Prysmian Group

INSTALLATION INSTRUCTION

12 Address Point Internal Fibre Distribution Point (12 IFDP)

The 12 Address Point Internal Fibre Distribution Point (12 IFDP) is the last connection point before the Customer Splicing Point (CSP). The 12 IFDP is wall mounted internally within a MDU location and provides the following functionality:

- A termination point for COF 205.
- A splicing point between incoming network fibres (Blown Fibre Unit (BFU), Riser Cable & COF 205) and the 2f (only one fibre used) Customer Premise Cable (COF 208) and Pull Back Cable.

Installation guide Section Details		
Section 1 - Plan & Build	Attaching the 12 IFDP to Wall	Supplied with the product and available on the Intranet
Section 2 - Plan & Build	Blown Fibre Tube (BFT) Installation 6mm	
Section 3 - Plan & Build	Installation of Riser Cable COF 207	
Section 4 – Plan & Build	Installation of Customer Premise Cable COF 208	
Section 5 – Plan & Build	Installation of Pull Back Cable COF 211	

Product Description

12 IFDP Internal View

Port Layout

Top View

Bottom View

- 1 x Entry Port (bottom left)
- 1 x Through Port (top left)
- 4 x Pull Back Cable Output Ports. (2 tops, 2 bottom)
- 16 x Customer Premise Cable ports top and bottom. (only 12 ports will be used)

12 IFDP Installation Kit

Installation Kit contents:

- 4 x Wall Fixing Screws
- 4 x Wall Plugs
- 2 x Split Riser Cable Port Closure Inserts
- 12 x Black rubber Customer Cable Port Grommets
- 3 x Port Glands
- 3 x Straps Cable Fixing
- 1 x 6mm to 3mm Connector and 680mm locking tube, with Black Rubber Water Block connector

Additional Items Required	
	BT Item Code
Straps Cable Fixing 1C Natural	072200

Additional Tools Required	
	BT Item Code
OTIAN Flush Cutter 1A	076080
Optical Fibre Stripper No 1A	126826
Pullback Cable Window Cutter	069587

Cable Minimum Bend Radii	
Cable	**Minimum Bend Radii**
COF 207	120mm
4 Tube Blown Fibre Tubing	185mm
COF 208	15mm
COF 211	120mm

SECTION 1 - Plan and Build
Attaching the 12 IFDP to Wall

⚠ **Appropriate BT Safety Procedures MUST always be followed**

- Position the closure so that the required Cable/BFT can vertically enter and exit the closure.
- Support the closure against the wall; mark the mounting locations through the 4 fixing points.
- Drill the 4 fixing holes using 4mm masonry drill.
- Insert the wall plugs supplied.
- Fix to wall using the crosshead screws supplied.
- Ensure closure is level and tighten screws.

Note: To ensure sake working practices, consideration should be given to the positioning height of the closure; measure 1.2 metres from the floor to the bottom fixings.

SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

⚠ **Appropriate BT Safety Procedures MUST always be followed**

Step 1 – Cable Entry Port Preparation

- Carefully ‘knockout’ the input port on the bottom face of the unit as shown.

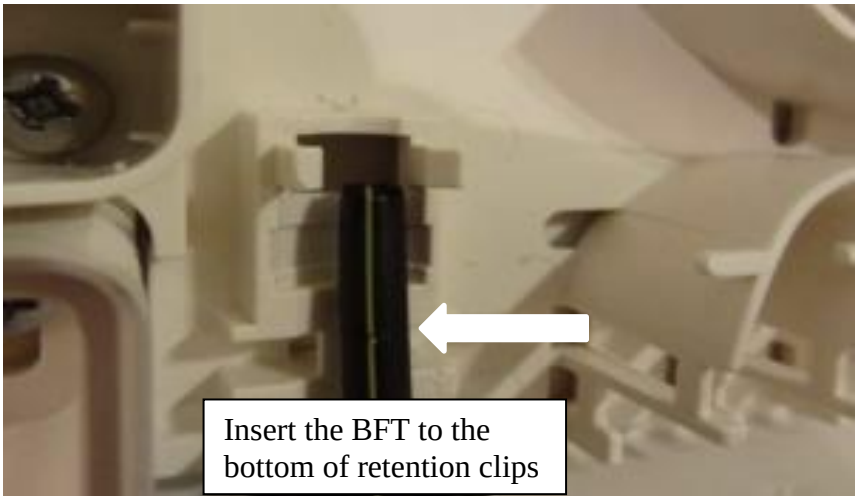
SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

Step 2 – The BFT Gland

- Fit the input port gland.

SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

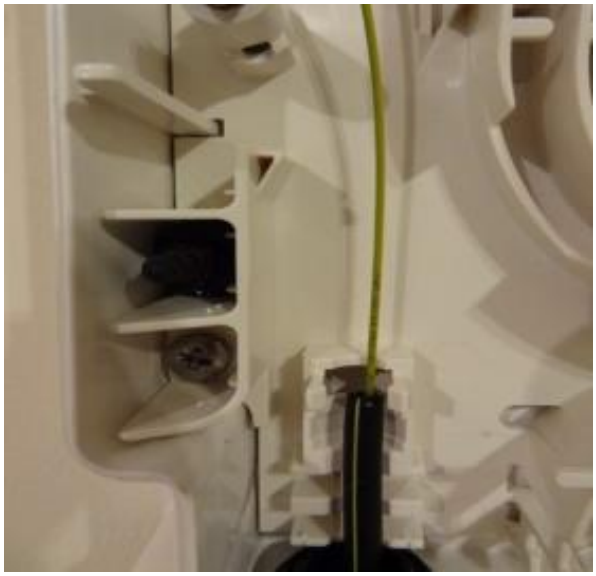
Step 3 – BFT Installation



- Install 6mm BFT into the 12 IFDP through input gland and up to the bottom of the 6mm x 3mm connector retention clips.

SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

Step 4 – Blown Fibre Unit (BFU) Installation



- Install the BFU.

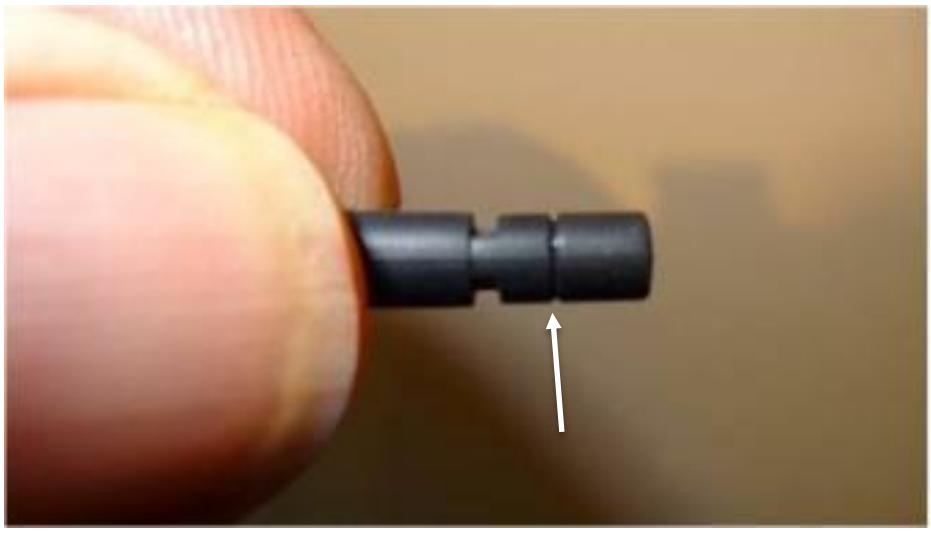
SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

Step 5 – Locking Tube

- Feed the fibre unit through the 6mm x 3mm connector and the locking tube.
- Insert locking tube into 6mm x 3mm connector.

SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

Step 6 – Water Block



Note: For 12f BFU cut the end of the Black Rubber Water Block off as shown.

SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

Step 7 – Install Water Block

- Feed the BFU through the Water Block and fit onto the 3mm tube.
- Ensure that the water block is fully inserted onto tube.

