Prysmian Group

INSTALLATION INSTRUCTION

Building Connection Point (PBI-8SC)

Part Numbers

Building Connection Point (PBI-8SC) XCPSC03253
Wall Support..... XCPSC02088
Cable Cover.....XCPSC03070

Description

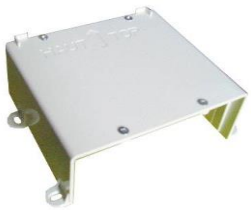
The PBI-8SC is intended to be installed in a building. It is equipped with three splice trays. Each splice tray allows the splicing of one to twelve fibres. The PBI-8SC allows the installation of a passing cable and eight mounting positions are available for the subscriber cables. In addition, two kits are available: a wall bracket to remove the PBI-8SC from the wall, a protection skirt for the connection cables. This notice also describes the use of the bypass Y when installing the riser cable. See the WM045b-F-01 Y derivation data sheet or contact the local Prysmiangroup office
Dimensions : (h) 176 x (w) 130 x (d)60mm.

Additional Tools and Products

Additional Products	Part Numbers Prysmian group
Breakout Unit 2 Port	**XCPSC02086**
Cable stripping tool	**XCPSC00567**

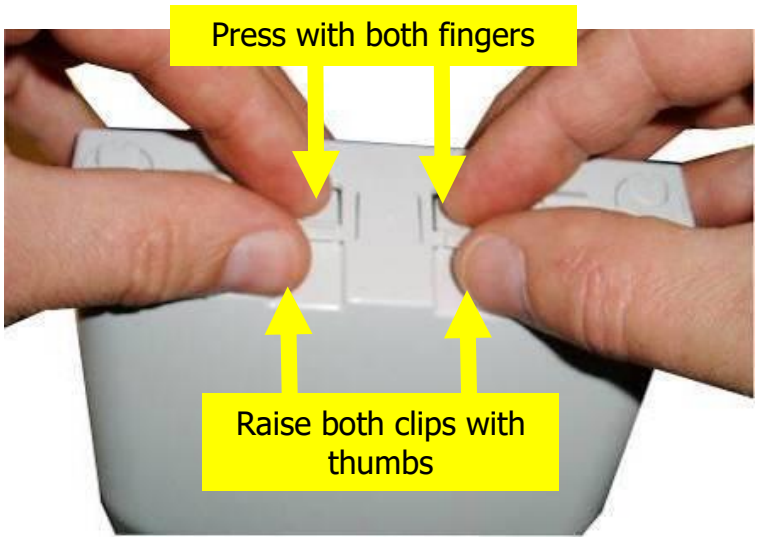
Tools:
Flat Nose Pliers, File, screwdriver, 6mm Drill Bit.

COMPONENTS LIST

Building Connection Point (PBI-8SC)	**The PBI-8SC is supplied with the base, 3 splice trays, the lid, 8 SC/APC adaptors and 8 SC/APC pigtails**	**Quantity 1**
	**Tie-wraps for fixing the cable in passage (100 x 2.6mm)**	**Quantity 4**
	An identification label + protection cover	**Quantity 1**
	Fasteners for Wall Mounting	**Quantity 4**
Wall Support	**Wall Support**	**Quantity 1**
	**Fixing screws for PBI-8SC**	**Quantity 2**
Protective Cover for Drop Cables		**Quantity 1**
		

PREPARATION OF PBI-8SC

Step 1



- To open the lid, press the clips on the top of the lid with both index fingers while lifting the thumbs off the base.

PREPARATION OF PBI-8SC

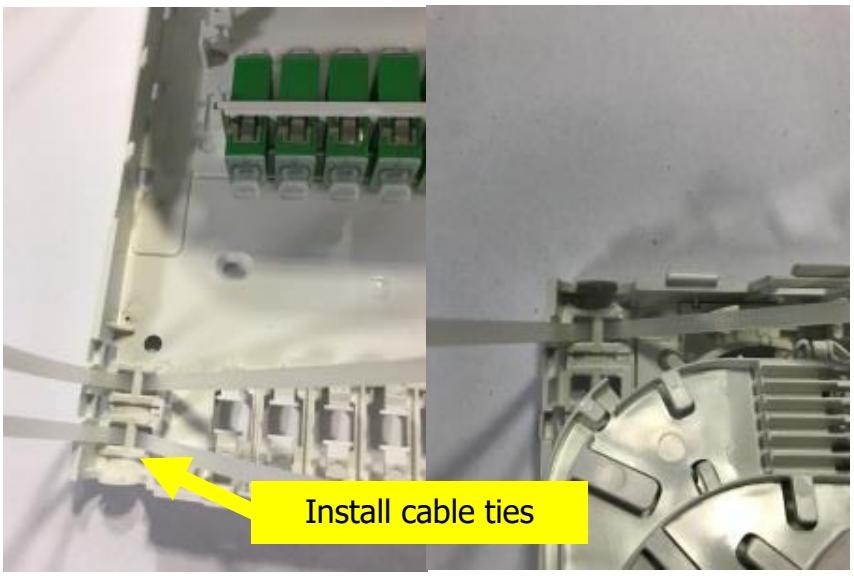
Step 2

• Depending on the diameter of the cable in transit, remove one or two pre-cuts.

• Repeat the operation at the bottom of the cable.

PREPARATION OF PBI-8SC

Step 3



• Install the plastic cable ties, one at the top and two at the bottom.

• Ensure that the head of the plastic collars are on the inside of the case.

PREPARATION OF PBI-8SC

Step 4

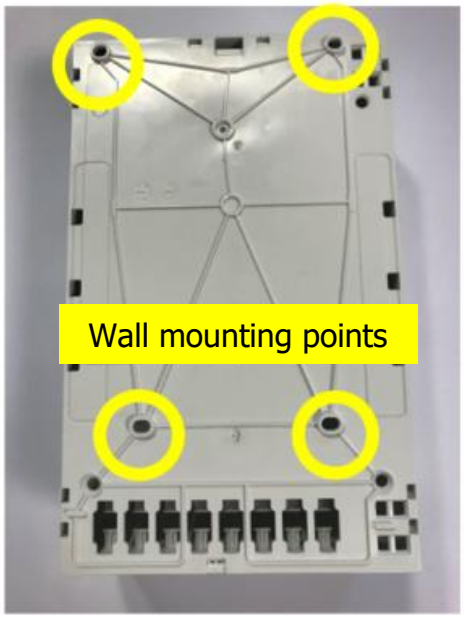
IDENTIFY THE MOUNTING SURFACE FOR PBI-8SC

- Choose a flat surface at a suitable height.

