

COMMSCOPE FIST-GPS2 Generic Splice Patch Shelf Instruction Manual

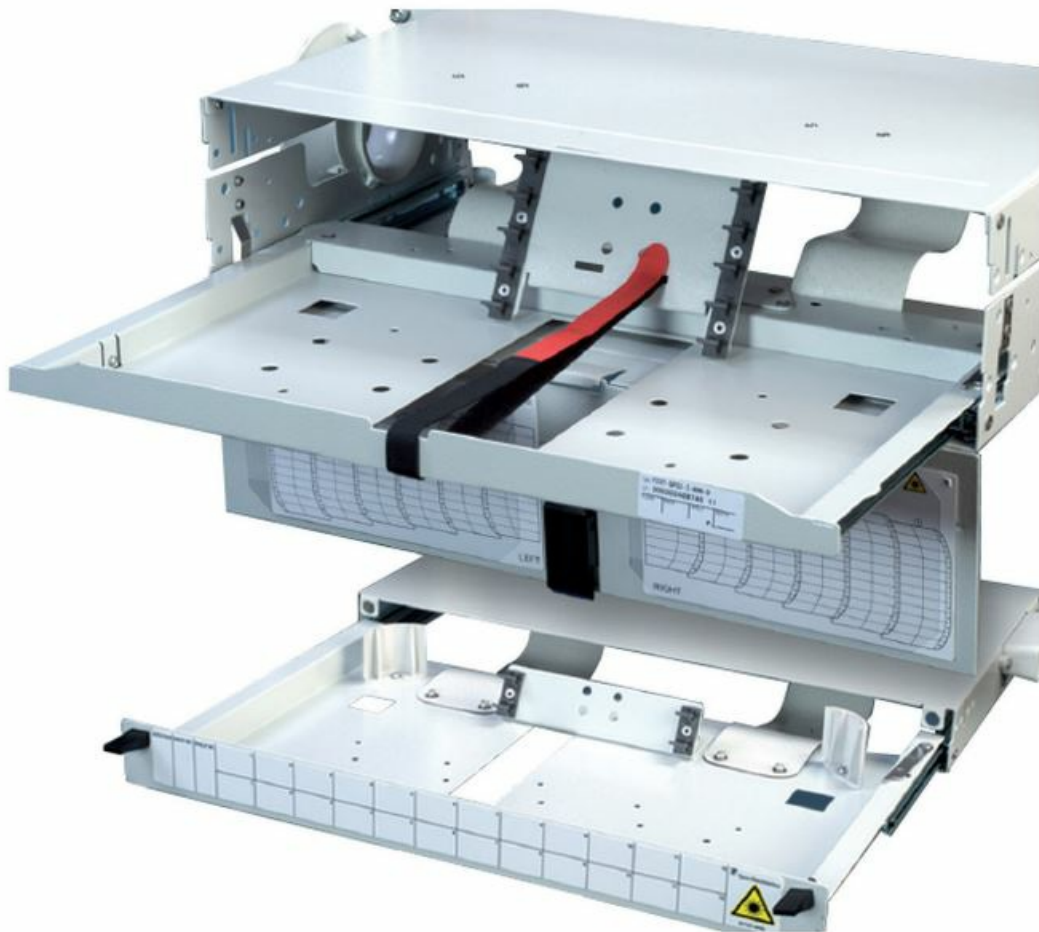
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COMMSCOPE

COMMSCOPE FIST-GPS2 Generic Splice Patch Shelf



Specifications

- Model: FIST-GPS2/GPST-12
- Revision: TC-536-IP Rev A, Feb 2017
- Manufacturer: www.commscope.com

Product Information

The FIST-GPS2/GPST-12 is a patching and splicing shelf designed for fiber optic cable termination and routing. It comes with various configurations to accommodate different cable types and installation needs.

Product Usage Instructions

1. Installation of the Shelf

3.1 Mounting of the Shelf in the Rack

Install the mounting brackets in the correct position respecting the orientation. Use the provided tools for fixing cage nuts into the rack mounting uprights.

3.2 Preparation of the Shelf

Ensure minimum spacing requirements are met on all sides for proper cable management. Remove the cover if needed by bending it carefully.

4. Cable Termination

4.1 Cable Termination in the Rack

Terminate different cable types such as loose tube, ribbon, central core, IFC, and modular cables following the provided instructions.

5. Fiber Routing

Route fibers on the trays according to the cable type being used – loose tube, IFC, breakout cable, ribbon, or ribbon pigtails.

6. Storage

Properly store excess cables and components to maintain a neat and organized setup.

7. Patching

Connect fibers using patch cords or preconnectorized cables based on the kit contents.

8. Closing the Shelf

Securely close the shelf after completing all necessary terminations and patching.

9. Important Steps

Follow local safety regulations related to optical fiber installations throughout the process.

FAQ

Q: What are the optional accessories available for the FIST-GPS2/GPST-12?

A: Optional accessories include FIST-UST-3HU-B-A, FIST-UST-3HU-B-B, FIST-UST-EXKIT-2CA, and more. Refer to the appropriate ordering guide for a complete list.

Introduction

Product function This shelf is a mechanical enclosure for a physical fiber management system. It is used for splicing and patching: splicing primary coated fibre from loose tube cable or pigtails to fibre pigtails on a single element base and connector patching to patchcords with a capacity of 144 (= 6 x 24) splices and connections. It is a high-density multifunctional unit designed for particular applications and environments. This unit uses Patching/Splicing Trays with 12 connector positions. The GPST-12 trays house the splices, slack fibre, connectors, pigtails and patch cords. It can be installed in Commscopes FIST rack and other 19" or metric (ETSI) racks. Follow local safety regulations related to optical fibre plant elements.

