OAsys® Equipment meets BT
OTIAN® Equipment Specifications

Prysmian
Group

INSTALLATION INSTRUCTION

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**

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12 Fibre Cable Installation

Step 1
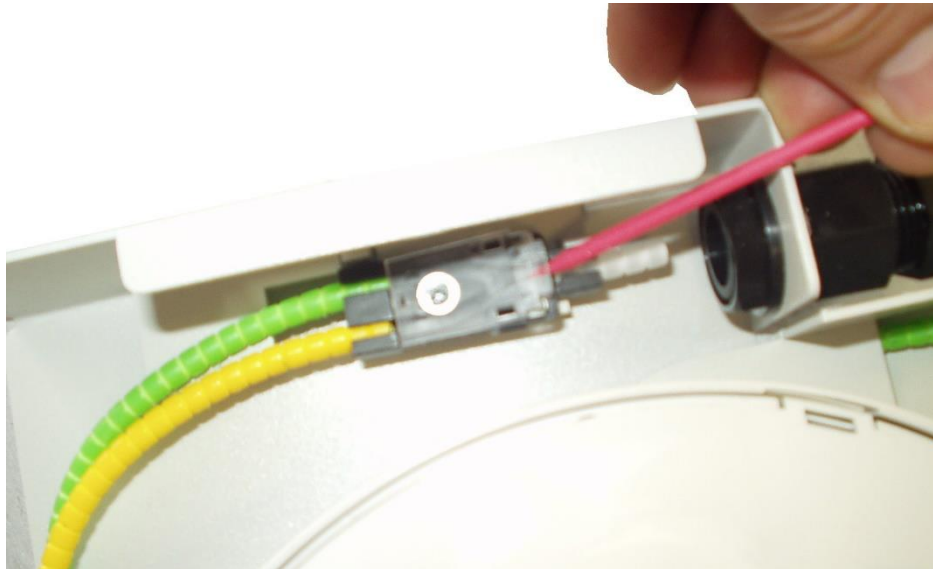
PREPARATION
STEP

- Prior to installation ensure that there is a minimum of 4m of cable spare for installation, termination, and storage purposes.
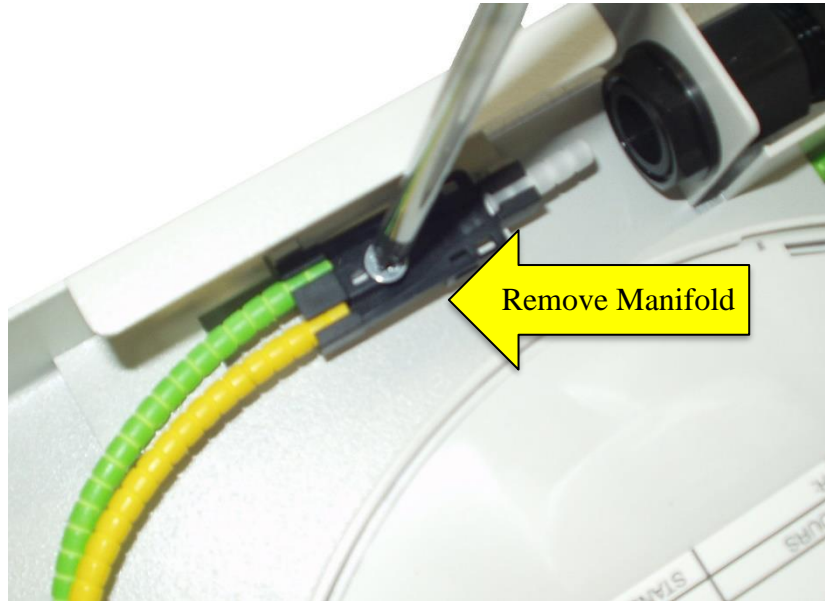
Step 2

