

OAsys® INTERNAL PLANT

12/24 Fibre 1U Splicing/Patching Shelf – SRS3000

Part Number: XSRSC00233 – 12 FCUPC SM Fibre Pigtails and Adapters

Description

- Provides a facility for the termination and patching of up to 24 Fibres.
- Supplied with either 12 or 24 pre-fitted pigtails and patching adapters in FC Simplex format. Other adapters available on request.
- Suitable for both 19” and ETSI rack mounting practices.
- SPACE ENVELOPE: 445mm x 245mm x 44mm (W x D x H).


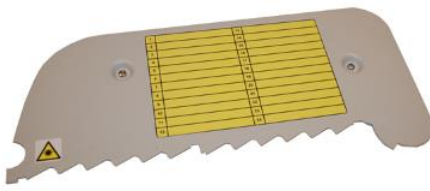
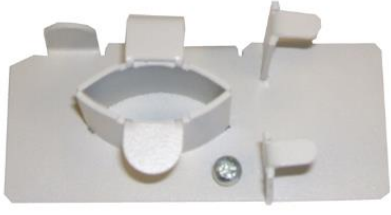
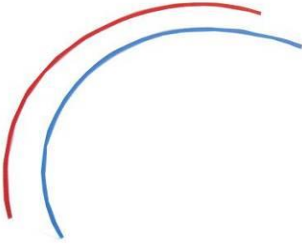




Tools & Additional Items Required

Additional Items Required:	Prysmian Part No.	BT Item Code
Slice protectors 5A	XPESC00053	075110
VERIZON – FCUPC 12 Way Upgrade Kit.	XSRSC00235	-

Fixings:	ETSI Mounting Bracket Kit – XKTSC00171
-----------------	--

Tools:	Pozi Drive Screwdrivers No.1, No.2 and No.3 Flush Cutting Tool 1A – BT Item Code 07680
---------------	---

Component Parts (pictures not to scale)

<p>1 Splicing and patching Shelf Qty 1</p> 	<p>2 Top Cover Qty 1</p> 	<p>3 Patch cord Bend Manager Kit Qty 1</p> 
<p>4 Bend Limiting Tube Qty 2</p> 	<p>5 Splice Protector Bays Qty 2</p> 	<p>6 Tube Install Tool Qty 1</p> 
<p>7 Rapid Cable Anchor (ARS) Kit Qty 1</p> 	<p>8 Cable Grips Qty 2</p> 	<p>Fastenings and Fixings</p> <p>9 Screw M6 x 12mm Pozi Pan Hd. Qty 4 10 M6 Cage Nuts Qty 4 11 Heat Shrink Splice Protector Bays Qty 2 12 Cable Ties 2.5 x 90 Qty 5 13 Screw M4 x 10mm Pozi Pan Hd. Qty 1 14 Screw M4 x 6mm Pozi Pan Hd. Qty 1 15 Velcro Ties Qty 2</p>

Cable Preparation and Shelf Installation

Step 1

PREPARATION STEP



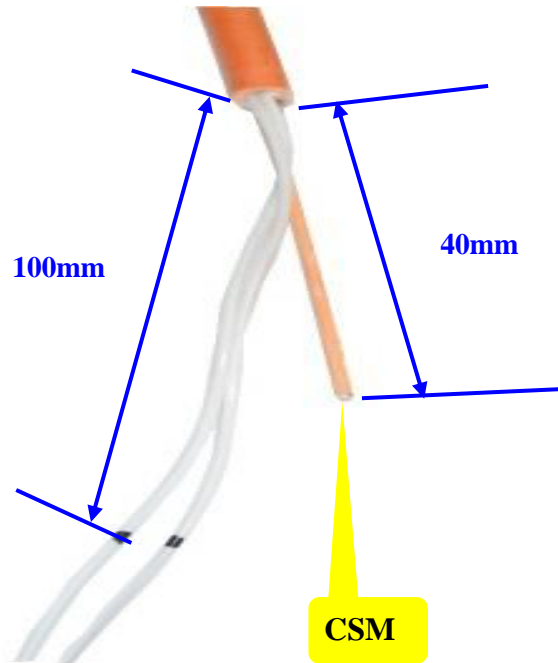
Clean before you connect.

It is important that all fibre connectors and adapters are cleaned prior to mating using approved local practice. Failure to clean may result in either poor signal performance and/or permanent damage to the connector end faces.

