

Instruction manual for the fusion splicers

Product contents:



- 1x Fiber Management Plate, including splice trays and parts
- 1x Metal Mounting bracket
- 1x Cover with O-ring seal
- 4x special stainless steel bolts M6 x 50 mm
- 2x combs for tubes
- 2x combs for optical Fibers
- 1x desiccant in a sealed bag
- 20x dummies for subscriber drop cable / duct feed-in rubber
- 1x tube silicone grease (6g)
- 1x mounting kit, 3x plug Ø6mm + 3x fixing screw

Required tools

- Phillips screwdriver PZ 2
- Insulating tape, width 15 - 20 mm
- Clamp
- Measuring tape, permanent marker, cable knife, side-cutting pliers and Kevlar scissors.

Instructions when making alterations

Desiccant bag: replace every time the Fiber Management Plate is removed from the cover.

Cover O-ring seal: replace once the Fiber Management Plate has been removed from the cover ten times.

Instruction manual for the fusion splicers



1. Remove the door by pulling the lever towards you and turning it 90°

Then push the door up $\pm 2\text{cm}$ to remove the door

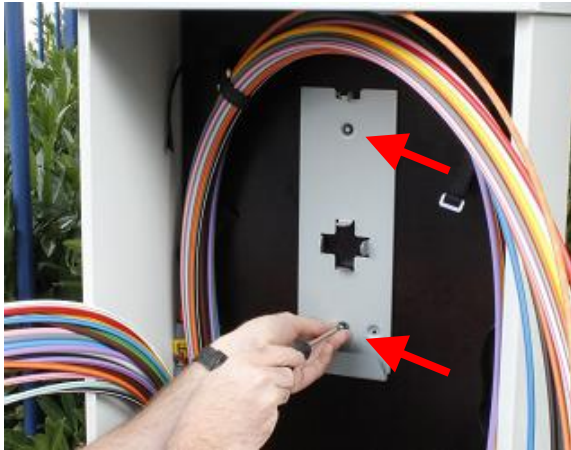


2. Take the customer ducts (or cables) and the DB duct 2x Ø14 / 10 mm ducts out of the fixation points



3. Place the gasblock connector on the DB duct Ø14 / 10 mm with the feeder cable

Place the sealing cap on the other DB duct Ø14 / 10 mm end



4. Fixate the mounting bracket to the mounting panel with the supplied screws

Attention: the fixation points are marked on the mounting panel



5. Fixate the FiberManagementPlate possibly with a clamp to a worktable / workmate.



6. Pull the Velcro strip loose and remove it from the eye.

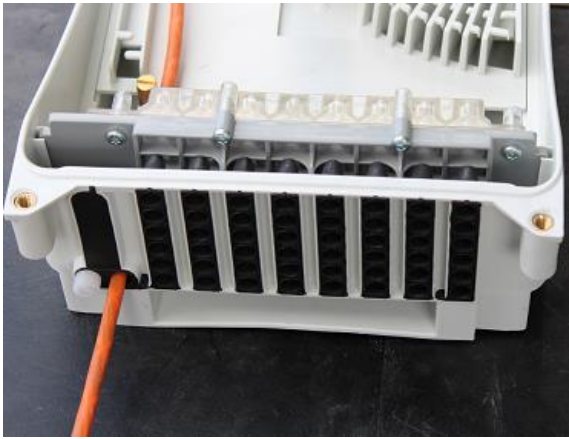
Flip the splice trays back so that there is more room to feed in the ducts / cables.



7. Mark the mini feeder cable at X cm from the end.

(X depending on overlength requirements in the FM-Box by the contractor

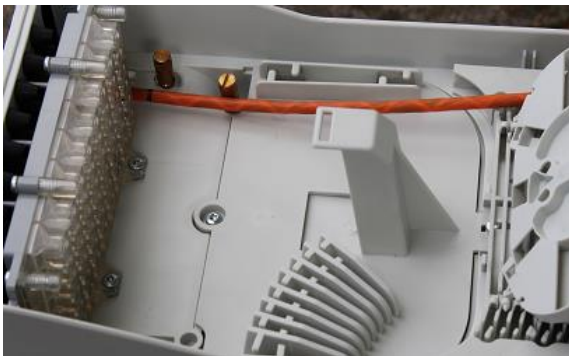
If necessary, use insulating tape to tape over any sharp points so that the feed opening is not damaged.



8. Remove any soil and sharp objects from the outer sleeve, because they may damage the inside of the feed opening when the cable is inserted.

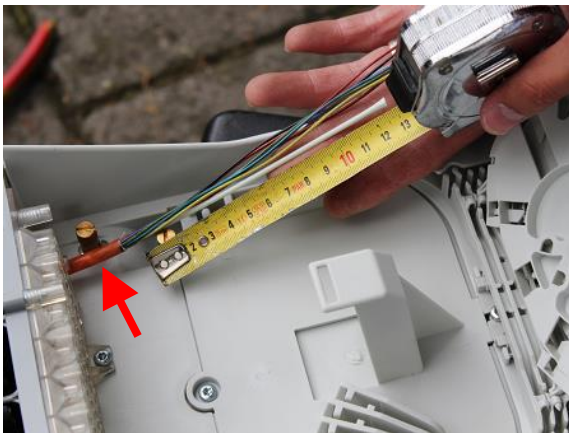
Rub a thin layer of the silicone grease provided on the insert length of the sleeve.