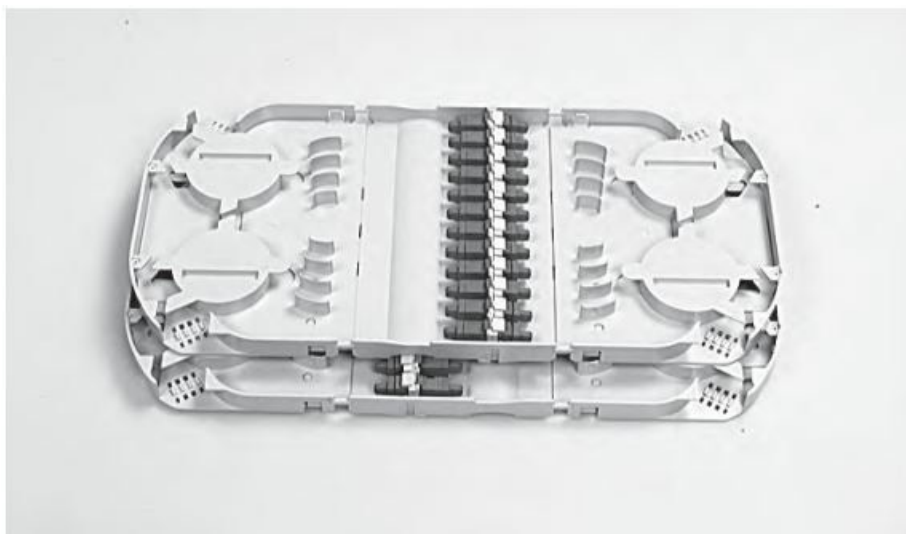
General

Kit contents



Patch cord IN – patch cord OUT (example: FIST-GPS2-M-AAA-6)

- 1 unit, incorporating
- Metal chassis with drawer,
- Hingable and removable metal front cover
- Hinge and hook and loop fastener strap for installation of GPST-12 trays
- 2 pigtail horns
- 2 tray support wedges
- 6 GPST-12 Trays (If preinstalled)
- Cage-nuts and bolts
- Mounting brackets + screws
- Installation instructions
- ID labels



GPST-12 tray configuration: (Patch only) (example: FIST-GPST-12-AAA-2)

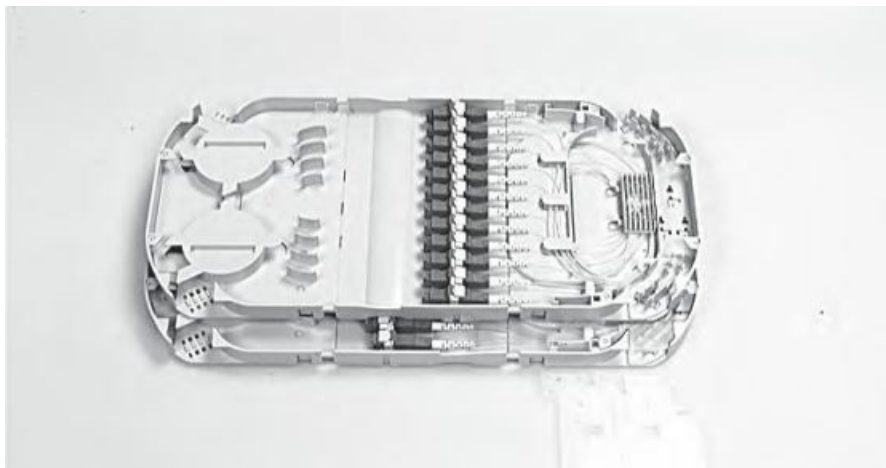
- Tray with 2x patch Unit

- 12 connector adapters per tray
- Always delivered in sets of 2 complementary pieces



Loose Tube/preconnectorized IFC IN- patchcord OUT (example: FIST-GPS2-M-AIA-6)

- 1 unit, incorporating
- Metal chassis with drawer,
- Hingable and removable metal front cover
- Hinge and hook and loop fastener strap for installation of GPST-12 trays
- 2 pigtail horns
- 2 tray support wedges
- 6 GPST-12 Trays (If preinstalled), preferred
- Cage-nuts and bolts
- Mounting brackets + screws
- Tie wraps + adhesive foam
- Installation instructions
- ID labels

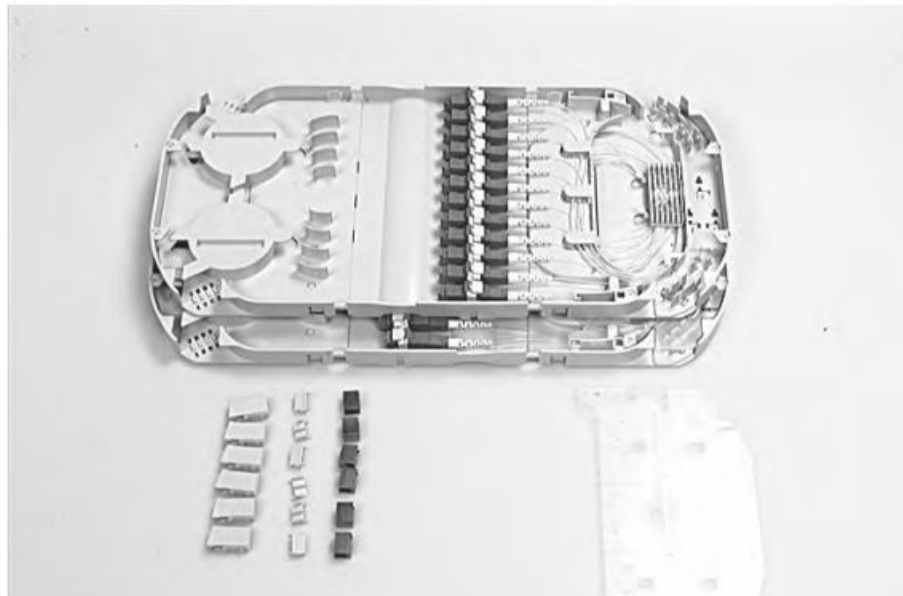


GPST-12 tray configuration: Patch/splice (Loose Tube and preconnectorised IFC cable) (example: FIST-GPST-12-AIA-2)

- Tray with 1x patch and 1x Splice Unit with splice holder for 12 SMOUV-02 (45 mm)
- 12 Connector adapters and pigtails per tray (no pigtails in case of IFC)
- 12 SMOUV (splice protector) per tray
- Always delivered in sets of 2 complementary pieces

