INSTALLATION INSTRUCTION

OAsys® INTERNAL PLANT

MDU FTTP BASEMENT SPLICING BOX (NON-SPLITTER)

Part Number: XCPSC05303, XCPSC05304 and XCPSC05305

Description

The MDU FTTP Basement Splicing Box is used in multi dwelling units (MDU's) to provide FTTP or Ethernet services to up to 30 end user units.

The box is designed to accept, and gas block a cable entering the MDU from the external network and distribute fibres to end user units.

Tools & Additional Items Required

Additional Items Required:	**Prysmian Part No.**
N/A	

Optional Items:	**Prysmian Part No.**
Security Screws	XAGSC00476

Tools:
HZ Closure Sealant 10B Compound
Flush Cutting Tool — XPFSC00150
Pozidrive Screwdriver, Hammer, Cable Stripping tools, Fibre Stripping tools, drill, 6mm drill bit.

Component Parts (pictures not to scale)

1 MDU Basement Box
Qty 1

2 Cable Gland Kit
Qty 1

3 Stepped Output Grommet
Qty 6

4 GRP Restraint w/ Grub Screw
Qty 1

5 Port Kit
Qty 1

Other

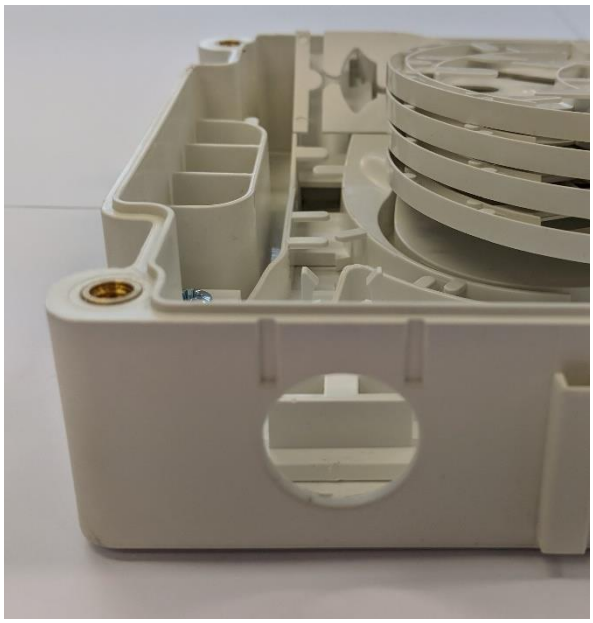
6. Screw	**Qty 4**
7. Cable Tie	**Qty 7**
8. Screw	**Qty 4**
9. Wall Plug	**Qty 4**

Additional Items – NOT INCLUDED
Kevlar Restraint Kit

CONTENTS

1.0 BOX PREPARTION AND MOUNTING

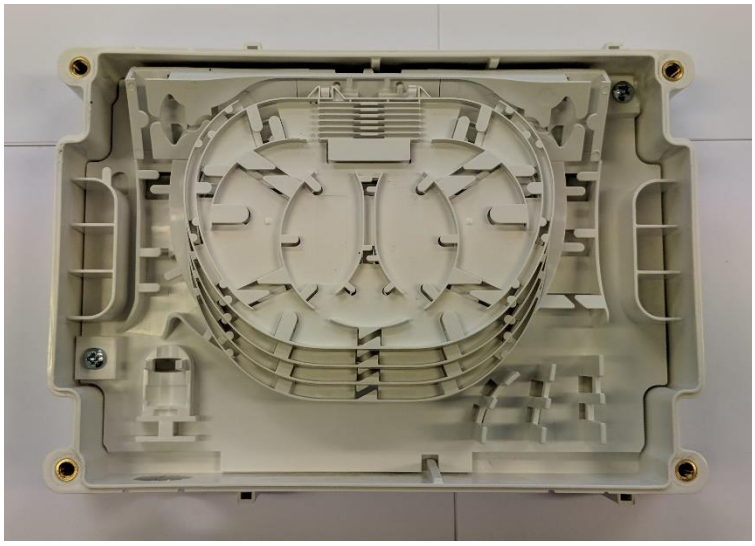
Step 1



- Remove the cover from the Basement 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.

1.0 BOX PREPARTION AND MOUNTING

Step 2

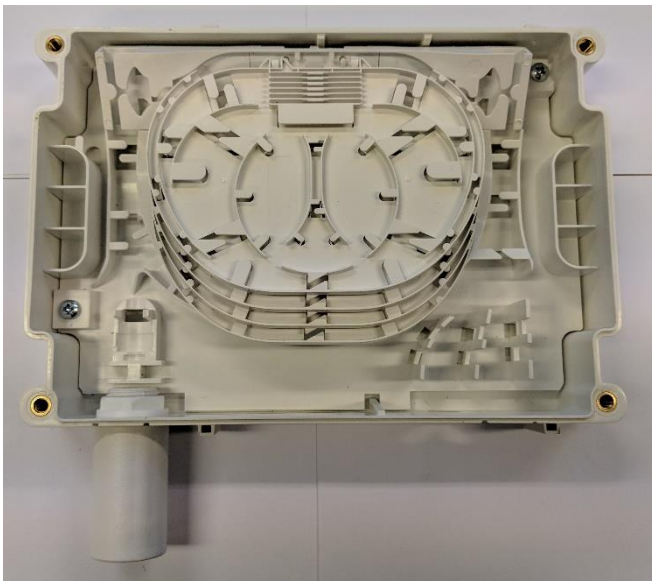


- Offer Base up to wall, level and mark 4 screw positions.
- Remove Base and drill marked positions using a 6mm drill bit.
- Insert wall plugs.
- Re-locate box to wall and screw into place with screws.

