OAsys® INTERNAL PLANT

OTIAN ASDH Auxiliary Shelf 3A

Part Number: XEXSC00423 BT Item Code: 023901

Description

- Allows termination of up to 12 fibres.
- Supplied as one unit containing 2 splice modules. Each module houses 2 splice trays.
- Suitable for Splicing 3 Fibres per Splice Tray.
- Suitable for 19” or ETSI rack mounting practice.
- SPACE ENVELOPE: 535mm x 230mm x 44mm (W x D x H).

Tools & Additional Items Required

Additional Items Required:	Prysmian Part No.	BT Item Code
Splice protectors 4A	XPESC00053	075110
Restraint Kit 2A	XAPSC00546	075869

Fixings:	No fixings required
Tools:	Pozi Drive Screwdriver No.2, 24mm Spanner,
	BT Stripper Fibre 3A.

Component Parts (pictures not to scale)

1 Splice Shelf Assembly **Qty 1**

2 Installation Kit **Qty 1**

For Contents refer to Numbers 3 to 9 below.

3 Screw M6 x 12mm Pozi Pan Hd. **Qty 8**
6 Cable Ties. **Qty 2**

4 M6 Cage Nuts **Qty 4**
7 ETSI Adapter Mounting Brackets. **Qty 2**

5 M6 Nylon 6 Washers **Qty 8**
8 Portex Tube **Qty 1mtr**

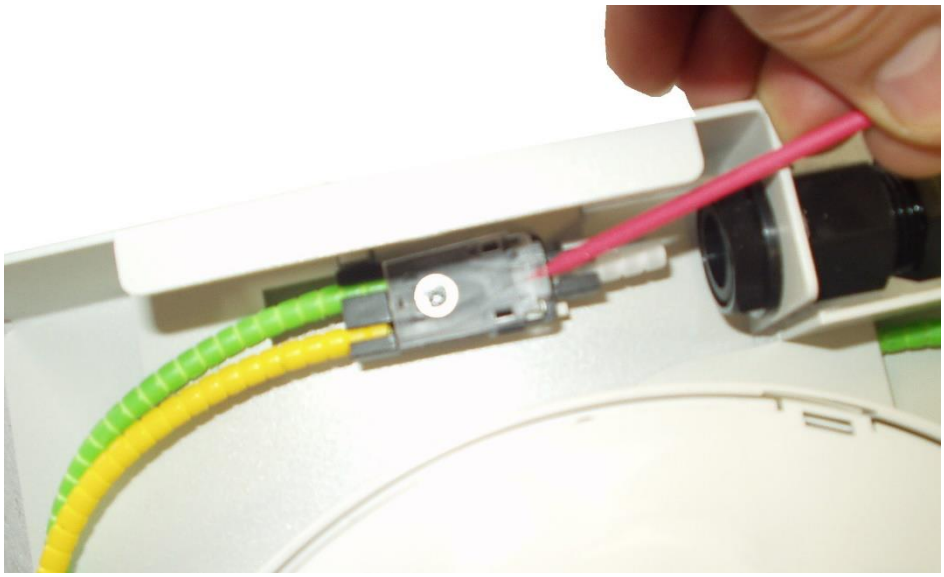
Step 1

PREPARATION STEP

- Prior to installation ensure that there is a minimum of 4m of cable spare for installation, termination, and storage purposes.

12 Fibre Cable Installation

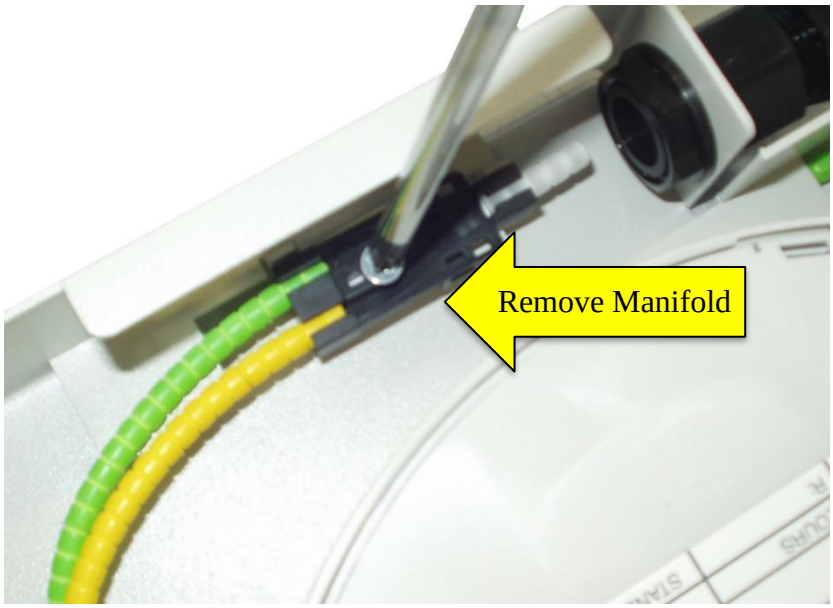
Step 2



- Identify the 2-way manifold. Remove clear plastic cover from the manifold exposing the two channels.