- Prior to installation ensure that there is a minimum of 3m of cable spare for installation, termination and storage purposes.
- Make a Butt Mark 2m from end of cable.
- Remove the outer sheath back to the Butt mark and remove all tapes and bindings.
- Remove all unwanted cable elements.

Cable Preparation and Shelf Installation

Step 2



- Cut the Central Strength Member (CSM) to a length of 40mm from the cable butt.
- Make a mark on the exposed cable elements 100mm from the cable butt.
- Remove the protective tube/sheath from the elements back to this mark to expose the fibres.

Cable Preparation and Shelf Installation

Step 3



- Ensure that the CSM is in the centre boss of the ARS (7) and the cable butt is approximately in line with the end of the cable support cradle of the ARS.
- Fit the M4 x 10mm screw (13) to secure the CSM.

Cable Preparation and Shelf Installation

Step 4

Ensure that the cable ties are secured with the large end in this position.



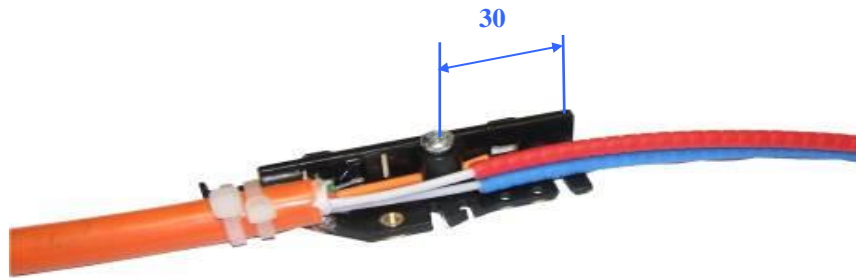
- Secure the cable butt to the ARS using one of the Cable Grips (8), provided.

NOTE:

For Cables Diameters of $\leq 10.5\text{mm}$ use the 12.0 to 13.5mm Grip.
For Cables in the range 10mm to 13.5mm use the 12.8 to 15mm Grip.

Cable Preparation and Shelf Installation

Step 5



- Thread the fibres from cable element No.1 into the BLUE Bend Limiting Tube (4).
- Thread the fibres from cable element No.2 into the RED Bend Limiting Tube (4).
- The end of each tube should be approximately 30mm from the end of the ARS body.

Cable Preparation and Shelf Installation

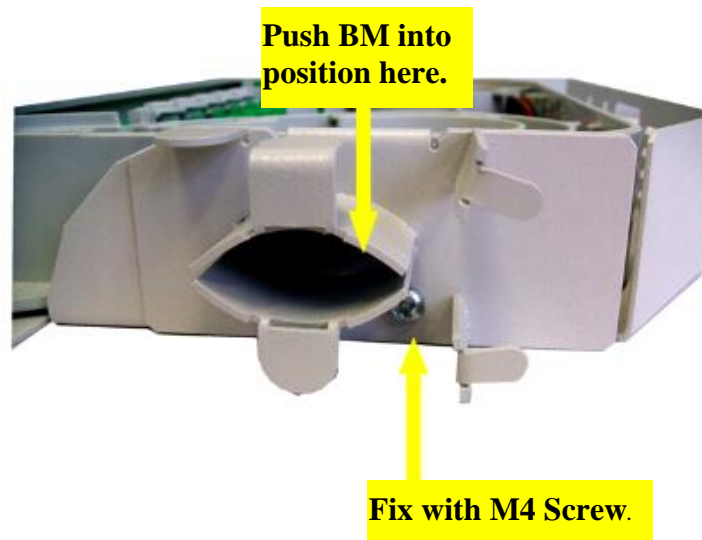
Step 6



- Thread two, 2.5mm x 90mm cable ties (12) through the 4 holes in the body of the ARS and secure the BLUE and RED tubes to the ARS body.

Cable Preparation and Shelf Installation

Step 7



- Fit the Patch Cord Bend Manager (3) to the Right-Hand Side of the SRS3000 Shelf.
- Fix the Bend Manager in position using the M4 x 6mm Screw (14).

NOTE:

In some cases, the Patch Cord Bend manager may not be required. In this case ignore this Step and use the two VELCRO Tapes (15). Refer to Step 26.

