OAsys® INTERNAL PLANT

INTERNAL & EXTERNAL 6 Fibre DP

Part Number: XCPSC01462 and XCPSC01463

Description

- The 6 Fibre DP is designed for use on the inside or outside wall of Multi Dwelling Unit (MDU) or Multi Occupancy Unit (MOU)
- The unit acts as a distribution point, serving up to 6 customers from a single input cable - Blown Fibre Unit (BFU).
- Fibres from the input cable are spliced to fibres from customer connection cables. 6 High Capacity Single Circuit (HCSC) splice trays allow single circuit fibre management.
- A fibre storage tray is used to store unused input fibres.
- The input 12f BFU is retained using 'figure of 8' locking mandrels. This protects against the potential loading of an overhead network.

Tools & Additional Items Required

Additional Items Required:	**Prysmian Part No.**
N/A	
Optional Items:	**Prysmian Part No.**
Security Screws	XAGSC00476

Tools:

BF Crimper/Tube Cutter (BT Item Code 059924)
Flush Cutting Tool 1A (BT Item Code 076080)
XPFSC00150
Posidrive Screwdriver, Hammer, Cable Stripping tools, Fibre Stripping tools, drill, 6mm drill bit.

Component Parts (photographs not to scale)

1. 6FDP Box
Qty 1

NOTE - All photos in this Instruction are of the Grey External 6 Fibre DP Box. The Internal 6 Fibre DP Box is White.

2. Cable Gland, Lock Nut & 'O' Seal **Qty 1 (each)**

3. Stepped Output Grommet
Qty 6

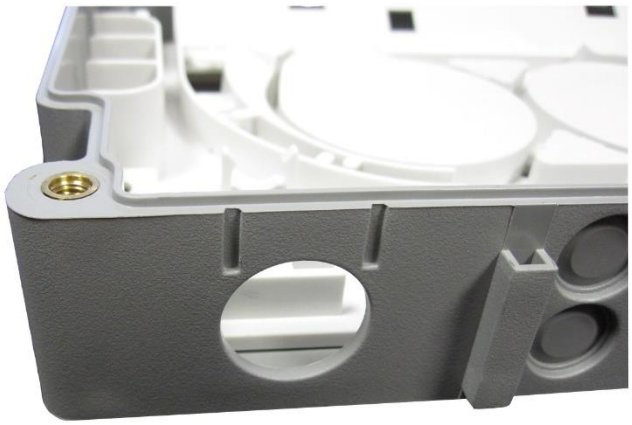
4. Cable Tie **Qty 7**

5. Screw **Qty 4**

6. Wall Plug **Qty 4**

Box Preparation and Mounting

Step 1



- Remove the cover from the 6 Fibre DP **(1)**.
- Carefully knock out the cable entry port on the left-hand side of the base. Take care to support the base when doing this.

Box Preparation 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 **(6)**.
- Re-locate box to wall and screw into place with screws **(5)**.

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

Box Preparation and Mounting

Step 3

- Fit ‘O’ Seal **(2)** over Cable Gland **(2)** 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 **(2)** and tighten against inside face of Base to secure.

Input Fibre Installation

Step 4

- Insert 6mm Blown Fibre Drop (BFD) tube through gland and position approximately 65mm from the lowest face of the box.

Please Note **–** the final BFD tube wall cleats should not be installed until Step 8.

Input Fibre Installation

Step 5

- Install (BFU) using standard BT practices. Ensure a 2m length of BFU is installed beyond the end of the tube.