12 Fibre Cable Installation

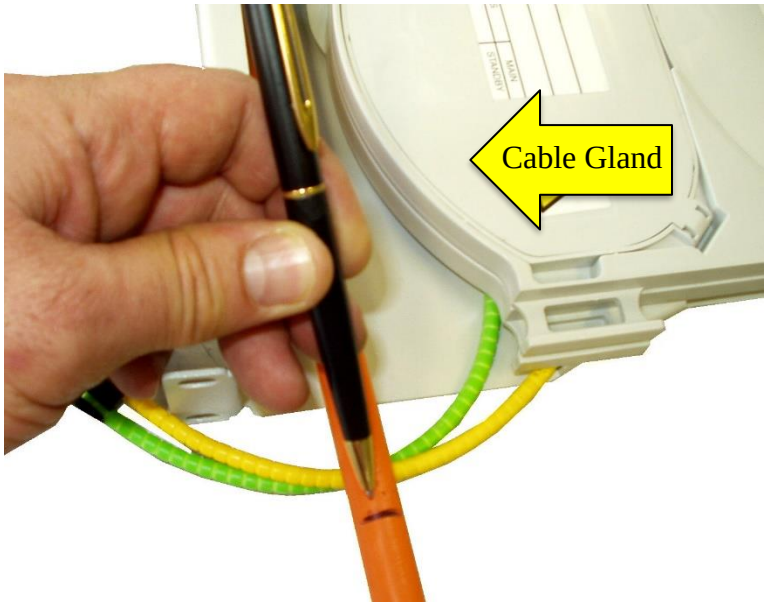
Step 3



- Temporarily remove the 2-way manifold and tubes from its fixed position by removing the fixing screw.

12 Fibre Cable Installation

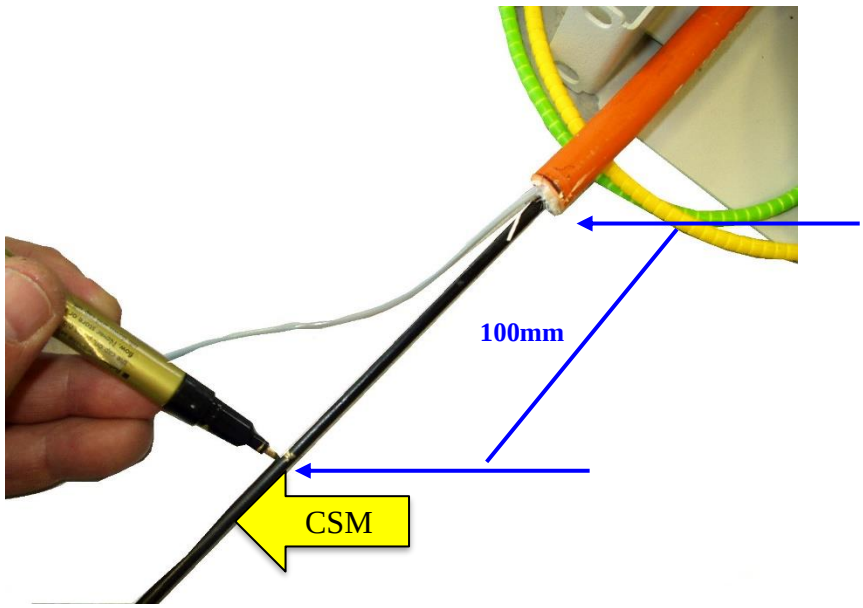
Step 4



- Slacken Cable Gland and thread cable through.
- Measure 3m from end of cable and mark the sheath. This will be the ‘Cable Butt’.

12 Fibre Cable Installation

Step 5

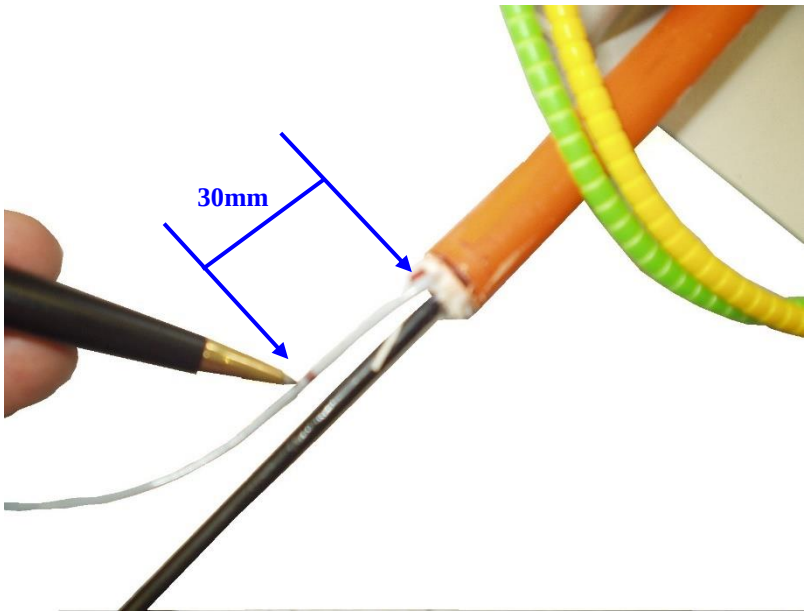


- Remove sheath from the 'Butt Mark' to expose the cable elements. Remove unwanted cable elements at the butt.

- Cut the Central Strength Member (CSM) to a length of 100mm from the cable butt.