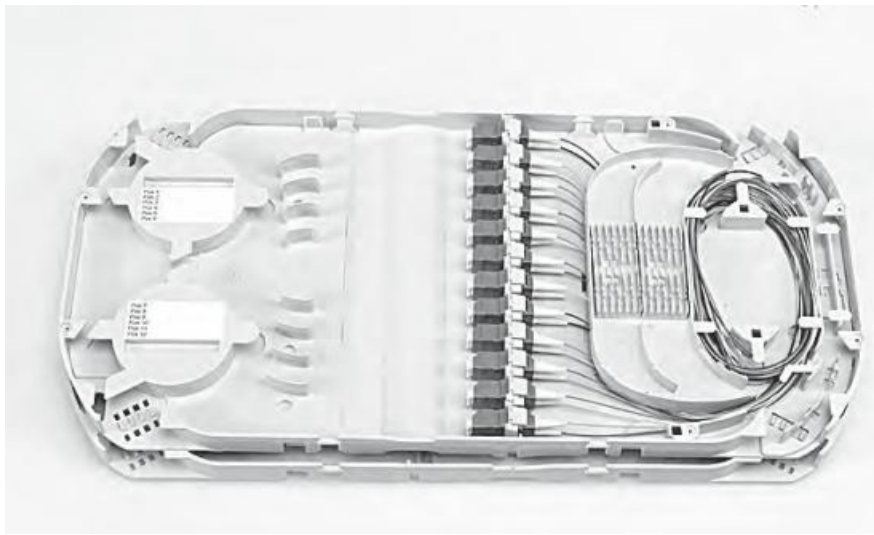
Non-preconnectorized break-out cable IN-patchcord OUT (example: FIST-GPS2-M-AKA-6)

- 1 unit, incorporating
- metal chassis with drawer,
- Hingable and removable metal front cover
- Hinge and hook and loop fastener strap for installation of GPST-12 trays
- 2 pigtail horns
- 2 tray support wedges
- 6GPST-12 Trays (if preinstalled)
- Cage-nuts and bolts
- 18 GTU(Group Termination Unit)
- Mounting brackets + screws
- Installation instructions
- ID labels



GPST-12 tray configuration:(Patch/splice) (Breakout cable) (Example: FIST-GPST-12-AKA-2)

- Tray with 1x patch and 1x Splice Unit with splice holder for 12 SMOUV-02 (45 mm)
- 12 connector adapters and pigtails per tray
- 3 GTU's (Group Termination Unit) per tray
- 12 SMOUV (splice protector) per tray
- Always delivered in sets of 2 complementary pieces



GPST-12 tray configuration: Patch / splice FIST-GPST-12-AML1-2

- Tray with 1x patch and 1x Splice Unit with splice holder for 24 SMOUV-02 (45 mm)
- 24 connector adapters and pigtails per tray
- 24 SMOUV (splice protector) per tray
- Always delivered in sets of 2 complementary pieces

Tools

- FACC-ALLEN-KEY-5-350 To mount the shelf in the rack
- FACC-CAGE-NUT-TOOL For easy installation of cage nuts in the rack
- FACC-TUBE-STRIPPER-02 Loose tube stripper
- FISTV-E7170-0003-S5027 Marker pen

Optional accessories

- FIST-UST-3HU-B-A Termination unit for 2 loose tube cables (top or bottom)
- FIST-UST-3HU-B-B Termination unit for 2 IF or BO cables (top or bottom)
- FIST-UST-EXKIT-2CA Upgrade for 2 extra cables on the standard termination unit
- FIST-UST-XX Side cable termination unit (max. 2 cables)
- FIST-CT-B-2 Back cable termination unit (max. 2 cables)
- FIST-MB2-M Adaptation bracket 19"- ETSI (2 pcs)
- FIST-MB2-M-AS Asymmetric adaptation bracket 19"- ETSI (2 pcs)
- FISTV-E7187-6316 Hook and loop fastener rolls for pigtail
- SMOUV-1120-02 45 mm SMOUV fusion splice protections
- FIST-TUBE-5MM-30 5 mm tubing
- FIST-GS-FLEX-12-50 Flexible tubing, internal Ø 12 mm, 50 m
- FIST-GS-FLEX-17-50 Flexible tubing, internal Ø 17 mm, 50 m
- FIST-GR-TD-5MM Tube divider 6 IN/OUT (for GR)
- FIST-GPS2-TD-5MM Tube divider 6 IN/OUT (use in GPS2)
- OC-ADK-... Various connector mating adapter kits
- OCP-... and OCJ-... Various optical jumpers and pigtails

see the appropriate ordering guide

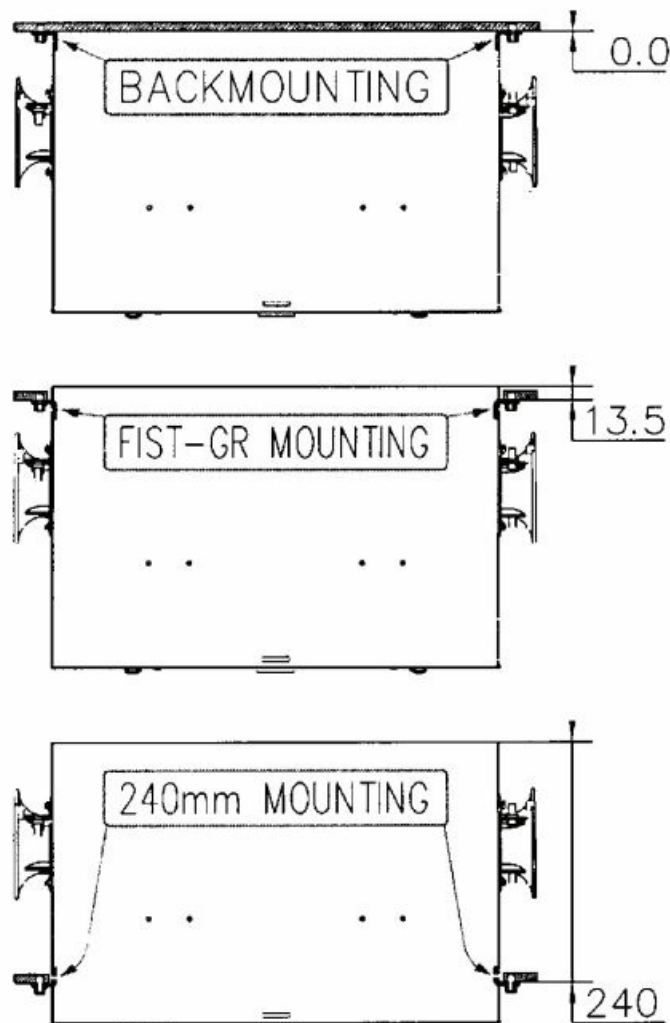
Remark: 19" shelves have no bend controls on the platform, at the back of the drawer.