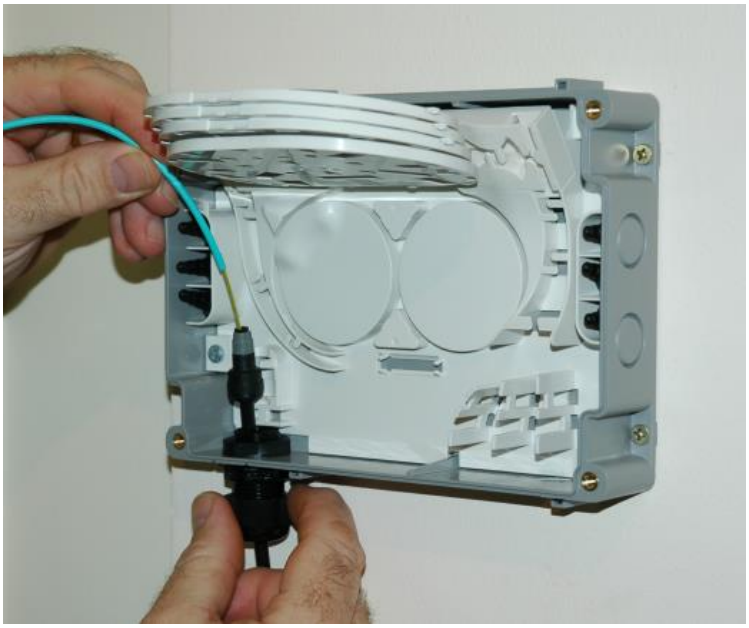
Input Fibre Installation

Step 6

- Pass the BFU through the 6mm – 3mm connector.
- Fit connector to BFD tube.

Input Fibre Installation

Step 7

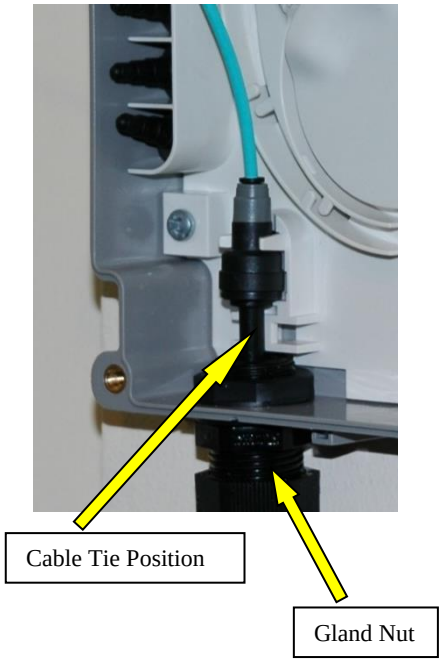


- Insert BFU through turquoise locking tube.
- Fit the tube to the reducing connector.

Please Note: The locking tube is pre-cut to the correct length.

Input Fibre Installation

Step 8

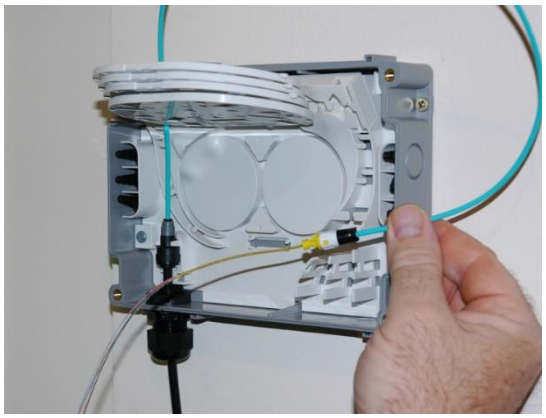


- Locate the completed tube assembly into position and clip the connector into place.
- Tighten gland sealing nut.
- Secure Cable with Cable Tie **(4)** hand tight only in position shown. Cut off Cable Tie tail using Flush Cutting Tool 1A.

Please Note: The final BFD tube wall cleats can now be fitted.

