Int/External Flexi termination box - Installation

Description

The Flexibox is for Fibre to the Premises [FTTP] applications. The box houses splice and storage for excess/loop through fibre elements.

This version of the box can accept up to 48 cables using grommets or 24 cables via gland entry ports using bottom faces of the box, with space for up to 96 fibre splices, loop through capabilities and a patch panel for pre-connectorized drop cables.

Tools & Additional Items Required

Tools:

Cable /tube stripping tools, adjustable spanner (optional), electric drill, M5 drill bit, pozi screwdriver, fibre splicing equipment, hammer.

Additional items Splice protectors (12 x2.2mm) Part Number XKTSC00050

Single way gland – 5 to 9mm Single way gland – 6 to 12mm Dual way gland – 4 to 6mm 3-way gland – 2.5 to 4.5mm

XKTSC02335 XKTSC02471 XKTSC02542 XKTSC02774

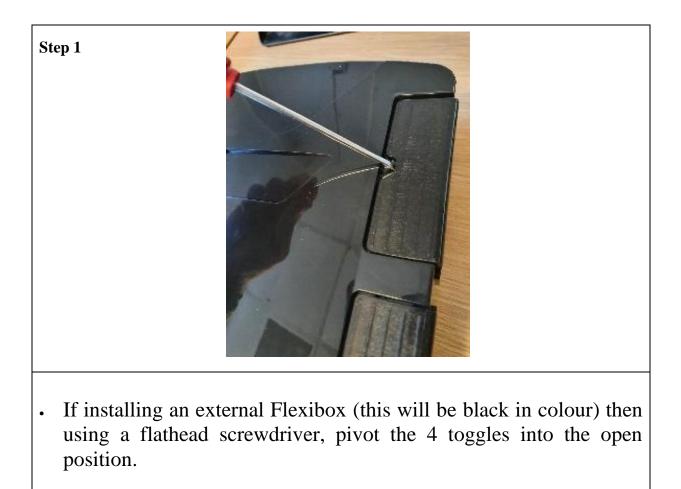
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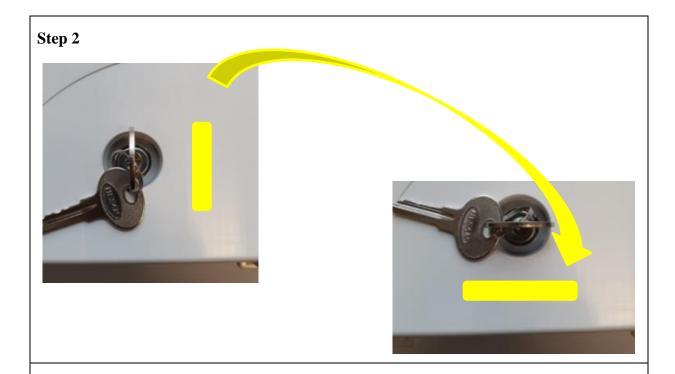
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- 5. Box closedown and secure
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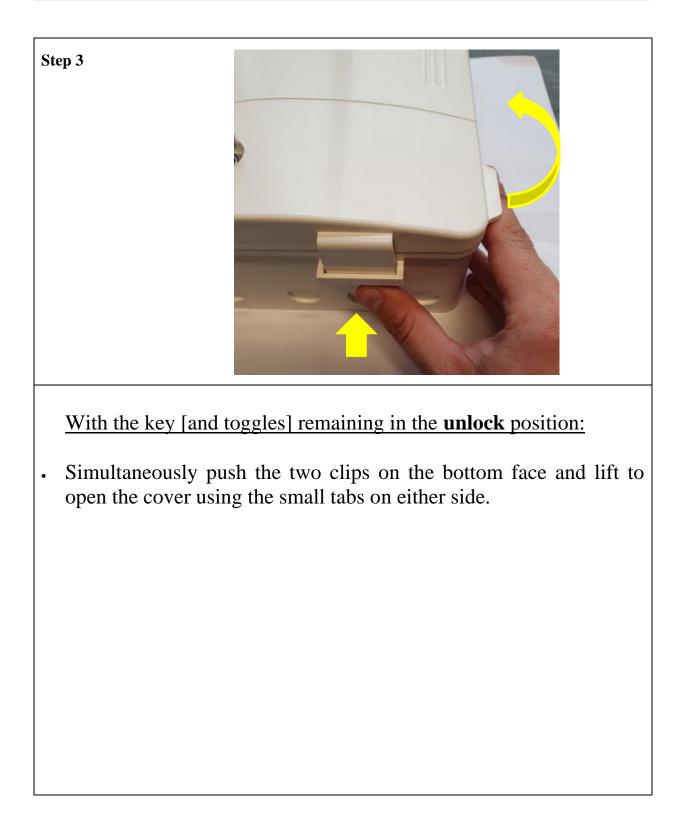
1.0 BOX OPENING