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

12 Fibre Cable Installation

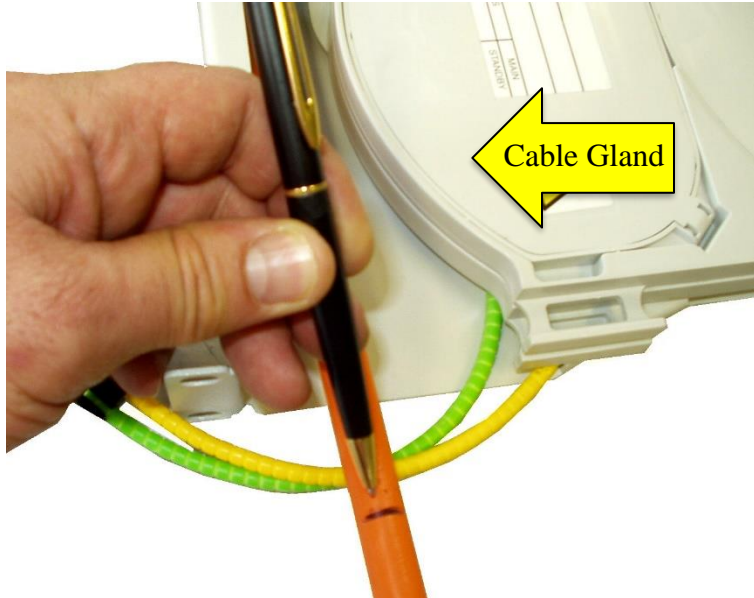**Step 3**

Remove Manifold

- Temporarily remove the 2-way manifold and tubes from its fixed position by removing the fixing screw.
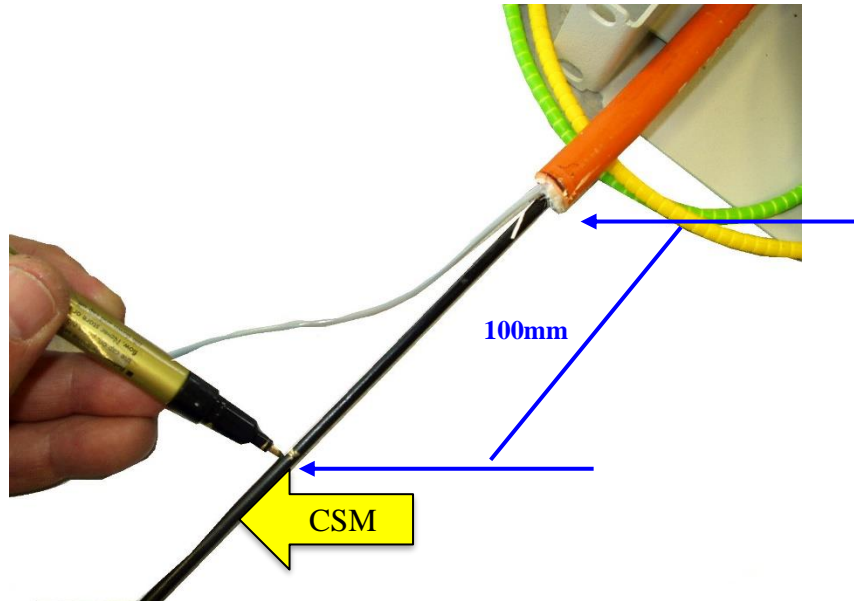
Step 4

Cable Gland

- Slacken Cable Gland and thread cable through.

- Measure 3m from end of cable and mark the sheath. This will be the 'Cable Butt'.
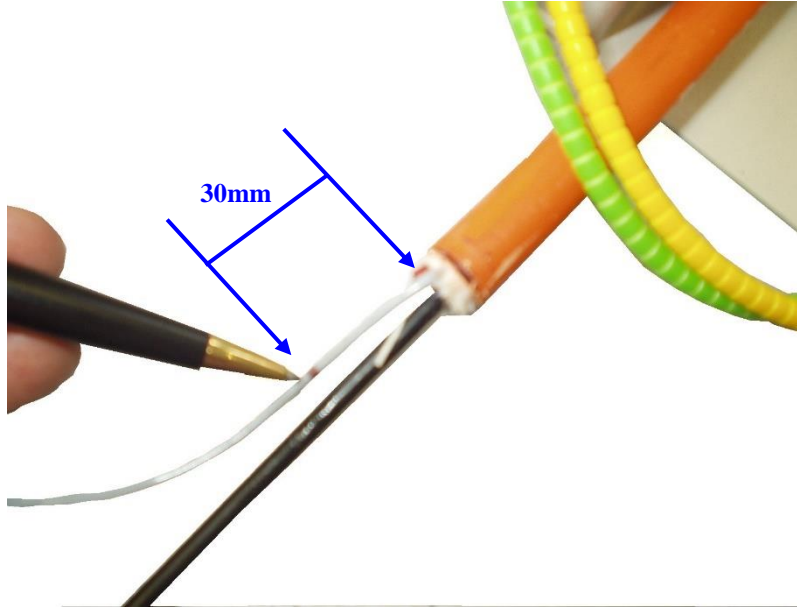
12 Fibre Cable Installation