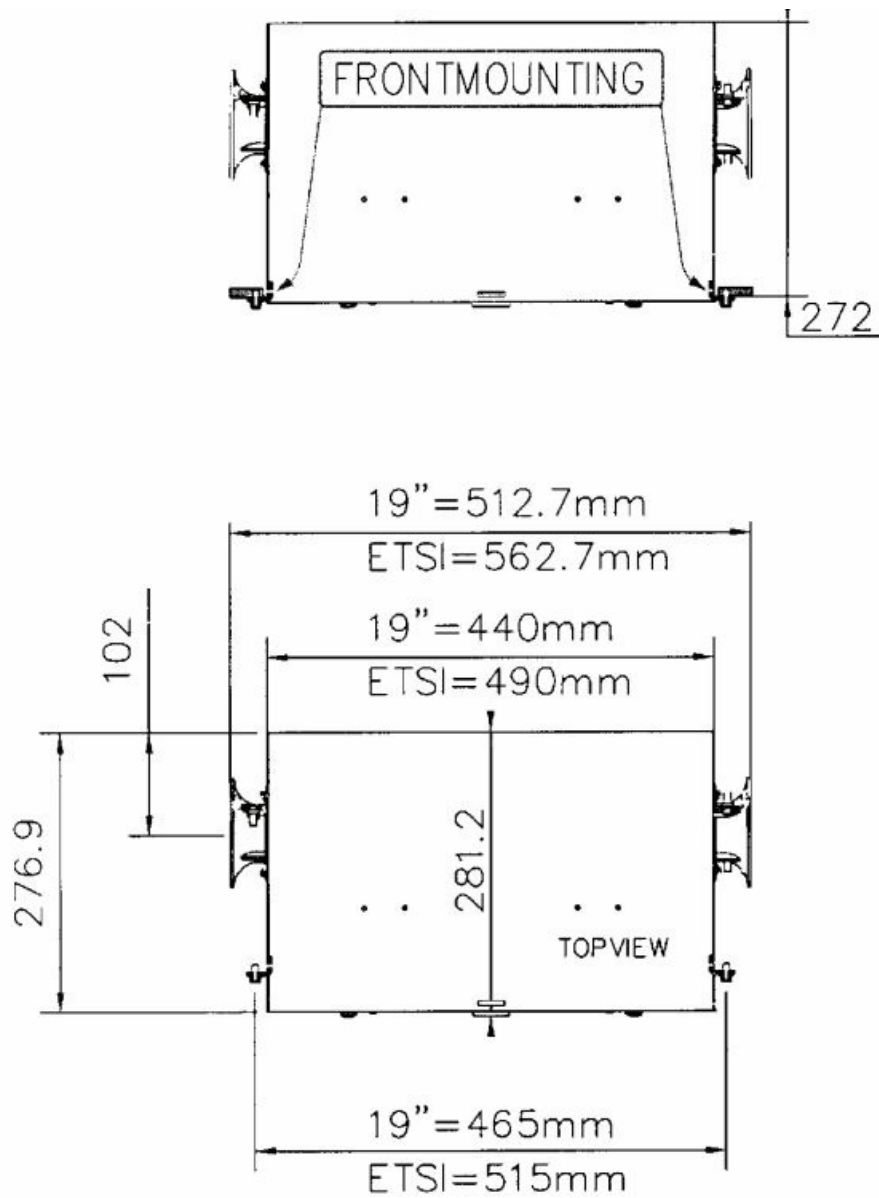
Installation of the shelf

Mounting of shelf in the rack



Install the mounting brackets on the correct position. Respect correct orientation. GR mounting is shown





Space requirements

- 1 minimum 60 mm at left/right for horn and IFC or pigtails.
- 2 minimum 60 mm at left /right in case of cable side termination.
- 3 minimum 45 mm at back in case of cable back termination.

Spacing between adjacent units may vary depending on frame upright pitch and cable management products!



Determine the position of the shelf (see rack installation instruction). Fix the cage nuts into the rack mounting uprights (use the FACC-CAGE-NUT-Tool).



Mount the shelf using the FACC-ALLEN-Key.



In case of mounting 19" shelves in ETSI rack: mount the adaptation brackets (FIST-MB2-M).

Preparation of the shelf



If needed remove the cover by bending it carefully.



Pull the drawer to the fully open position and rotate the securitylip 180° to prevent the drawer from moving back inside the unit.





A horn is needed at the side where the pigtails are entering the shelf. Install the horn by positioning it centrally in the opening at the side of the shelf. Align the small knobs with the slots in the side, strongly push and turn until the locking pin click into positioning hole

