24 FIBRE DISTRIBUTION POINT INSTALLATION GUIDE

Configurations of use

Input cable	**Internally / Externally mounted**
	COF207 LFH Riser Cable 12- 96 fibre.
	BFT / BFD (max. 2) Comprising 12 BFU (max. 2).
	COF205 Mini Cable 12-96 fibre.
Output cable	**Internally / Externally mounted**
	COF207 LFH Riser Cable 12- 96 fibre.
	COF208 2 fibre customer premise cable
	COF211 Internal Pull-Back cable (12 x 2 fibres)
	COF212 External Pull-Back cable (12 x 2 fibres)

Description Required

- The 24 FDP is designed for use on the inside or outside wall of Multi Dwelling Unit (MDU).
- The unit acts as a distribution point serving up to 24 customers.
- It can be mounted internally or externally.
- Fibres from the input cables are spliced to fibres from customer connection cables.
- 24 HCSC splice trays allow single circuit management.
- 8 HCSE splice trays can be used to store unused input or output fibres.
- Various types of input cable can be accommodated (see table above).
- Either a Riser-cable loop manager or a Blown Fibre locking module can be fitted as appropriate to manage input cables. These are supplied in the 24FDP kit.
- Output cables can be 24 fibre pull-back cable, COF 211/212, 2 fibre Customer Premise cable COF208 or Riser Cable COF207.

Tools & Additional Items

Additional items	Prysmian Part No.	BT Item Code
- Loop manager - BF locking module - O/P cable glands for Pull-back cable	- tba - tba - tba	- tba - tba - tba
- Splice Protectors 6A	- tba	- tba

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Step 1 – Input port preparation – BFT/BFD & COF205

- Open out the oval port “knock-out” area in the lower left of closure.
- Select the oval port sleeve unit and attach to closure with 4 screws provided.
- Fit both grommets (circled) – note orientation as in illustration.

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Step 2 – Input port preparation – COF207

- Saw along moulded guides and snap off remaining material to form a cable access slot at top and bottom of closure left side.

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Step 3 – Fasten to wall

- Position the 24 FDP at a comfortable working height, ideally bottom of closure between 700mm and 1m above floor level. Use the 24 FDP as a guide to mark wall before drilling. Fasten using screw fitting kit supplied.

  FOR BT/BFD FOLLOW INSTRUCTIONS 4 & 5
  FOR COF205 FOLLOW INSTRUCTIONS 6 & 7
  FOR COF207 FOLLOW INTRUCTIONS 8, 9 & 10

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Step 4 – Blown fibre input – locking module

- Fasten BFU locking module to LHS of chassis using 2 screws provided.
- Route incoming blown fibre tube(s) through each oval port grommet, leaving between 200-300mm above the grommets.
- Trim tube length accurately to securely insert into tube connectors using tube cutter for BFT or cutters diagonal and tube reforming tool for BFD. Connect the 2 lengths of blue friction tube to the tube connectors and **leave straight.**
- Secure tubes to chassis anchor points circled using cable straps.
- Commence blowing installation of 12f BFU(s) into FDP.
- Ensure 2m of fibre is provided beyond the end of the blue friction tube.
- Slide the 2 gas blocks onto the 12f BFU(s), insert the blue friction tube into the gas blocks and then **activate the gas blocks** as per the manufacturer's instructions.

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Step 5 – Blown fibre input – locking module

- Install the blue friction tube into the locking module and secure the gas blocks into their receptacles.
- Strip BFU resin to release fibres.

NOTE: Coating MUST NOT be removed beyond areas circled, near tabs, to ensure proper function of gas block connectors.

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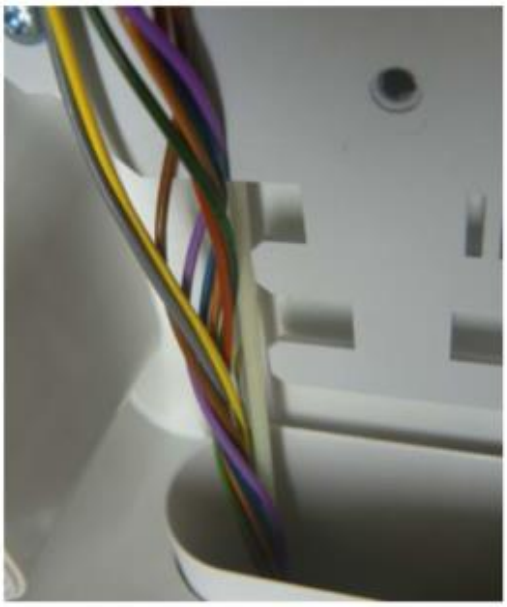
Step 6 – COF205 – loop module



- Fasten loop manager to LHS of chassis using 2 screws provided.
- Thread cable through LH grommet in oval port sleeve.
- Mark and strip cable sheath to provide a butt point at mid-height of oval port sleeve.
- Trim GRP strength member to 150mm, and feed cable upwards ensuring strength member is guided behind FDP back plate, as illustrated.
- Secure element tubes in LH guiding channel using retaining strap.
- Gas block the cable interstices by filling the oval port with resin.

