OAsys® INTERNAL PLANT
CSP RISER BOX
Part Number: XCPSC00298

Description

- The Riser Box is designed for use within apartment blocks and mid/high rise office blocks. The unit houses a single integral splice tray and allows fibres from an in-line or butt cable to be spliced to up to 12 customer drop cables.
- The wall box is manufactured from UL94-V0 rated material.
- The wall box is supplied with all the components required to install an in-line or butt cable and splice the fibres to either Blown Fibre tube customer drop cables or conventional customer drop cables.
- Customer drop cables exit the unit from the bottom. Drop cables are secured using either rubber grommets for conventional cables, or bulkhead connectors for Blown Fibre tube cables. Refer to additional items.

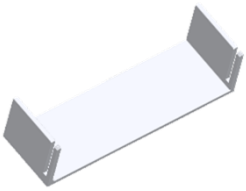
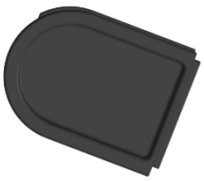
Tools & Additional Items Required

Additional Items Required:	**Prysmian Part No.**
Customer Connect Kit – Blown Fibre	XCPSC00299
Customer Connect Kit – Conventional Cable	XCPSC00300

Optional Items:	**Prysmian Part No.**
Security Screws	XAGSC00476
Security Tool	XAGSC00477

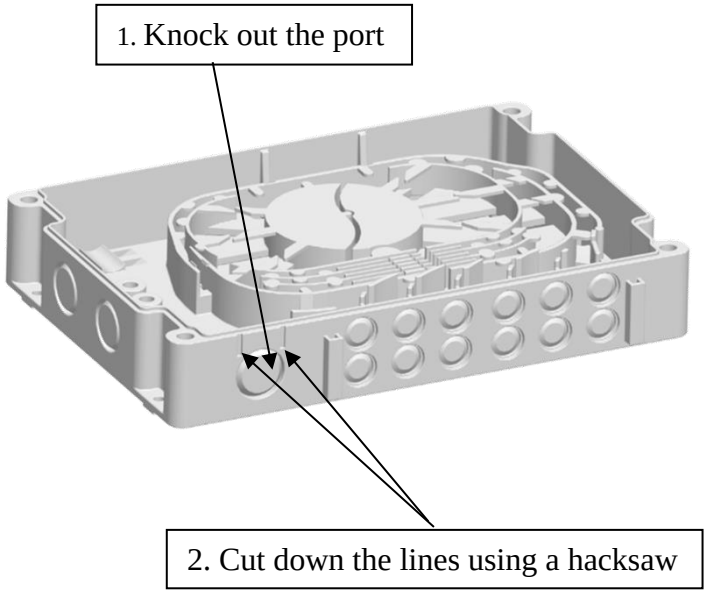
Tools:
Pozidrive Screwdriver, Mallet, 14mm Socket, Hacksaw, Small File, Cable Stripping tools, Fibre stripping tools, Splicing machine, drill, 6mm drill bit.

Component Parts (pictures not to scale)

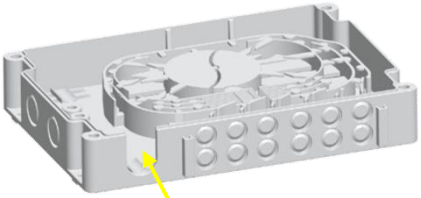
1 Riser Box Qty 1 	**2 Protection Cover** Qty 1 	**3 Transport Tube** Qty 1 
4 Cable Ties Qty 4 	**5 Rubber Grommet** Qty 2 	**6 Wall Plugs & Fixing Screws** Qty 4 

BOX PREPARATION

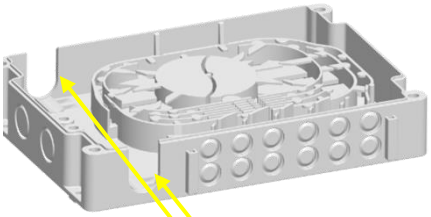
Step 1



Butt Cable Preparation



In-Line Cable Preparation



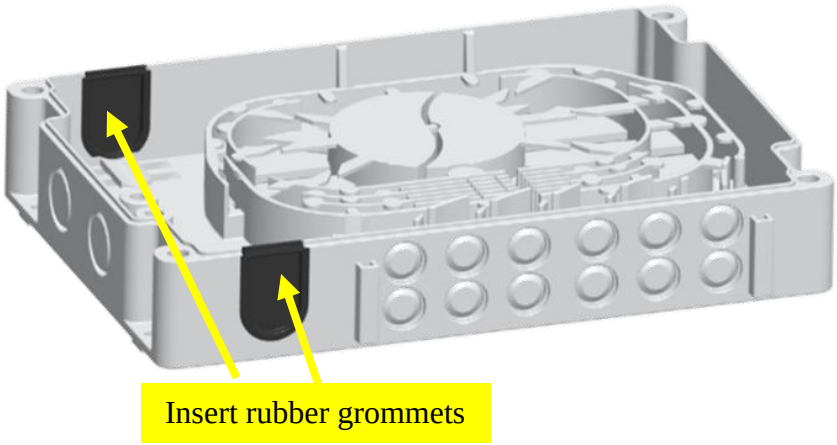
BOX PREPARATION

Step 1

- Determine if the cable to be installed is a butt or in-line cable.
- Remove the cover from the box.
- If the cable is a butt or end preparation knock out the bottom entry port using an 14mm long socket driver and a mallet. Using a hacksaw, cut down the two guidelines on the box to open a U section as shown above. If the cable requirement is for an in-line cable, repeat this process for the other side of the box.

BOX PREPARATION

Step 2

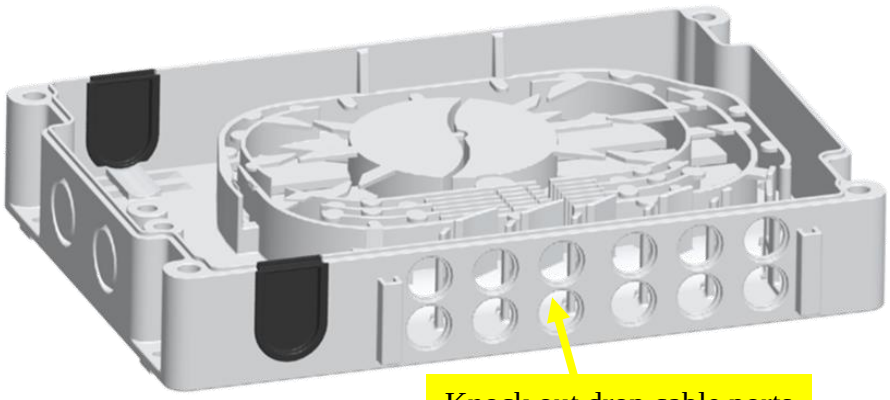


- Insert a rubber grommet into each section of the box as shown above.