Cable Preparation and Shelf Installation

Step 8



- Select the rack mounting position for the shelf and fit 4 Cage nuts (9) into the rack uprights.
- If the Shelf is to be used in an ETSI front mounted rack, fit ETSI conversion brackets (not supplied), order part number XKTSC00171.

Cable Preparation and Shelf Installation

Step 9

Push Locking Clip to the Right to unlock the module.

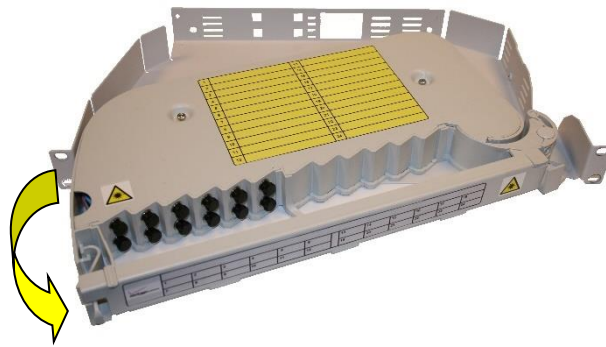


Pull Locking Clip Forward to swing out module.

- To unlock the splice and patch module, hold the locking clip and push to the Right.
- To open the module, hold the locking clip and pull forward, the module will swing out.

Cable Preparation and Shelf Installation

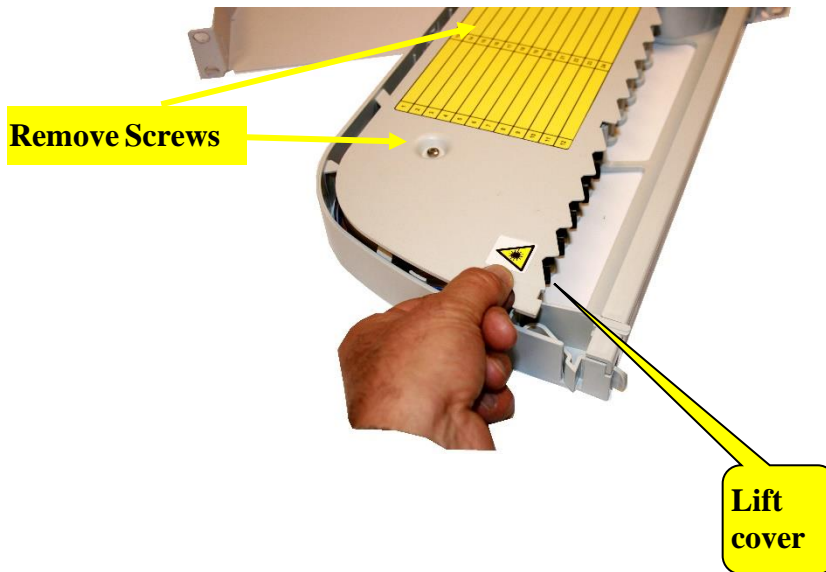
Step 10



- Swing out the Splice and patch Module to fully open.