- Ensure that when drilling the PBI-8SC mounting holes no existing networks will be damaged. In case of congested surface, the PBI-8SC can be removed from the wall thanks to the wall bracket: see page 4 for mounting installation.

PREPARATION OF PBI-8SC

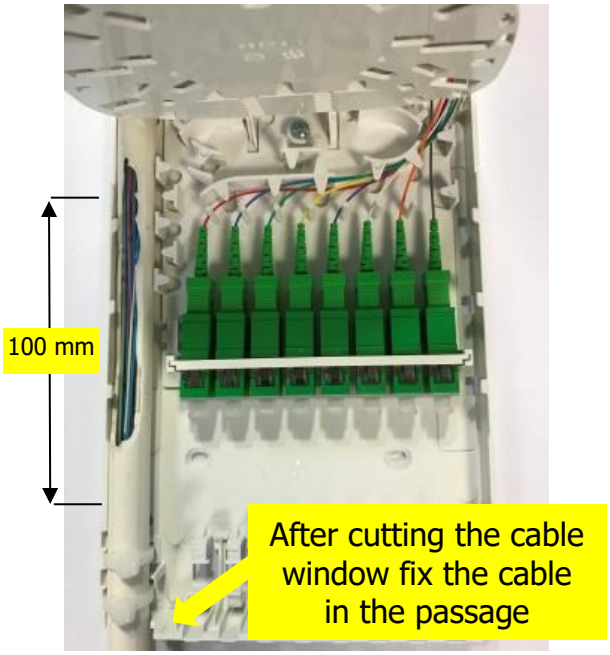
Step 5



- Four positions are available for wall mounting the PBI-8SC.
- Place the PBI-8SC on the wall, mark the holes for fixing.
- Use a 6mm drill bit and fix the PBI-8SC with the dowels and screws provided in the kit.

ROUTING OF FIBRES

Step 1



• To identify the position of the access window, make markings on the cable between the two cable attachment points.

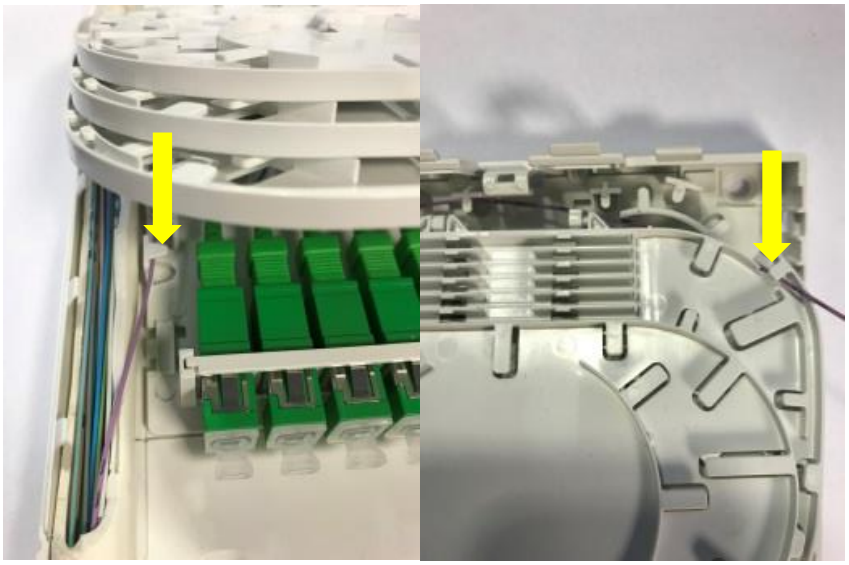
• A 100mm window allows a good identification of optical modules.

• Identify and extract the desired fiber modules.

• Place the cable in the PBI-8SC and tighten the three cable ties and cut off the extra lengths.

ROUTING OF FIBRES

Step 2

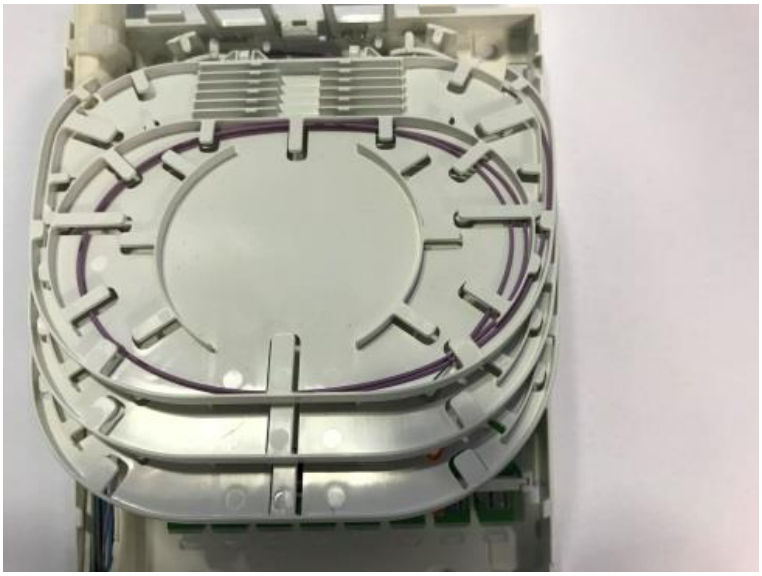


• Each fibre module is guided one by one directly into the splice trays.

• Make sure that each fibre module is correctly positioned under the tabs by holding fingers at the bottom of the tray between the splice trays and in the input port of the splice trays.