NOTE: The rubber grommets are not available to 15/10/06.
For boxes supplied before this date a foam tape has been added.
This can be used to close the gap after the cable has been installed to prevent dust from entering the box.

BOX PREPARATION

Step 3

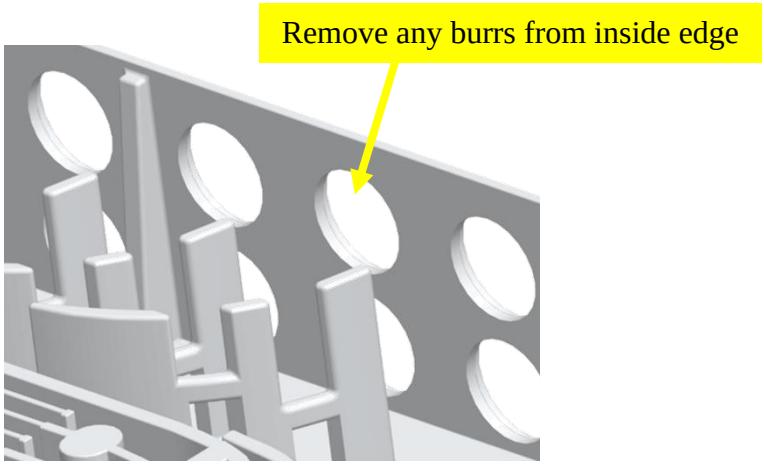


- Identify the number of drop cables required and knock out the small round knockouts using a 6mm socket driver and a mallet.

NOTE: These can be done later but will be more difficult to do when the box is secured to the wall. Removing these now eases installation later.

BOX PREPARATION

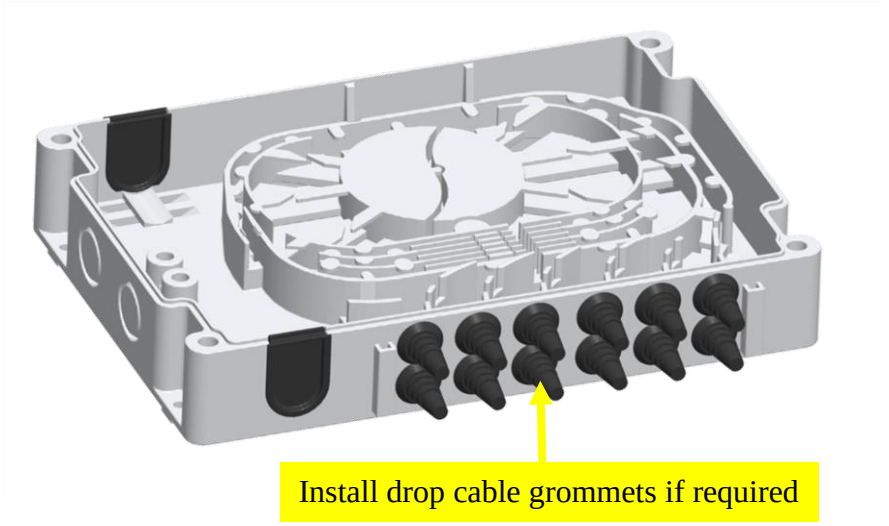
Step 4



- If the box is being used for Blown Fibre drop cables and bulkhead adaptors are to be fitted, remove any burrs around the inside of the hole using a small file.

BOX PREPARATION

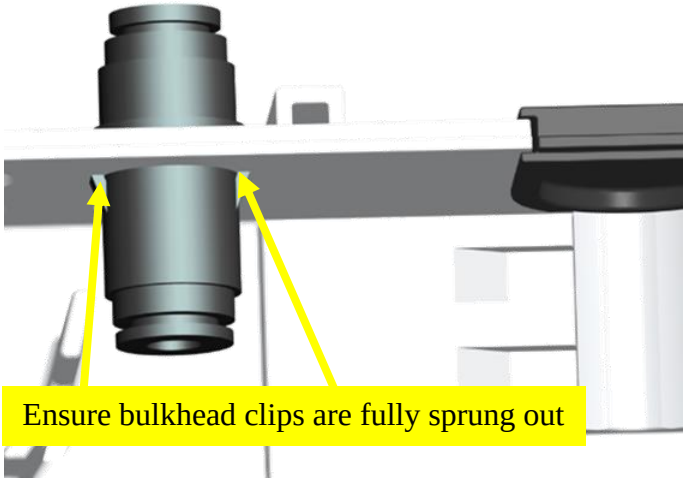
Step 5



- For conventional cable drops fit a rubber grommet into each drop port of the box. The grommets are supplied separately in the Customer Connect Kit – Conventional Cable – Part No XCPSC00300.

BOX PREPARATION

Step 6

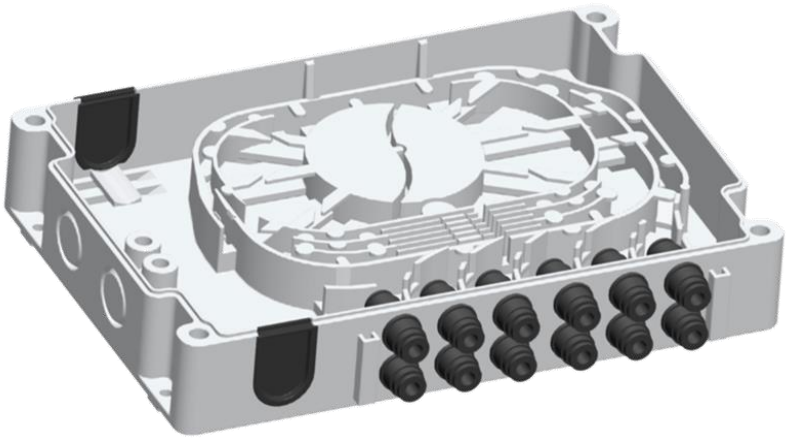


- For Blown Fibre cable drops fit a bulkhead adaptor into each port of the box. The bulkhead adaptors are supplied separately in the Customer Connect Kit - Blown Fibre – Part No. XCPSC00299.

