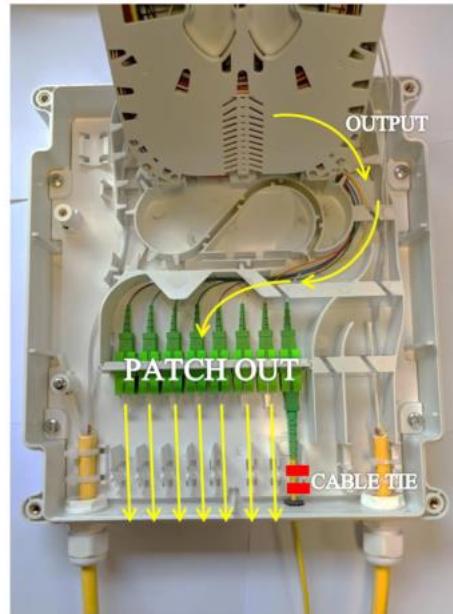
Step 1
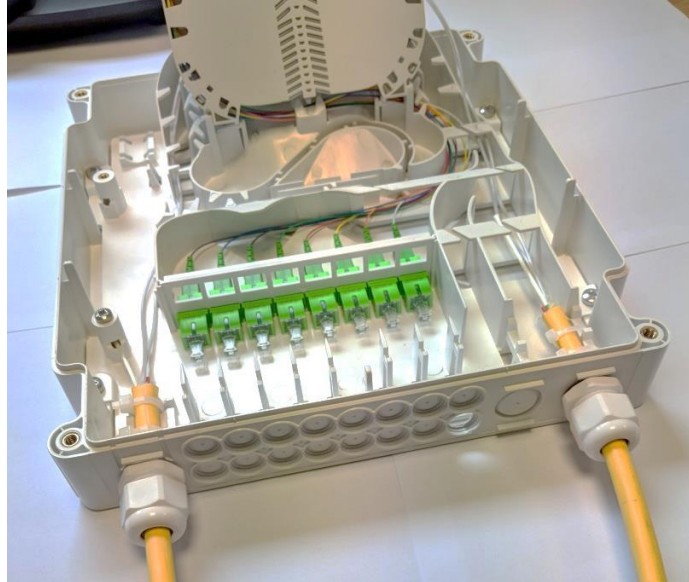
- Carefully knock out relevant patch cord entry port on the bottom of the base. Take care to support the base when doing this.

- 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.
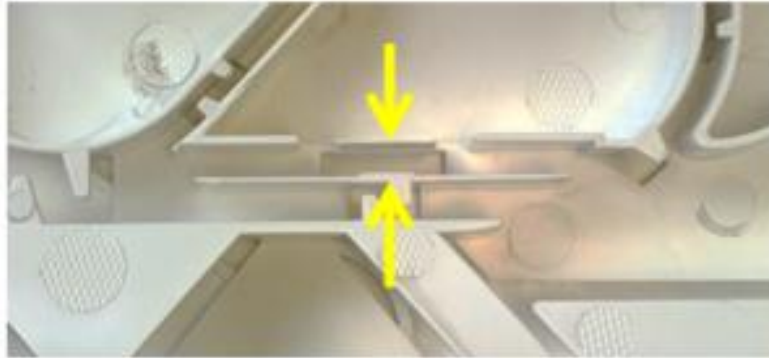
6.0 INSTALLATION OF SPLITTER

Step 1
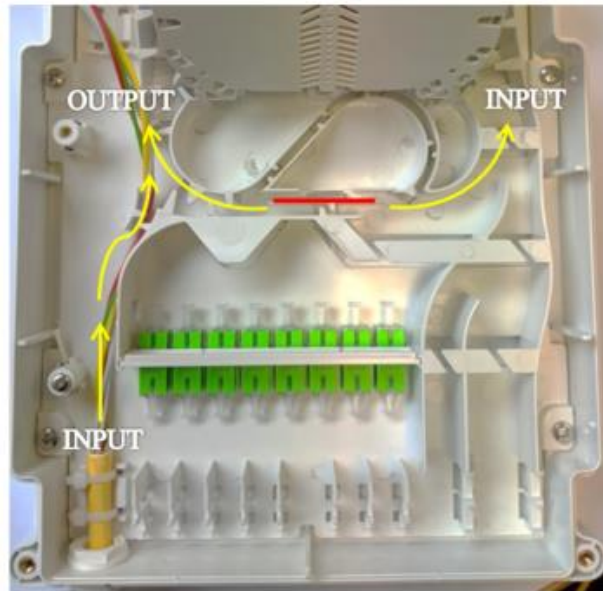
- Locate the splitter to be installed.

- 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.