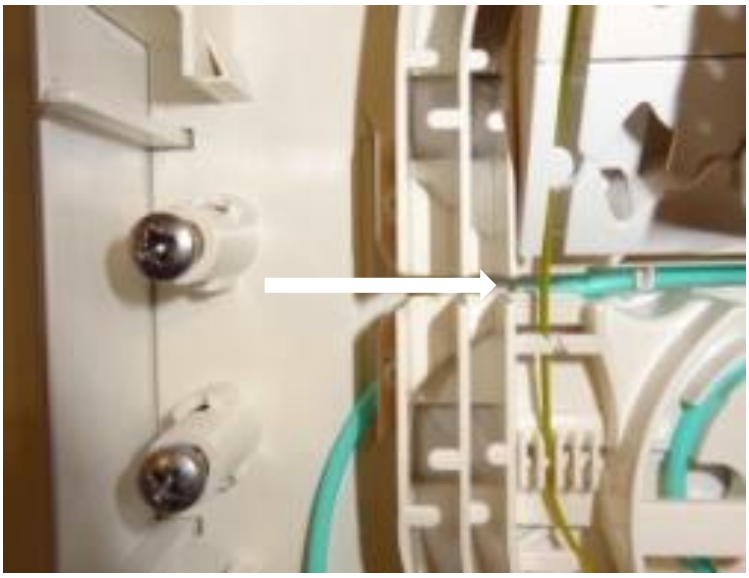
SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

Step 8 – Route the Locking Tube

- Route the locking tube into the central area and follow the routing corridors so forming the figure of eight.
- Ensure the Black Rubber Water Block ‘retention slots’ secure into the retention clip.

SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

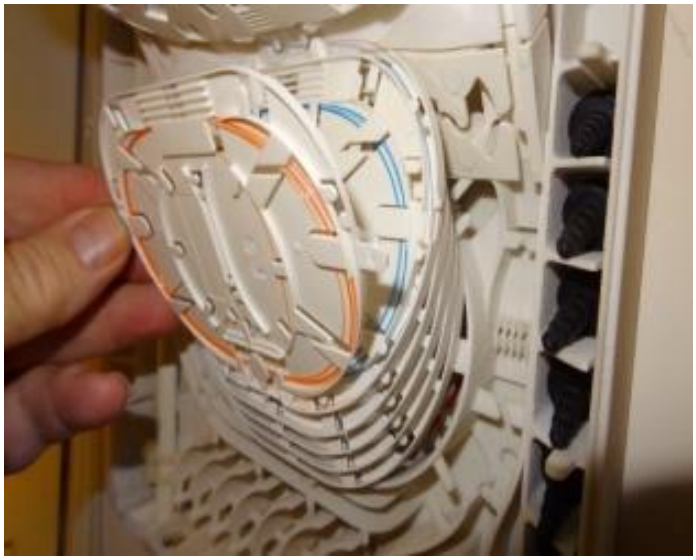
Step 9 – Prepare BFU



- The BFU is prepared (stripped back) to a point just before it crosses the Turquoise tube, as shown.
- Route the fibres up left-hand side of tray stack and on to the trays. Ensure the fibres are correctly retained in the rear hinge area.

SECTION 2 - Plan and Build
Installation of 6mm BFT (Blown Fibre Tubing)

Step 10 – Fibre Routing



- Open splice tray to expose fibre storage area for the Address Point Tray 1.
- Manage the fibres via the cut-out in the outside track into the central storage area.
- Store fibre for splicing.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

⚠ **Appropriate BT Safety Procedures MUST always be followed**

Step 1 – Cable Entry Port Preparation

- Remove the port cut-out located on the top and bottom of the closure using a suitable hacksaw.
- Remove all rough edges with a file.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 2 – Pullback Cable Window Cutting Tool

- Pullback Cable Window Cutting Tool, used for cutting a window opening in Riser Cable, Item Code 069587.