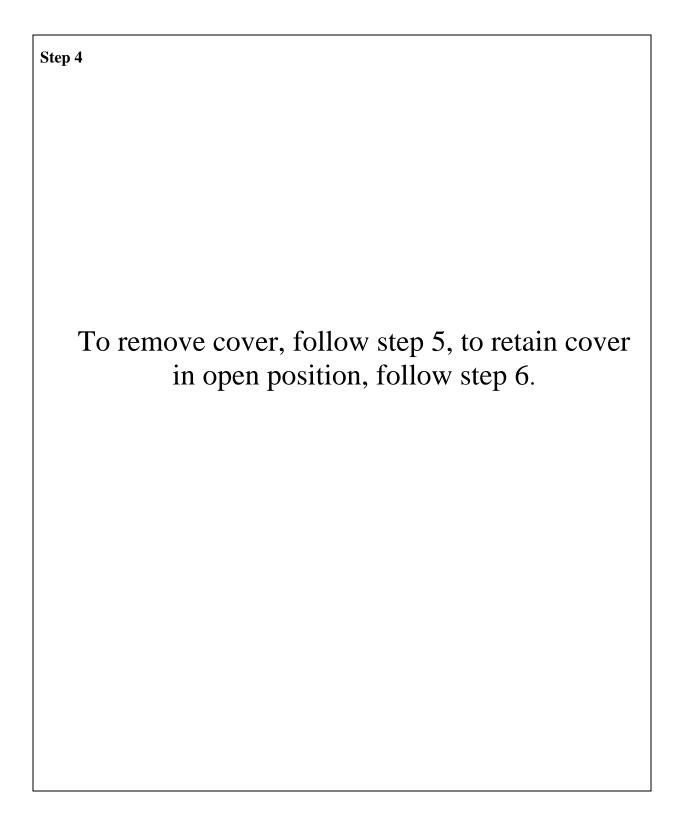


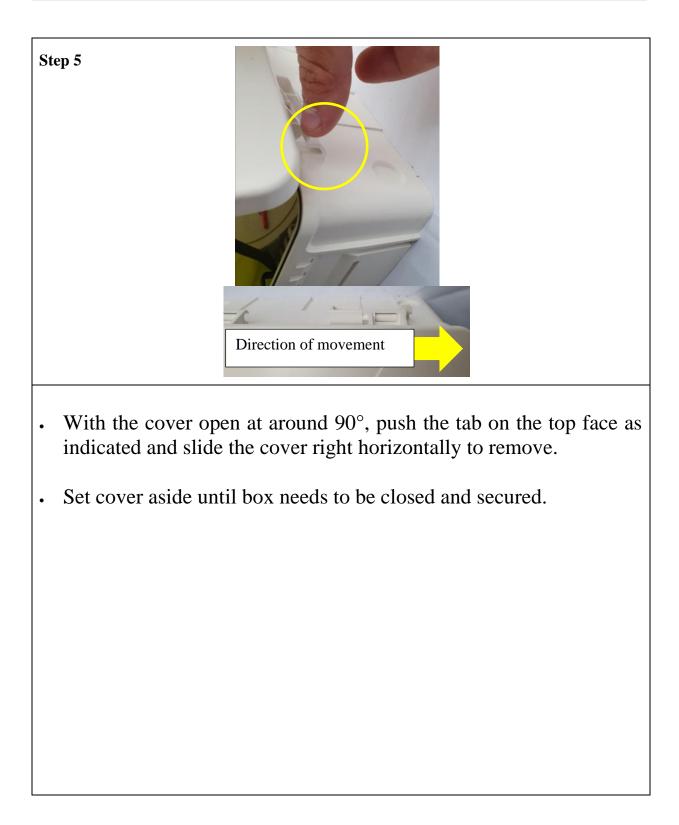
• For an internal Flexibox, skip to step 2.



- If using a lock, use the key provided, insert into lock and turn 90° clockwise so the key is in the horizontal unlock position.
- If not using a lock, skip to step 3.









- If you are unable to remove cover and set aside, for example in aerial installations, push the cover to just over 180° where the cover will support itself.
- You will hear an audible click when the cover snaps over the bump on the base.

2.0 BOX WALL/POLE MOUNTING

Step 1

For wall mounting using INTERNAL mounting positions, follow section 1 to open box and remove cover, then follow steps 2 and 3.

For wall mounting using EXTERNAL mounting positions, follow steps 4 and 5.

For pole mounting follow step 6.

Note: Internal mounting is only suitable for internal environments where moisture ingress is highly unlikely.

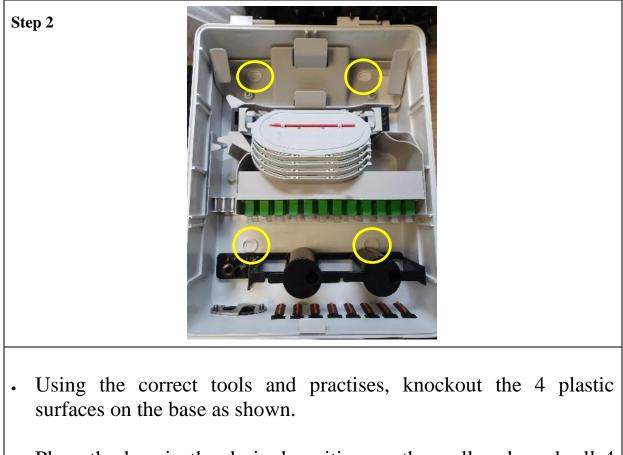
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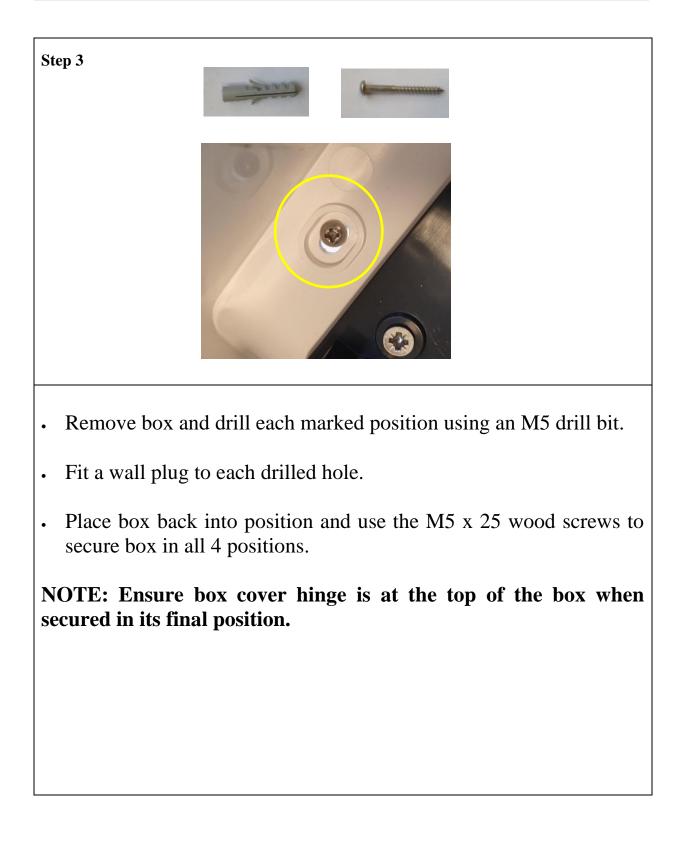
Date: 25th August 2023