Cable Preparation and Shelf Installation

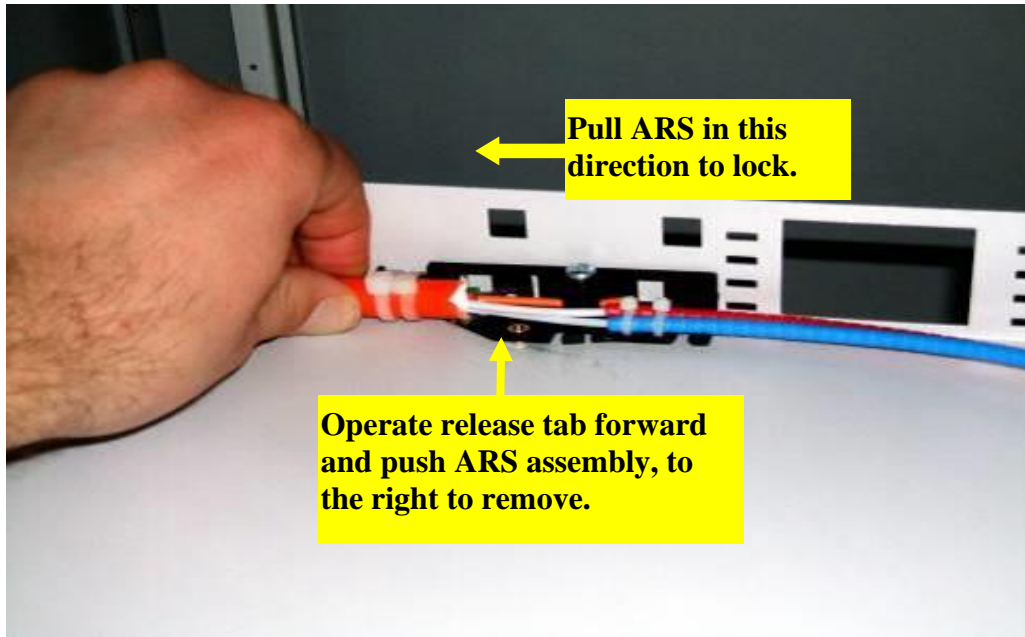
Step 11



- Remove the two M4 screws located in the top of the cover.
- Place finger, in the semi-circular cut out in the cover and lift out.

Cable Preparation and Shelf Installation

Step 12

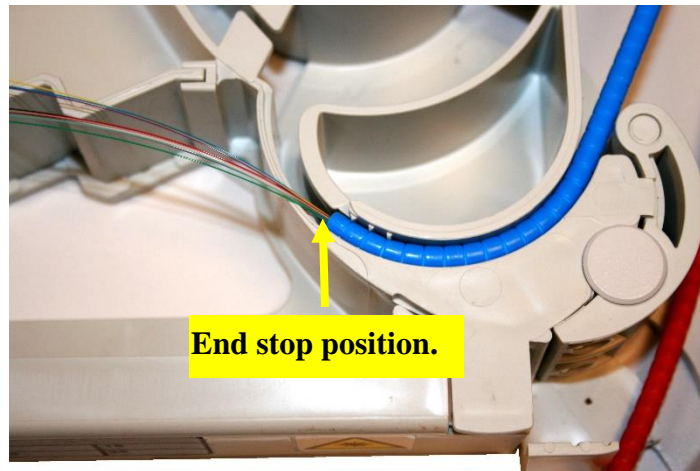


- Locate the two angled legs on the back of the ARS into the lower pair of square locating holes.
- Pull the ARS and Cable assembly to the left and the ARS will now lock into position.

NOTE: If the ARS needs to be removed, then place a flat bladed screwdriver behind the release tab and push the ARS assembly to the right.

Cable Preparation and Shelf Installation

Step 13



- Fully open the module.
- Select the Blue Tube and route around back of module and into the tube location area.
- Locate the end of the tube at the tube stop position and push the tube downwards so that the grooves in the tube align with the splines on the module.

Cable Preparation and Shelf Installation

Step 14



- Use the tube insertion tube (6) to push the tube into position. The tube will stop when the base of the module is reached.

Cable Preparation and Shelf Installation

Step 15



- Route the 12, fibres from the BLUE Tube in direction of Arrow.

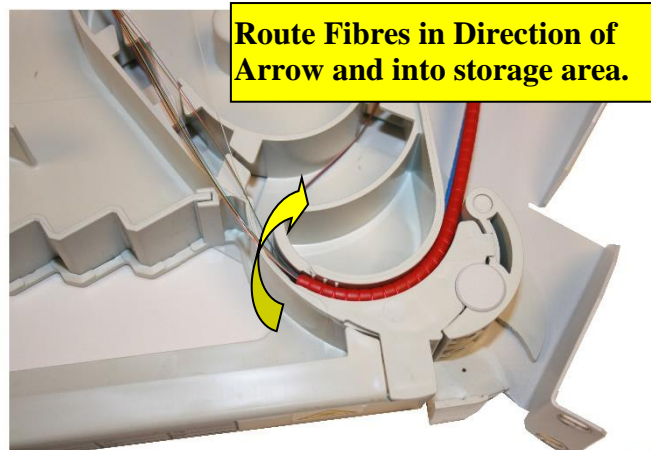
NOTE: An arrow indicating **DIRECTION - FIBRE IN** is embossed into the module base at this point.

- Store the fibres from the BLUE tube in the Right-hand fibre storage area.

NOTE: The fibres from the BLUE tube are from Cable element No.1 and represent Fibre Numbers 1 to 12.

