

OAsys® INTERNAL PLANT 24 PLASTIC SPLICE AND PATCH SHELF

Description

- Provides a facility for termination of up to 24 fibres, either two twelve fibre cables or one twenty-four fibre cable.
- Suitable for FC, ST, SC and E2000 Simplex, or LC Duplex connectors.
- Suitable for 19" and ETSI rack mounting practices.
- SPACE ENVELOPE: 535mm x 230mm x 44mm (W x D x H).

Tools & Additional Items Required

Additional Items Required: Prysmian Part No.

Slice protectors 4A	XPESC00053
ARS Cable anchor kit	SEXSC01129

Fixings:

All fixings supplied.

Tools:

Pozi Drive Screwdriver No.2, Fibre preparation tools and cable preparation tools.

Component Parts (pictures not to scale)

1 Splice Shelf Assembly

Qty 1



2 Fixing Kit Contents as listed below: -

- | | |
|-----------------------------|---------------------------------|
| 1. 2x ETSI Mounting bracket | 10. 4x Cage Nut |
| 2. 1x Splice holder | 11. 4x M6x12 Sems Screw |
| 3. 1x ARS Base | 12. 4x No.6x 5/8 Plastite screw |
| 4. 1x ARS Manifold | 13. 2x Blank uniter panel |
| 5. 1x ARS Manifold cover | 14. 2x SC uniter panel |
| 6. 1x M4x6mm Screw | 15. 2x FC uniter panel |
| 7. 1x M4xM10mm Screw | 16. 2x Primary fibre holder |
| 8. 2x Cable Tie | |
| 9. 1.5M Bend limiting tube | |

Adding and Removing Uniter Panels and Uniters.
(If you have been supplied with pre-configured shelf skip this stage)

Step 1



- To remove a uniter panel, press the two tabs (one either side) and pull the uniter panel forward. (Ensure there are no pigtails connected to the uniter panel before you remove it).

Adding and Removing Uniter Panels and Uniters.
(If you have been supplied with pre-configured shelf skip this stage)

Step 2



- Fit the uniters to the uniter panel as it is easier to do it at this stage.

Adding and Removing Uniter Panels and Uniters.
(If you have been supplied with pre-configured shelf skip this stage)

Step 3



- To fit the uniter to the shelf, simply push it into the shelf until the tabs lock into place.
- Ensure the step highlighted above is at the bottom of the shelf.

 **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.**

Routing the output fibres (Pigtails)
(If you have been supplied with a pre-configured shelf skip this stage)

Step 4



- Take a primary fibre holder and push into place as shown above. (The fibre holder should click into position).
- Insert the pigtails into the uniters.

Routing the output fibres (Pigtails)
(If you have been supplied with a pre-configured shelf skip this stage)

Step 5



- For the left-hand unit panel route the fibres around the mandrel as shown with the dashed line.
- For the right-hand unit panel route the fibres as shown with the dotted line.
- Ensure all the fibres are routed underneath the tabs.

Routing the output fibres (Pigtails)
(If you have been supplied with a pre-configured shelf skip this stage)

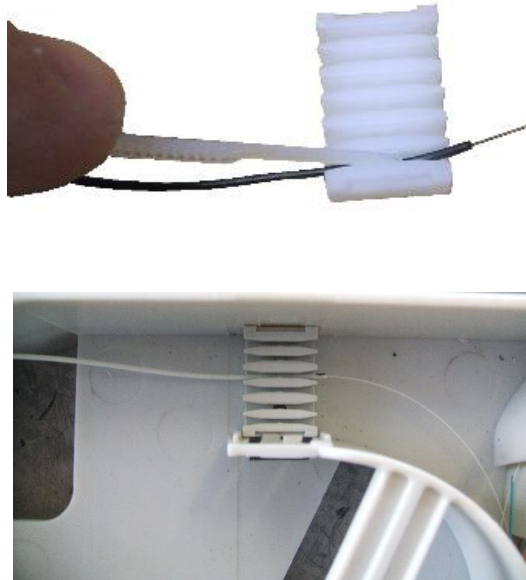
Step 6



- Mark the fibres at the point highlighted above.
- Strip the secondary coating off the fibre from this point.
- It is advised to only work on twelve fibres at a time.