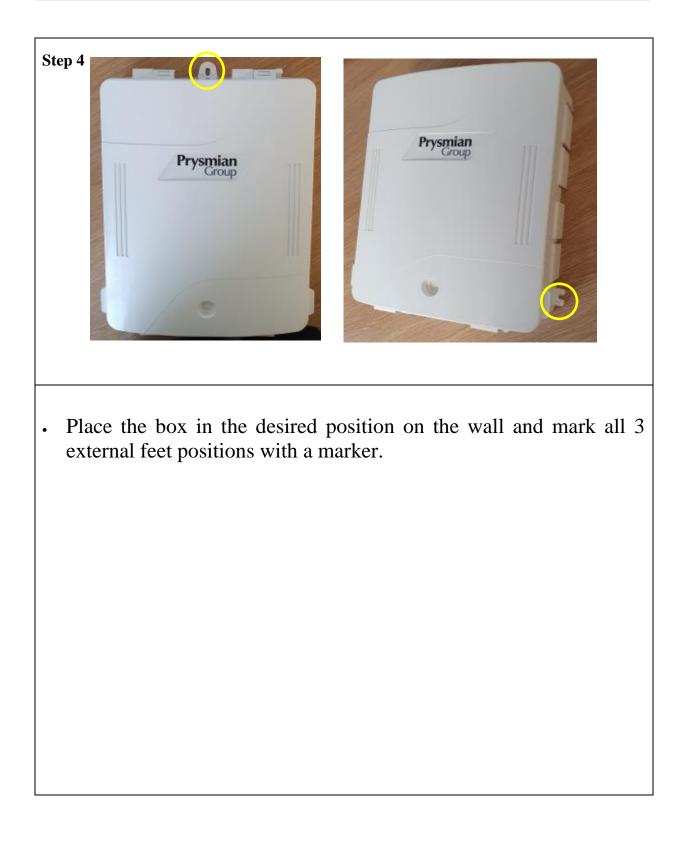
2.0 BOX WALL/POLE MOUNTING

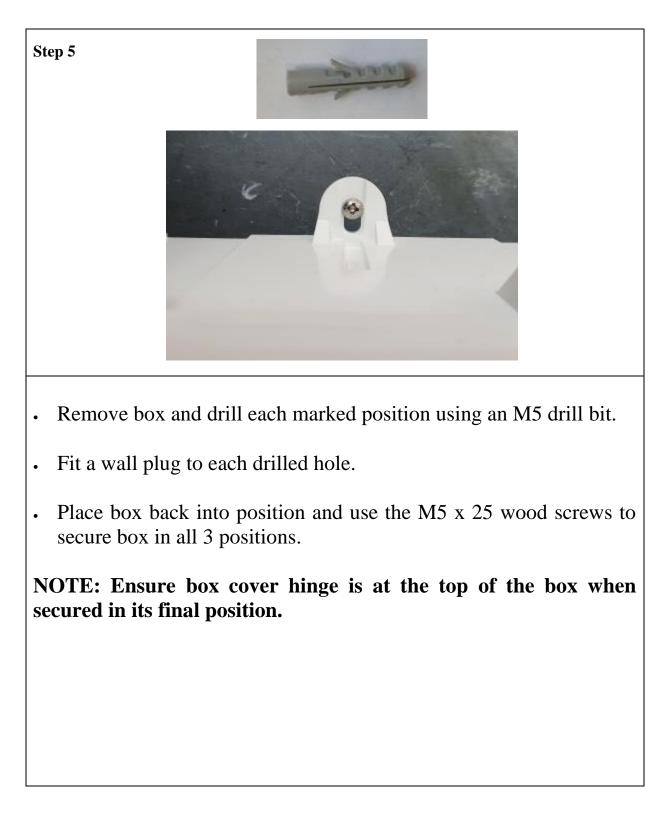


• Place the box in the desired position on the wall and mark all 4 knocked out positions with a marker.

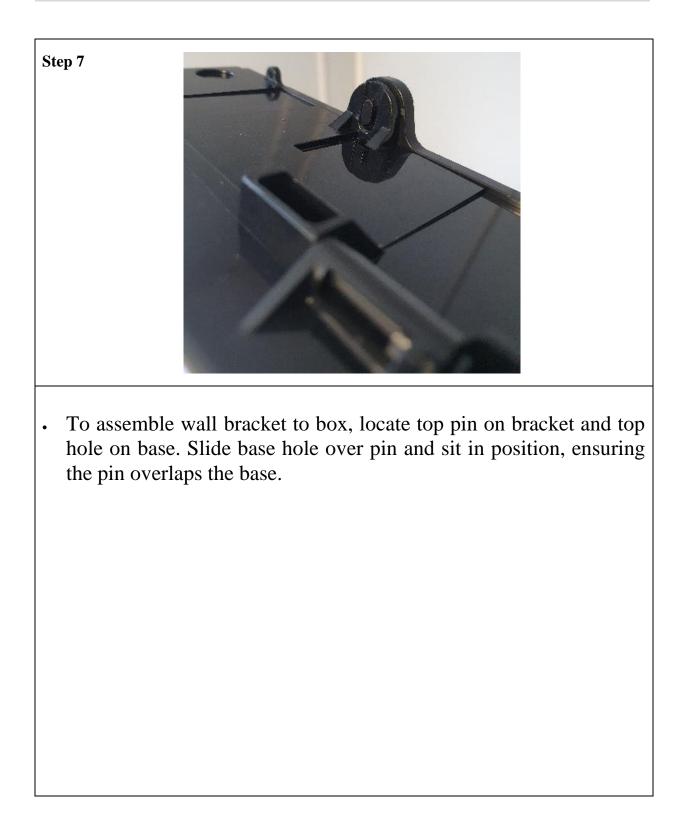
NOTE: mark the centre of the opening.







Step 6 To pole mount using bracket
• If box is supplied already attached to bracket go straight to step 9.
• If bracket is supplied separately as a kit, follow steps 7 to 9.



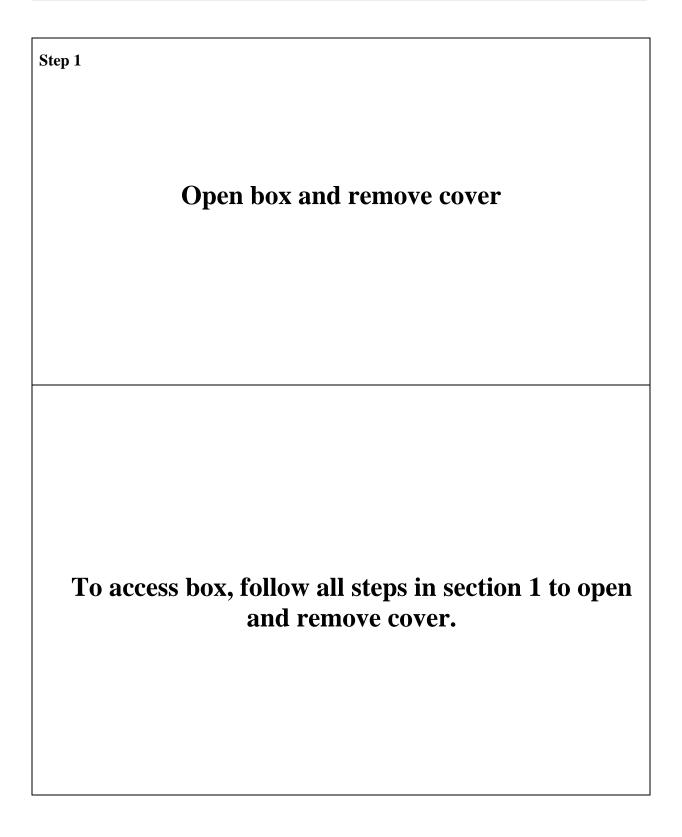


2.0 BOX WALL/POLE MOUNTING



• With bracket assembled to box, place the two band clamps through the strap holes, lift into position and tighten using flathead screwdriver.

3.0 INPUT CABLE INSTALLATION



Issue Number: 02

Date: 25th August 2023

3.0 INPUT CABLE INSTALLATION

Step 2

- Ensure you have a correct oval port for the cable to be installed, regardless of whether you require a loop.
- Strip 2m of the cable, either midspan or butt to be spliced.

Note: If installing a second cable into an existing oval port, remove any blank and move to step 5.

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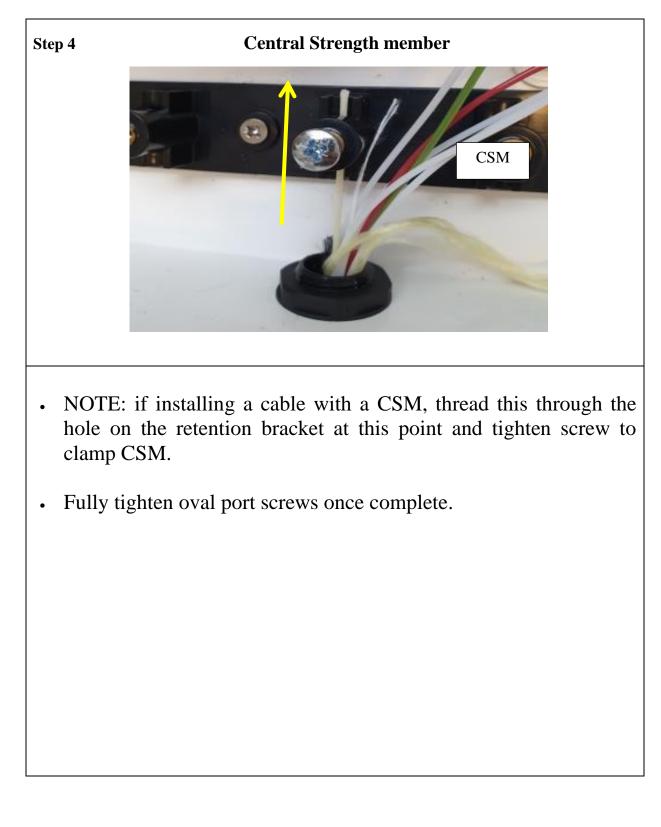
3.0 INPUT CABLE INSTALLATION