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

2.0 INSTALLATION OF MLT INPUT CABLE

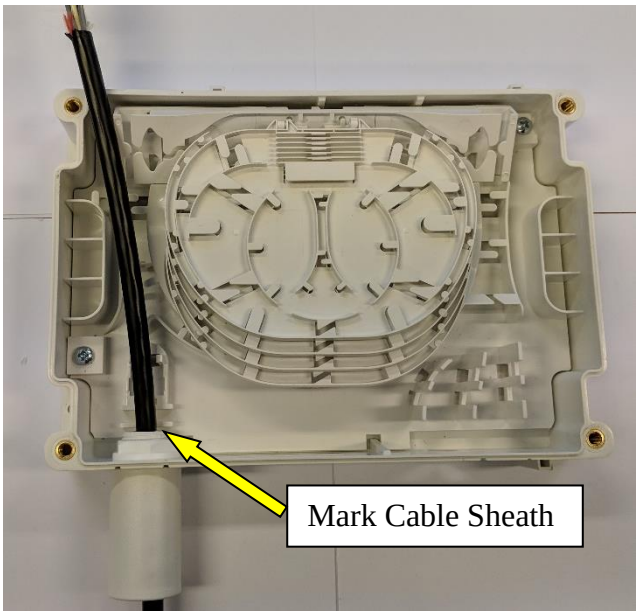
Step 1



- Fit ‘O’ Seal over the thread of the port gland.
- Insert the 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.

2.0 INSTALLATION MLT INPUT CABLE

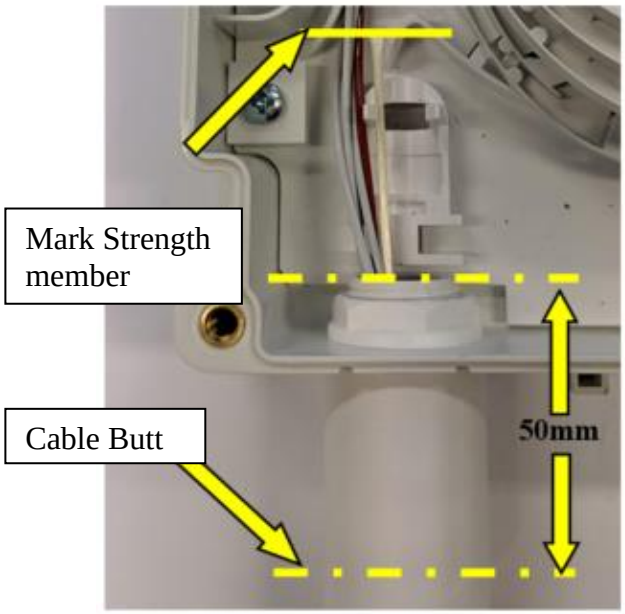
Step 2



- Install approximately 2m of cable into gas sealing port.
- Mark the cable sheath at a point level with the top of the gas sealing port.
- Follow the local practices to strip the cable sheath at a point 50mm below the mark made in the previous step.
- Cut all dummy fillers, water swellable tape, rip cords and aramid bindings level with the cable butt.

2.0 INSTALLATION OF MLT INPUT CABLE

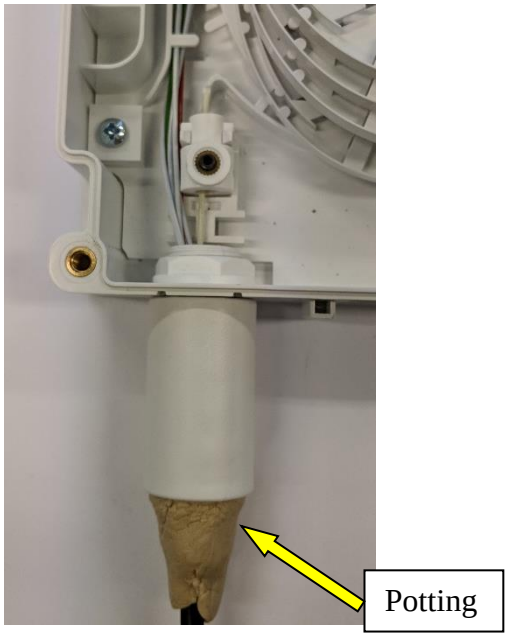
Step 3



- Align the cable so that the cable butt is positioned 50mm below the top of the port.
- Mark and cut the strength member at a position just above the strength member restraint.
- Install the strength member into the restraint so it protrudes just above the top of the restraint and tighten the grub screw. Make sure the cable butt is positioned approximately 50mm below the top of the port.
- If necessary, the restraint can be unclipped to help with the strength member installation.