ROUTING OF FIBRES

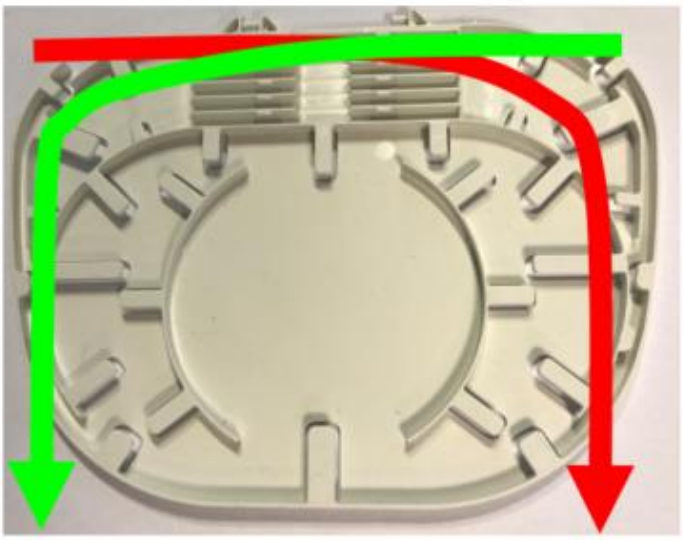
Step 3



- Loop each fibre module in the splice tray fibre storage area.

SPLICING OF FIBRES

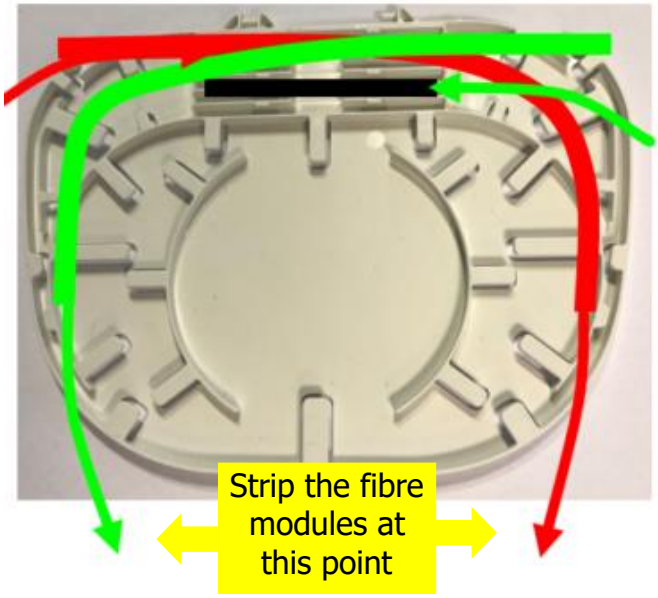
Step 1



- Remove the fibre modules from the splice tray (s).

SPLICING OF FIBRES

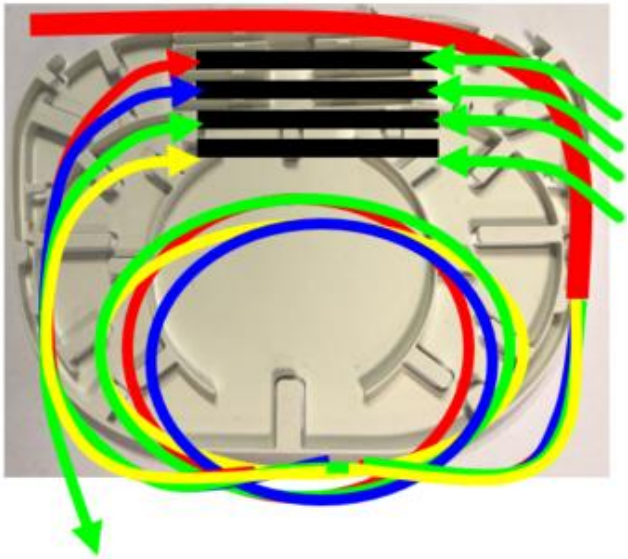
Step 2



- Strip the fibre elements (if required) to the level indicated above.
- Splice the fibres and place the splice protector in the bottom splice bay first.

SPLICING OF FIBRES

Step 3

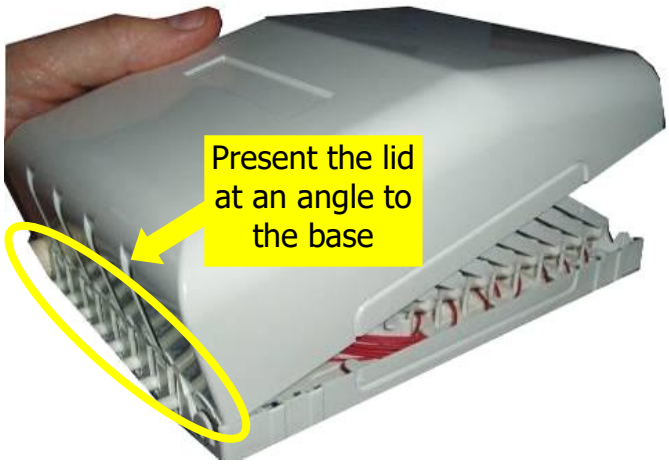


• Loop the fibres at one end of the splice guard and place the fibre crown in the central area of the splice tray.

• Repeat this operation with the other on fibre length.

Closing of PBI-8SC and identification

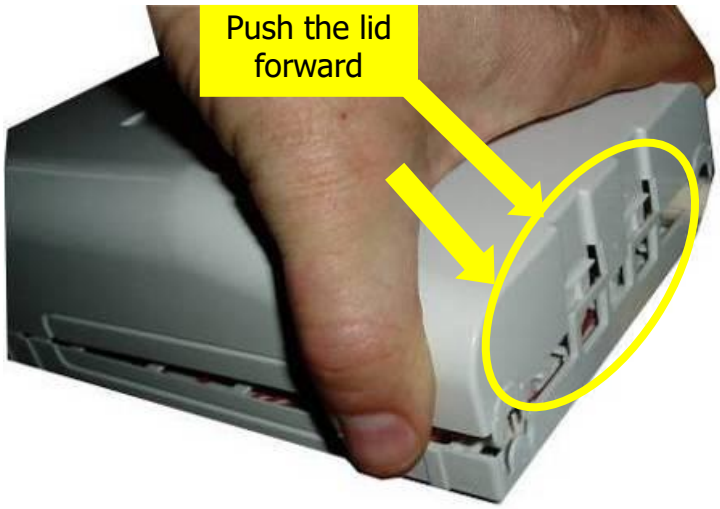
Step 1



- Make sure the splice trays are lowered.
- Present the lid at an angle to the base, insert the four small hooks.