- When fitting the bulkhead adaptors, ensure that the two clips at the back of the connector are pushed out to fully grip onto the box. A small screwdriver can be used to ease out the legs.

BOX PREPARATION

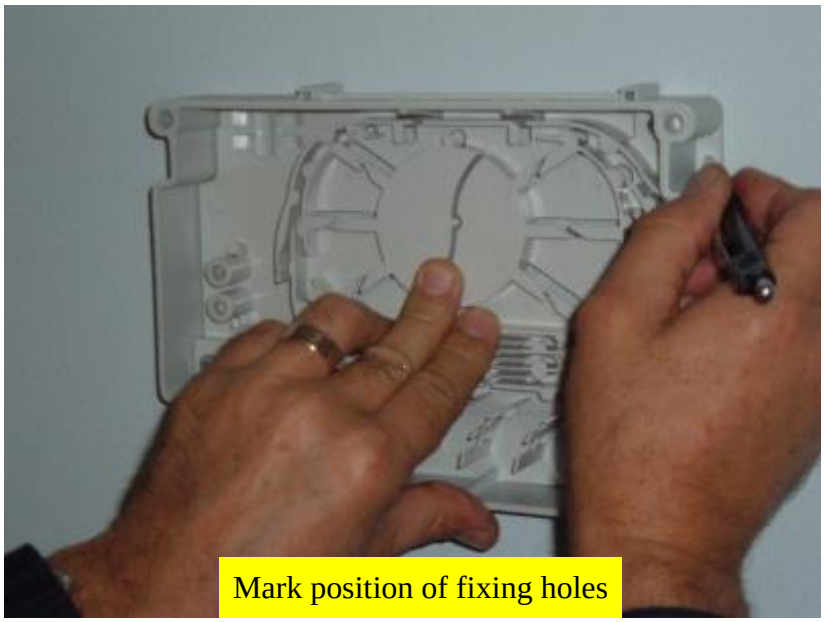
Step 7



- Repeat this process to fit all the bulkhead adaptors required.

MOUNTING THE BOX TO THE WALL

Step 8



- Identify a suitable mounting position for the box.
- Hold the box to the wall and mark the position of the four fixing holes.

MOUNTING THE BOX TO THE WALL

Step 9

- Drill the holes using a drill and a 6mm drill bit.

MOUNTING THE BOX TO THE WALL

Step 10

Fix the box to wall

- Insert a wall plug into each hole and secure the box to the wall using the fixing screws supplied.

CABLE INSTALLATION

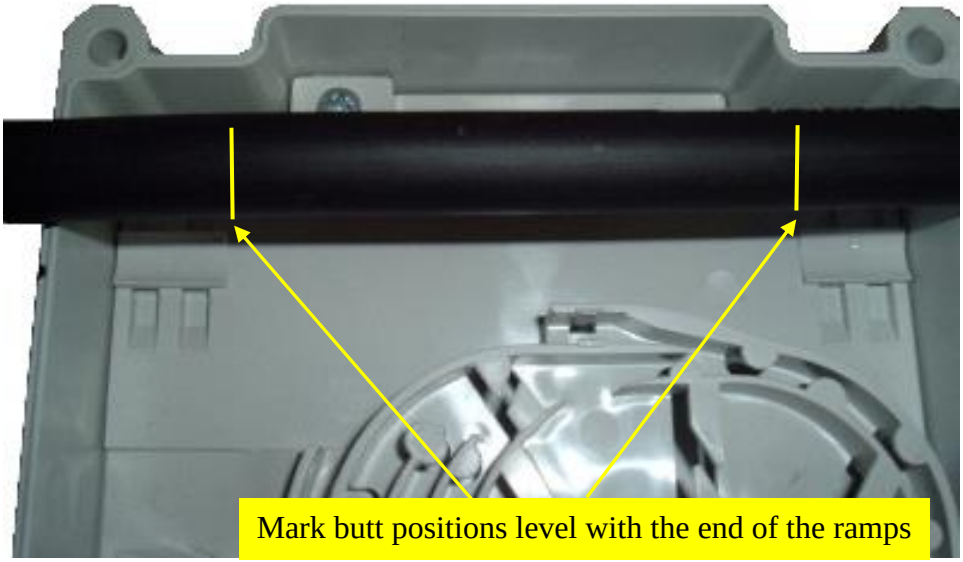
Step 11

For Blown Fibre cables follow steps 12 to 17
For conventional cables go to step 18

- The following steps refer to the installation of Blown Fibre tube cables. For conventional cable installation go to step 18.

CABLE INSTALLATION

Step 12



- Cut a slit through the rubber grommet/s. Make a hole in the grommet roughly the size of the cable to be installed.
- Hold the cable in position above the box and mark the position of the cable butt level with the end of the ramp as shown.
- For in-line cables add a further mark level with the end of the opposite ramp.

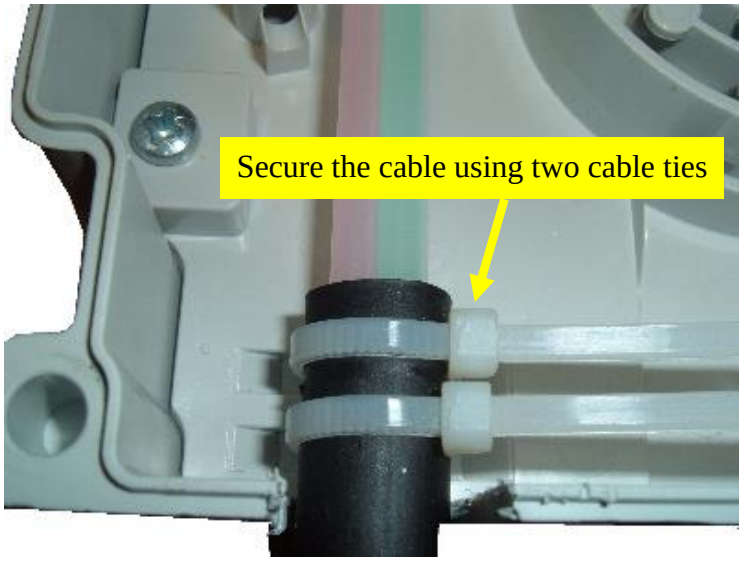
CABLE INSTALLATION

Step 13

- Remove the cable sheath from the butt mark to expose the tubes. For in-line cables remove a window of sheath between the two butt marks.
- Push the cable into the rubber grommets and slide into position as shown.