2.0 INSTALLATION OF MLT INPUT CABLE

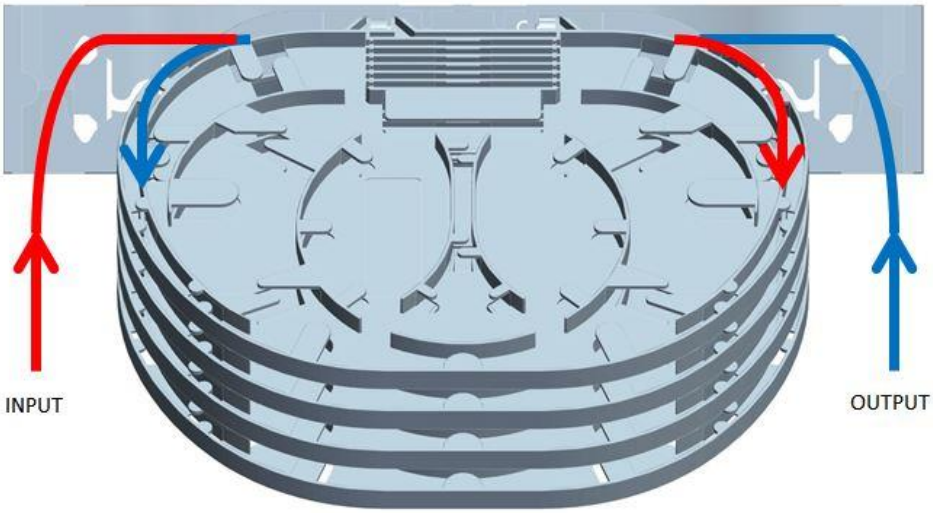
Step 4



- If the port needs to be sealed, use local practices. The compound 16 can be used to block the end of port.

2.0 INSTALLATION OF MLT INPUT CABLE

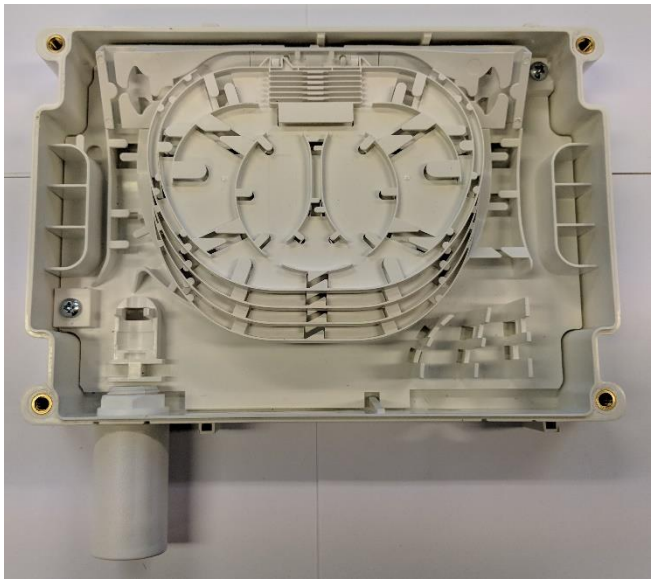
Step 5



- Route fibres as shown.
- 12 fibres from element 1 to be routed to the bottom tray first (tray 1).
- 12 fibres from element 2 to be routed to the middle bottom tray next (tray 2).
- 12 fibres from element 3 to be routed to the middle top tray next (tray 3).
- 12 fibres from element 4 to be routed to the top tray last (tray 4).

3.0 INSTALLATION OF ULW INPUT CABLE

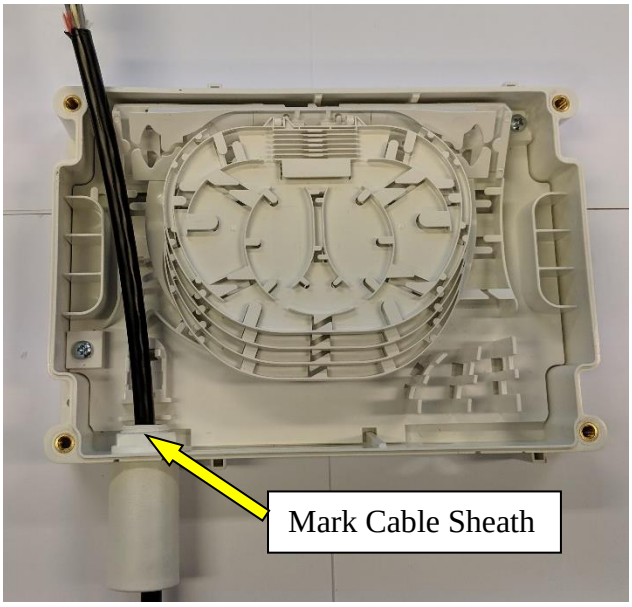
Step 1



- Fit ‘O’ Seal over the thread of the port gland.
- Insert the 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.