12 Fibre Cable Installation

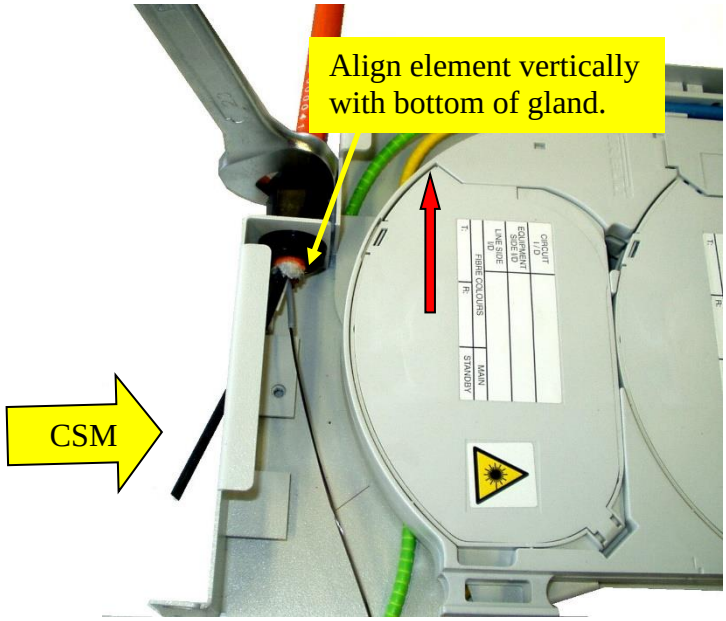
Step 6



- Make a mark on the single 12 Fibre cable element 30mm from the cable butt.
- Use a **BT Stripper Fibre 3A** to remove the protective tube/sheath from the element back to this mark to expose the fibres.

12 Fibre Cable Installation

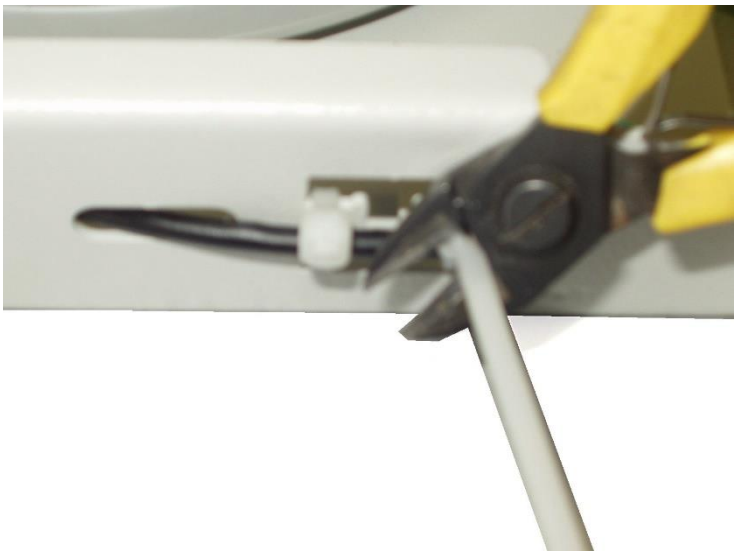
Step 7



- Slide cable back through the cable gland until the ‘Butt’ is in line with the end of the cable gland.
- Feed the CSM through the slot in the sidewall.
- Align cable in gland such that single cable element is positioned at the bottom of the cable gland under the CSM.
- Tighten cable gland to anchor cable using an appropriate spanner.

12 Fibre Cable Installation

Step 8



- Secure the CSM to the sidewall using the 2 cable ties **(6)**. Remove excess length of cable ties using a ‘flush cutter’.

12 Fibre Cable Installation

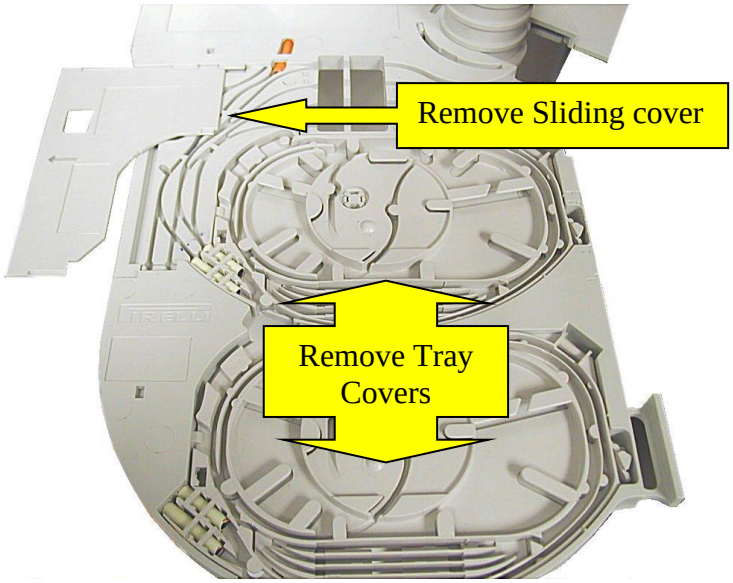
Step 9

- Carefully refit the two-way manifold and tubes removed in Step3.
- Temporarily store the exposed fibres.
- Select the 12 fibres from the cable element and split these into 2 groups of 6.
- Feed the first group of 6 Fibres into the Yellow Bend Limiting Tube (BLT).

NOTE: The Fibre Colours in each group will be as directed by the BT planner.