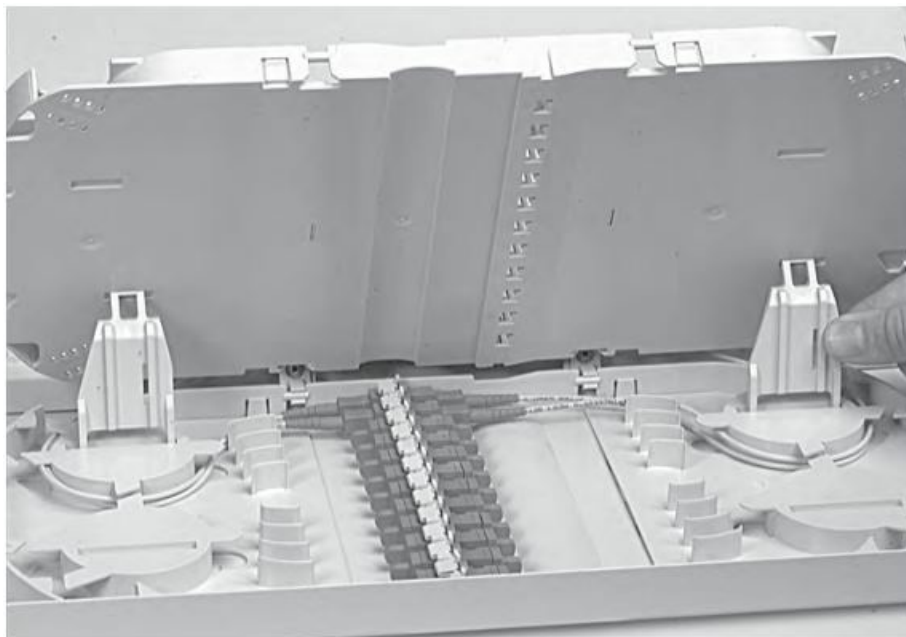


If needed the horn can easily be turned to an open position

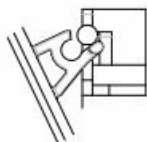


If is possible to install the edge protection

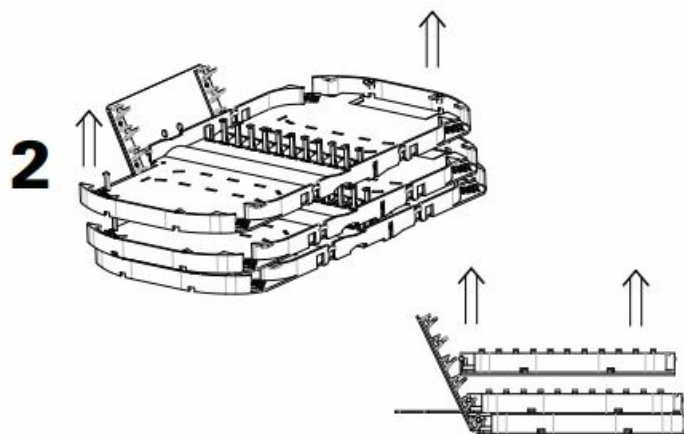
Preparation of the trays

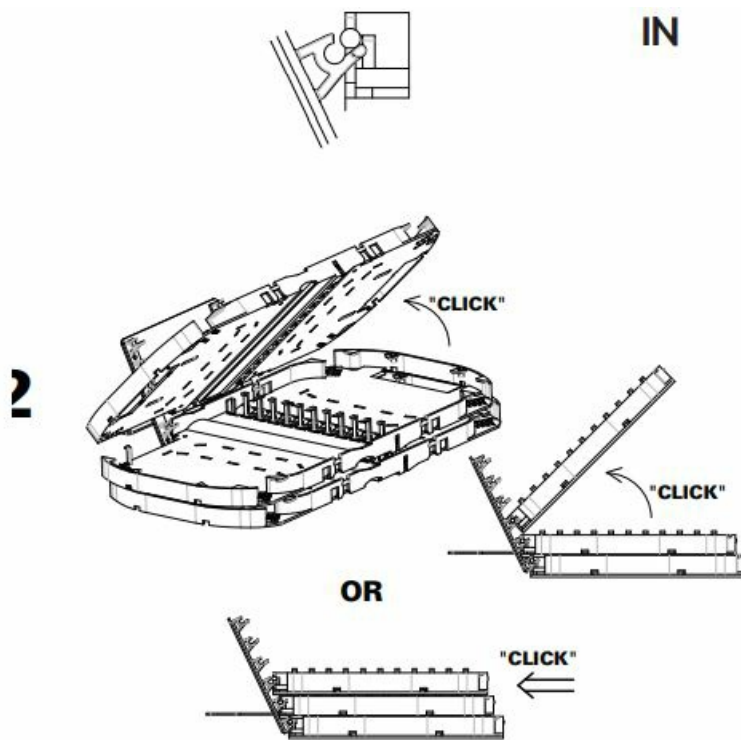


To make a tray accessible raise all the trays above. Keep these in position by using two tray wedges. The bottom tray is standard always marked with “L” at the front



OUT





All trays can easily be inserted or removed.

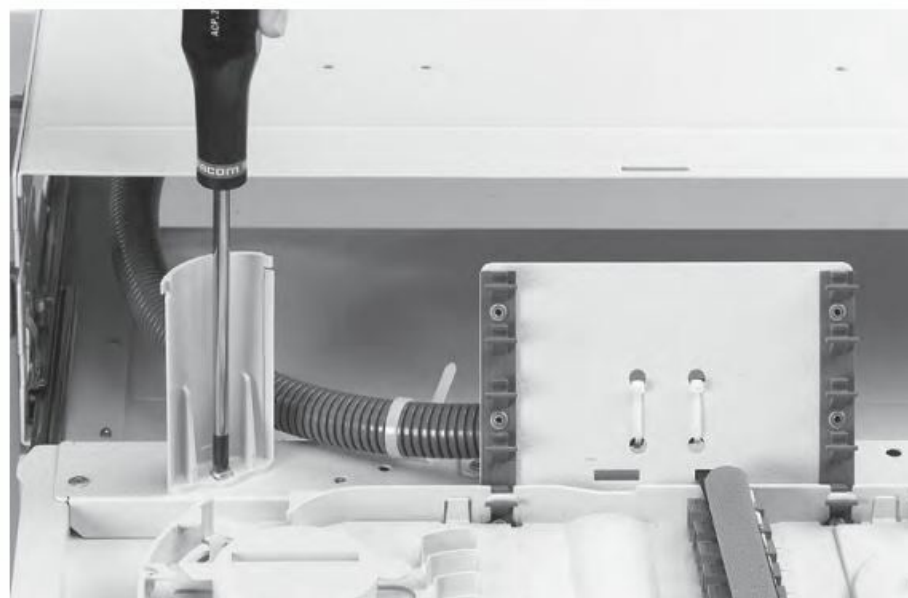
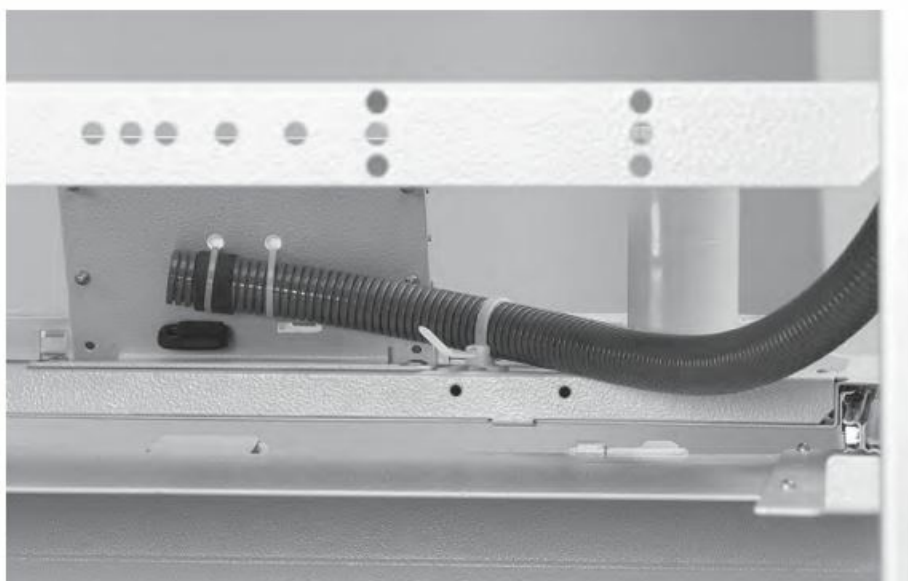
Cable termination