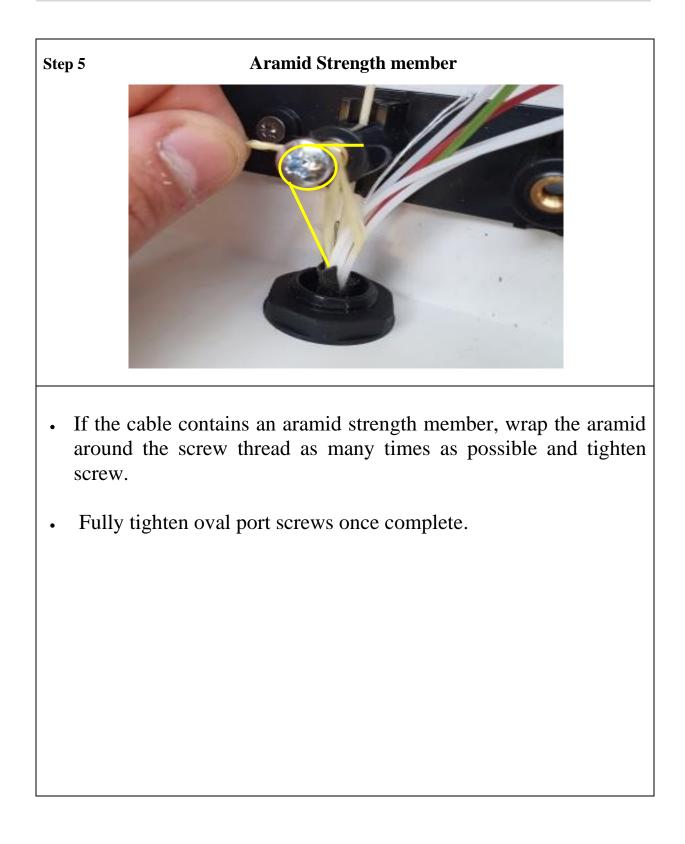
- Assemble Oval port around cable as per Installation Guide provided in the kit.
- Push the cable and oval port through the hole in the base until the lip sits flush with the edge as shown.

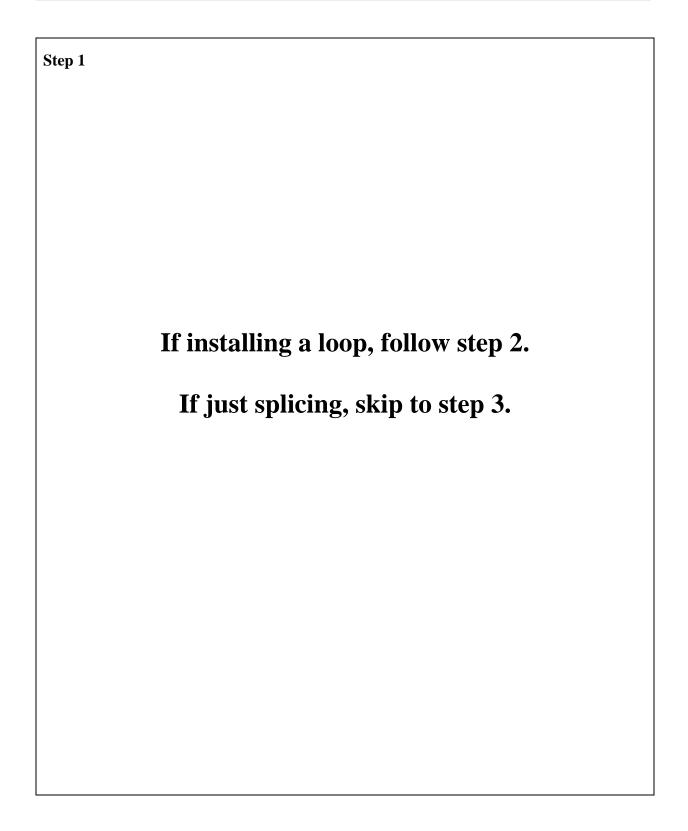
Note: Do not fully compress rubber seal until the oval is in its final position. You may need to decompress to push through hole in base.

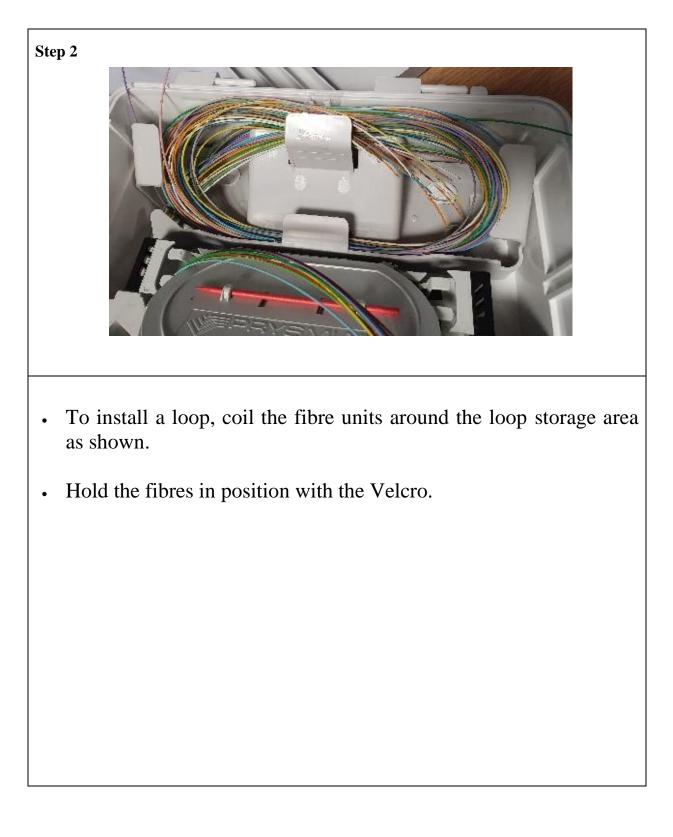
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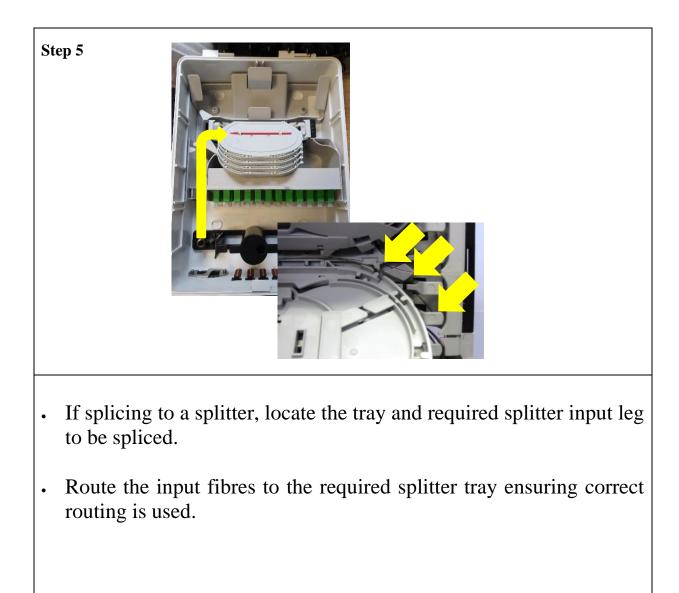