Step 5

100mm

CSM

- 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.
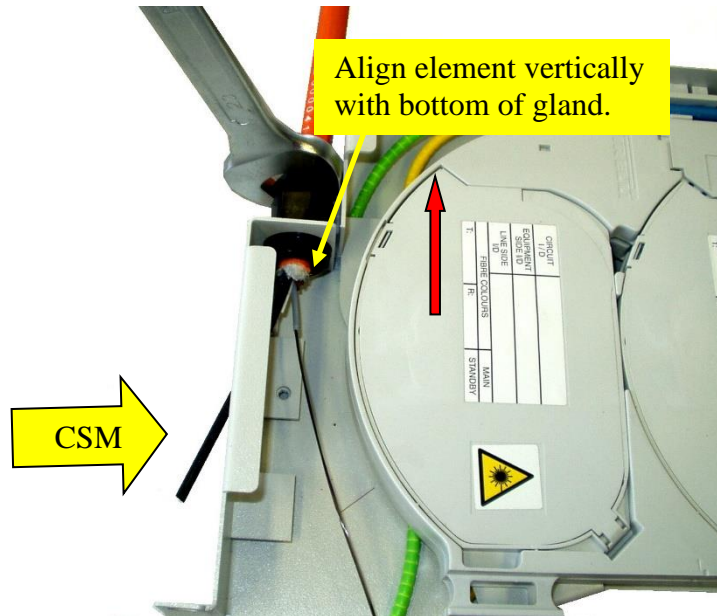
12 Fibre Cable Installation

Step 6

30mm

- 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

Align element vertically with bottom of gland.

CSM

- 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.

Step 8

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

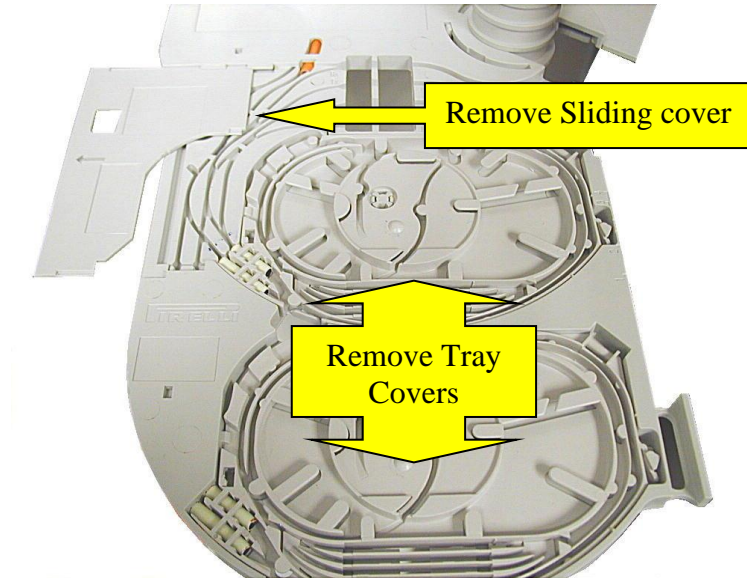## 12 Fibre Cable Installation

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.
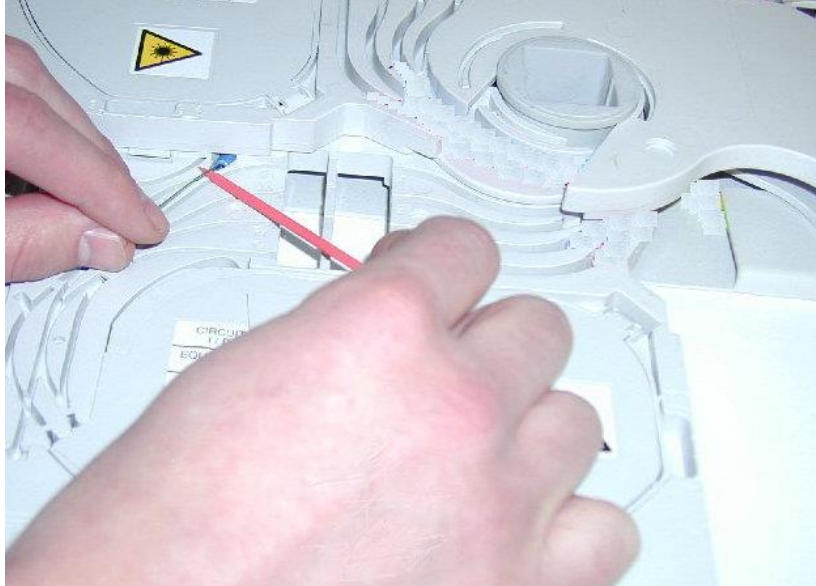
12 Fibre Cable Installation

Step 10

Remove Sliding cover

Remove Tray Covers

- 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.