Cable termination in the rack

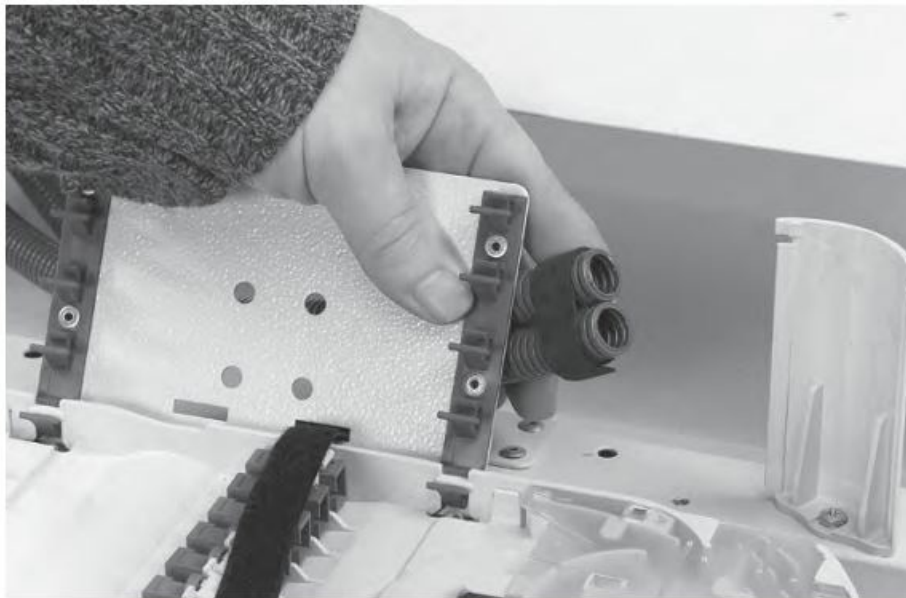
Cable is already terminated in the rack or in the side duct of the rack on the cable termination plate. For the loose tube cable the tubes are protected from the cable termination plate with the flex tube. For central core cable, fibers are guided into guiding tubes who go direct into the shelf.

A Loose tube cable (single fiber)

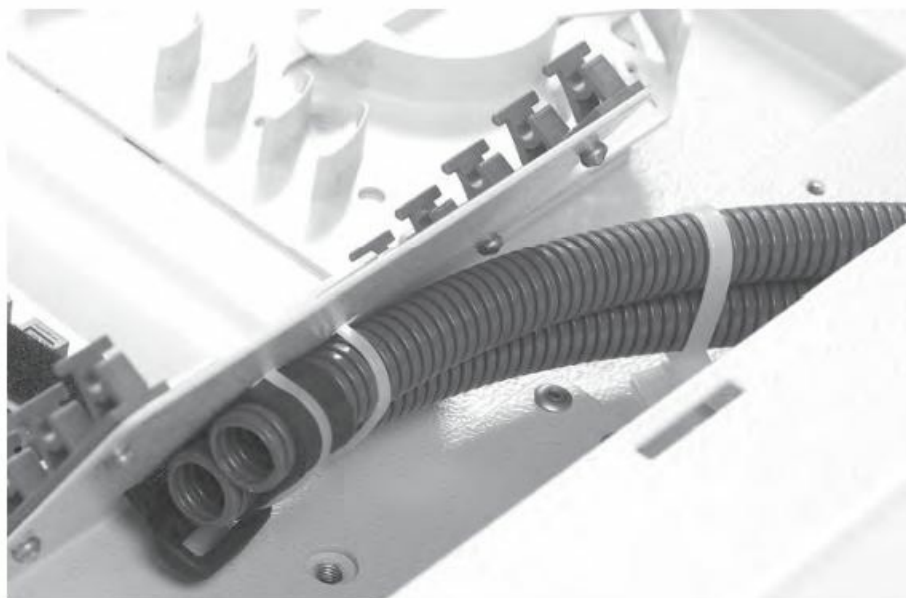
Cut a flex tube to length according to the cable position in the rack and remove the cable jacket according this length. Make sure you have 2 m of loose tube inside the shelf.



Make sure the flex tube is long enough so that the drawer slides easily in and out. Apply 1 layer of foam tape around the flex tube at 10 mm from the end. Secure the flex with two small tie-wraps at the hinge plate and a third tie-wrap at the platform.