Feed the bundled cable end into the open, right-hand, flexible feed opening ("IN").



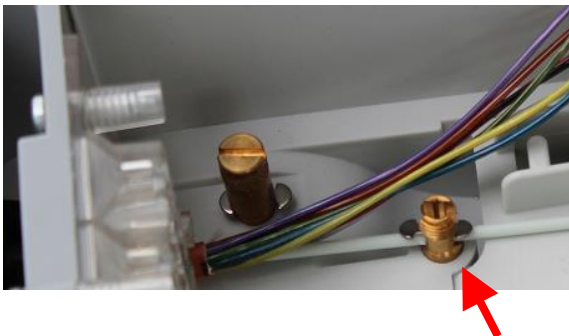
9. Push the mark on the outer sleeve under the partition as far as desired

Remove the insulating tape from the end. Strip the mini feeder cable according to the instructions provided by the cable manufacturer. Remove the sleeve, Kevlar, etc.



10. Shorten the strengthening element so that it extends ± 7 cm from the end of the cable sleeve

Slowly pull the mini feeder cable back through the feed opening until the end of the cable sleeve is level with the front strain relief



11. Disassemble the top part of the rear strain relief and remove the washer

Place the cable strengthening element in the strain relief and place the washer on top



12. Screw the strengthening element tightly under the strain relief's washer



13. Mark the stripping point for the optical Fibers from the end of the cable sleeve, so that they later will be in the middle between the clasps of the tube guide.

Strip the optical Fibers and remove the gel.



14. Mark the customer ducts (or cables) at ± 210 cm from the mounting rail where the ducts (or cables) are fixated

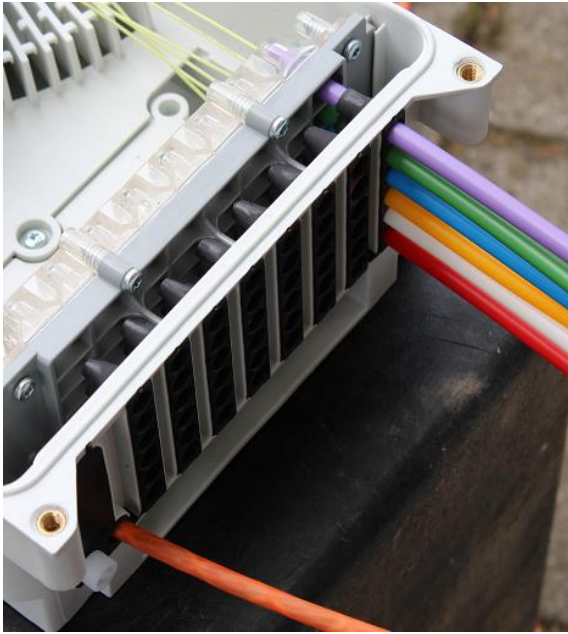
Attention: make sure that there is at least 150 cm extra overlength from this marking for in the cassettes



15. Dismantle the customer ducts (or cables) according to the instructions provided by the duct / cable manufacturer

Cut the outer sleeve perpendicularly. There must not be any lengthways cuts past the end

Use alcohol to remove any grease from the first ± 5 cm of the sleeve. Make sure the mark is not removed



16. Sort the cable or duct bundles per port in advance, so that there is no unnecessary crossing of cables or ducts before the feed openings.

Rub a thin layer of the silicone grease provided on the insert length of the sleeve.

Insert the drop cable or duct through the numbered flexible feed openings. The numbering is given on both the inside and outside of the openings.

Do not yet push the cable or duct through the stop plate, so that any alterations can be easily made. Make sure the mark is 1.5 cm before the feed openingn



17. Fit the rest of the cables or ducts from right to left in the same way as explained in step 16.



18. If all customer ducts (or cables) are inserted in the correct port, push them through the plate all the way to the stop

Attention: Fit dummies in the input ports without customer ducts (or cables). These dummies also need to have a thin layer of the silicone grease on them before being inserted.



19. **In case of direct buried (DB) duct entry:** Dismantle the fibers starting from the plate

Attention: in case of ducts a gasblock need to be applied

In case of direct buried (DB) cable entry:
Skip this step



20. Dismantle the primary coating of the optic fibers from the end of the tube guide

Repeat this for all the other fibers

Attention: use the tube guide farthest to the right for the first splice tray because of the specified minimum bend radius



21. Splice the Fibers according to the instructions.

Place the Fibers in the splice tray according to the splice diagram



22. Tilt the splice trays back against the support.

Fit the cover on the top splice tray

Remove the desiccant bag from the foil packaging

Place the bag at an angle against the splice tray cover and pull the Velcro tightly over it

Feed the Velcro through the eye, fold it back and push it together



23. Place the FM box on the mounting bracket

Tighten the knurled screw by hand to fixate the FM Box on the mounting bracket

TIP: Lay the overlength of the customer ducts (or cables) + mini cable already partially away against the inside of the cabinet. Use the 2 left fixation points for this



24. Then also use the remaining 2 fixation points to neatly store the ducts and/or cables



25. Take the 4 M6 Phillips screws from the package

Place the lid on the Fiber Management Plate.

Tighten the screws with 5 Nm torque



26. The installation of the FM-Box is completed



1. Place the door back by slightly tilting the top and then lower it by ± 2 cm.

Then turn the lever 90° back to close the cabinet again

End of instruction manual