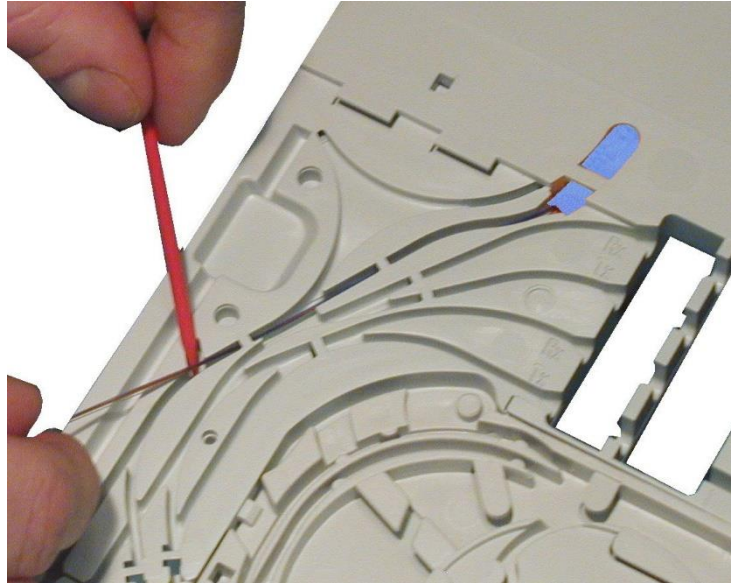**Step 11**

- Continue feeding the first group of 6 fibres until they exit the blue tube. Remove fibres using the guide pin and pull fibres through.
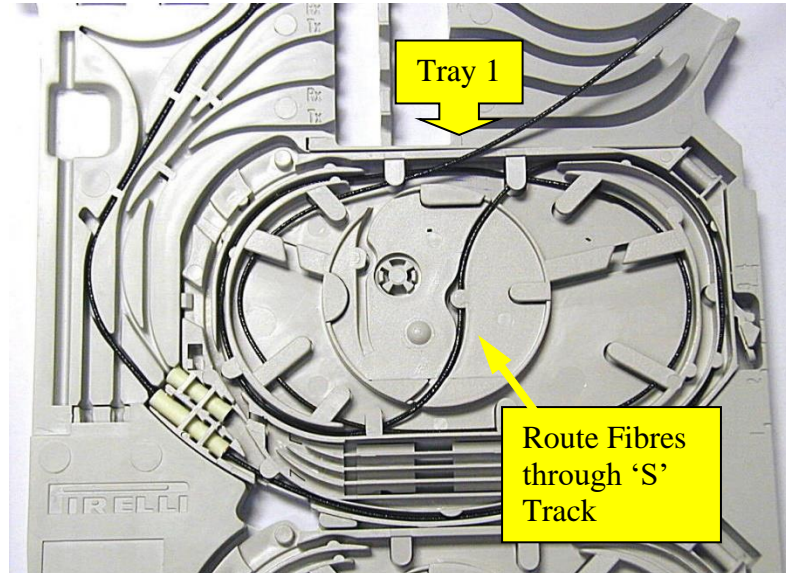
Step 12

- Continue feeding fibres onto the Splice Module, along the track, and under the first two track bridges.
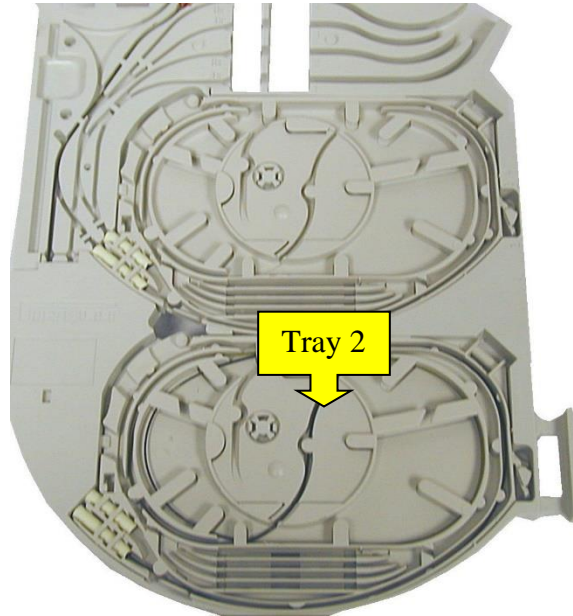
Step 13