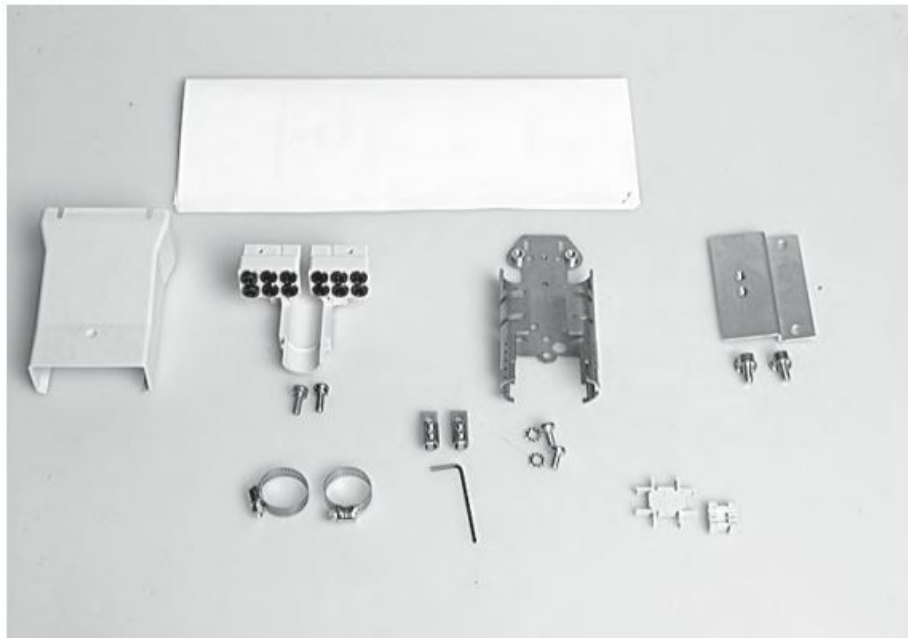


If necessary 2 flex tubes with a smaller diameter can be used. Apply 1 layer of foam tape around the flex tubes at 10 mm from the end. Use FIST-GS-FLEX-12-50



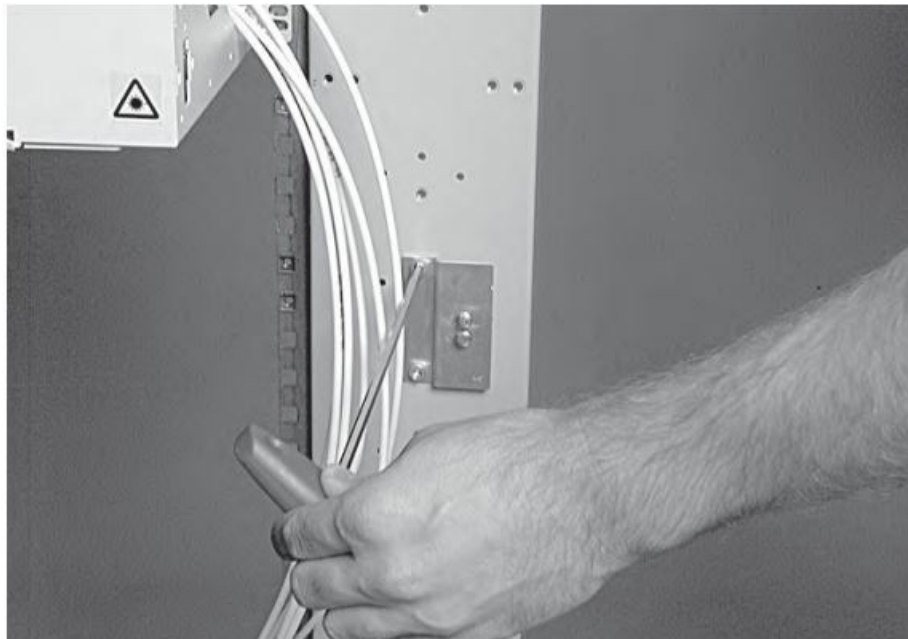
Bundle the 2 tubes with the adhesive foam and mount them both at the initial installation. Secure the flex with two small tie-wraps at the hinge plate and with a third tie-wrap at the platform (1).

B Loose tube ribbon cable

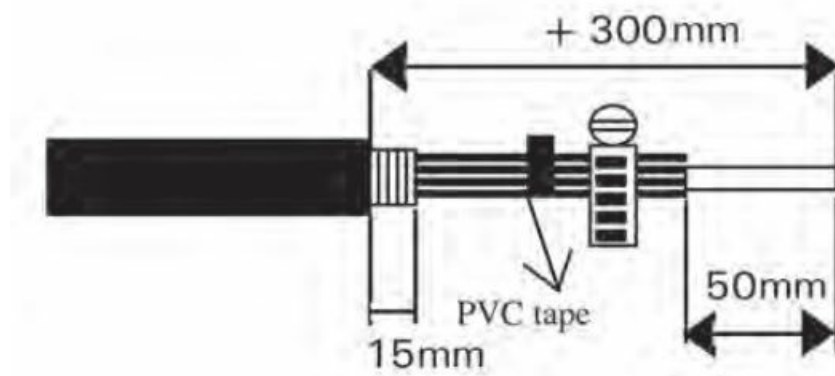


Kit content FIST-GR-CTB100 (loose tube ribbon)

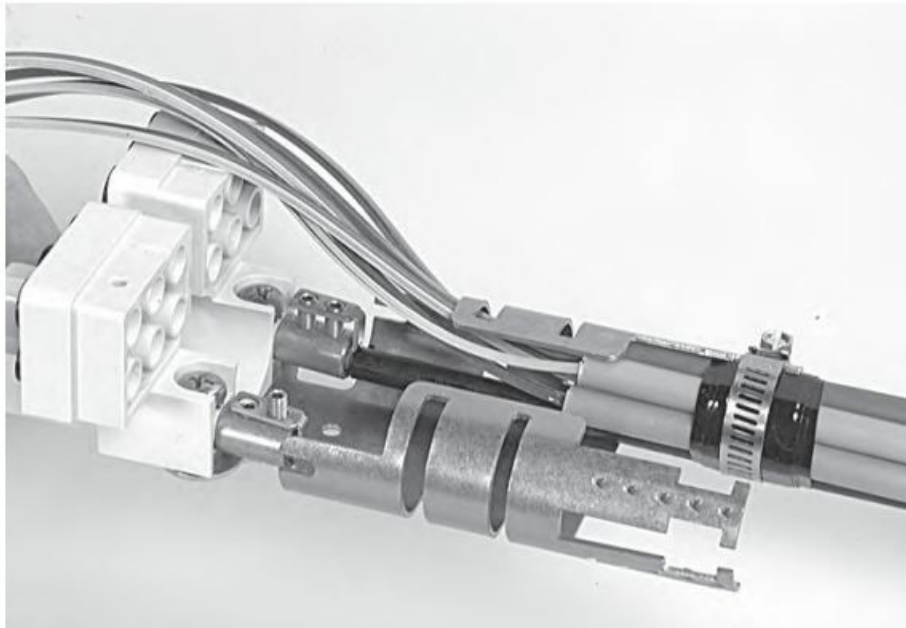
- Breakout device + screws
- Breakout device cover + screws
- Cable bracket + screws
- Mounting bracket + washers + screws
- 2 cable clamps
- Unravelling tool
- 2 strength member terminations + screws



Choose a position in the side duct or on the cable termination plate, close to the shelf. Mount the mounting bracket on that position with the 2 screws.