Note: Only use the cutter shown, do not use other cutters.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 3 – Riser Cable Preparation

- Position the Riser Cable across the closure ensuring the cable sits vertically in the top and bottom port cut-outs.
- Sheath mark the Riser Cable at a point level with the Input Channel as shown.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 4 – Window Cut

- Using the Pullback Cable Window Cutting Tool, remove the window, starting at the mark and going down towards the bottom of the box.
  The overall window cut is 70mm long.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 5 – Riser Cable Preparation

- Fit the split Port Entry Cover Plate to the Riser Cable, and slide into place.
- Push Riser Cable into Retaining Clips. (Normally used to retain 6mm x 3mm connector).
- Secure cable with 2 x Straps Cable Fixing (supplied in kit).
- Repeat these three steps for cable exit port at top of box.

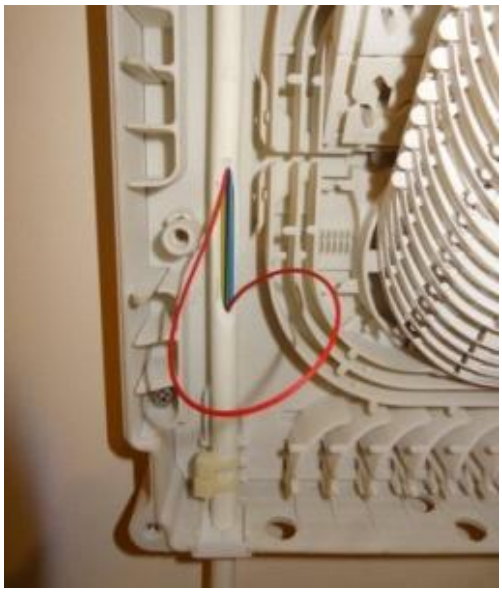
SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 6 – Sheath Window Cutter

Note: A window cut will now be made to the Riser Cable in the riser cupboard 1 or 2 floors above this 12 IFDP position, either in a 12 IFDP (if one has been planned in that position) or the window cut will be covered with a Breakout Box. The required element within the cable will be identified and cut at this point.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 7 – Pullback Riser Element



- Identify the required element and carefully start pulling the element down and out the cable.
- Continue to extract the element until the end comes out.

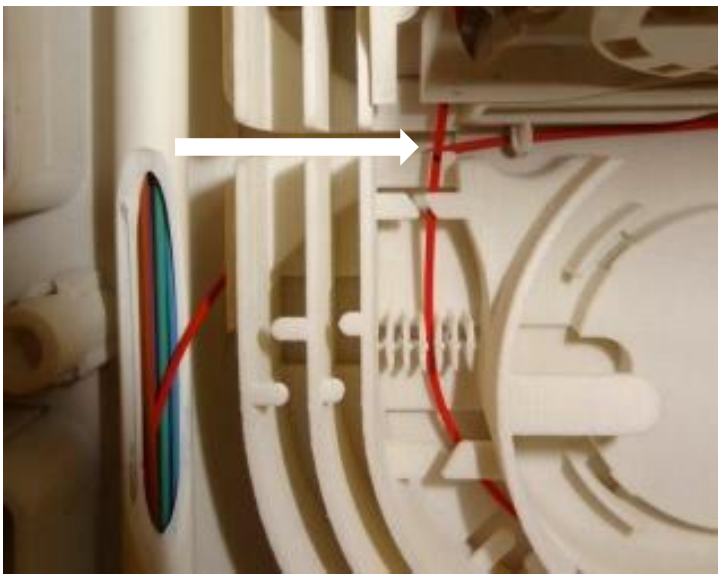
SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 8 – Routing of Riser Element

- Route the fibre element into the input channel, around the locking area.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 9 – Riser Element Preparation



- Mark the fibre element as shown.
- Strip the element back to this point, by pulling the rubberised jacket off the element of 12 fibres.
- Secure fibre element into retaining slots.

SECTION 3 - Plan and Build
Installation of Riser Cable COF207

Step 10 – Fibre Routing

- Route the fibres up left-hand side of tray stack and onto the required Address Point Tray ready for splicing.
- Route the fibres on to the tray: ensure the fibres are correctly retained in the rear hinge area.
- Open the splicing tray to expose fibre storage area on Address Point Tray 1.
- Manage the fibres via the cut-out in the outside track into the central storage area.
- Store fibre for splicing.