12 Fibre Cable Installation

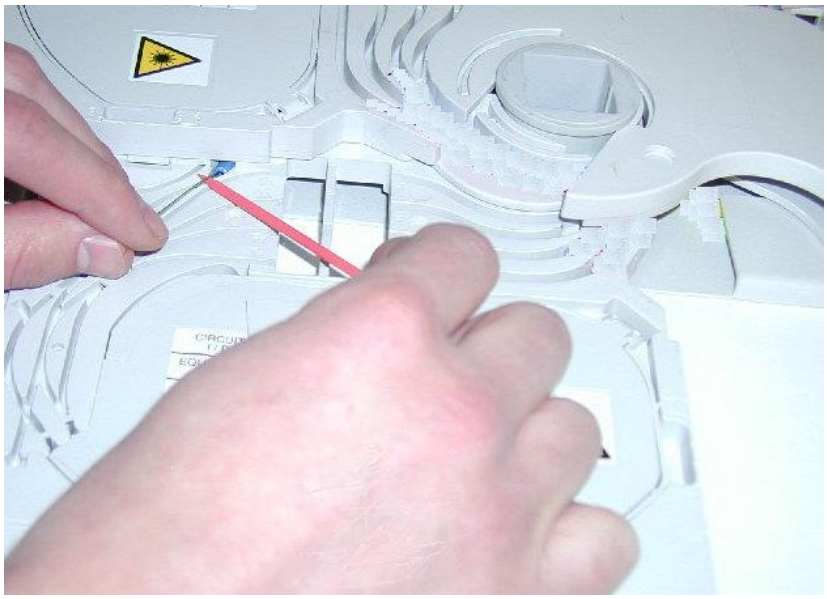
Step 10



- Fully open the lower Splice Module.
- Open both splice tray covers. Remove the sliding cover of the Splice Module to reveal the fibre tracks and the fibre-guiding pin.

12 Fibre Cable Installation

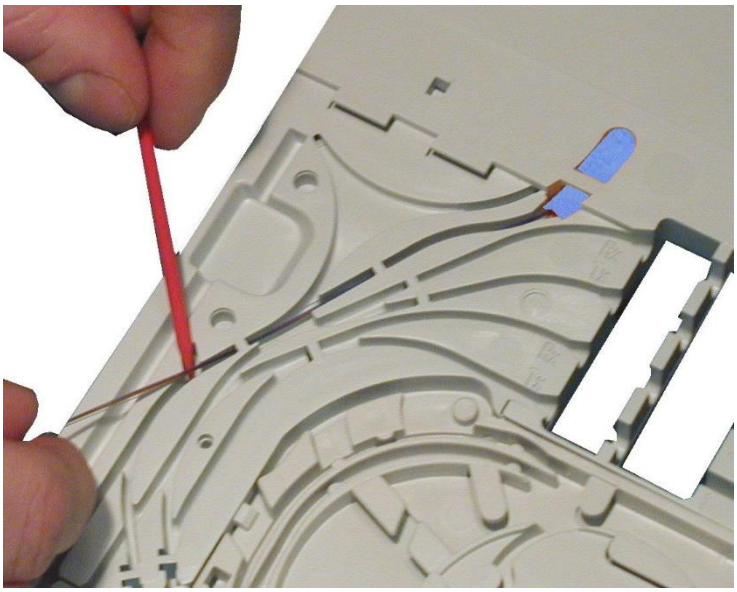
Step 11



- Continue feeding the first group of 6 fibres until they exit the blue tube. Remove fibres using the guide pin and pull fibres through.

12 Fibre Cable Installation

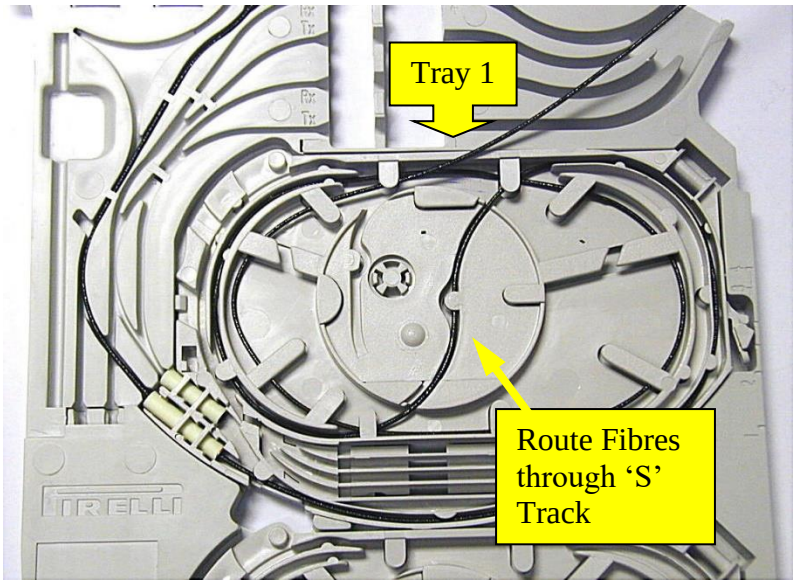
Step 12



- Continue feeding fibres onto the Splice Module, along the track, and under the first two track bridges.

12 Fibre Cable Installation

Step 13



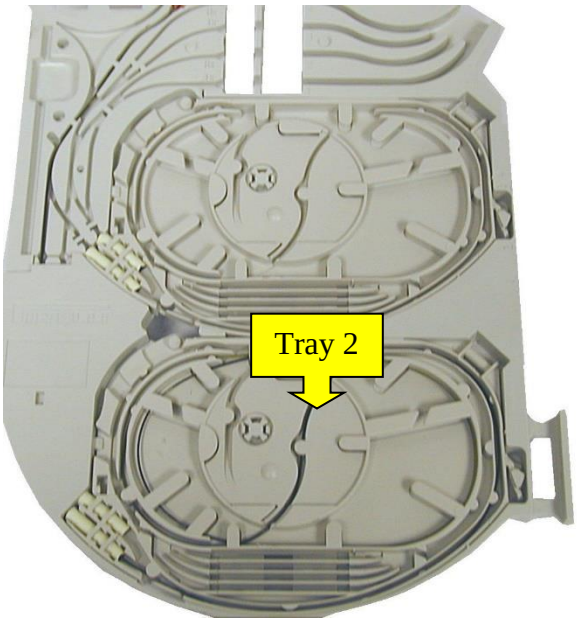
- Segregate the 6 fibres into 2 groups of 3 fibres. Route the first group onto splice tray No.1 (Nearest the Pivot Bush).

- Route the fibres anti-clockwise ½ a turn around the tray, through the 'S' Track and coil within the tray storage area for later use.