Closing of PBI-8SC and identification

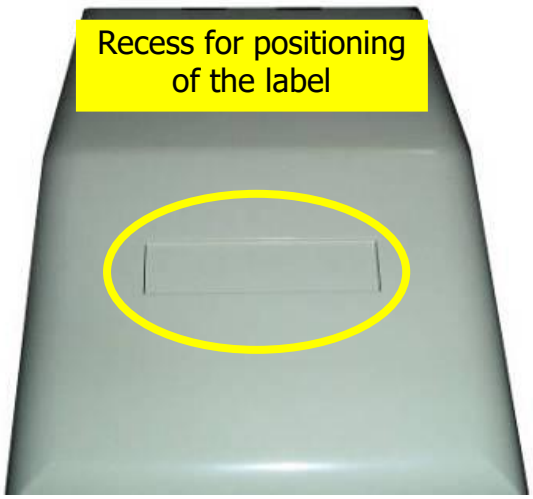
Step 2



- Push the cover forward.
- Make sure both cover clips are snapped into the base of the PBI-8SC.

Closing of PBI-8SC and identification

Step 3



- Use the white label for marking the PBI-8SC.
- Install the label in the recess on the lid.
- Cover the label with the transparent cover by inserting a clip on one side of the impression and then the other by slightly folding the transparent cover.

MOUNTING THE WALL BRACKET

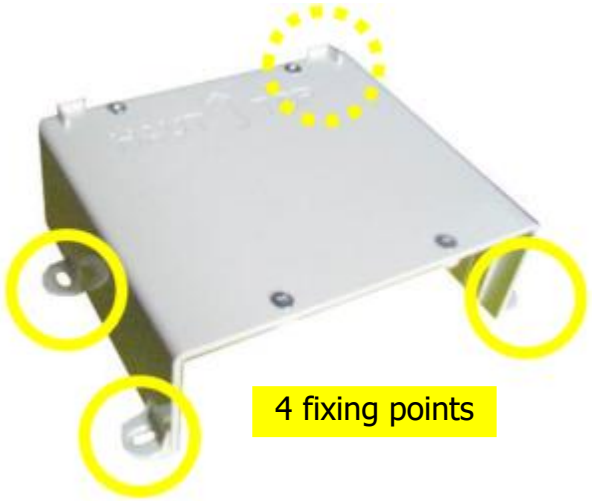
Step 1

Identification of the mounting surface of the wall bracket

- Choose a flat surface at a suitable height.
- Make sure that when drilling the mounting holes of the wall bracket no existing networks will be damaged.

MOUNTING THE WALL BRACKET

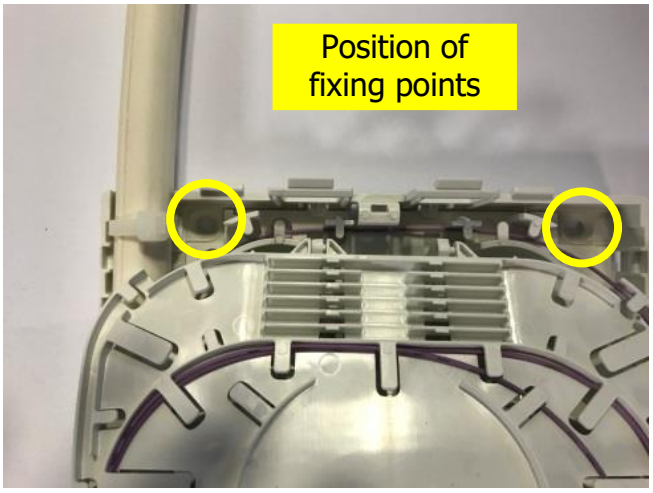
Step 2



- Four positions are available for wall mounting the wall bracket.
- Place the wall bracket on the wall, mark the holes for fixing.
- Use a 6mm drill bit and secure the bracket with the dowels and screws provided in the PBI-8SC kit.

MOUNTING THE WALL BRACKET

Step 3



- Mount the PBI-8SC by pressing it on the upper stops of the support.
- Secure it with 2 screws provided in the wall bracket kit.

INSTALLATION OF BYPASS Y (see data sheet Prysmiangroup: WM045b-F-01 Y bypass)

When the riser cable is installed in a chute, extracted fiber modules are routed to the PBI-8SC via tube (s) via the Y-shunt

Components of the kit

- The bypass Y (two half-shells)
- A length of 1m from the transport tube
- Two cable ties (3,5x100mm)

MOUNTING THE WALL BRACKET

Step 1

• To mount the bypass Y, use a man-made position.

• Make sure that the PBI-8SC can be secured in the vicinity of the bypass Y against the chute, ideally within 50 cm.

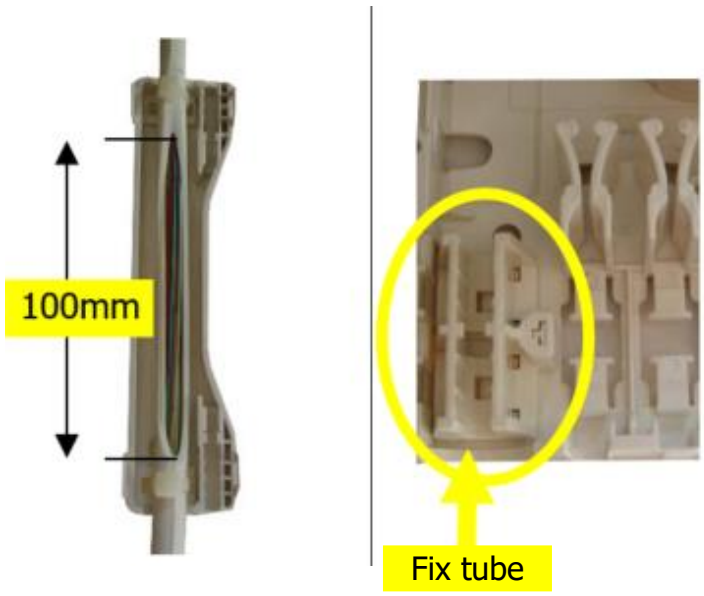
• Make sure that when drilling the PBI-8SC mounting holes no existing networks will be damaged.

• To identify the position of the access window, make markings on the cable between the two cable attachment points. • A 100mm window allows a good identification of optical modules.

• Identify and extract the desired fibre modules.

MOUNTING THE WALL BRACKET

Step 2



• To secure the cable in transit, use the plastic clamps provided in the kit, one at the top and one at the bottom.

• Make sure that the heads of the collars will not interfere with the closing of the bypass Y, then cut off their extra lengths.