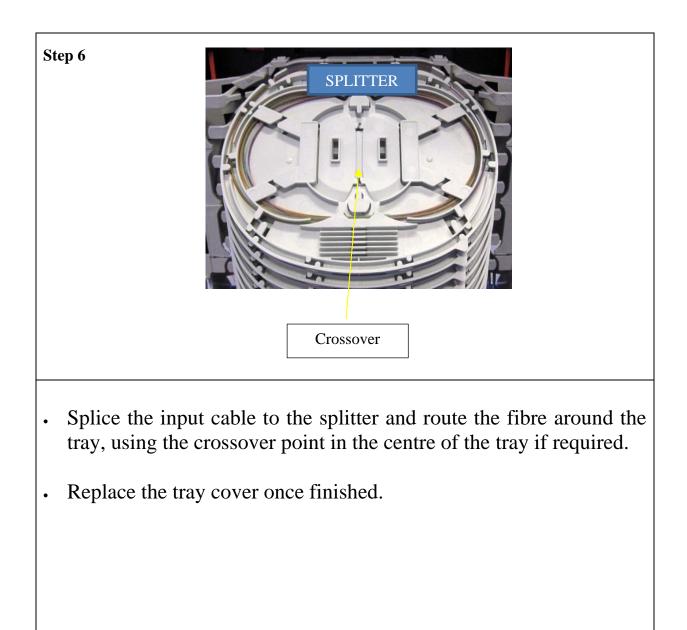




Step 3
If splicing direct to pigtails, follow steps 4 to 5.
If splicing to a splitter(s) follow steps 5 to 6.
• Route the fibres to be spliced onto the trays as shown and splice to the required pigtail.
Note the sequence on the label on the top of the patch panel.

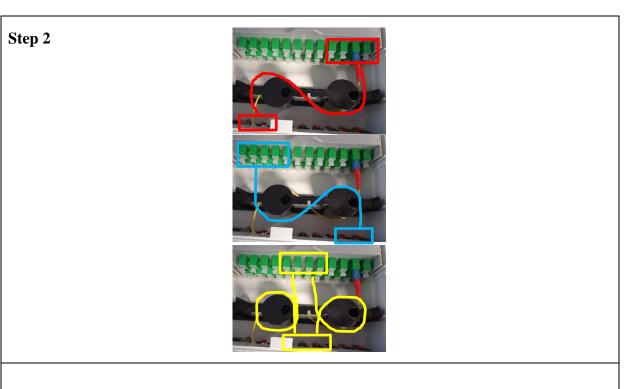
Step 4
Repeat step 8 until all splices are completed.
• Replace tray cover once finished splicing.





Step 1 To install a cable using the grommet system, follow steps 2 to 9. To install a cable using the gland system, follow steps 10 to 17.

4.0 INSTALLING A DROP CABLE

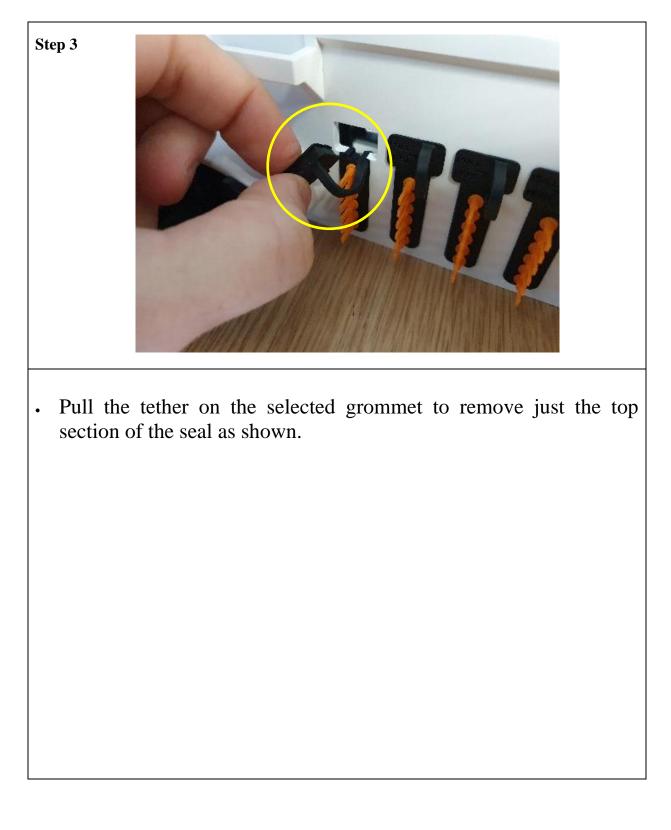


To install a cable using the grommet system

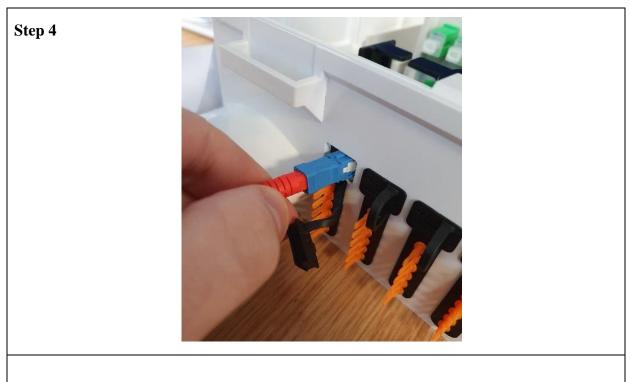
- Locate the adapter position you need to plug the drop cable connector into.
- Follow the diagram above to determine which input grommet you should use in relation to the adapter position.

Note: Ensure the drop cable circles at least one mandrel to maintain retention.

4.0 INSTALLING A DROP CABLE

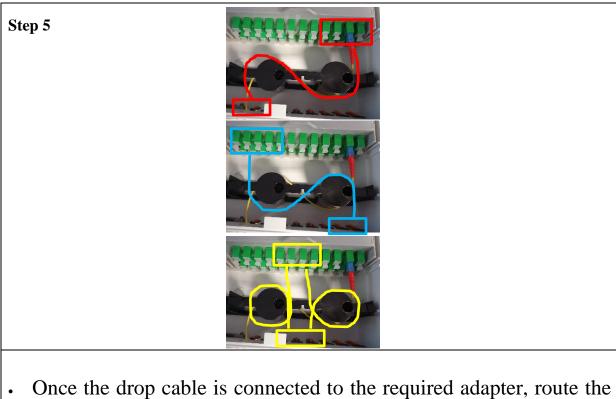


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- Feed the connector through the open hole.
- Connect drop cable connector to the desired adapter on the patch panel.