Input Fibre Installation

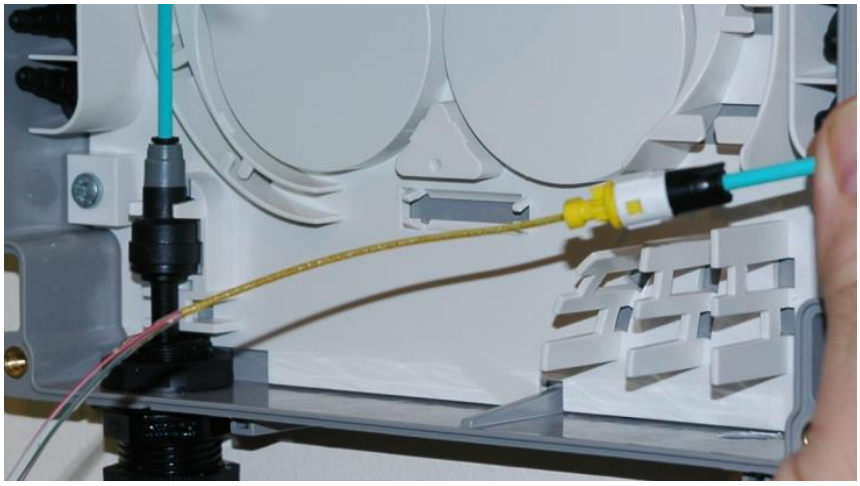
Step 9



- Pass the gas blocking connector over the BFU and fit to turquoise locking tube.
- Activate the connector using BT 7 in 1 multi tool.

Input Fibre Installation

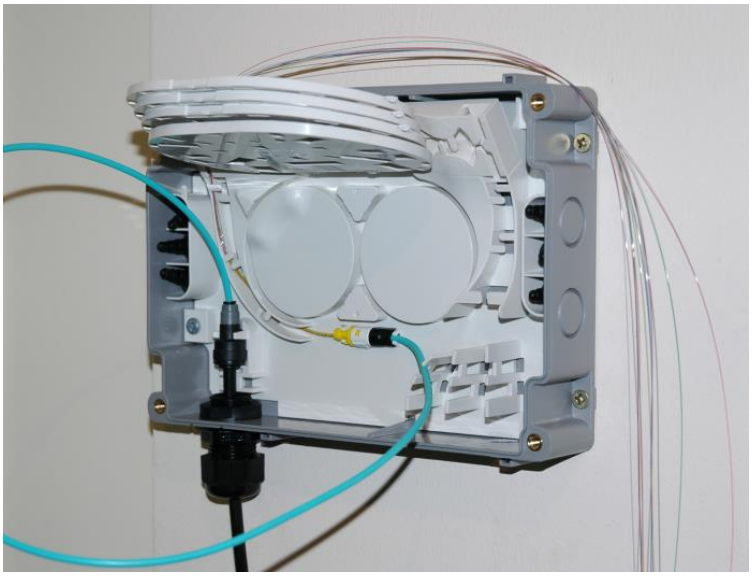
Step 10



- Remove the BFU resin coating to approximately 75mm from the end of the gas block connector.

Input Fibre Installation

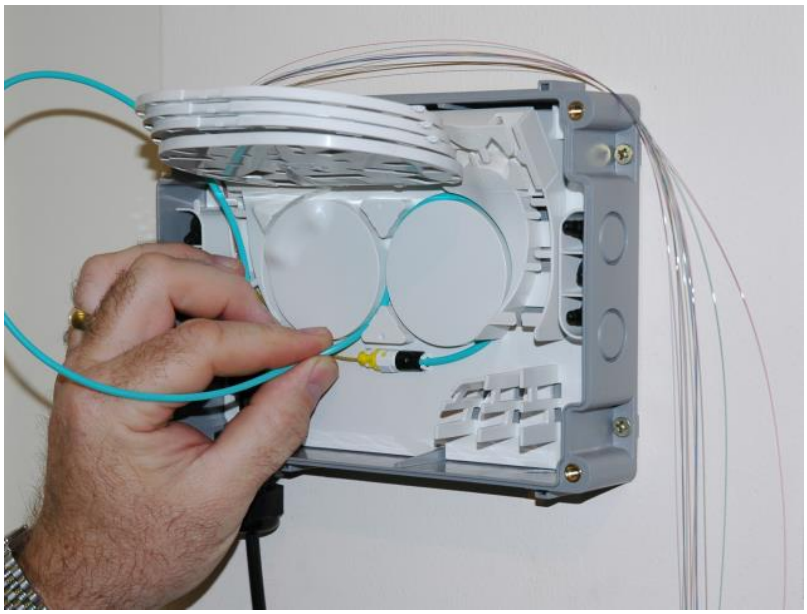
Step 11



- Clip the gas block connector into place and route fibres towards the splice trays. Lay fibres in a safe position away from the working area as shown above.