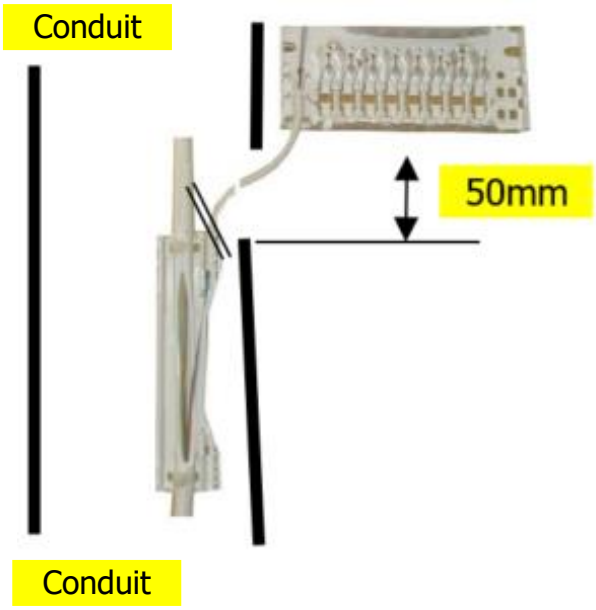
• The bypass Y is used to extract the fibre modules on the left or the left of the passing cable: use only the high output to fix the transport tube (s).

• If only one tube is used, remove the pre-cut on the Y-derivation base.
• If two tubes are used, remove the pre-cuts on the base and on the Y branch cover.

• To hold the transport tube (s) in the PBI-8SC, snap the fixed tube accessory onto the lower inlet of the PBI-8SC nearest the chute.
• Fix the PBI.

MOUNTING THE WALL BRACKET

Step 3



• To allow passage of the transport tube (s) between the bypass Y and the PBI-8SC cut the wall of the chute in contact with the PBI-8SC 50mm length from the bottom of the PBI -8SC.

• Cut the transport tube (s) to the desired length.

• Thread the fibre elements into the transport tube (s).

• Insert the tube (s) in abutment into the bypass Y and then into the PBI-8SC tube holder.

• Close the bypass Y.

• Guide the fibre modules as described in the chapters on page 2 in fibre routing.

INSTALLATION OF PROTECTIVE CABLE COVER

The protective cover of the connection cables is mainly used during a cab installation when riser is installed in a chute.

The cover covers the path of the connection cables to the chute.

MOUNTING THE WALL BRACKET

Step 1

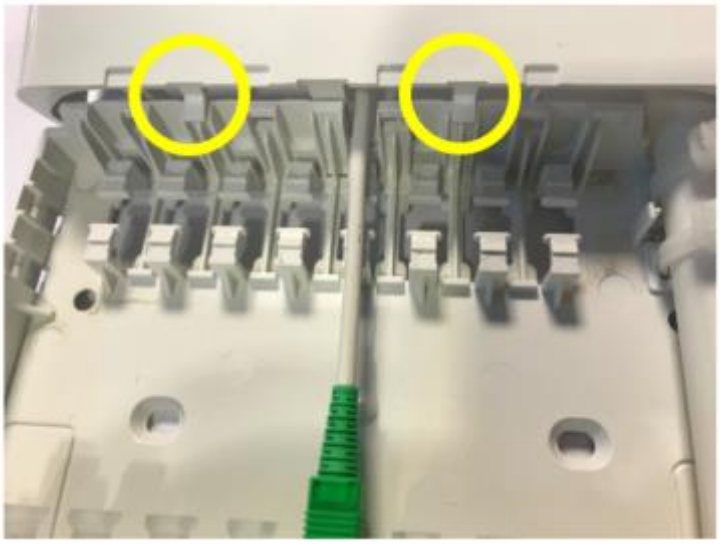
• Using a flat pliers remove the knockout on the side of the skirt in contact with the chute.

• Remove burrs with a file.

• The cover is attached before closing the main cover.

MOUNTING THE WALL BRACKET

Step 2

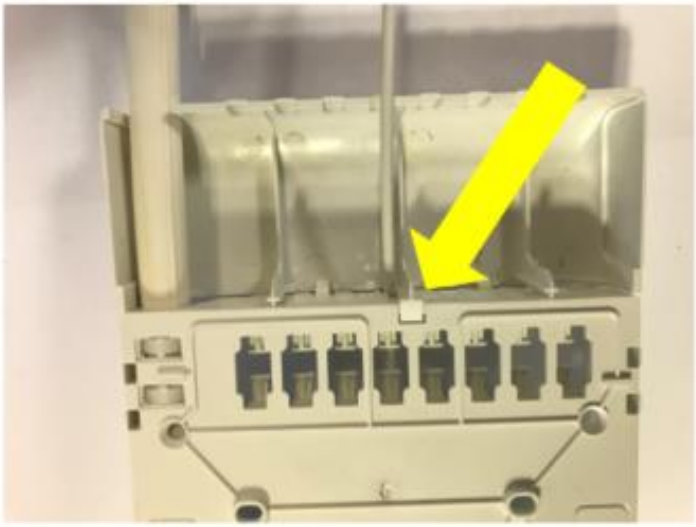


• Present the cover at an angle above the base and insert the two hooks on the base of the product.

• Press the cover toward the wall to snap the centre clip under the product.

MOUNTING THE WALL BRACKET

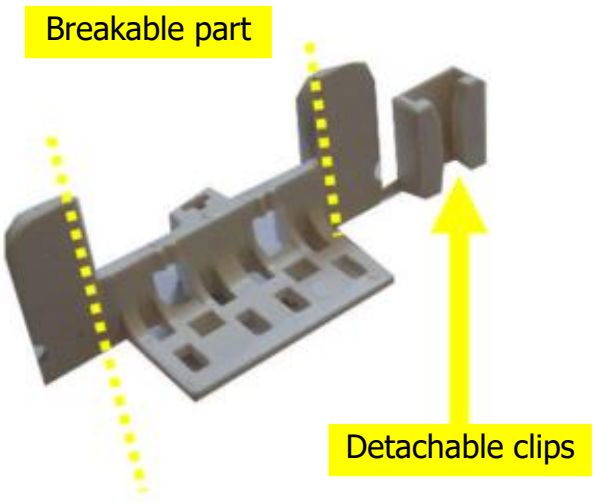
Step 3



- Make sure the clip is correctly positioned.