NOTE: The Fibre Colours in each group routed to the Splice Tray will be as directed by the BT planner.

12 Fibre Cable Installation

Step 14

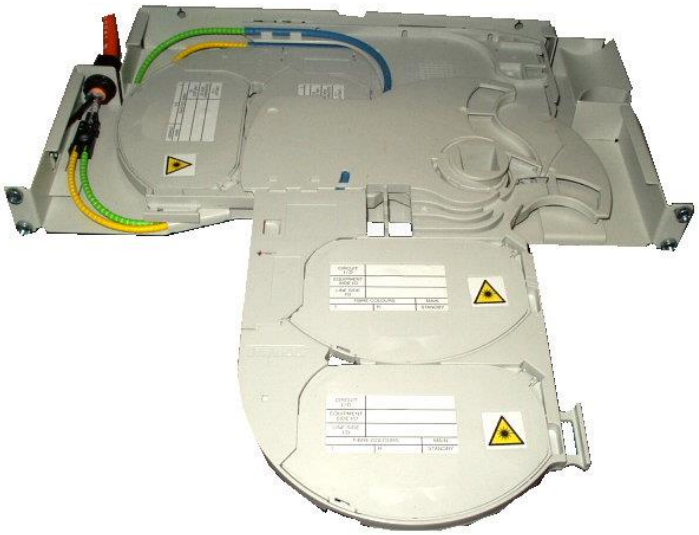


- Route the second group of 3 fibres through the outer track and onto Splice Tray 2 (nearest the user).
- Coil and store fibres as for tray 1.
- Check that all fibres are within their respective tracks.
- Replace all covers.

NOTE: The Fibre Colours in each group will be as directed by the BT planner.

12 Fibre Cable Installation

Step 15

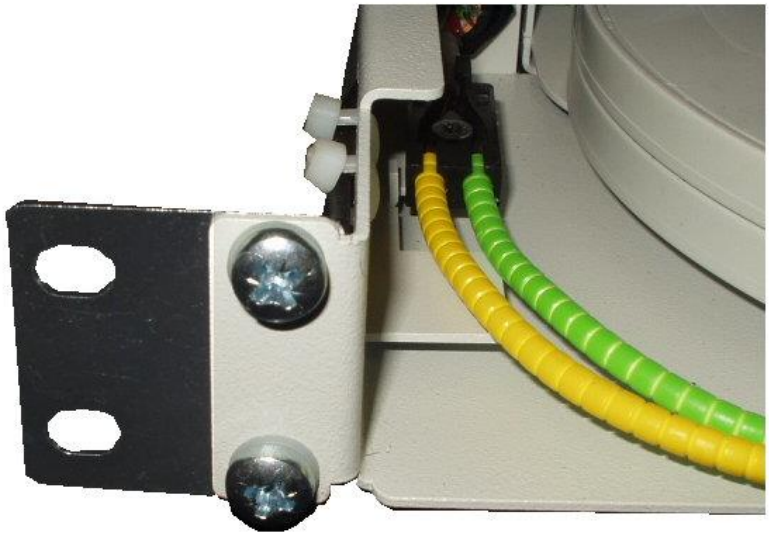


- Fully open the top splice module and feed the remaining group 6 fibres into the Green BLT. Continue feeding the fibres until they appear out of the blue tube.

- Repeat **Steps 11 to 14** for fibres inserted into the Green BLT.

12 Fibre Cable Installation

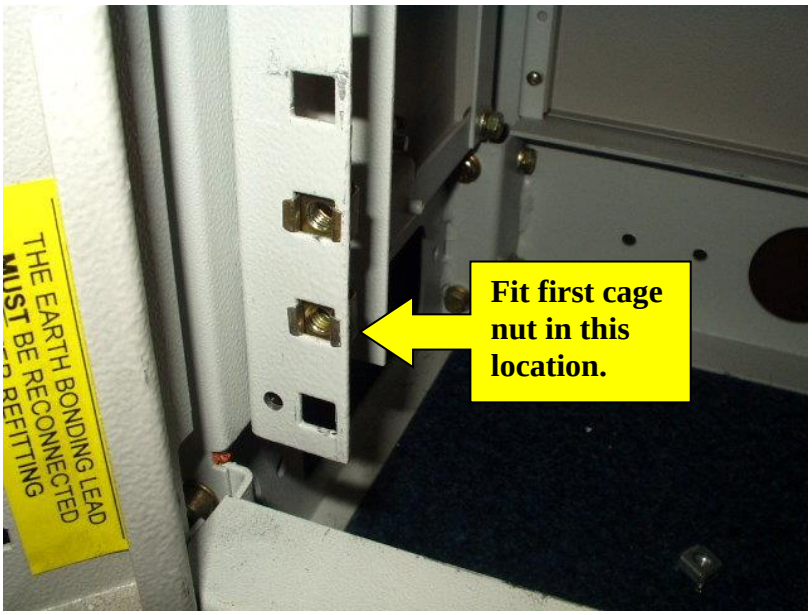
Step 16



- If the sub rack is to be used in an ETSI front mounted rack, fit the 2 conversion brackets **(7)** using 4, M6 x 12mm screws **(3)** and 4, M6 Nylon Washers **(5).**

12 Fibre Cable Installation

Step 17



- Select the rack mounting position for the shelf and fit 4 Cage nuts **(4)** into the rack uprights.

NOTE: The lower cage nut is fitted in the second location hole from the bottom of the mounting rail.