Cable Preparation and Shelf Installation

Step 16

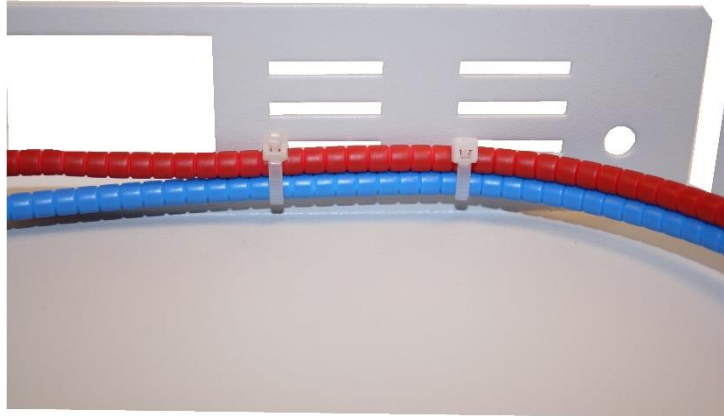


- Repeat Steps 14 to 16 for the RED Tube.
- Store fibres as indicated in Step 16.

NOTE: The fibres from the RED tube are from Cable element No.2 and represent Fibre Numbers 13 to 24.

Cable Preparation and Shelf Installation

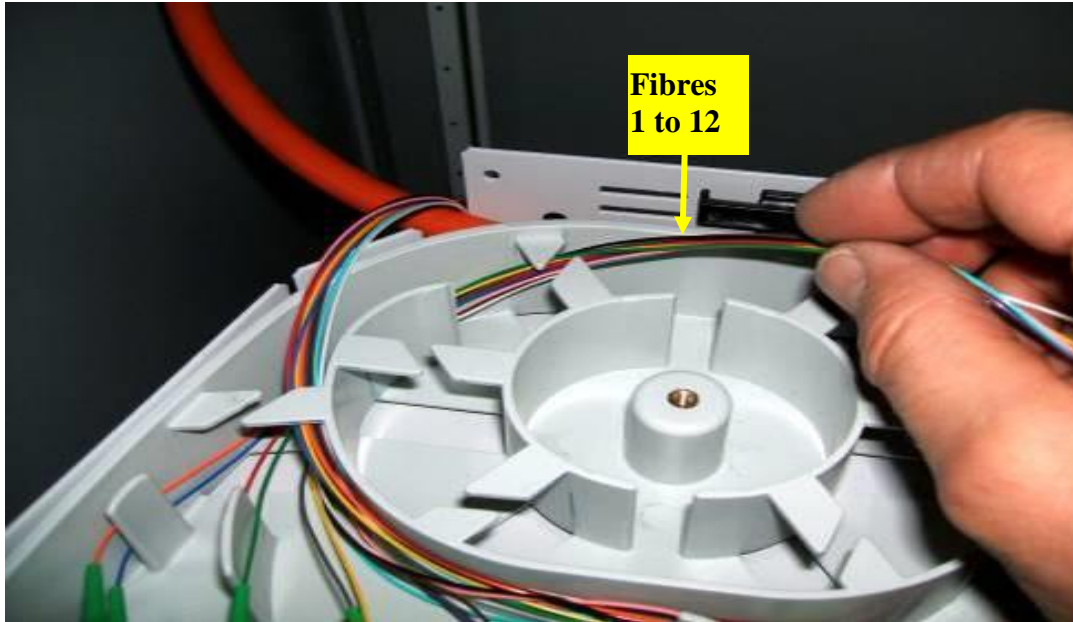
Step 17



- Use two Cable Ties (12) to secure the four tubes to the rear wall in the position shown.

Splicing

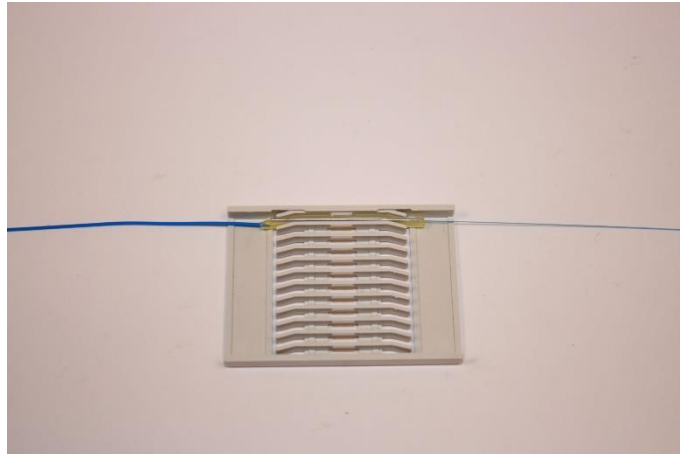
Step 18



- Identify Pigtails 1 to 12 in the left-hand storage area.