Note: Only fibre 1 is spliced through. Fibre 2 remains in storage within the storage area of the nominated Address Point Tray.

SECTION 4 - Plan and Build
Installation of Customer Premise Cable COF 208

⚠ Appropriate BT Safety Procedures MUST always be followed

Step 1 – Knock Out Port

- Knock out the Customer Premise Cable port.
- Please note there are ports on the top and bottom of the 12 IFDP.

SECTION 4 - Plan and Build
Installation of Customer Premise Cable COF 208

Step 2 – Fit Rubber Sleeve

- Cut the tapered rubber teat on the port grommet (provided in the installation kit) to the second step.
- Feed 2m of Customer Premise Cable through the grommet, ensuring the rubber teat is located on the outside of the closure.
- Feed the Customer Premise Cable into the closure and seat the grommet into the open port.

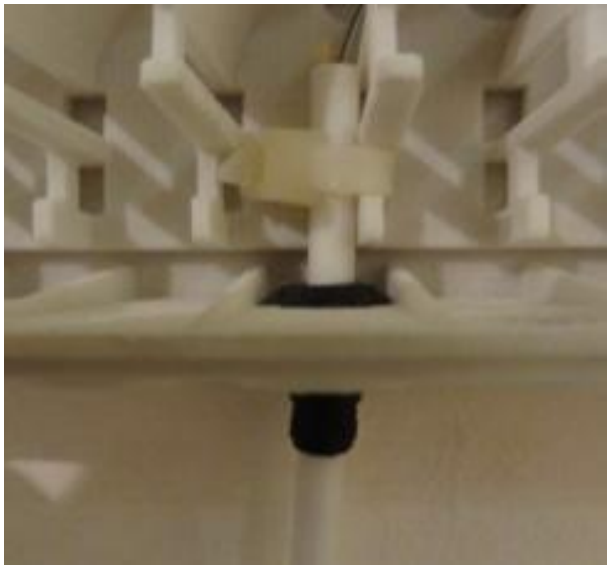
SECTION 4 - Plan and Build
Installation of Customer Premise Cable COF 208

Step 3 – Fibre Routing of Stored Fibres

- Mark the cable at 25mm above the bottom of the 12 IFDP.
- Using Stripper Optical Fibre 1A circumferentially cut the cable at this point and remove the surplus sheath.

SECTION 4 - Plan and Build
Installation of Customer Premise Cable COF 208

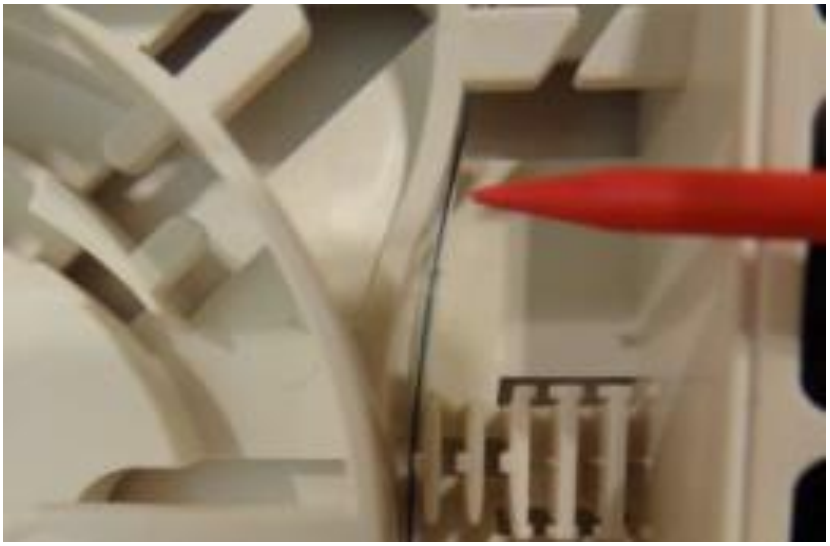
Step 4 – Fibre Routing of Allocated Fibre



- Cut back the Aramid Yarn to the sheath butt.
- Fix the cable sheath to the appropriate anchor point using the small cable ties: Item Code 060620.
- Hand tension and remove over-length using OTIAN Flush Cutting tool 1A.