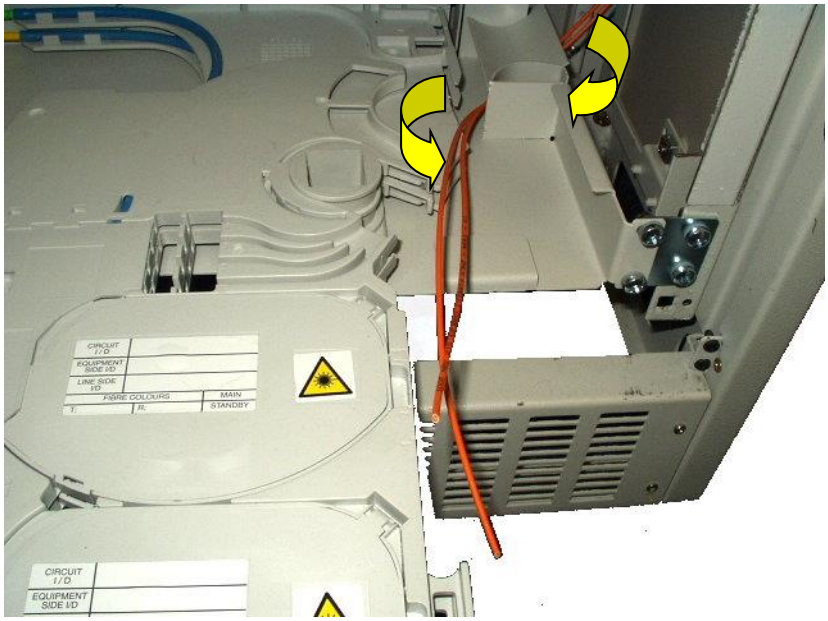
12 Fibre Cable Installation

Step 18

- Using 4, M6 x 12mm screws **(3)** and 4, Nylon Washers **(5)** fit shelf and cable in position.

COF8001 Jumper Installation

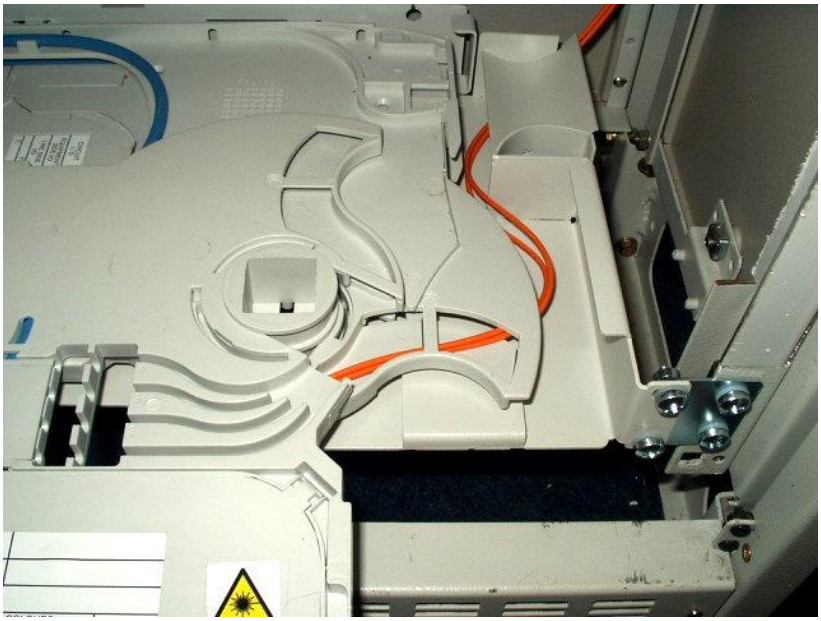
Step 19



- Fully open both modules.
- Feed the **First Pair** of jumpers down the rack and under the rear bend manger on the splice shelf.
- Continue feeding the jumpers through until approximately 2.0m of jumper have been threaded through.

COF8001 Jumper Installation

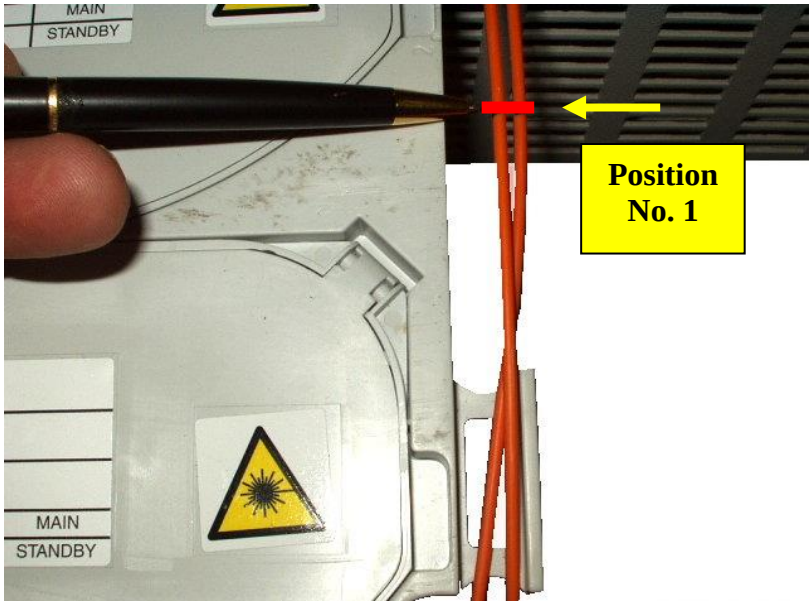
Step 20



- Close the top module.
- Feed the jumper cables around the channel until they protrude from the front of the Splice Module. Ensure that the jumper cables are correctly located under the three channel bridges.
- Pull 2 metres of cable through to the front of the Splice Module.
- Temporarily close the module to set length of jumpers.