Input Fibre Installation

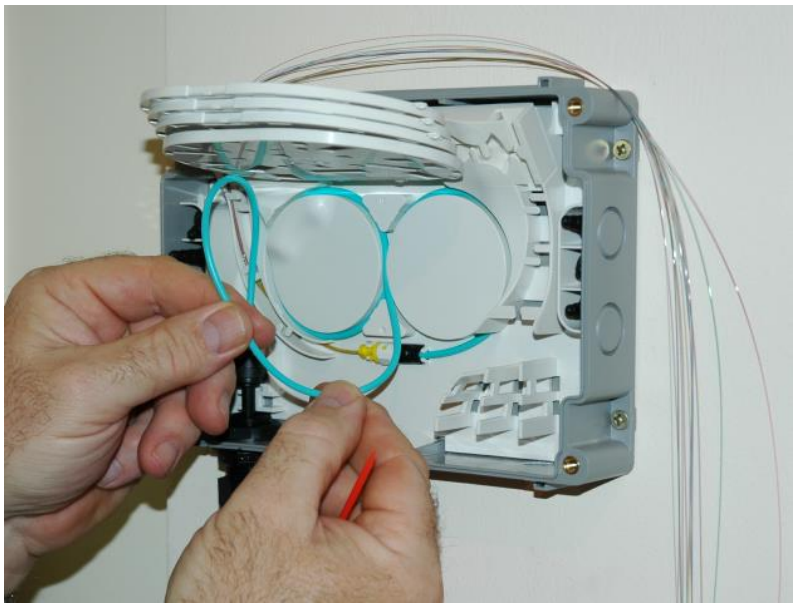
Step 12



- Wrap the turquoise locking tube around the ‘figure of 8’ mandrels as shown above and continued in Step 13.

Input Fibre Installation

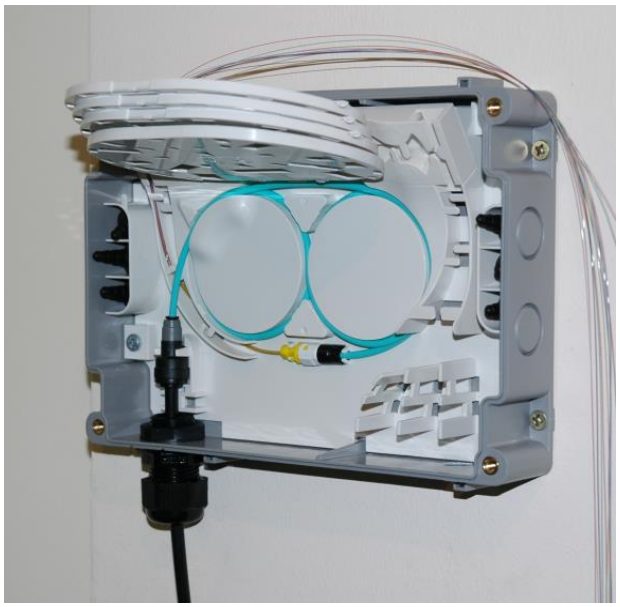
Step 13



- Continued from Step 12.

Input Fibre Installation

Step 14



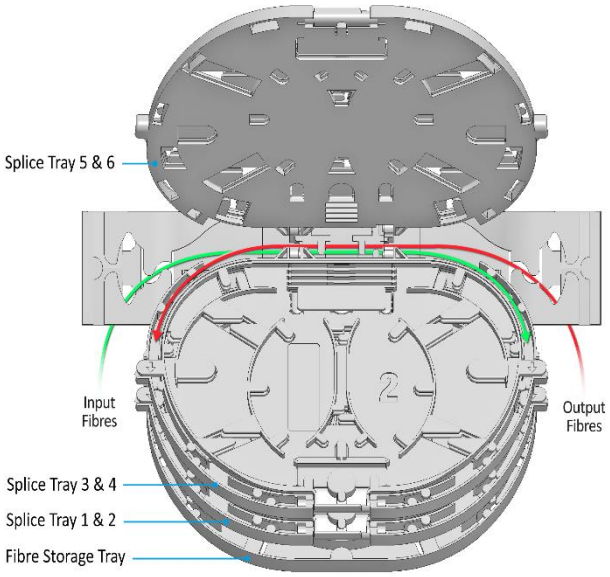
- ***Please note:*** There will be no excess length if the tube routing has been completed correctly.