CABLE INSTALLATION

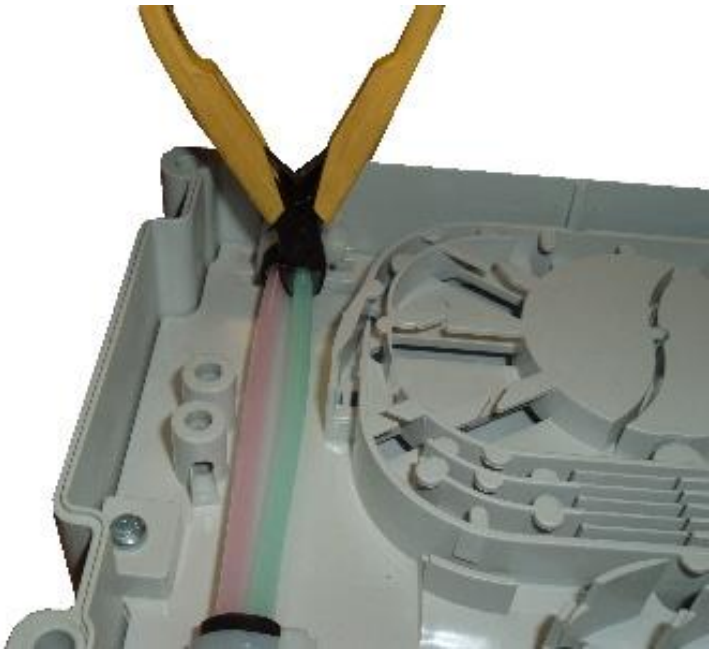
Step 14



- Push two cable ties underneath the cable ramp and secure the cable butt to the box in two positions by fully tightening the cable ties. Cut off the excess cable tie length using flush cutters to avoid leaving sharp edges.
- For in-line cables repeat this process for the second cable butt position.

CABLE INSTALLATION

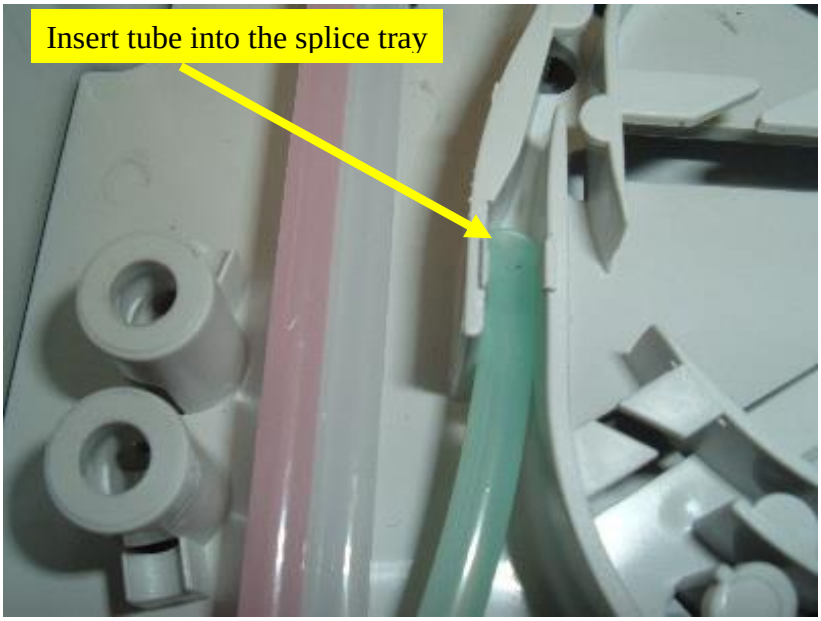
Step 15



- If the cable is in line, cut the required tube as close to the second cable butt position as possible.

CABLE INSTALLATION

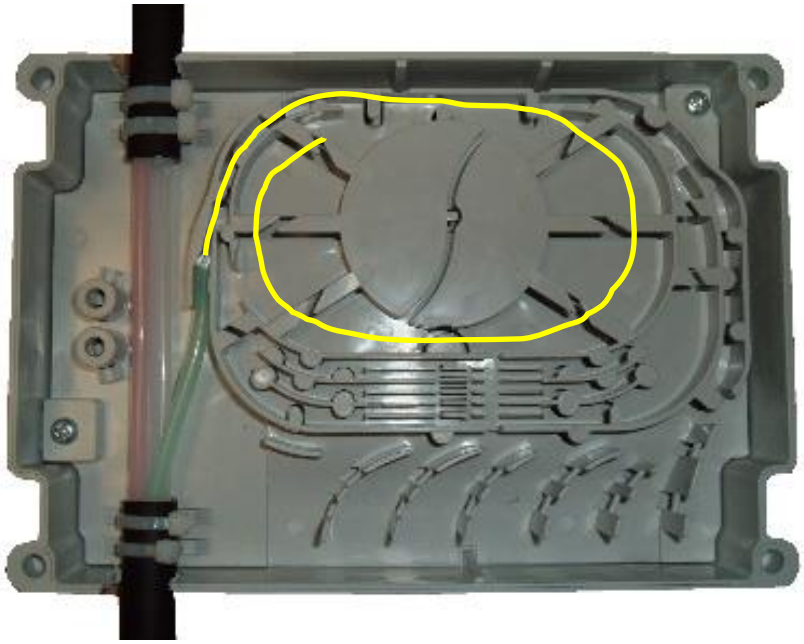
Step 16



- Run the tube to the entry port of the splice tray and mark it level with the end of the port as shown.
- Cut the tube and insert it into the port by pushing down.