COF8001 Jumper Installation

Step 21

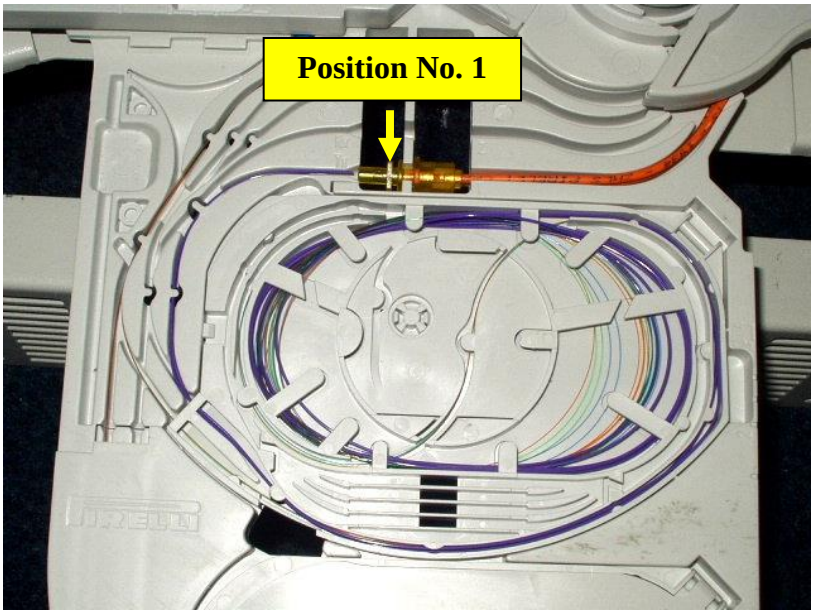


- Apply a butt mark to the 2 jumpers in accordance with its planned position within the Splice Module **(Position No. 1)**. Positions 1 and 2 are for routing to splice tray 1 and positions 3 and 4 are for routing to splice tray 2.

- Strip and prepare fibre in accordance with IP008 – Assembly of 2 jumpers into one restraint.

COF8001 Jumper Installation

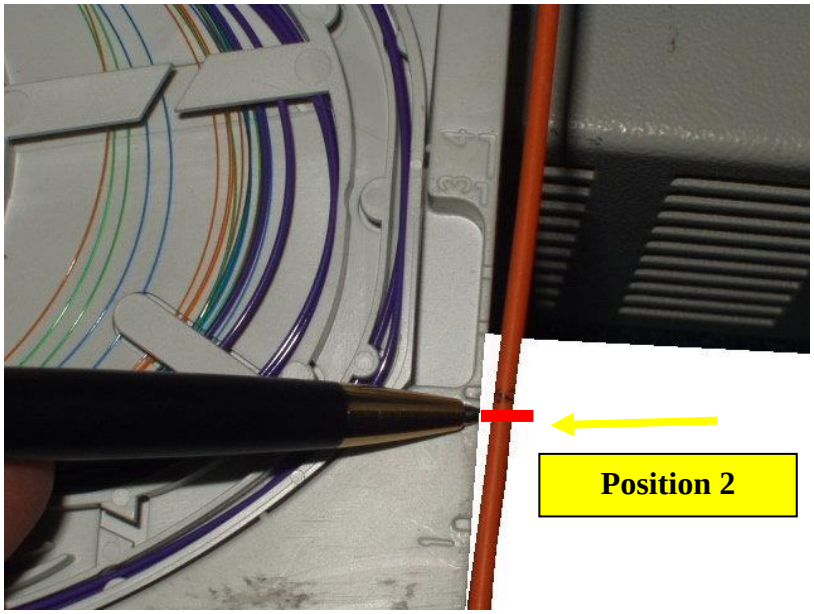
Step 22



- Locate the restraint **(containing the 2 Jumpers)** in to Position No.1 on the Splice Module.
- Route the 2 fibres through the tracks and on to Splice Tray No. 1.

COF8001 Jumper Installation

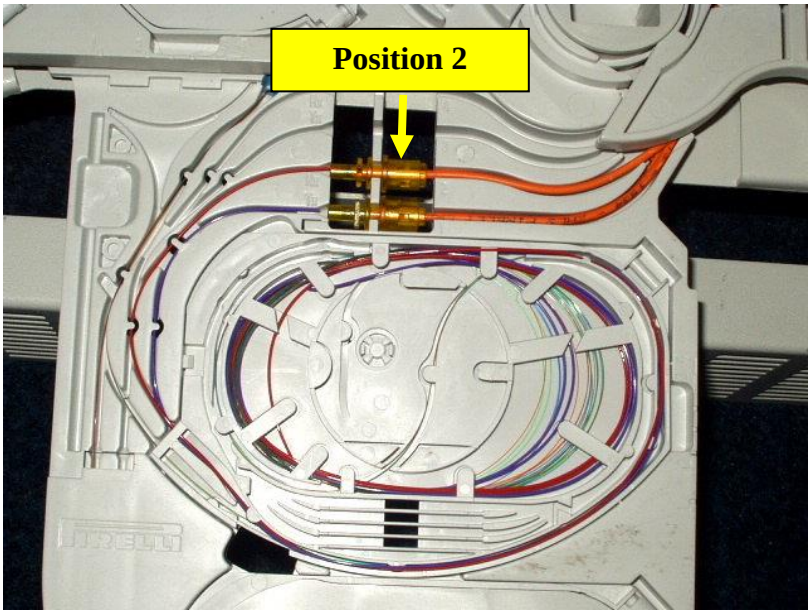
Step 23



- Repeat Steps 19 and 20, this time for a single jumper.
- Apply a butt mark to the jumper cable in accordance with its planned position within the Splice Module **(Position No. 2)**. Positions 1 and 2 are for routing to splice tray 1 and positions 3 and 4 are for routing to splice tray 2.
- Strip and prepare fibre in accordance with IP008 – Assembly of 1 jumper into one restraint.