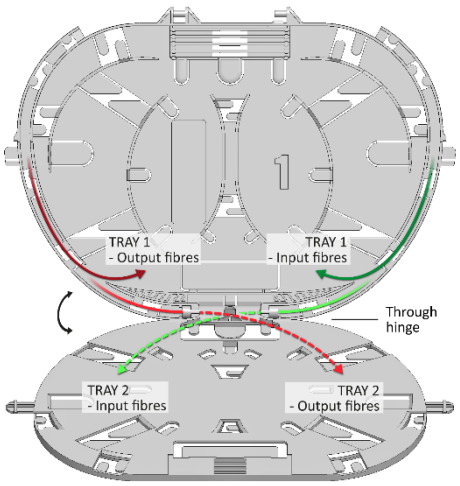
Input Fibre Installation

Step 15

Input & Output Fibre Routing Guide

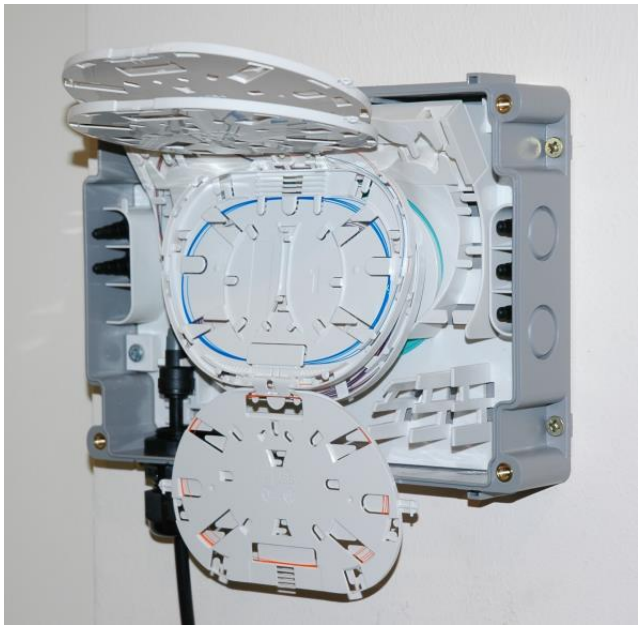
The two diagrams below should be referenced in conjunction with the instructions in ***Step 16*** through to ***Step 20***





Output Fibre Installation

Step 16



- Individual fibres are now ready to be routed onto the customer splice trays. Tray 1 Blue, Tray 2 Orange, Tray 3 Green, Tray 4 Red, Tray 5 Grey, Tray 6 Yellow.

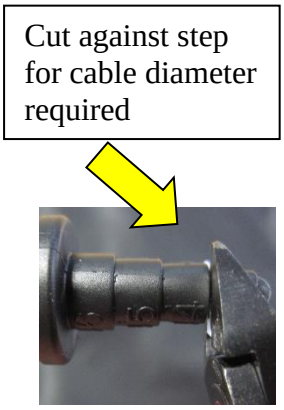
Output Fibre Installation

Step 17

- Store the remaining 6 fibres (Brown – Turquoise) on the fibre storage tray.

Output Fibre Installation

Step 18



- Carefully knockout the first Output Fibre Gland Port.
- Cut the Stepped Cable Grommet **(3)** at the correct mark (matching the cable diameter) using a Flush Cutting tool 1A as shown above.
- Remove cable outer sheath to expose approximately 1.5m of fibre. Insert the cable through the Cable Grommet and into box.

Output Fibre Installation

Step 19

- Push and secure the grommet to the box. Position the cable butt as shown.
- Secure cable with Cable Tie **(4)** hand tight only in position shown. Cut off Cable Tie tail using Flush Cutting Tool 1A.

Output Fibre Installation

Step 20

- Route fibre(s) onto a designated customer splice tray and splice to the input fibre using standard BT practices. Protector Splice 6 must be used.
- Store any unused fibres in the centre of the splice tray.
- Repeat process for the remaining outputs (up to 6).

Output Fibre Installation

Step 21

- Fit cover and tighten the 4 retaining screws.

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

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