SECTION 4 - Plan and Build
Installation of Customer Premise Cable COF 208

Step 5 – Customer Premise Cable Port Preparation Installation



- Route the fibres up the Right-hand side of the tray stack.
- At a point, as indicated above, remove the coating holding the fibres together.
- Cut away and discard the coating and the two WHITE fibres, leaving just the blue and orange fibres. DO NOT attempt to use the WHITE fibres for customer connection: these are 'fillers' for cable construction purposes.
- Continue routing the fibres up the right-hand side and onto the appropriate Address Point Tray (as per planning schedule).
- Route fibres on to the tray: ensure the fibres are correctly retained in the rear hinge area.
- Open splicing tray to expose fibre storage area for Address Point Tray 1.
- Manage the fibres via the cut-out in the outside track into the central storage area.
- Store fibre for splicing.

Note: Only fibre 1 is spliced through.
Fibre 2 remains in storage within the storage area of the nominated Address Point Tray.

SECTION 5 - Plan and Build
Installation of Internal Pull Back Cable COF211

⚠ **Appropriate BT Safety Procedures MUST always be followed**

Step 1 – Cable Entry Port Preparation

- On the top face of the unit knockout the input port, as shown.

SECTION 5 - Plan and Build
Installation of Internal Pull Back Cable COF211

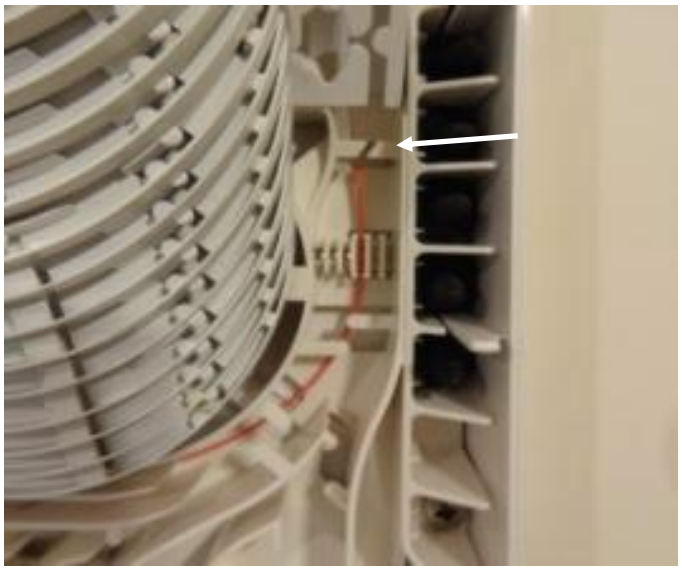
Step 2 – Pull Back Cable Gland

- Fit the input port gland.
- Install Pull Back Cable and secure with cable strap.

Note: Only hand tension is to be on cable strap.