COF8001 Jumper Installation

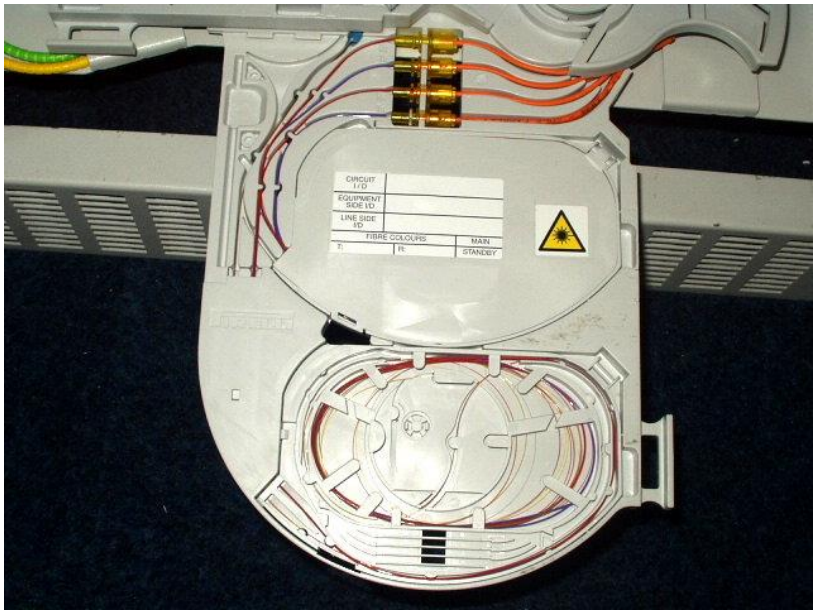
Step 24



- Locate the restraint **(containing the single Jumper)** in to Position No.2 on the Splice Module.
- Route the single fibre through the tracks and on to Splice Tray No. 1.

COF8001 Jumper Installation

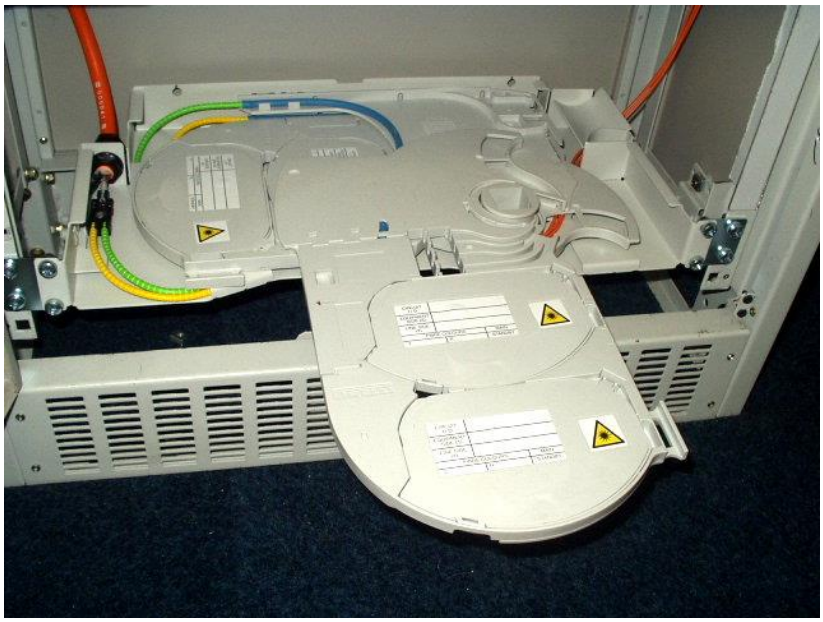
Step 25



- Follow Steps 19 to 24 for the next three jumper cables.
- Position the double jumpers in Position 3 and the single jumper in Position 4.
- Route the three fibres onto Splice Tray No. 2.
- Check fibre routing and ensure that all covers have been replaced on the splice trays and module.

COF8001 Jumper Installation

Step 26

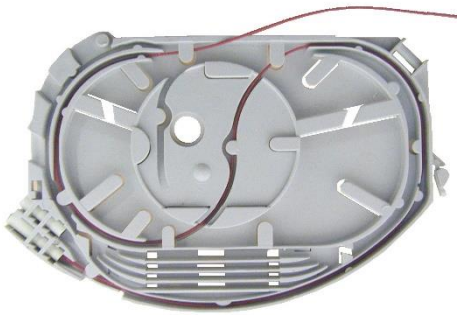


- Close the Lower Splice Module.
- Repeat Steps 19 to 24 for the Top Splice Module.
- Check fibre routing and ensure that all covers have been replaced on the splice trays and module.
- Close the top Splice Module.

Splicing

Step 27

Primary coated fibres from BF Bundle



Secondary Coated fibres from pre-installed pigtail.

- Carefully uncoil all fibres from the storage area.
- Separate the primary coated fibres from the secondary coated fibres and safely store fibres for splicing.
- Splice fibres.

NOTE: Each splice tray will have three splices. Primary Fibre colours to be spliced to the COF8001 Jumpers will be as directed by the Planner.

Splicing

Step 28

- Place splice protector in storage bay.
- Ensure splice protector has been pushed down to the lowest available position in the storage bay. Repeat for remaining fibre.

Splicing

Step 29

- Put loops of fibre away as shown. Ensure fibre is stored below tabs.
- Expand the fibre coils using light finger pressure and close splice tray cover.

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