INSTALLATION OF CABLE WITH ARAMID YARNS

Step 1



• Fixed Aramid Wick (FMA) is used when installing the PBI-8SC in a crawling column.

• It allows the fixing of the sheath and the aramid wicks at the end of the cable.

• Cut the breakable part of the FMA according to the chosen position to fix the cable to the right or left of the splice trays.

INSTALLATION OF CABLE WITH ARAMID YARNS

Step 2

- Prepare the cable end by exposing the fibre module (s) to 150cms.
- Keep 5cms of aramid yarns.
- Fix the cable sheath with two clamps (3.5x100mm).
- Wrap the aramid yarns around the hub and then insert the clip to lock the assembly.

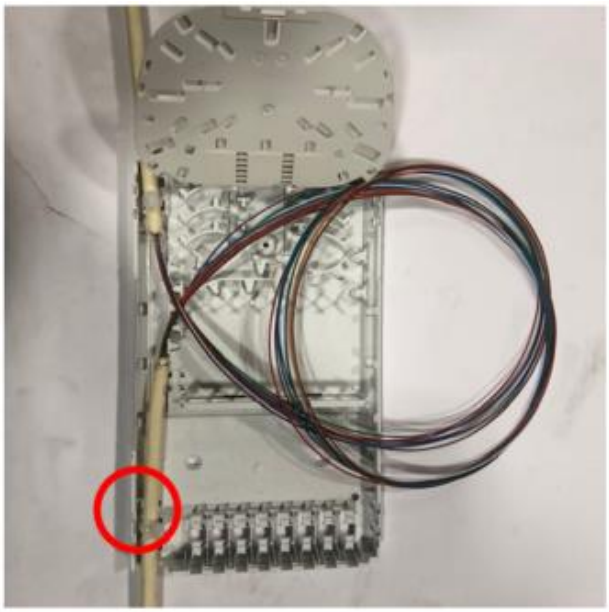
INSTALLATION OF CABLE WITH ARAMID YARNS

Step 3

- Present the assembly above the chosen PBI-8SC input port.
- Snap it into position.
- Guide the fibre module (s) as described on page 2 in fibre routing.

INSTALLATION OF A MID-SPAN

Step 1



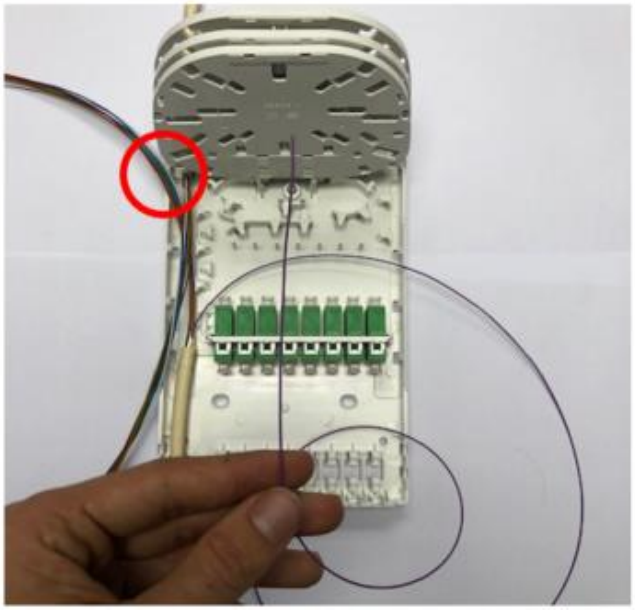
• Cut a 1 Metre Mid-span into the cable using local practices.

• Fix the cables into the PBI-8SC base with the cable ties supplied in the kit (do not fully tighten the cable ties that are Shown in the circle.)

NOTE: TRAYS ARE UNINSTALLED FOR BETTER VISIBILITY (DO NOT UNINSTALL TRAYS.)

INSTALLATION OF A MID-SPAN

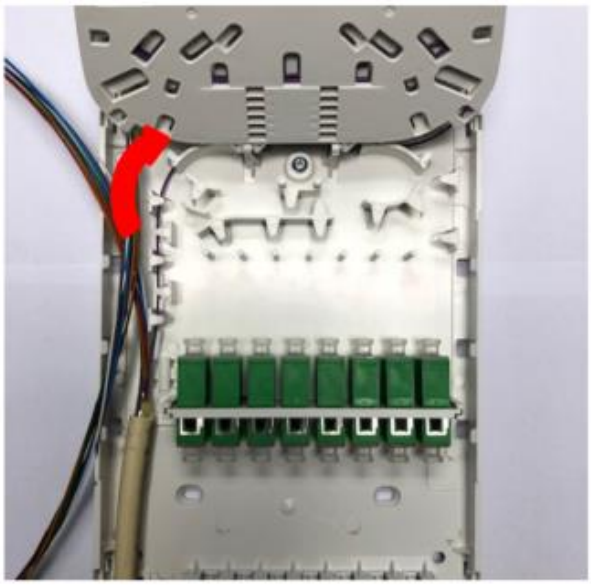
Step 2



- Break out the element to be stored on the tray.
- Cut the element from the top cable Butt as shown in the circle.

INSTALLATION OF A MID-SPAN

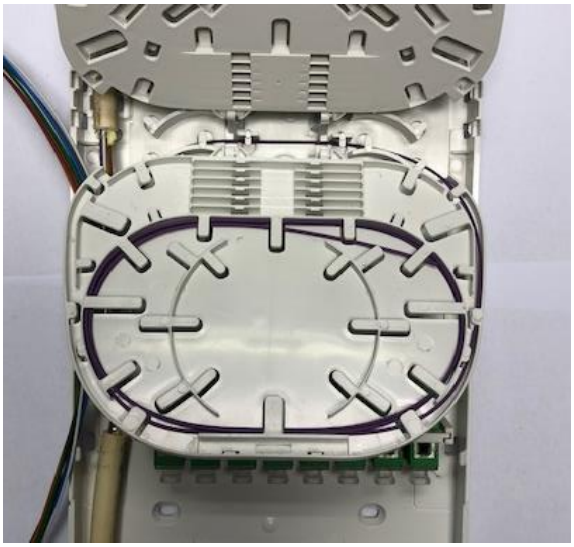
Step 3



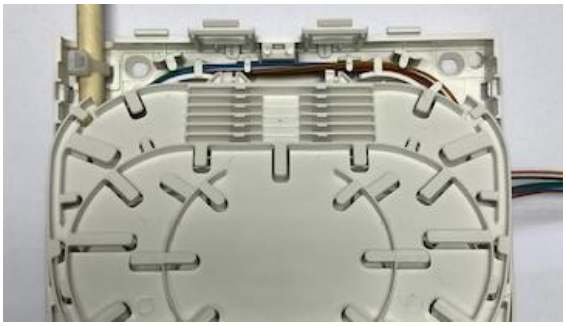
- Start to route the elements as shown in the picture above.
- Route the element into the tray using the fibre management system.