- 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

Tray 2

- 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.
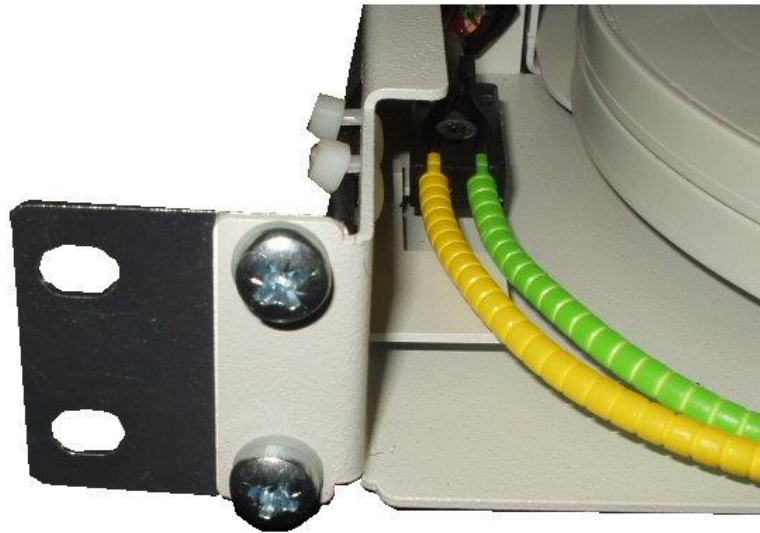
12 Fibre Cable Installation

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.

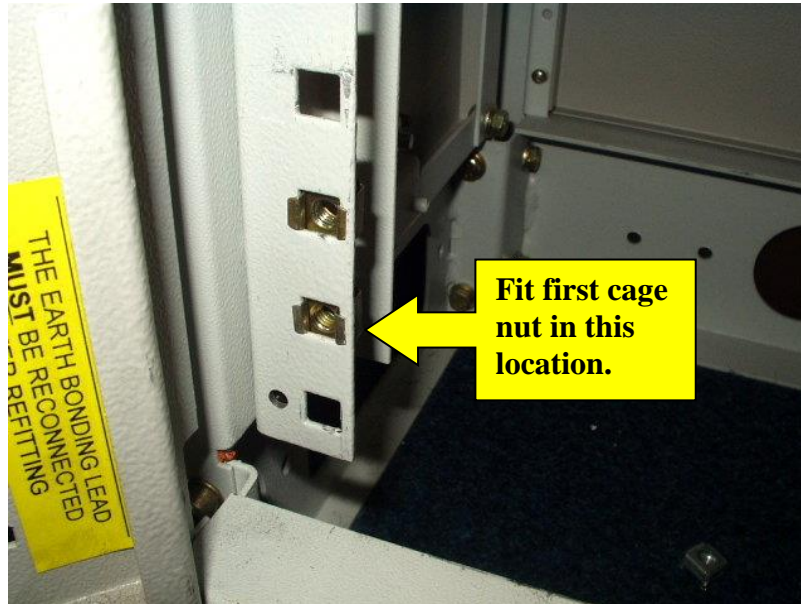- Repeat **Steps 11 to 14** for fibres inserted into the Green BLT.

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).**

Step 17

THE EARTH BONDING LEAD **MUST** BE RECONNECTED REFITTING

Fit first cage nut in this location.