3.0 INSTALLATION OF ULW INPUT CABLE

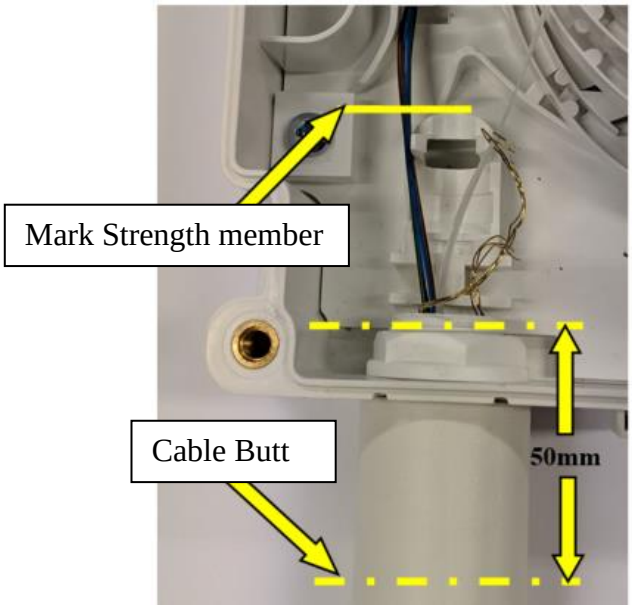
Step 2



- Install approximately 2m of cable into the port.
- Mark the cable sheath at a point level with the top of the port.
- Follow the local striping practices to strip the cable sheath at a point 50mm below the mark made in the previous step.
- Cut all dummy fillers, water swellable tape, rip cords and aramid bindings level with the cable butt.

3.0 INSTALLATION OF ULW INPUT CABLE

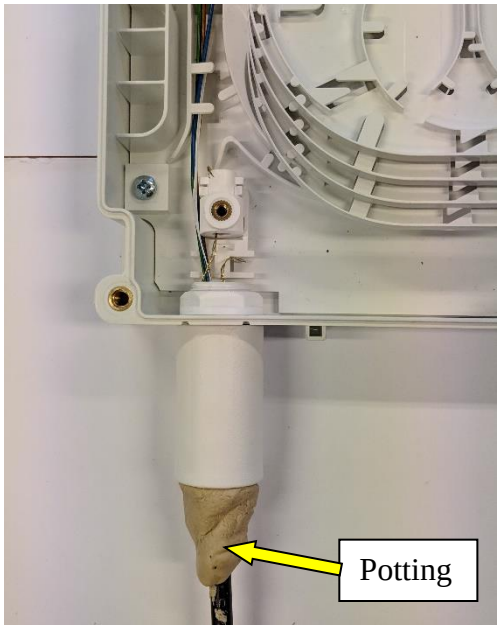
Step 3



- Align the cable so that the cable butt is positioned 50mm below the top of the port.
- Mark and cut the strength member at a position just above the strength member restraint.
- Install the strength member into the restraint so it protrudes just above the top of the restraint and tighten the grub screw. Make sure the cable butt is positioned approximately 50mm below the top of the port.
- If necessary, the restraint can be unclipped to help with the strength member installation.

3.0 INSTALLATION OF ULW INPUT CABLE

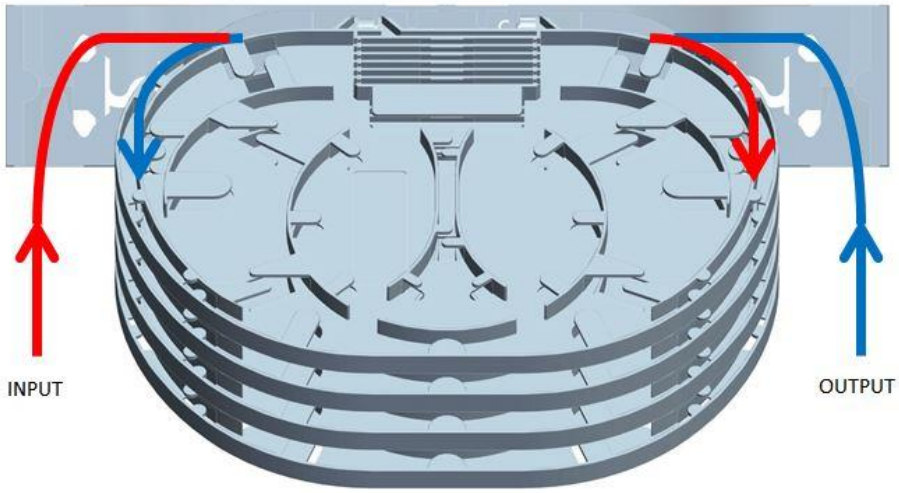
Step 4



- If the port needs to be sealed, use local practices. The compound 16 can be used to block the end of port.