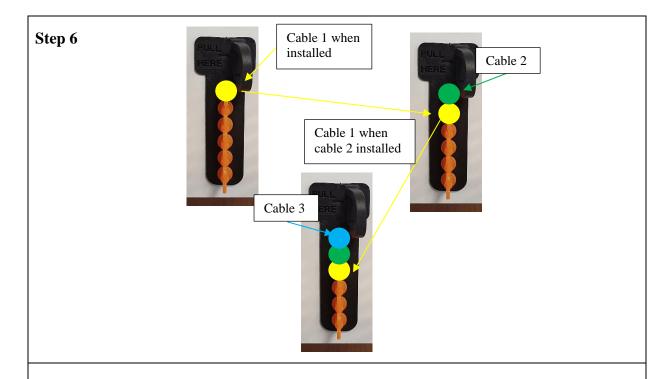
4.0 INSTALLING A DROP CABLE



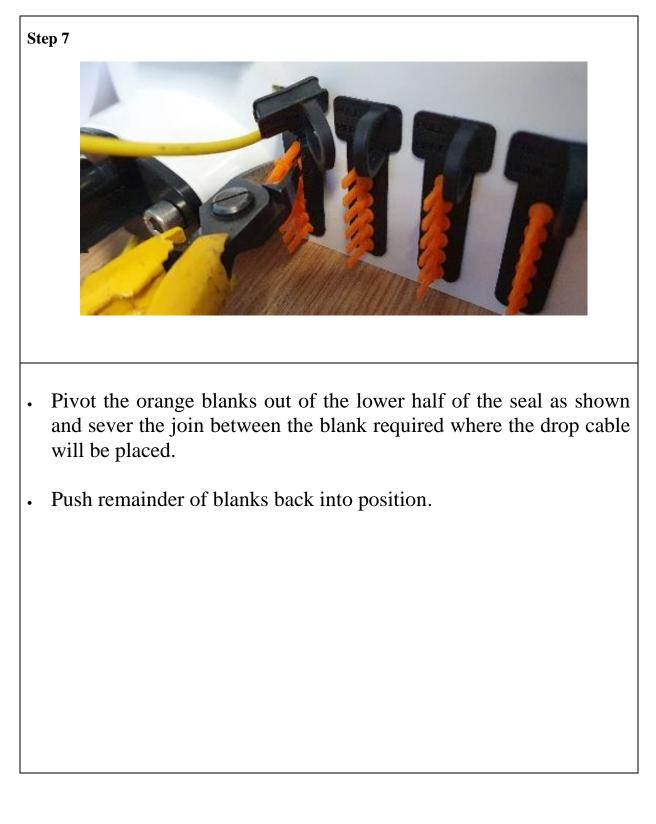
• Once the drop cable is connected to the required adapter, route the cable around as shown also taking any excess into account.

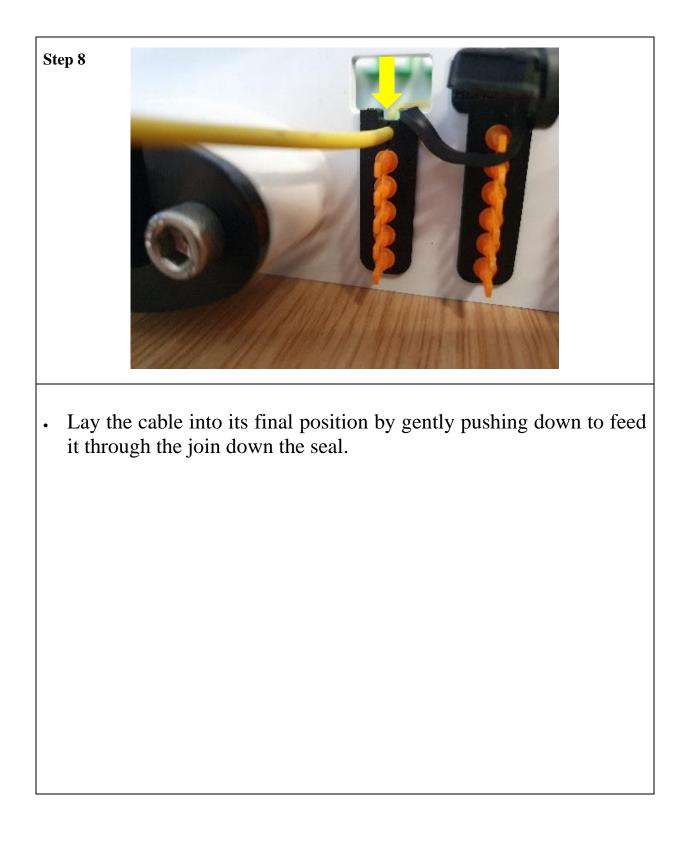
Note: Ensure each cable is coiled around at least one mandrel to ensure retention.

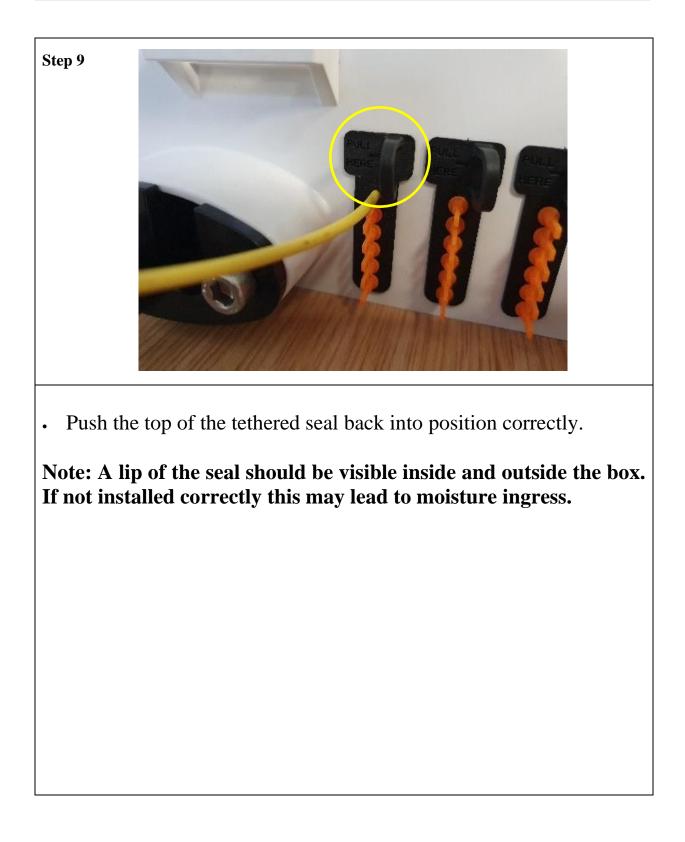
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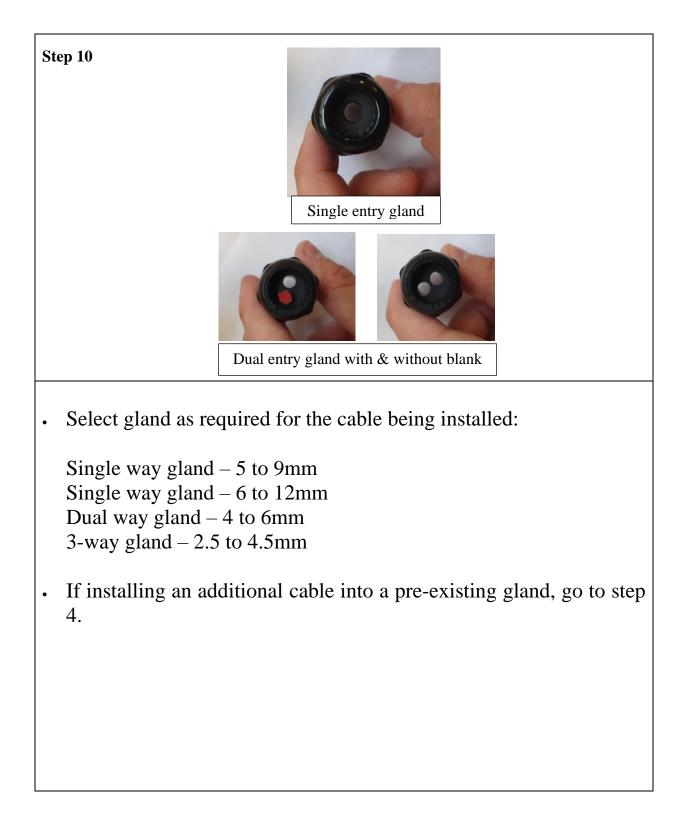