INSTALLATION OF A MID-SPAN

Step 4



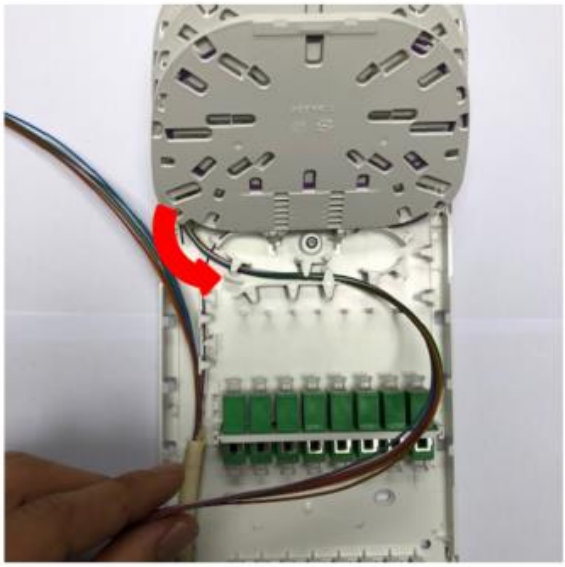
• Route the element into the tray and store it as seen in the above picture.



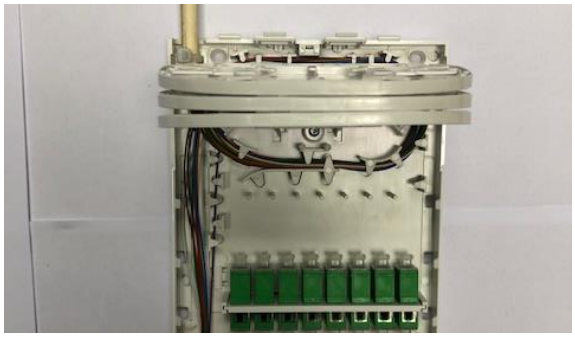
• <u>Routing view for Step 6.</u>

INSTALLATION OF A MID-SPAN

Step 5



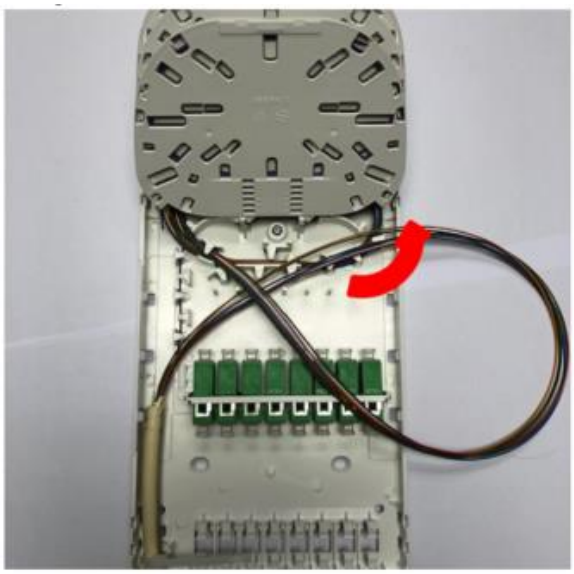
• Start to store the Mid-span from the top end of the cable and route as seen in the above picture.



• <u>Routing view for Step 6.</u>

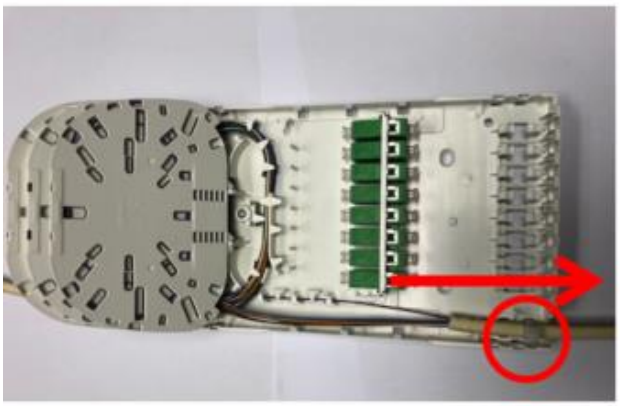
INSTALLATION OF A MID-SPAN

Step 6



• Continue to route the elements around the tack.

• See Pictures below for more routing views.

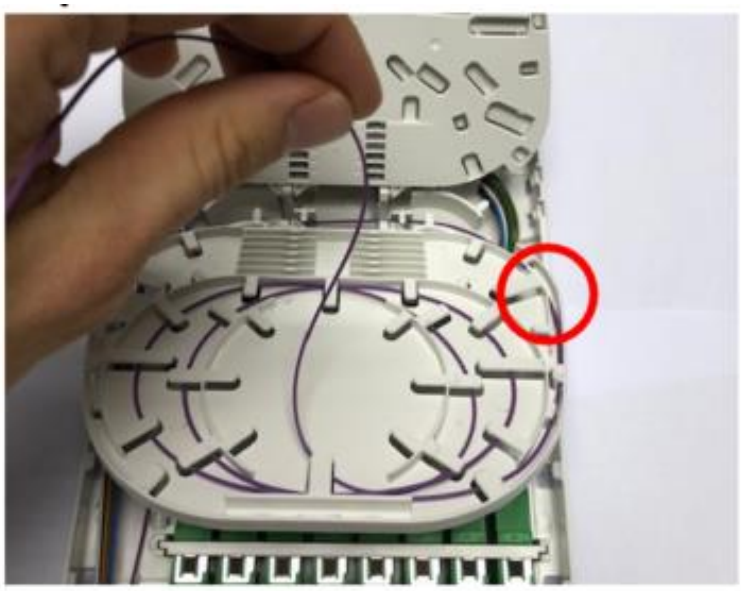


• If there are slack elements pull the cable back to store the elements correctly.