3.0 INSTALLATION OF ULW INPUT CABLE

Step 5



- Route fibres as shown.
- 12 fibres from element 1 to be routed to the bottom tray first (tray 1).
- 12 fibres from element 2 to be routed to the middle bottom tray next (tray 2).
- 12 fibres from element 3 to be routed to the middle top tray next (tray 3).
- 12 fibres from element 4 to be routed to the top tray last (tray 4).

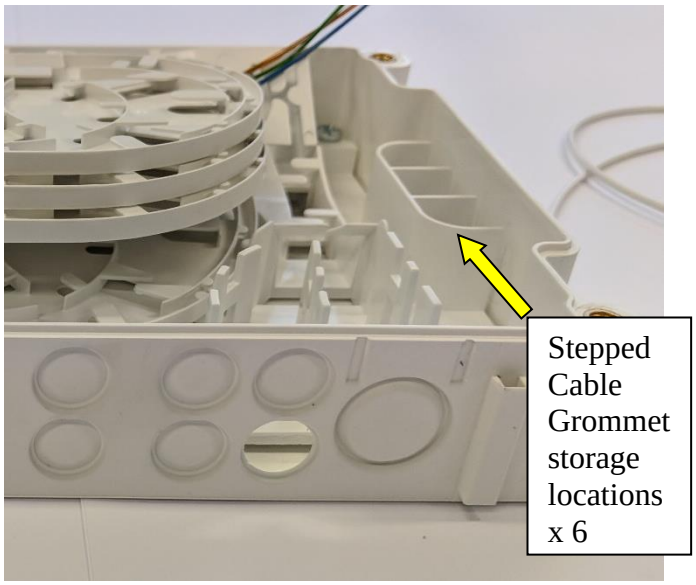
4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

Step 1

- The basement box is now ready to accept the installation and fibre routing of the output cables. The 10 small ports will each accept the cable with a diameter of 3-6mm.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

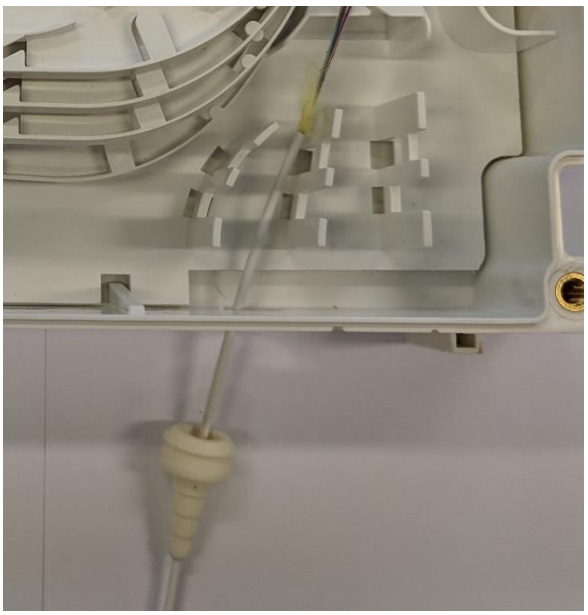
Step 2



- Carefully knockout the first Output Fibre Gland Port.
- Cut the Stepped Cable Grommet at the correct mark (matching the cable diameter) using a Flush Cutting tool.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

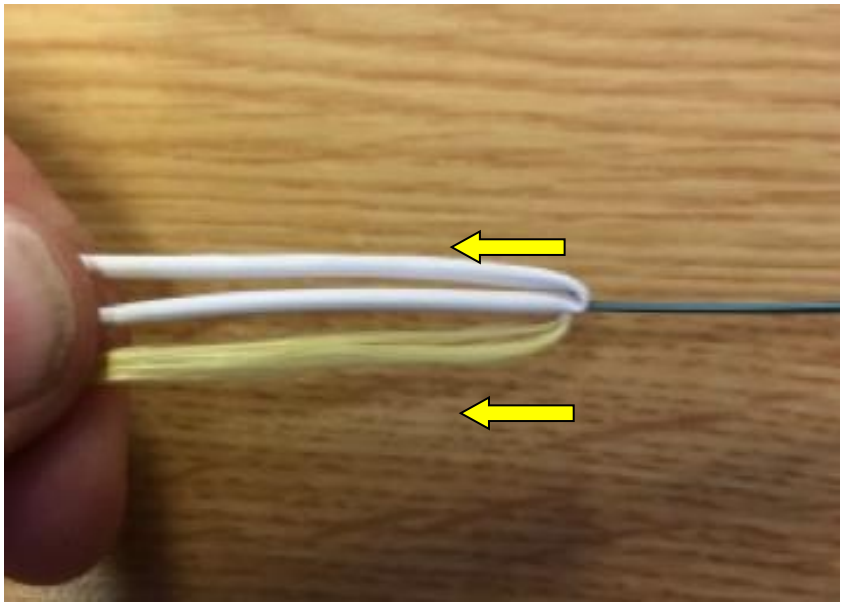
Step 3



- Remove cable outer sheath to expose approximately 1.5m of fibre. Insert the cable through the Cable Grommet and into box.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