- Drop cables must be laid into the grommet slots from the top down. You must move down any existing cables down to the next position before installing a new cable.
- Ensure not to leave any holes without a cable or blank in them. Blanks should be plugged in individually if accidently cut.

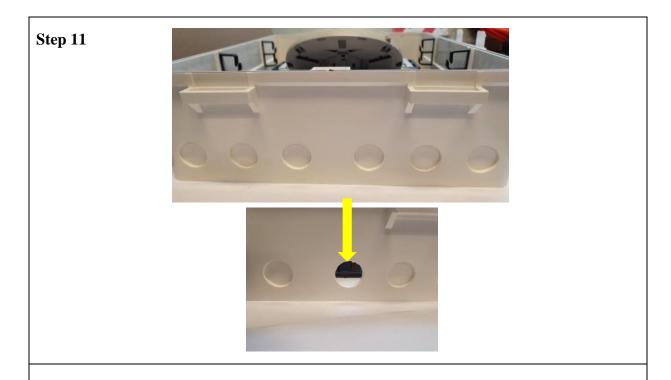








4.0 INSTALLING A DROP CABLE



• Locate and select the required entry position to be used for installing the gland.

NOTE: This can be on top or bottom face of the box.

• Knockout the plastic from the selected position to allow the gland to be inserted using approved practises and tools.

Step 12		
	1.2m	
	(Bottom entry)	
	1.5m (Top entry)	

- Remove any existing blanks if necessary and feed 1.2m (1.5m if using a top entry position) of cable through the gland and gland seal as indicated and tighten nut enough to stop cable slipping out.
- Add blank to empty cable position if required.
- Skip step 5 if installing an additional cable into a pre-existing gland.

4.0 INSTALLING A DROP CABLE



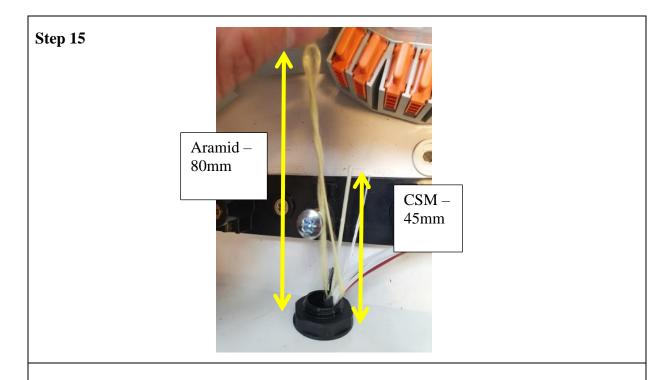
- Push gland into knocked-out hole position and feed nut over cable on inside of the box. Ensure any rubber seal is securely on the thread of the gland.
- Securely tighten nut on inside of the box.

NOTE: Use adjustable spanner to fully tighten if necessary.



- Mark the cable sheath in the position as indicated in the picture above. This is the total cable length to strip.
- Loosen the gland nut on the outside of the box and feed through an additional 15mm of cable.

4.0 INSTALLING A DROP CABLE



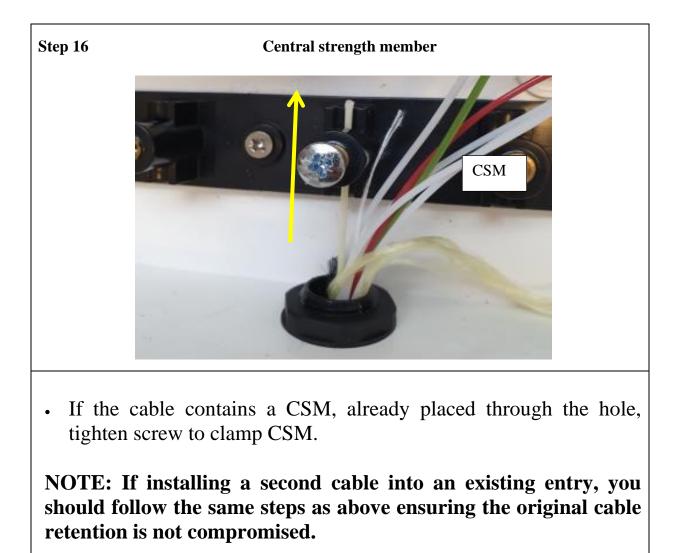
• Strip the cable from open end to where the sheath is marked from step 6 down to fibre elements using approved practises, exposing the strength member as below:

CSM – 45mm Aramid – 100mm

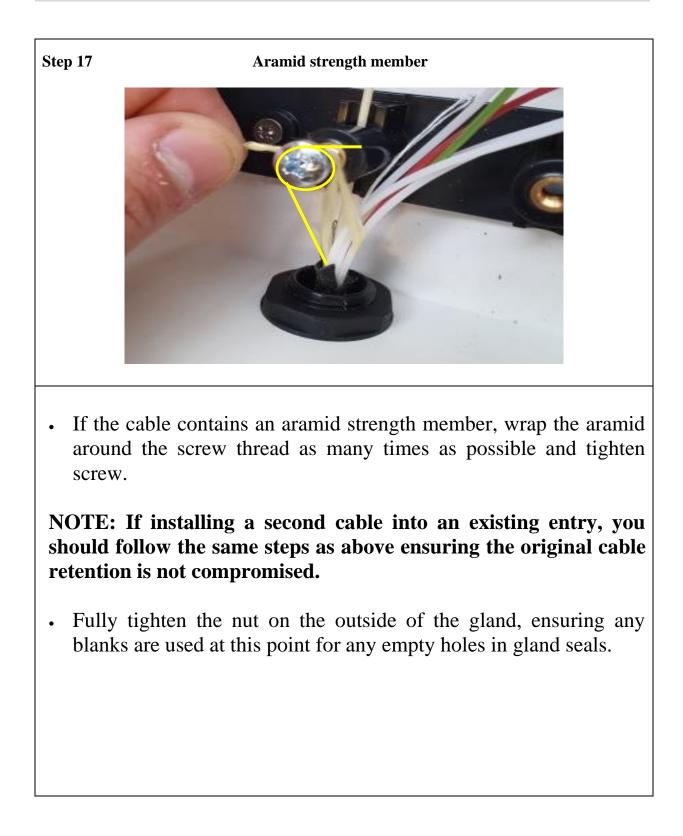
• Pull cable butt back in line with end of the cable gland once stripped.