CABLE INSTALLATION

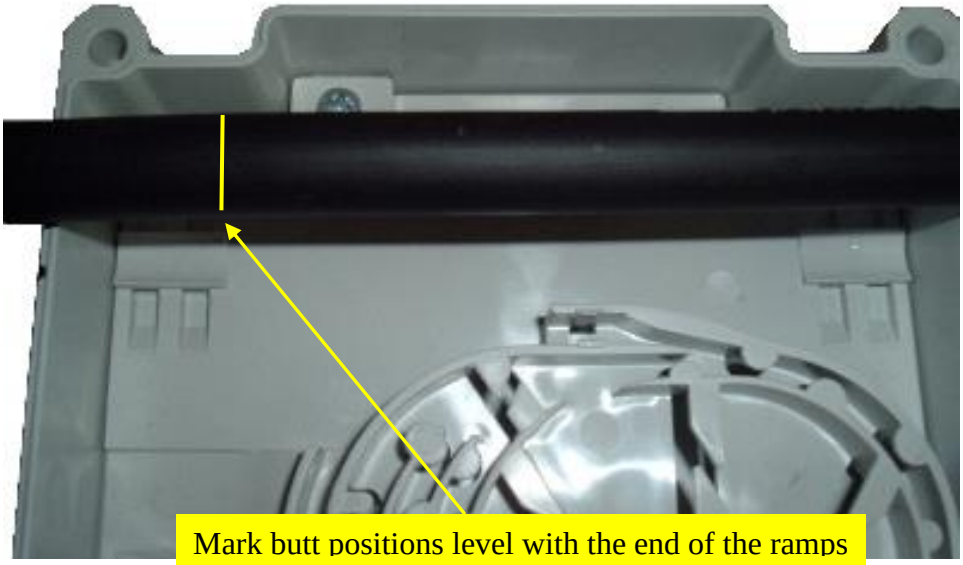
Step 17



- Install the Blown Fibre bundle into the tube in accordance with local practices.
- Route the fibres around the track into the central storage area of the splice tray, and coil beneath the tabs to store for later use.
- Go to step 25.

CABLE INSTALLATION

Step 18



- Cut a hole in the grommet roughly the size of the cable to be installed and feed the cable through the grommet.
- Hold the cable in position above the box and mark the position of the cable butt level with the end of the ramp as shown.

CABLE INSTALLATION

Step 19

- Cut the cable 2 metres from the butt for the jointing allowance.
- Remove the cable sheath. Remove any tapes and binders.
- Cut the cable strength member to 55mm in length from the cable butt. Remove the sheath from the strength member back 10mm from the end.

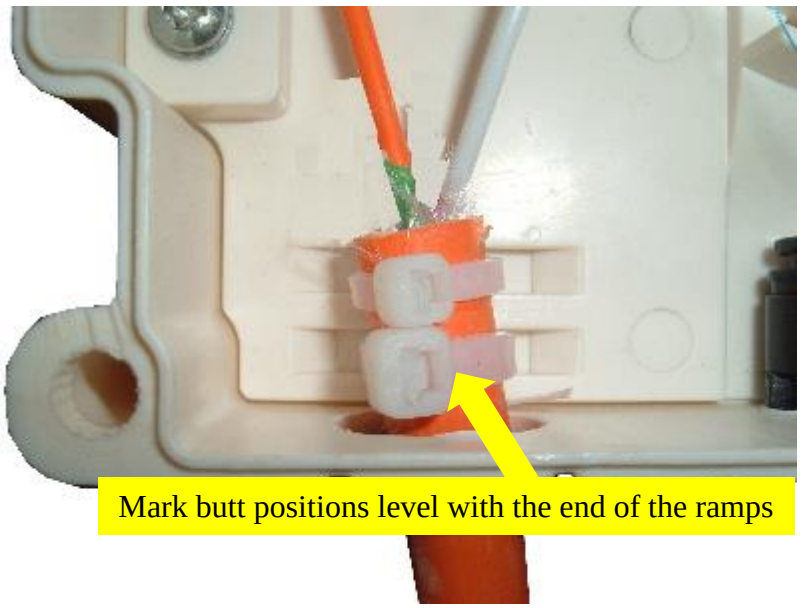
CABLE INSTALLATION

Step 20

- Insert the cable into the box.
- Insert the cable strength member into the clamp post and tighten the grub screw to secure the cable into place.

CABLE INSTALLATION

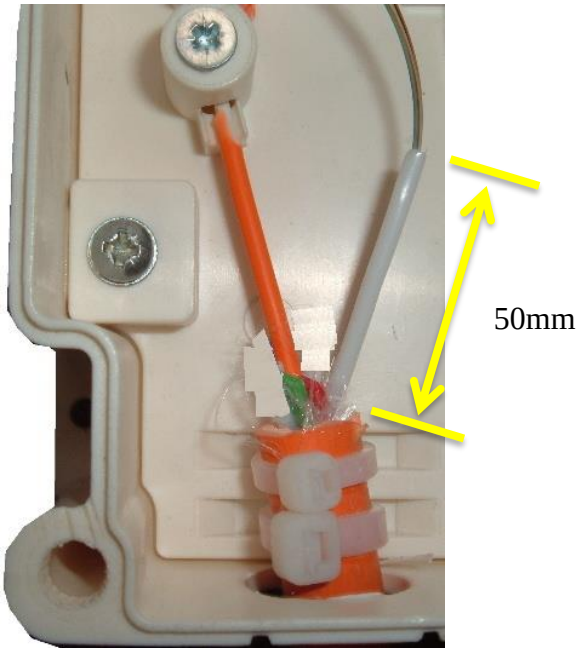
Step 21



- Feed two cable ties under the ramp in the box and secure the cable sheath to the box in two positions as shown.

CABLE INSTALLATION

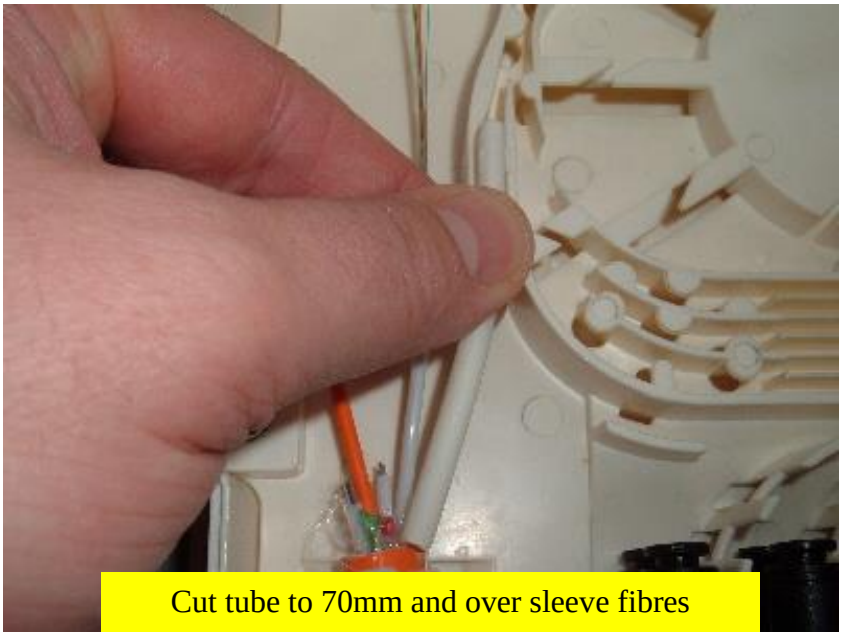
Step 22



- Strip the cable element to expose the fibres approximately 50mm from the cable butt.