• Fully tighten the cable tie.

INSTALLATION OF A SPLITTER

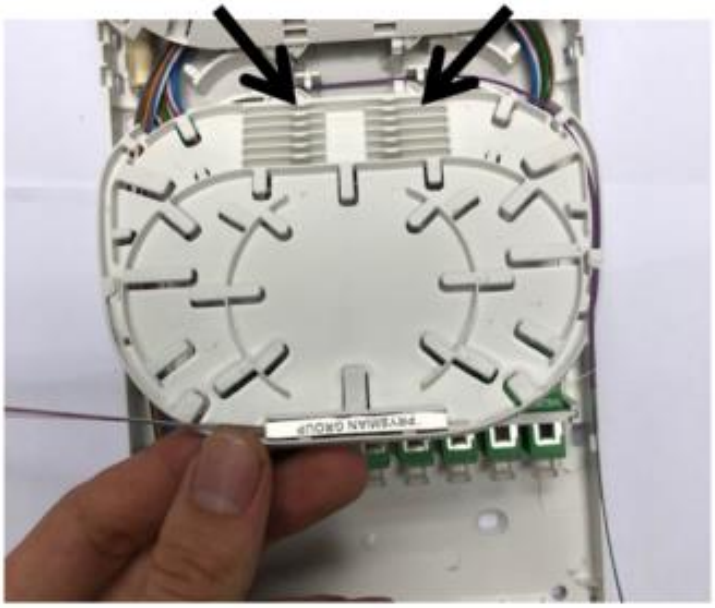
Step 1



- Un-route the stored element from the splice tray.
- Strip the element at the point shown by the circle.

INSTALLATION OF A SPLITTER

Step 2



• Push the splitter into the tray.

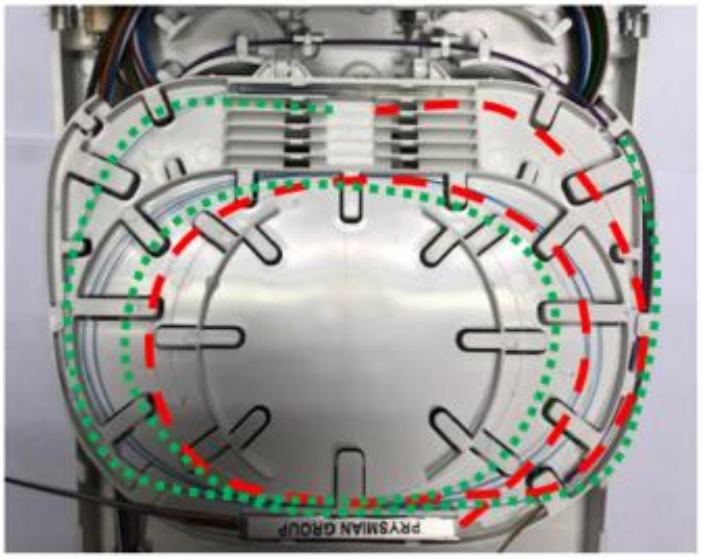
• Ensure that the input fibre is on the right and the output fibres are on the left.

• Splice the input fibres together using local practices.

• Insert the splice protector into the splice bay.

INSTALLATION OF A SPLITTER

Step 3



- Route around the centre of the tray to take up slack fibre.
- Above is a picture of a stored and spliced input fibre.
- Splitter input = DASHED
- Cable out = DOTTED

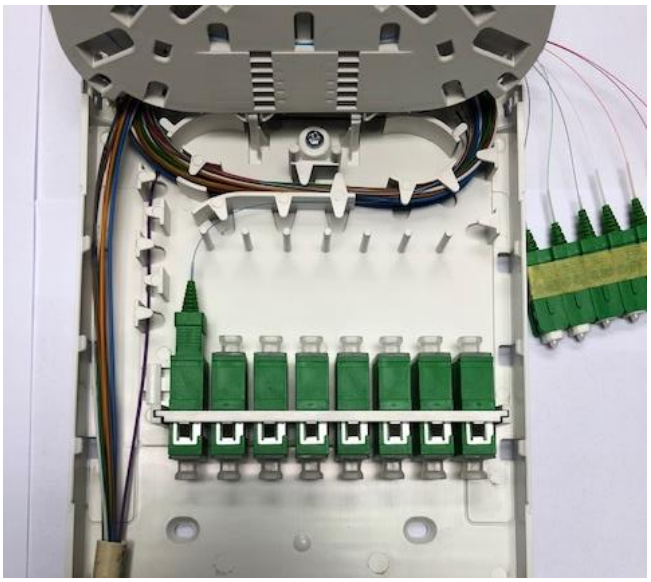
INSTALLATION OF A SPLITTER

Step 4

- Store the remaining fibres by routing around the centre of the tray.
- Route the pre-co output fibres out of the tray = RED

INSTALLATION OF A SPLITTER

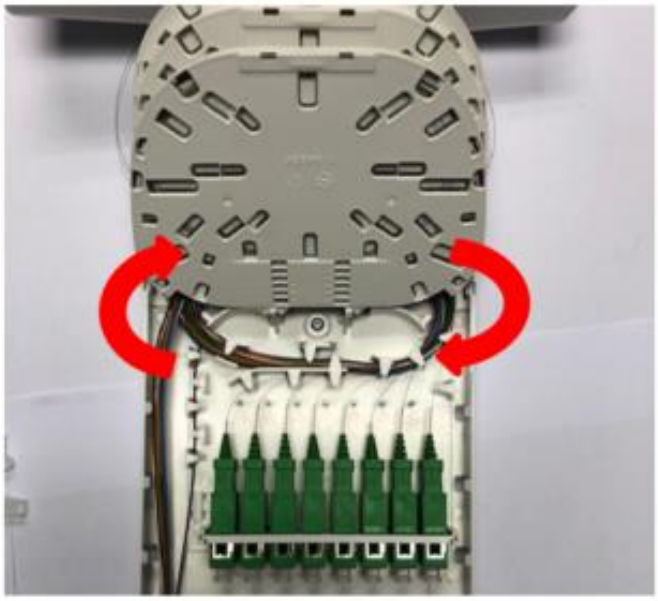
Step 5



• Connect the SC connectors to the SC couplers by removing the protective caps.

INSTALLATION OF A SPLITTER

Step 6



• Store the remaining bare fibre around the bend management system as shown above.

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