NOTE: if installing a cable with a CSM, thread this through the hole on the retention bracket at this point.

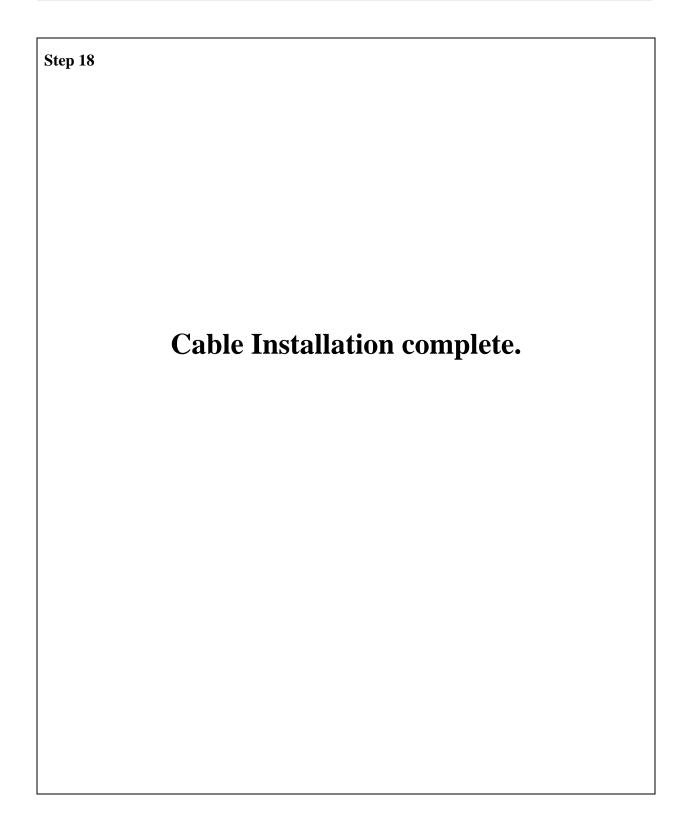
4.0 INSTALLING A DROP CABLE



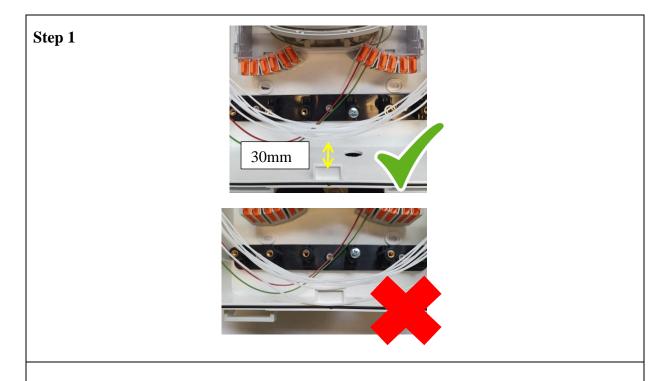
• Fully tighten the nut on the outside of the gland, ensuring any blanks are used at this point for any empty holes in gland seals.



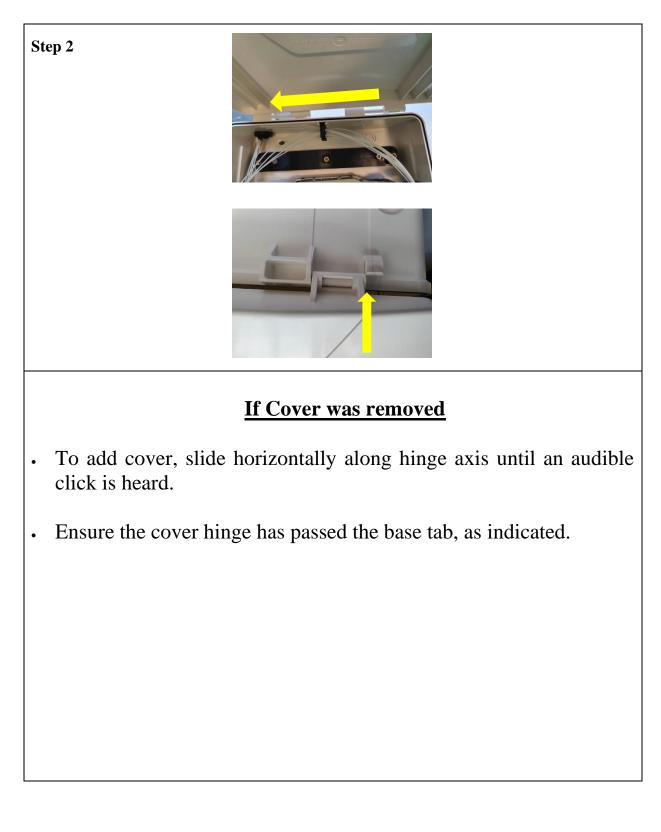
4.0 INSTALLING A DROP CABLE



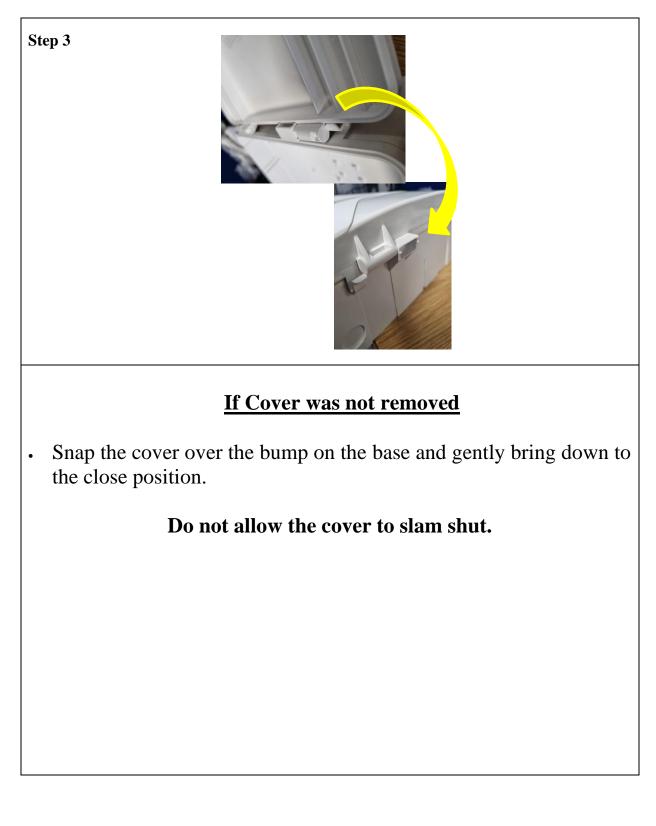
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- To close box, first ensure any excess fibre elements are stored appropriately inside the storage catches particularly that the elements do not sit above the tab as indicated.
- Allow a minimum of 30mm distance between stored elements and end of tab.



5.0 BOX CLOSEDOWN AND SECURE



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