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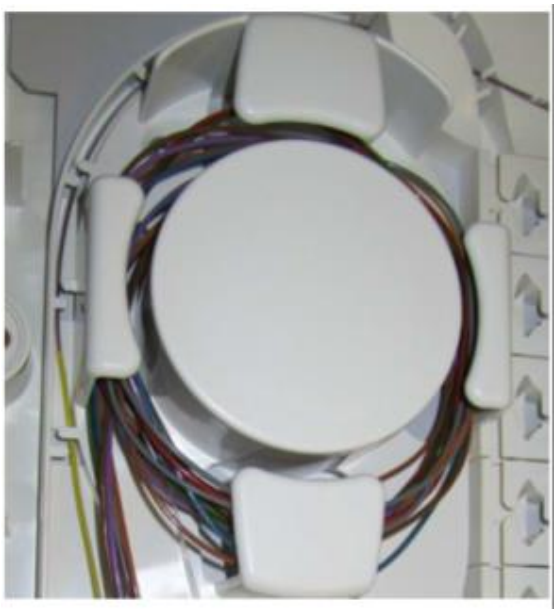
Step 7 – COF205 – loop module



- Remove sheathing from element tubes to approx. 50mm beyond retaining strap.
- Route around outer channel over bed manager on to tray backplane, then down LHS channel to appropriate splice trays.

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Step 8 – Riser cable input – anchor sheath

- Fasten loop manager to LHS of chassis using 2 screws provided.
- Ensure cable loop length of 1.5m is available, temporarily lay cable in closure via slotted ports. Refer to step 2 of this guide.
- Mark sheath butt point at cable entry, as illustrated with arrow above, for 1.5m mid-span sheath removal.
- Complete sheath removal, and secure sheath butts to anchor using cable straps and strength member clamp.

PICTURE WILL BE REPLACED WHEN CORRECT CABLE IS AVAILABLE.

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Step 9 – Riser cable input – loop manager

- Identify fibre micro-bundles to be intercepted and cut close to furthest sheath butt. Route into LH channel. Secure all micro-bundles under tube retaining strap.

- Coil unbroken remaining micro-bundle loops into loop manger, taking care they are securely retained.

NOTE – Riser cable is of flexible micro-bundle 'easy strip' construction, 10.5mm sheath OD.
An optimum method of securely installing this cable into the FDP will need to be determined.

PICTURE WILL BE REPLACED WHEN CORRECT CABLE IS AVAILABLE.

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Step 10 – Riser cable input

- Remove sheathing from intercepted micro-bundles to approx. 50 mm beyond retaining strap.
- Route around outer channel over bend manager on to tray backplane, then down LHS channel to appropriate splice trays.

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Step 11 – Route input fibre to Splice Tray

- Route stripped I/P fibres onto splice trays via the LH routing channel.
- Route each fibre onto the appropriate Splice Tray as shown above.
- Ensure all fibres are safely positioned and held under the fibre retaining tabs.
- Expand the fibre coils towards the outside of the storage area using light finger pressure.

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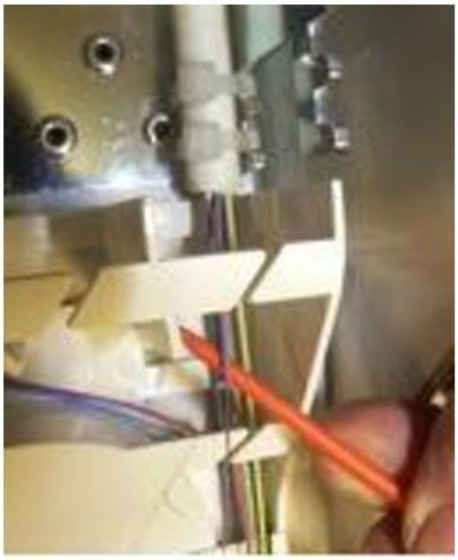
Step 12 – Output 24f pull-back cable



- Starting a rear RHS port, remove the port ‘knock-out’.
- Install cable gland, **after first removing and discarding rubber insert**, and thread cable through.
- Remove 1.5 metre of sheath and secure butt to anchor post with 2 cable straps.
- Strip sheath from fibre units to approx. 50mm from cable butt. Route fibres down RHS to splice trays.

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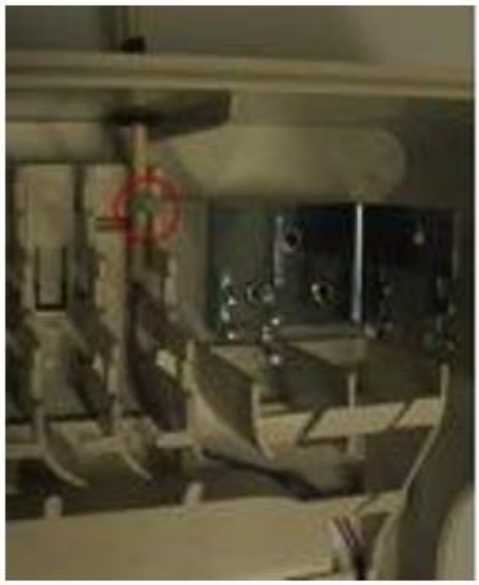
Step 13 – Output 2f cable



- Starting at rear RHS port, remove the port ‘knock-out’.
- Trim tip off boot and slide cable boot ~ 2 metres on cable sheath.
- Remove 1.5 metre of cable sheath and Aramid yarn.
- Feed fibres through port and secure cable butt to appropriate anchor point with small cable strap circled above. Ensure sheath butt is clear of bend.
- Slide down boot and fix in position.
- Route fibres down RHS and on to trays.