CABLE INSTALLATION

Step 23

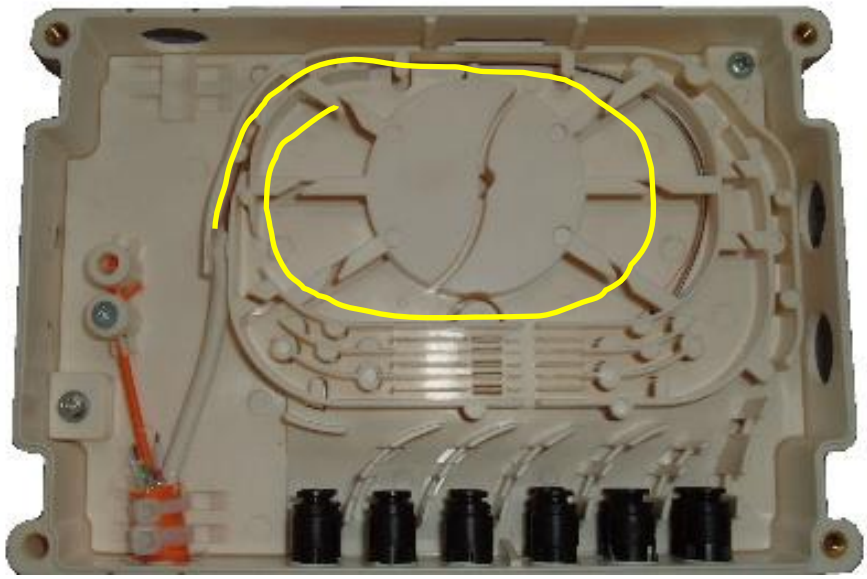


Cut tube to 70mm and over sleeve fibres

- Cut a length of transport tube 70mm in length.
- Over sleeve the cable element, with the piece of transport tube, and plug the tube into the entry port of the splice tray.

CABLE INSTALLATION

Step 24



- Route the fibres around the track into the central storage area of the splice tray, and coil beneath the tabs to store for later use.

CUSTOMER DROP CABLE INSTALLATION

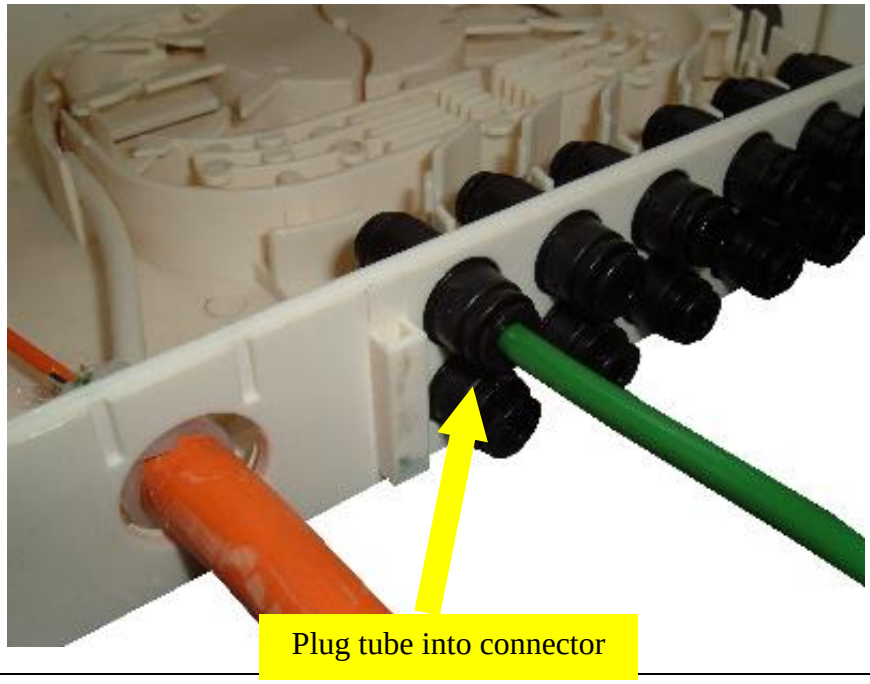
Step 25

Follow steps 26 and 27 for Blown Fibre cables and steps 28 and 29 for conventional cables

- Go to step 28 for conventional cables.

CUSTOMER DROP CABLE INSTALLATION

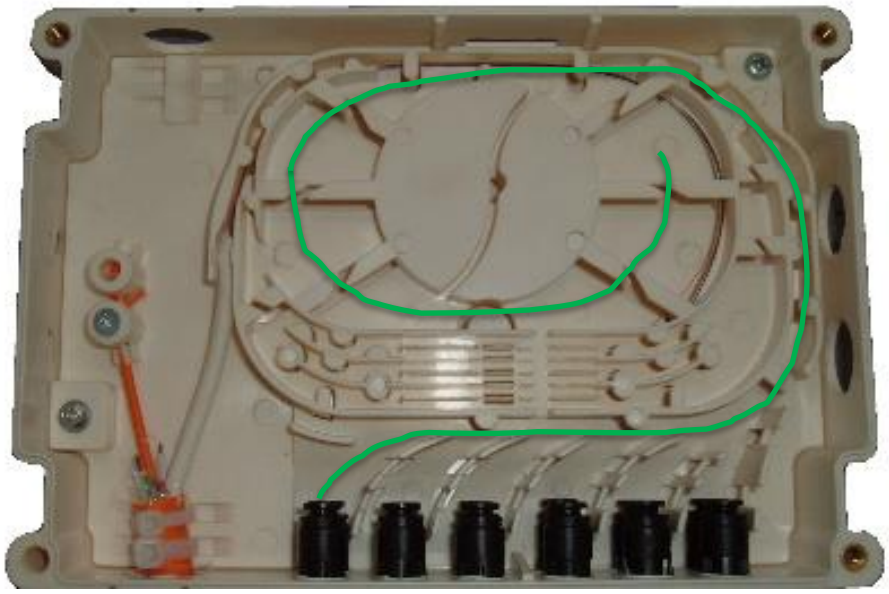
Step 26



- Plug the Blown Fibre tube drop cable into an available bulkhead connector.