Step 4

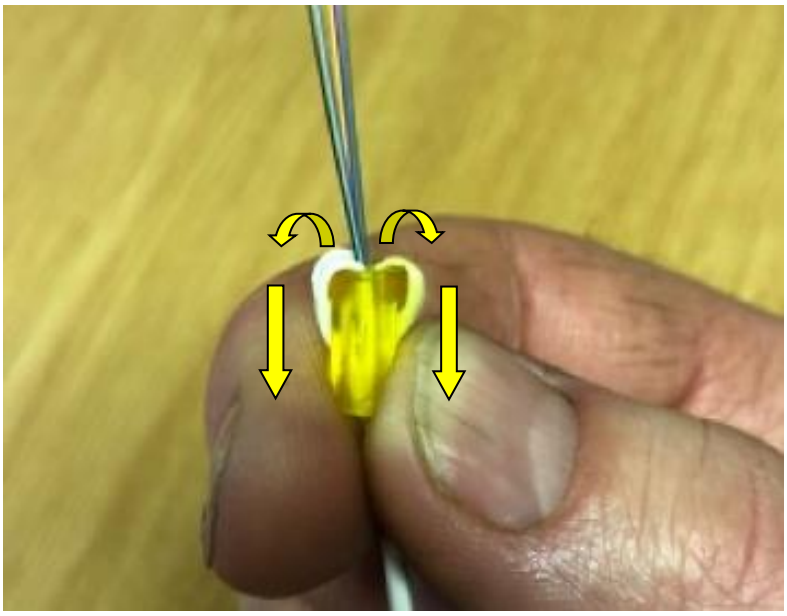


- Carefully fold back the sheath and separate the aramid strands as shown leaving at least 100mm.

Note: refer to IP008 Restraint Kit 2A installation guide for detailed instructions.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

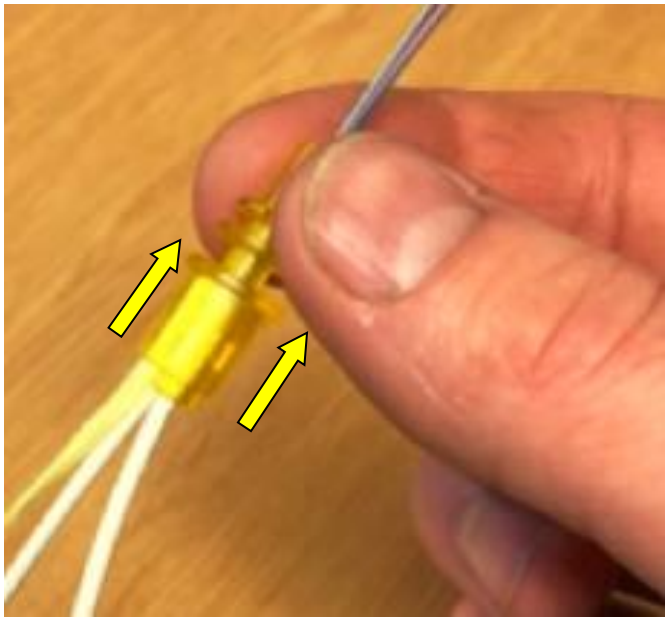
Step 5



- Thread the internal part of the Kevlar Restraint over the stripped fibres, aramid, and stripped sheath.
- Carefully fold back the aramid and stripped sheath and line up the cable butt in line with the top of the Kevlar Restraint.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

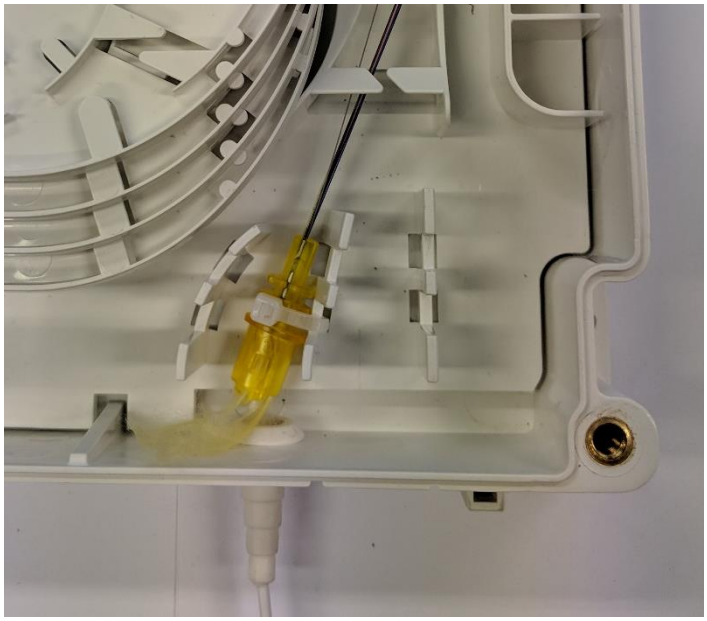
Step 6



- Slide the external part of the Kevlar Restraint over the fibres.
- Ensure the sheath and aramid strands are spread and pass either side of the locking tab.
- Visually check the Kevlar Restraint clips are securely engaged.
- Trim the sheath and aramid strands in line with the bottom of the Kevlar Restraint.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