SECTION 5 - Plan and Build
Installation of Internal Pull Back Cable COF211

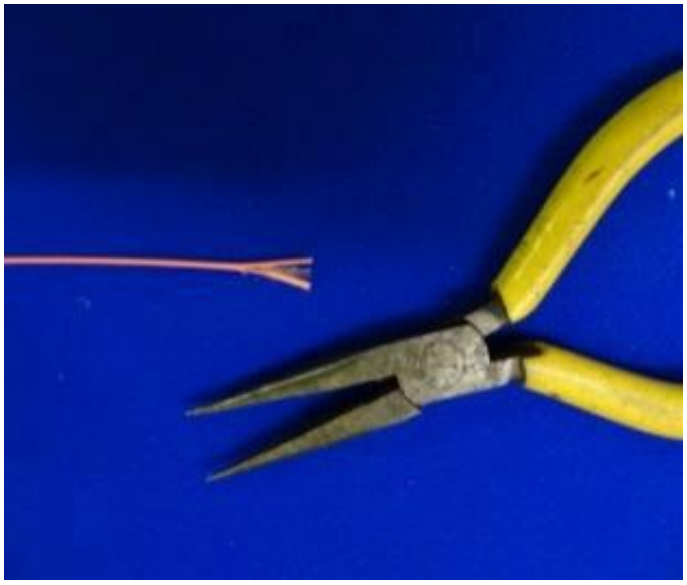
Step 3 – Element Routing



- Route the Pull Back Cable elements down and around to the Right-hand side of the tray stack.
- Route the fibre unit through the segregation slots.
- Mark the pull back element at a point just above the retaining tabs, as shown.
- Prepare the element back to this point.

SECTION 5 - Plan and Build
Installation of Internal Pull Back Cable COF211

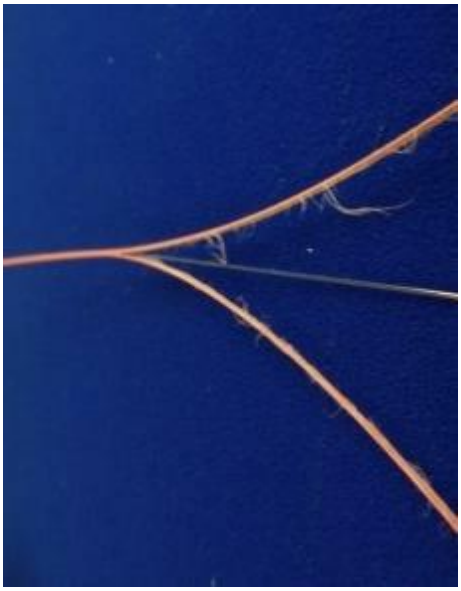
Step 4 – Element Preparation



- Using long nosed pliers flatten the first 25mm of the element.
- This will result in the element being split into two halves.

SECTION 5 - Plan and Build
Installation of Internal Pull Back Cable COF211

Step 5 – Preparation of Element



- Keeping the element under slight tension, pull the two halves apart.
- Continue to separate the two halves until the mark is reached.
  Cut off the excess sheathing material.
- Route the two fibres onto and Address Point Tray and store ready for splicing.
- Repeat for all elements that are connected to the Address Points.

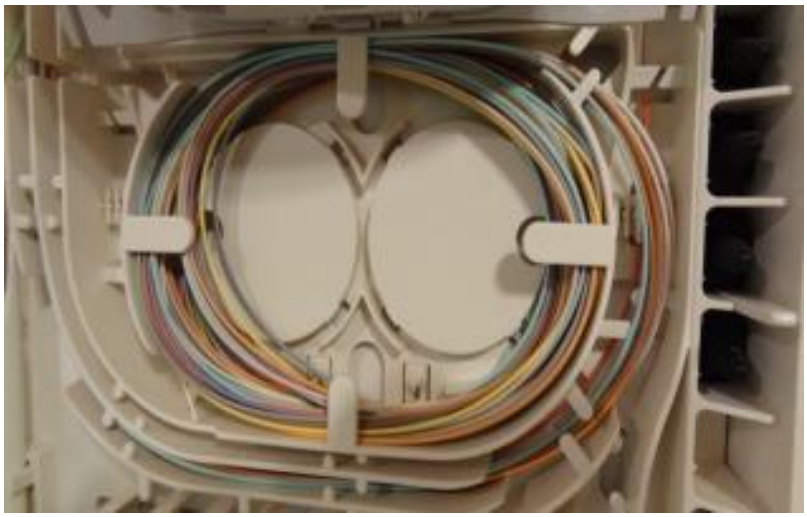
SECTION 5 - Plan and Build
Installation of Internal Pull Back Cable COF211

Step 6 – Routing of Non-Connected elements

- Route the remaining unused elements within the Pull Back Cable around to the right – hand side on top of the tabs, so separating the connected fibres from the non-connected fibres.

SECTION 5 - Plan and Build
Installation of Internal Pull Back Cable COF211

Step 7 – Element Storage



- Store the non-connected elements in the central locking area as shown.

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