- 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.
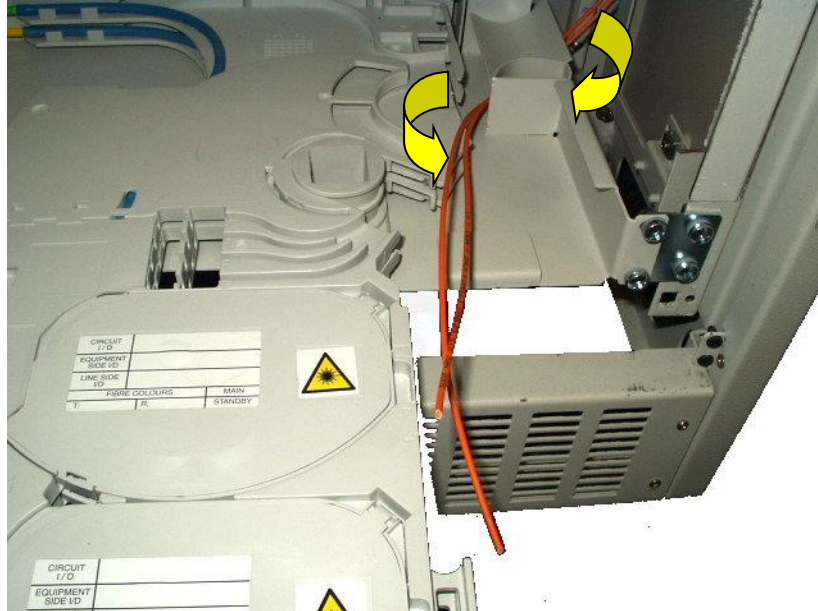
12 Fibre Cable Installation

Step 18

- Using 4, M6 x 12mm screws **(3)** and 4, Nylon Washers **(5)** fit shelf and cable in position.
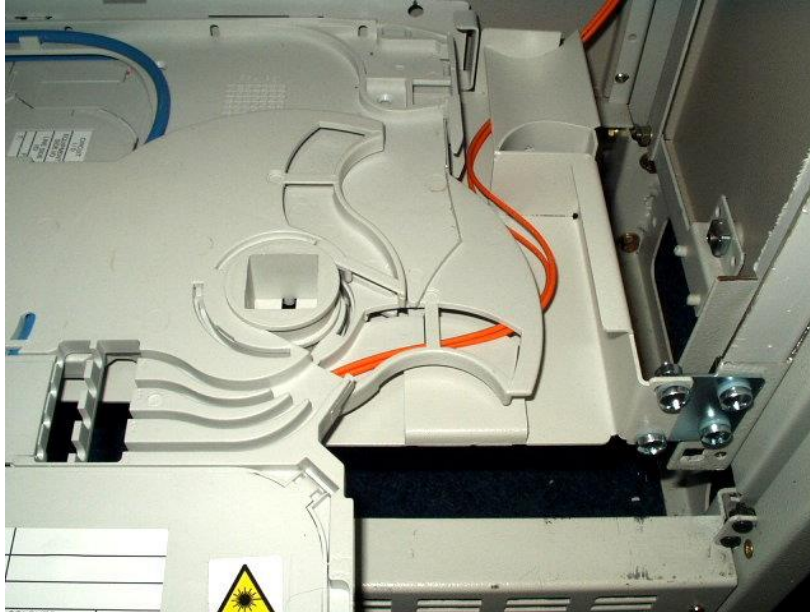
COF8001 Jumper Installation

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.
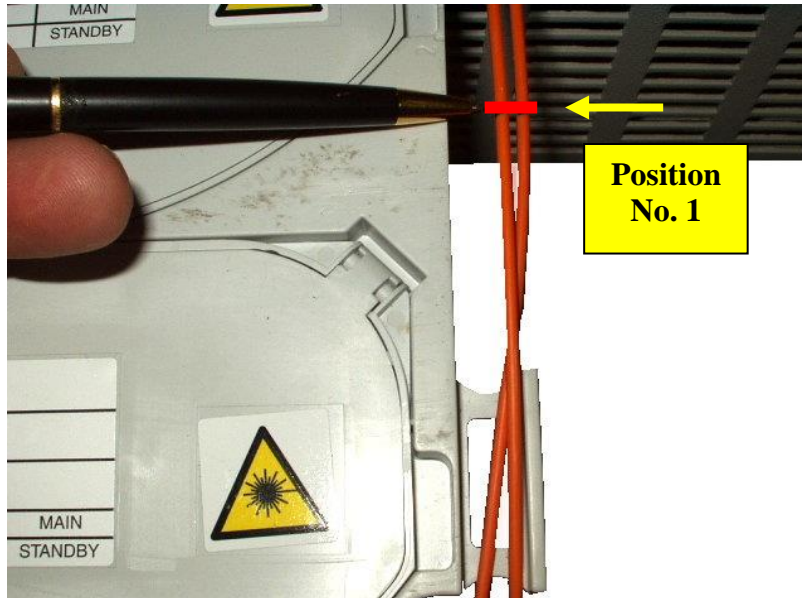
COF8001 Jumper Installation