CUSTOMER DROP CABLE INSTALLATION

Step 27



- Install the unit using approved practices and route it around the track onto the splice tray.
- Store the fibres by coiling beneath the tray tabs.
- Go to step 31.

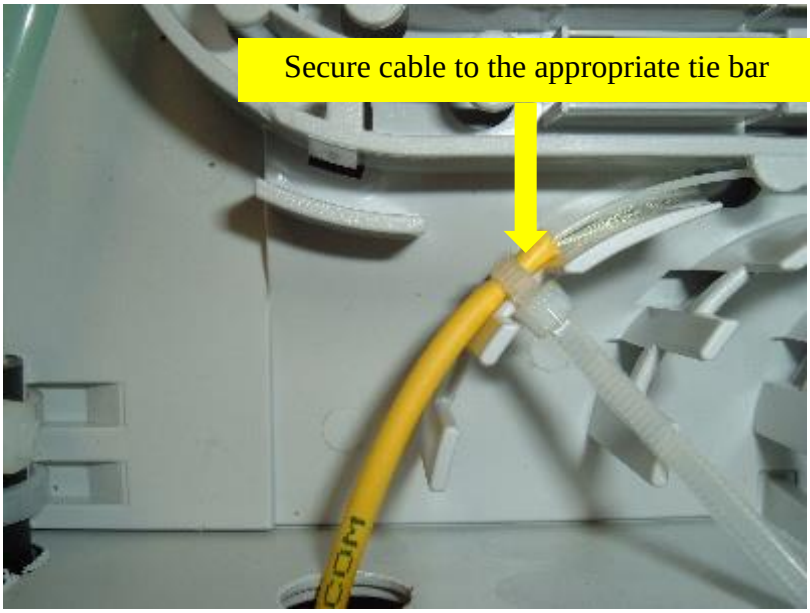
CUSTOMER DROP CABLE INSTALLATION

Step 28

- For conventional drop cables, cut a slit in the bottom of an available grommet.
- Feed the cable through the grommet.
- Strip the cable to expose the fibres.

CUSTOMER DROP CABLE INSTALLATION

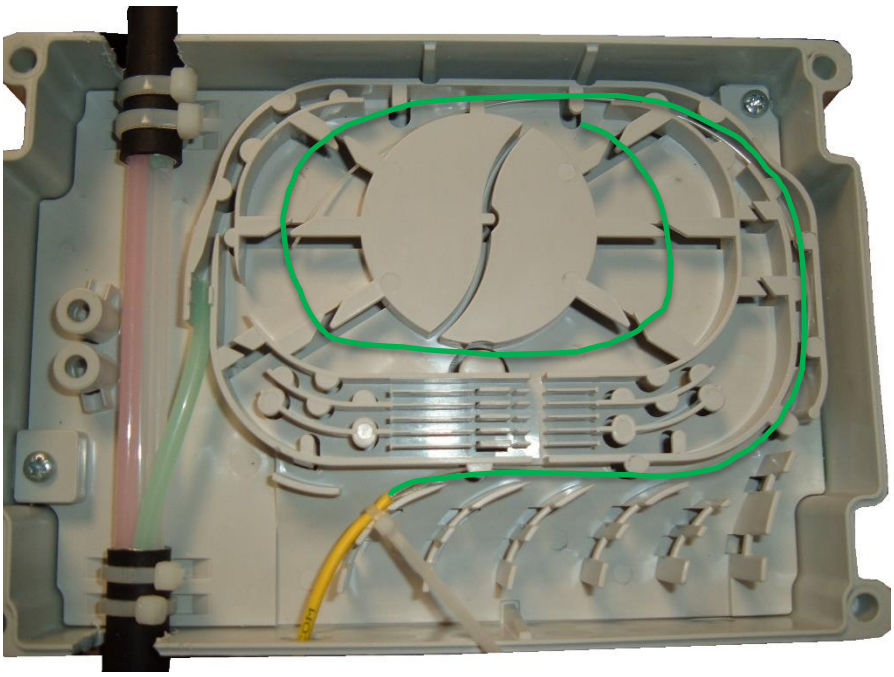
Step 29



- Secure the cable butt to the guide using a small cable tie.

CUSTOMER DROP CABLE INSTALLATION

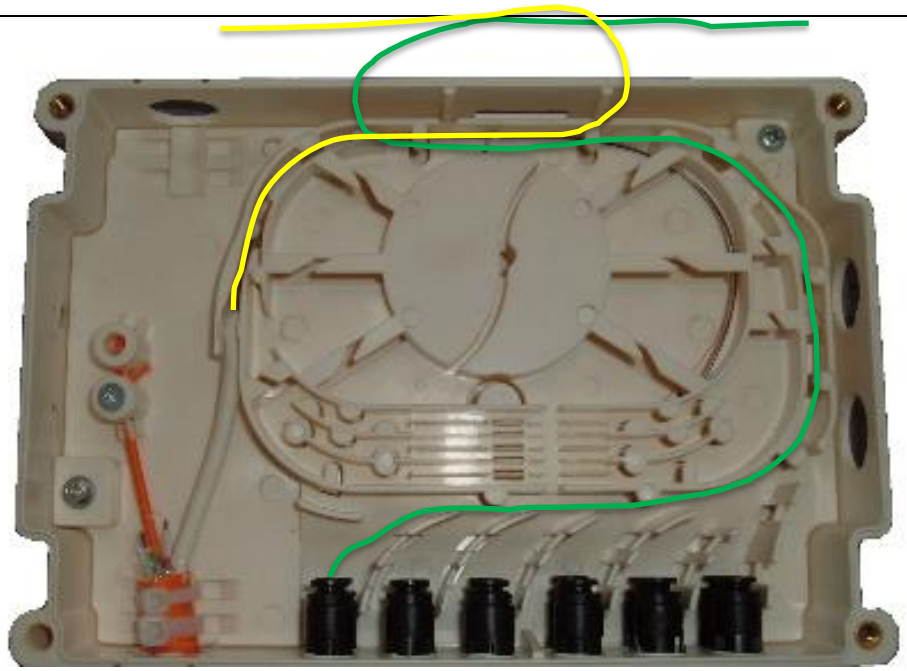
Step 30



- Route the fibres around the track and onto the splice tray.
- Store the fibres on the tray by routing them underneath the tray tabs.