Splicing

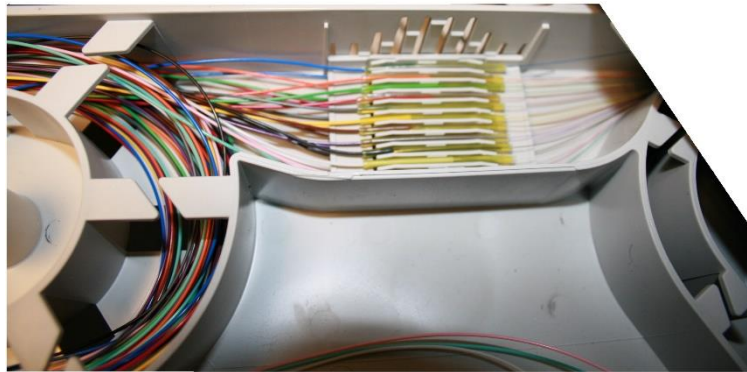
Step 19



- Select Pigtail No.1 (Blue) and Fibre No.1 (Blue) from the Blue Tube.
- Splice Fibres together and use a 2.2mm (Yellow Tinted) Splice Protector over the spliced fibres.
- Select one of the Splice Bays (5).
- Push the Splice Protector into the Splice Bay in the position indicated.

Splicing

Step 20



- Continue Splicing Fibres in Sequence, storing each spliced fibre in the splice bay until all 12 fibres are in position.
- Insert the Splice Bay into position, a **CLICK** will be heard when it is fully located.

Splicing

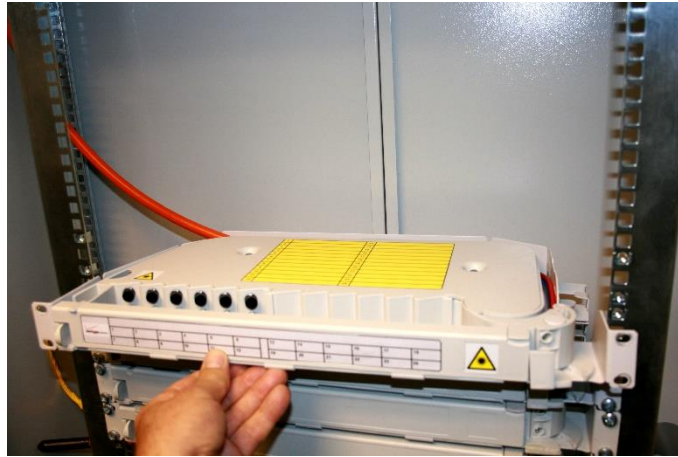
Step 21



- Replace the protective cover over the splicing area.
- Secure the cover with the two screws.
- Swing Module back into the closed position.

Splicing

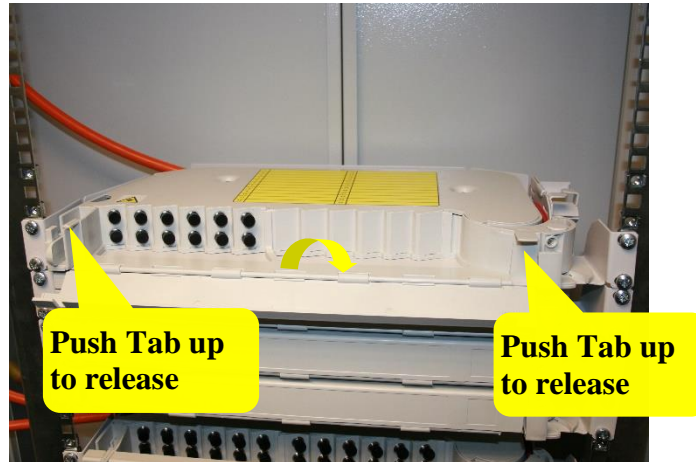
Step 22



- Feed cable from Shelf into the side of the rack.
- Position Shelf in pre-determined position as described in Step 8 and secure to the four cage nuts using four M6 x 12 Screws (9).