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.
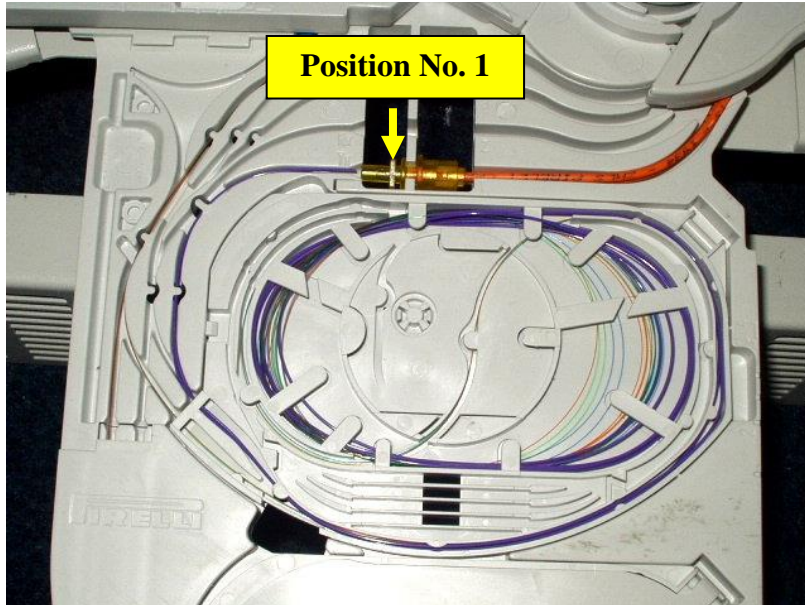
COF8001 Jumper Installation

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.
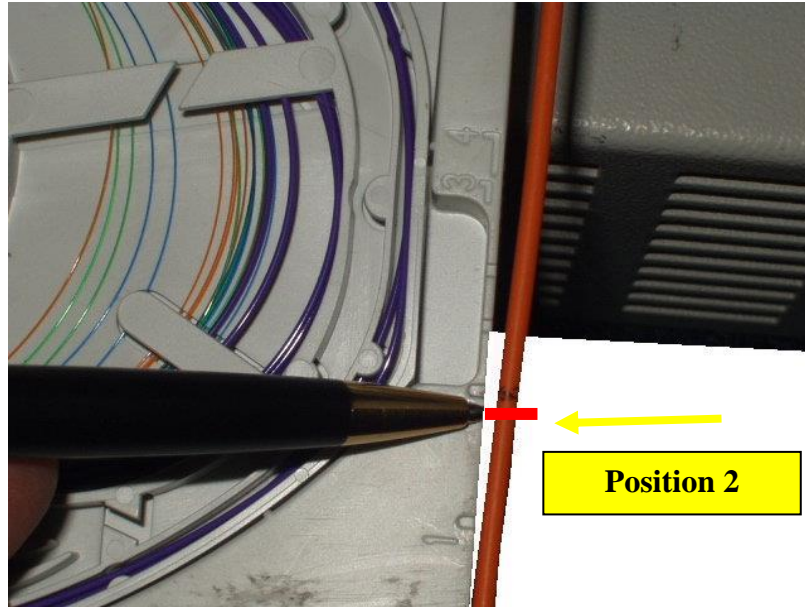
COF8001 Jumper Installation

Step 22

Position No. 1

- Locate the restraint **(containing the 2 Jumpers)** in to Position No.1 on the Splice Module.

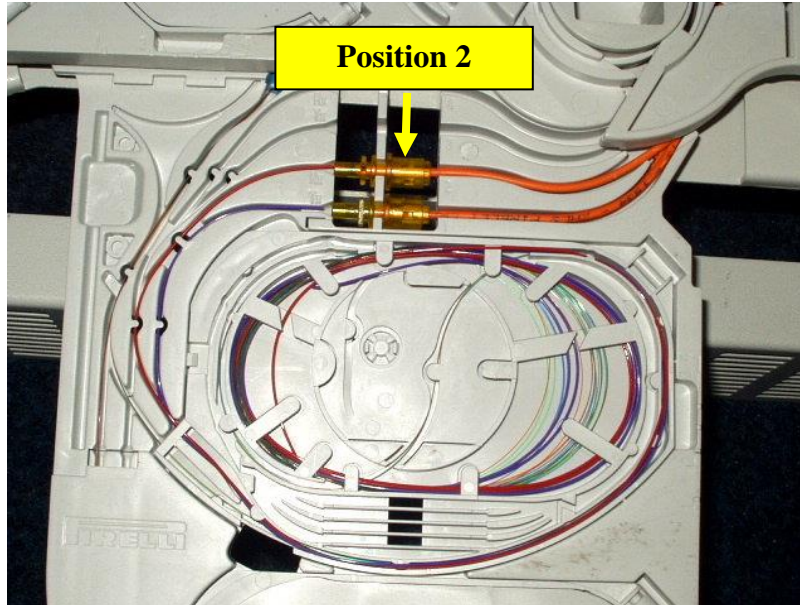- Route the 2 fibres through the tracks and on to Splice Tray No. 1.