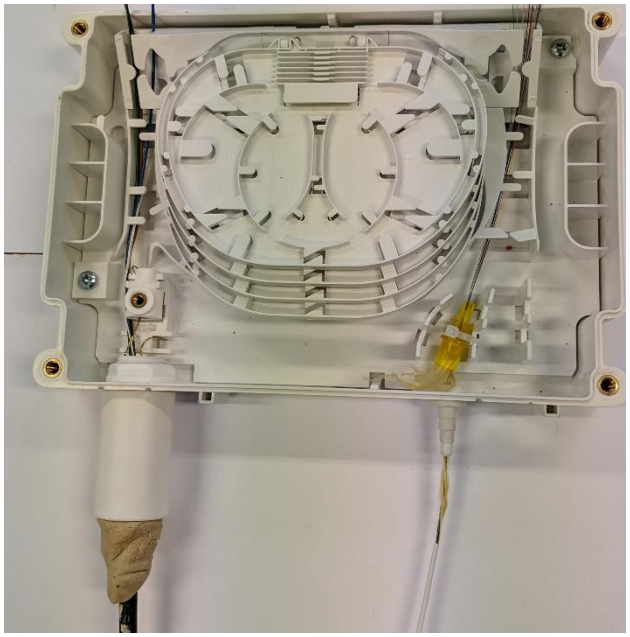
Step 7



- Pull back cable into position.
- Push and secure the grommet to the box. Position the cable butt as shown.
- Line up the Kevlar Restraint cable tie groove with insert cable tie position.
- Secure cable with Cable Tie hand tight only in position shown. Cut off Cable Tie tail using Flush Cutting Tool.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

Step 8



- Route the fibres to the designated splicing tray and splice to the input fibre using standard practices.
- Store any unused fibres in the centre of the splice tray.
- Repeat the process for remaining output cables.

4.0 INSTALLATION OF OUTPUT CABLE – SINGLE FIBER CABLE

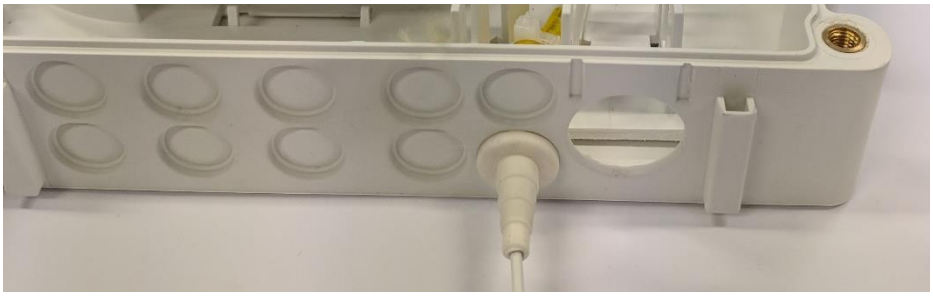
Step 9

- Fit cover and tighten the 4 retaining screws.

Please Note – Replace the screws supplied with security screws as required.

4.0 INSTALLATION OF MLT OUTPUT CABLE

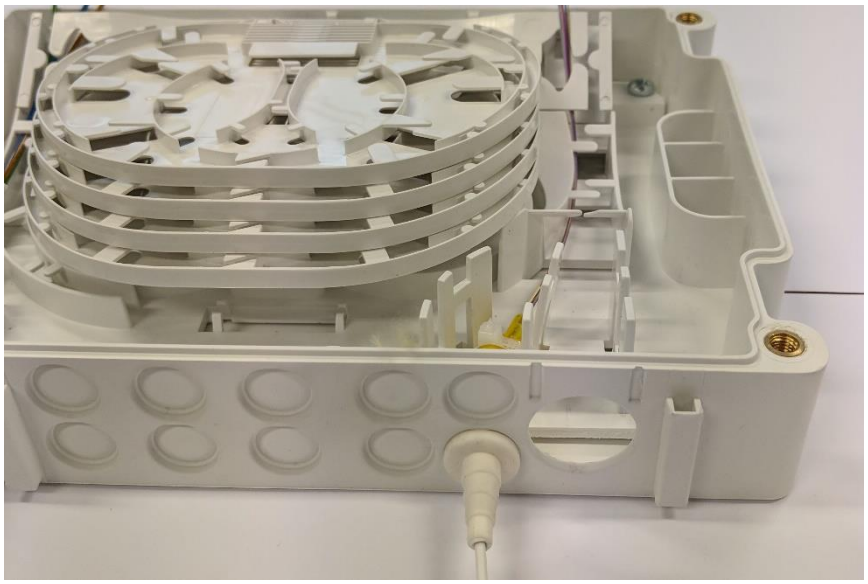
Step 1



- The basement box is now ready to accept the installation and fibre routing of the output cables using the large knock out position. The 1 large port will accept the cables with a diameter of 4-9mm and 6-12mm.