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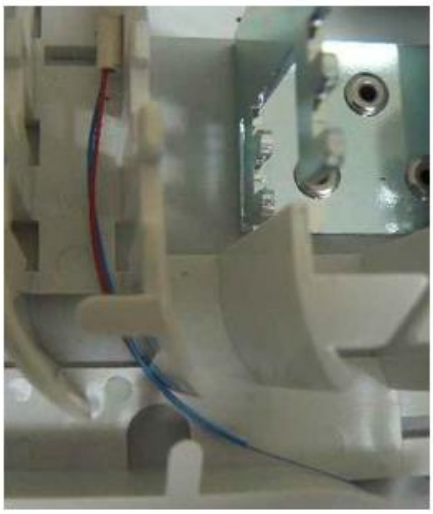
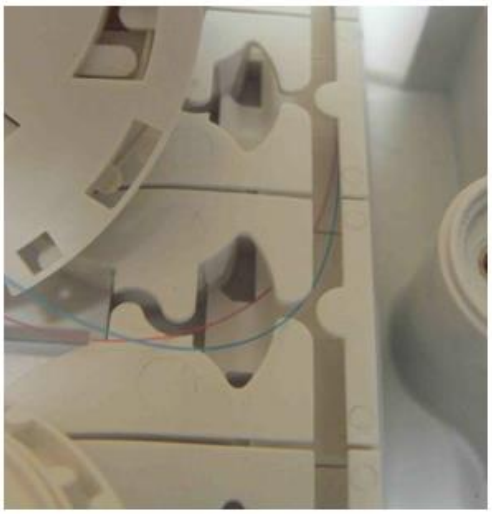
Step 14 – Route output fibre to Splice Trays and store fibres





- Strip fibre secondary coating to a point avoiding contact with bends.
- Route stripped output fibres onto splice trays via the RH routing channel.
- Route each fibre onto the appropriate Splice Tray as shown above.
- Ensure all fibres are safely positioned and held under the fibre retaining tabs.
- Expand the fibre coils towards the outside of the storage area using light finger pressure.

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Step 15 – Fibre records and closing up

- Record fibre and cable routing.
- Replace FDP front cover.

Input & Output Fibre Routing Guide

The two diagrams below should be referenced in conjunction with the instructions in Step 14.

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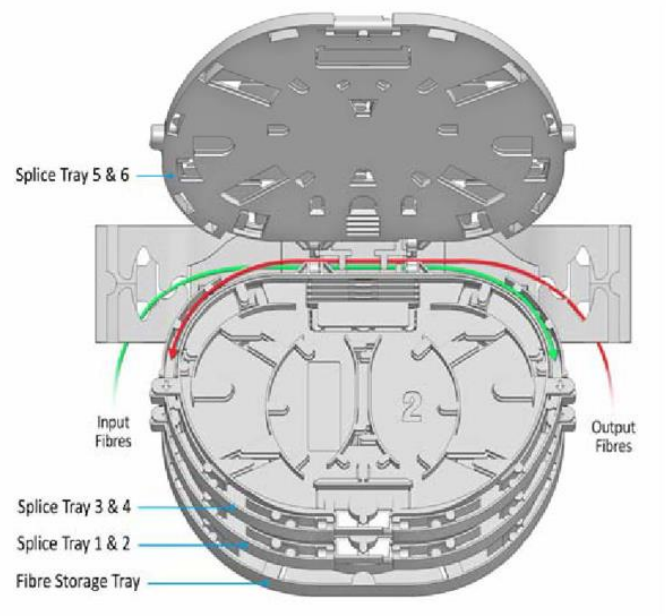

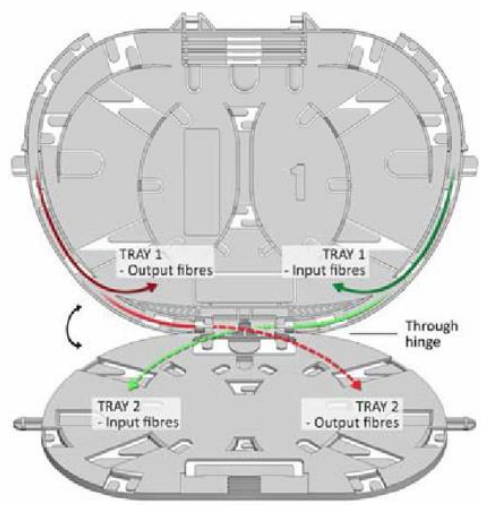

PRYSMIAN HELPLINE: + 44 (0) 7816191633
connectivity.helpline@prysmian.com