Splicing

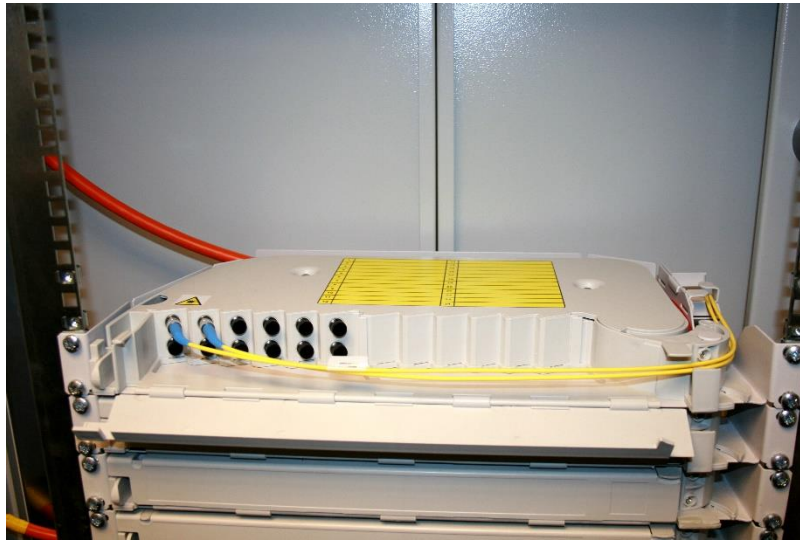
Step 23



- Push both Left- and Right-hand release tabs upwards to allow the front cover to rotate open.

Installing Patch Cords

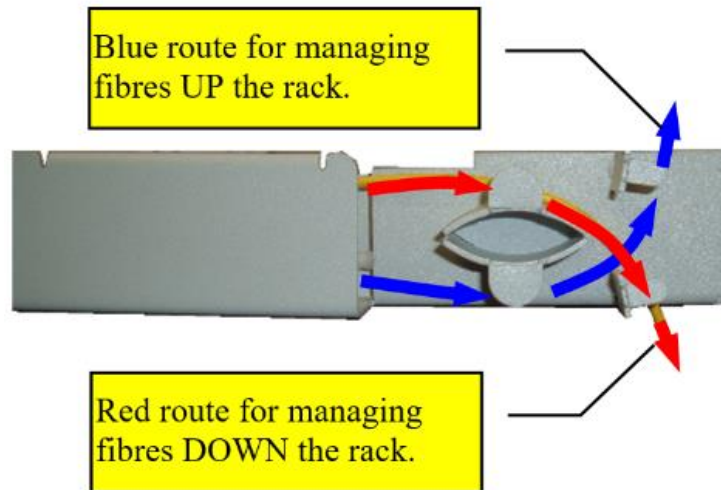
Step 24



- Starting from the Left-hand side of the shelf begin to plug each FC connector into the adapters. The numbering sequence is displayed on the Front Cover Label.
- Working from Left to Right, continue to install the patch cords in sequence until all 12 are installed.

Installing Patch Cords

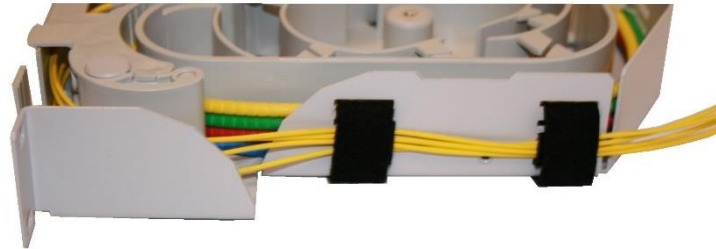
Step 25



- Route fibres over the side bend manager as illustrated above.
- Follow the RED arrows if Patch cords are routed downwards.
- Follow the BLUE arrows if Patch cords are routed upwards.

Installing Patch Cords

Step 26



- If the side bend manager is not required, then use the 2 VELCRO Straps (15) provided to secure the Patch Cords to the side of the shelf.

Installing Patch Cords

Step 27



- On completion of Patch Cord Installation, close the flip down front cover and ensure that the cover is retained by the two locking tabs.
- Fill in the Front and Top Cover labels with details of routings and circuits as necessary.