4.0 INSTALLATION OF MLT OUTPUT CABLE

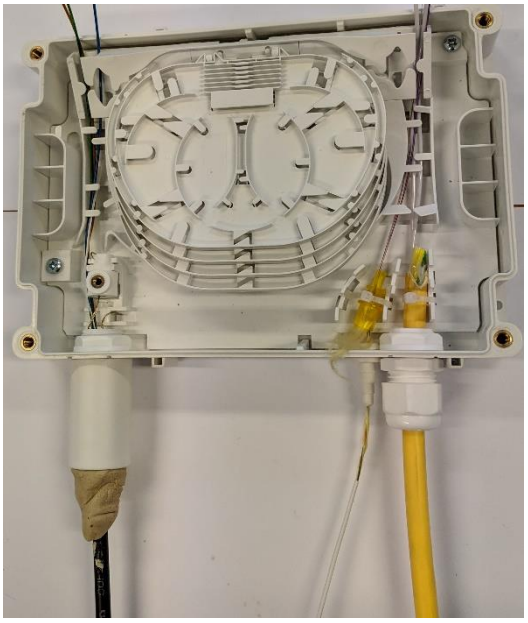
Step 2



- Carefully knockout the large Output Fibre Gland Port on the right side as shown.

4.0 INSTALLATION OF MLT OUTPUT CABLE

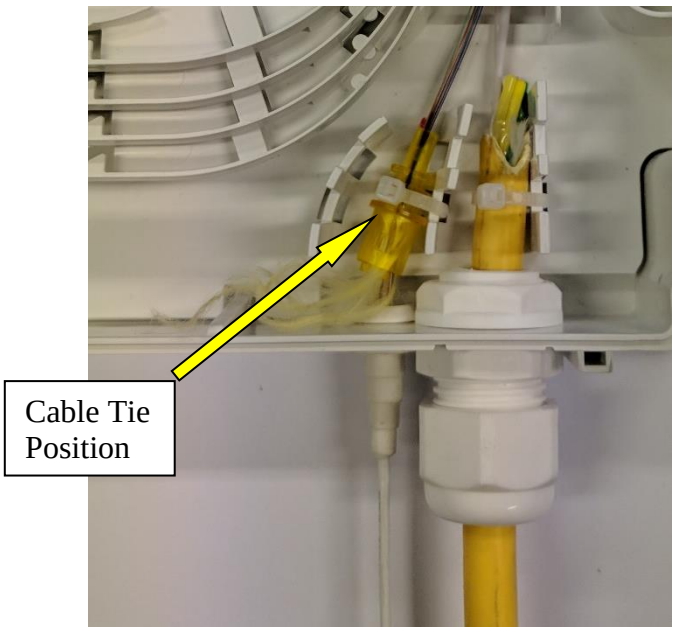
Step 3



- 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.
- Remove cable outer sheath to expose approximately 1.5m of fibre. Insert the cable through the Cable Grommet and into box.

4.0 INSTALLATION OF MLT OUTPUT CABLE

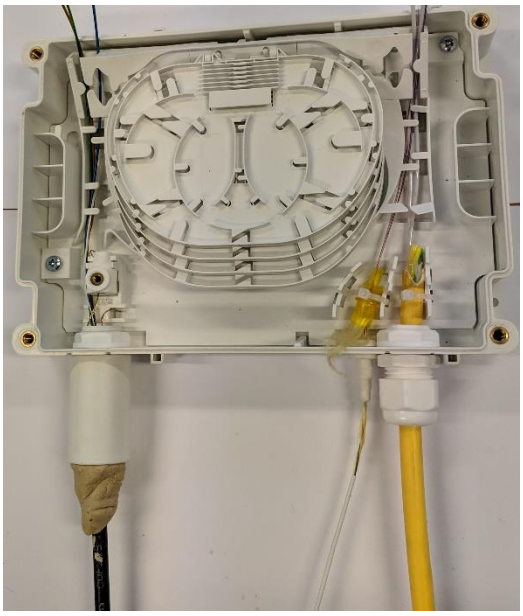
Step 4



- Secure cable with Cable Tie hand tight only in position shown. Cut off Cable Tie tail using Flush Cutting Tool.

4.0 INSTALLATION OF MLT OUTPUT CABLE

Step 5



- Route the fibres to the designated splicing tray and splice to the input fibre using standard practices.
- Store any unused fibres in the centre of the splice tray.
- Repeat the process for remaining output cables.

4.0 INSTALLATION OF MLT OUTPUT CABLE

Step 6

- Fit cover and tighten the 4 retaining screws.

Please Note – Replace the screws supplied with security screws as required.

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