Step 23

Position 2

- 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.
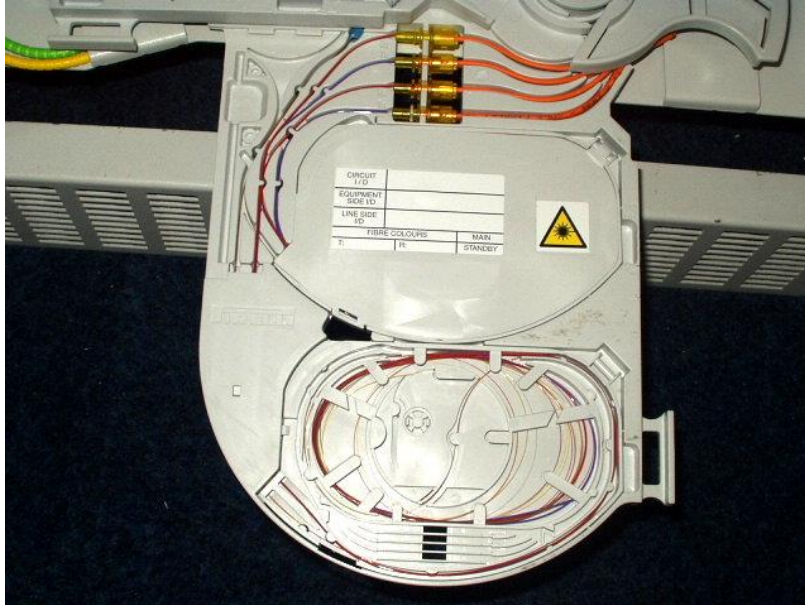
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Step 24

- 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.
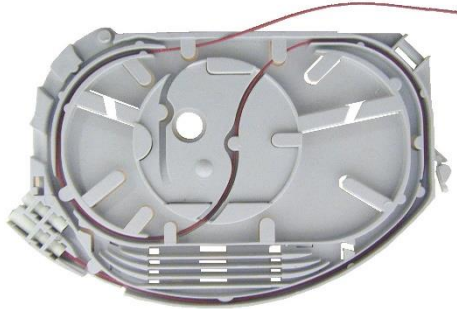
COF8001 Jumper Installation

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.

Step 27

Primary coated fibres from BF Bundle

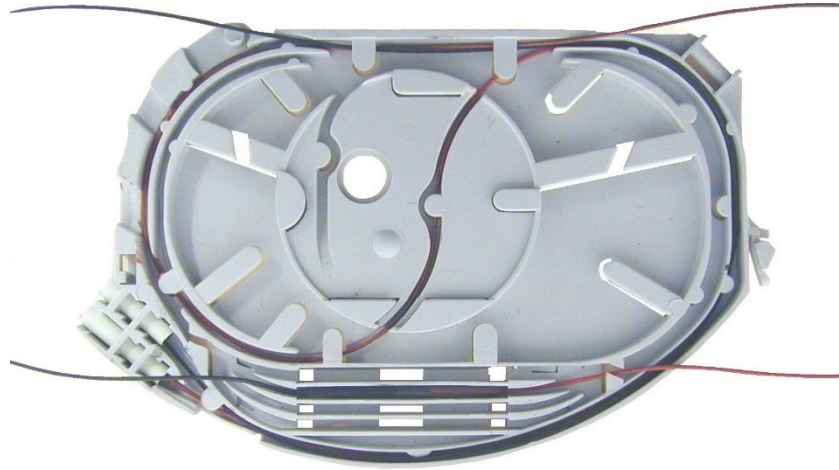Secondary Coated fibres from pre-installed pigtail.

- 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.

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.

Step 29

Fold loops into splice tray

- 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.

IP032   Issue Number: 04   Date: 15th March 2023