CUSTOMER DROP CABLE INSTALLATION

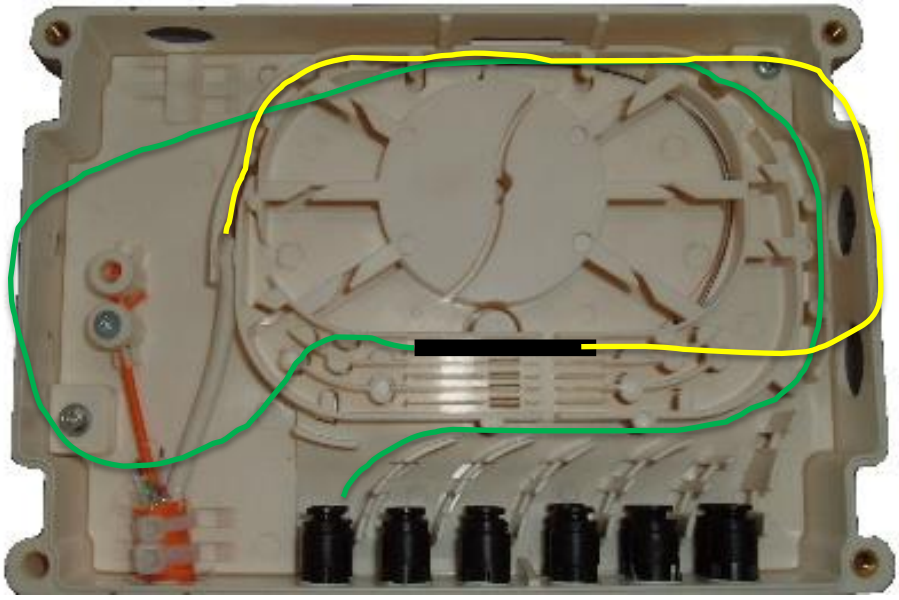
Step 31



- Remove the input and output fibres stored earlier back to the point where they cross over on the tray.

CUSTOMER DROP CABLE INSTALLATION

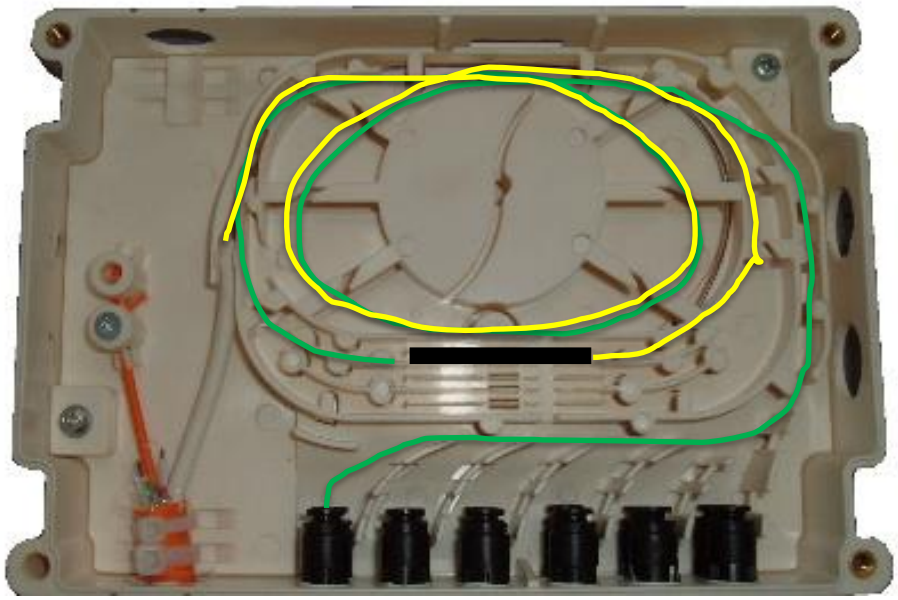
Step 32



- Splice the fibres.
- Insert the splice protectors into the splice bay.

CUSTOMER DROP CABLE INSTALLATION

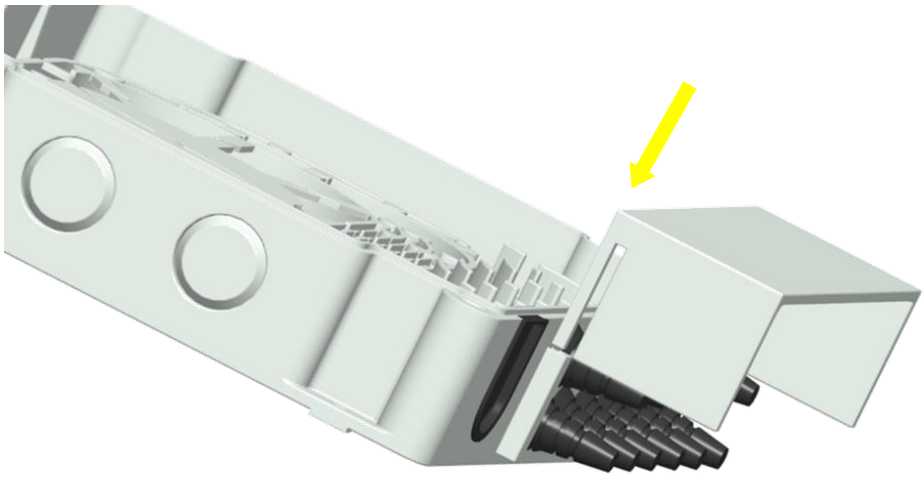
Step 33



- Route both sets of fibres from the splice bay, around the outer tracks and coil them beneath the tray tabs.
- Double check that all fibres are safely beneath the tray tabs.

CLOSEDOWN

Step 34



Fit protection covers if required

- If required, fit the protection cover over the grommets or bulkhead adaptors. The cover slides into the two tracks on the outside of the box.

CLOSEDOWN

Step 35

- Replace the main cover and secure by tightening the four screws.

PRYSMIAN HELPLINE: + 44 (0) 78161916333
connectivity.helpline@prysmiangroup.com