Routing the output fibres (Pigtails)
(If you have been supplied with a pre-configured shelf skip this stage)

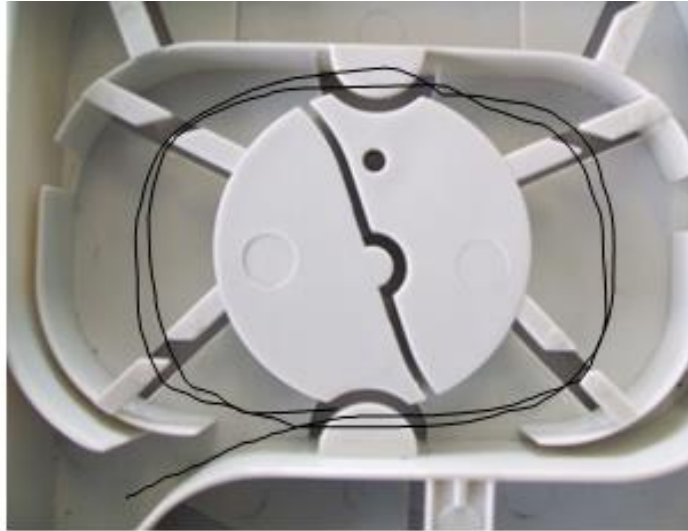
Step 7



- Insert the ends of the first twelve secondary coated fibres into the holder as shown using the thin end of the cable tie provided.
- Fit a second primary fibre holder on top of the one fitted in step 4.
- Repeat step 6 for the second group of twelve fibres.
- Insert the fibres into the holder.

Routing the output fibres (Pigtails)
(If you have been supplied with a pre-configured shelf skip this stage)

Step 8



- Route the first 12 fibres around the tray once in preparation for splicing.

Installation of Input Fibres

Step 9



- Cut a piece of bend limiting tube 435mm long.
- Mark your cable 1.7M from the end.
- Remove the outer sheath and binding.

Installation of Input Fibres

Step 10



- Take the ARS Installation Guide (IP083) and follow the steps using the bend limiting tube cut in the previous step to over sleeve the fibres.
- Fit the ARS to the shelf as shown above.
- The ARS should be in the bottom position. Locate the 'L' shaped tabs into the square cut-outs and pull back until the ARS clicks into position.

Installation of Input Fibres

Step 11



- Push the Bend limit tube down into the grips of the tray as shown. Ensuring the small indents in the tube slide over the ridges in the shelf.
- Route the fibres around the tray once.

Splicing

Step 12



- Fit the splice holder in the orientation shown. (The two rails should be against the tabs as highlighted).
- Carefully uncoil all fibres from the storage area.
- Take your first terminated fibre and splice it to the first fibre from the first element of the input cable.

Splicing

Step 13



- 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.
- Coil all excess fibre onto the splice tray ensuring all the fibres are underneath the tabs.

Patching

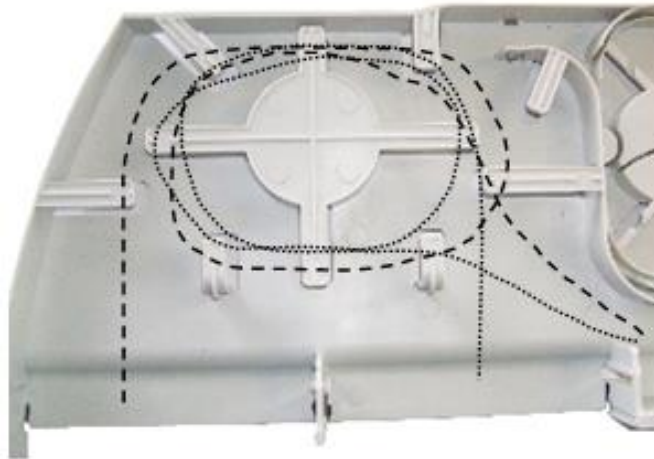
Step 14



- For patch only operations, using pre-terminated cables, feed the patch cords through from the back of the shelf using the same method as a standard input cable.
- Anchor the patch cords using a cable tie.
- Feed the cable tie through the two cut outs highlighted above and then around the patch cords.
- NOTE: It may be necessary to use additional cable ties or spiral wrap around the fibres coming from the cable. Ensure they are neatly bundled together and do not get trapped when opening and closing the shelf.

Patching

Step 15



- Coil the patch cords around the tray as shown above.
- Plug the termination into the desired unit.
- The dotted line shows the route for patching into the right-hand panel and the dashed line shows the route for the left-hand panel.
- You can use the shelf to store excess length on the patch cords.

Mounting the shelf to the Rack

Step 16



- Once all fibres have been spliced the shelf can be mounted into the rack.
- Fit four cage nuts (two each side) as shown then screw the shelf into place using the M6 SEMS screws.
- If ETSI brackets are required use the plastite screws to fit the ETSI bracket to the shelf and then mount into the rack as described above.