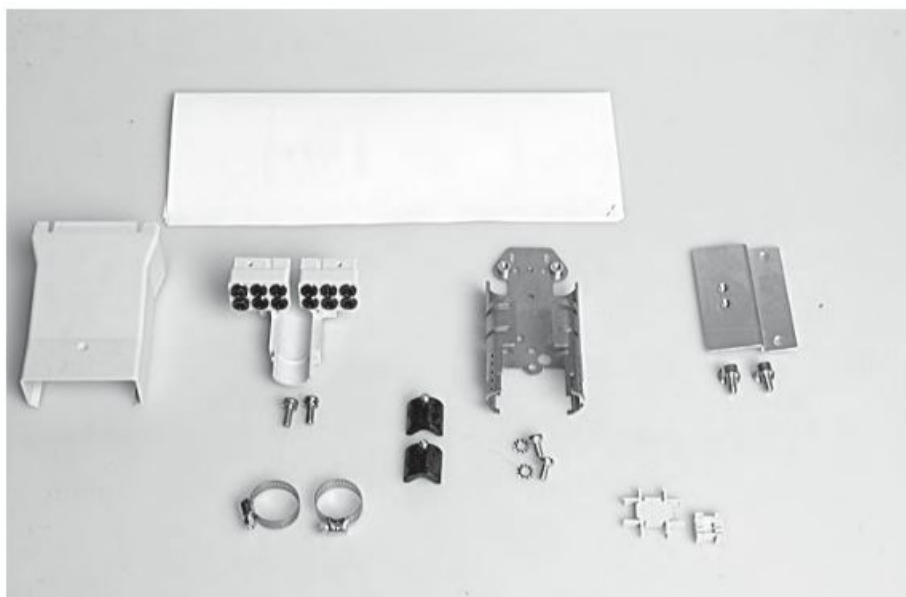


Loose tube ribbon cable



In case of loose tube cable: position the strength member at the bottom. Bundle the loose tubes with tape. Secure the strength member with the screws. Continue with installation from paragraph 4.1.15

C Central core cable

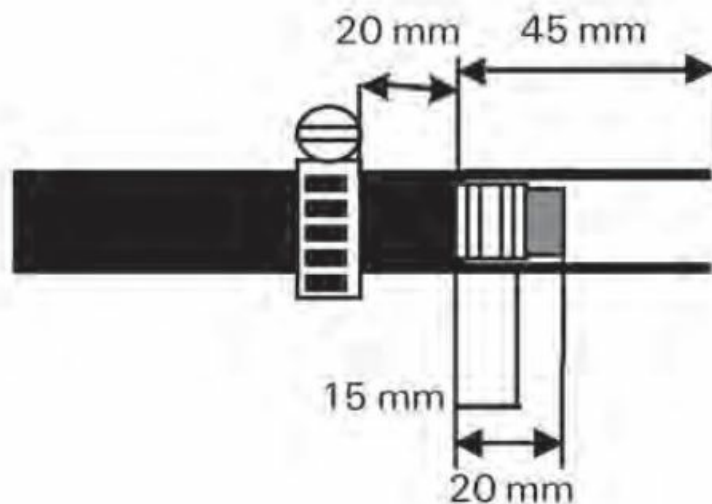


Kit content FIST-GR-CTB100CC (central core ribbon)

- Breakout device + screws
- Breakout cover device + screws
- Cable bracket + screws
- Mounting bracket + screws
- 2 cable clamps
- Unravelling tool
- 2 strength member stops + screws

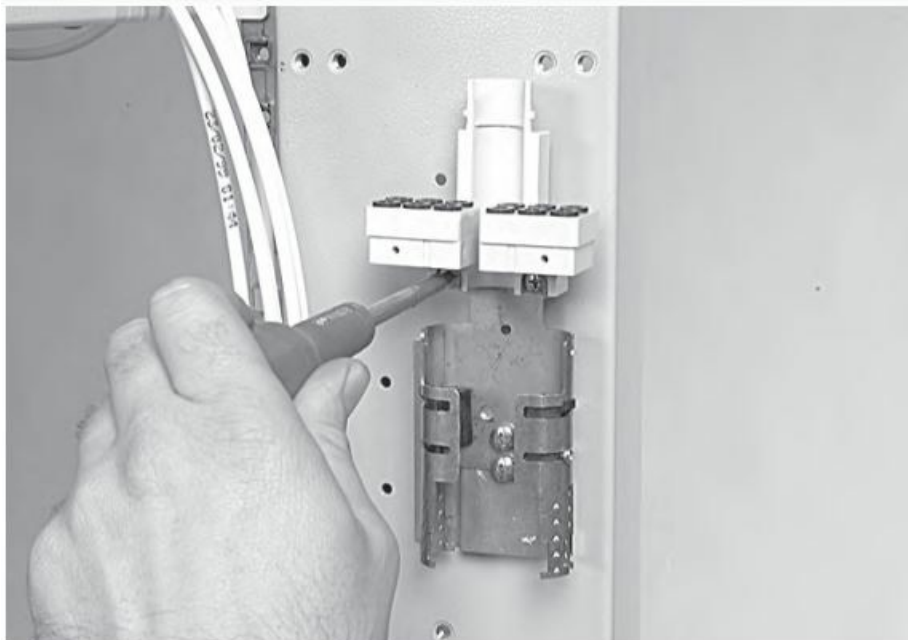


Choose a position in the side duct or on the cable termination plate, close to the shelf. Mount the mounting bracket on that position with the 2 screws

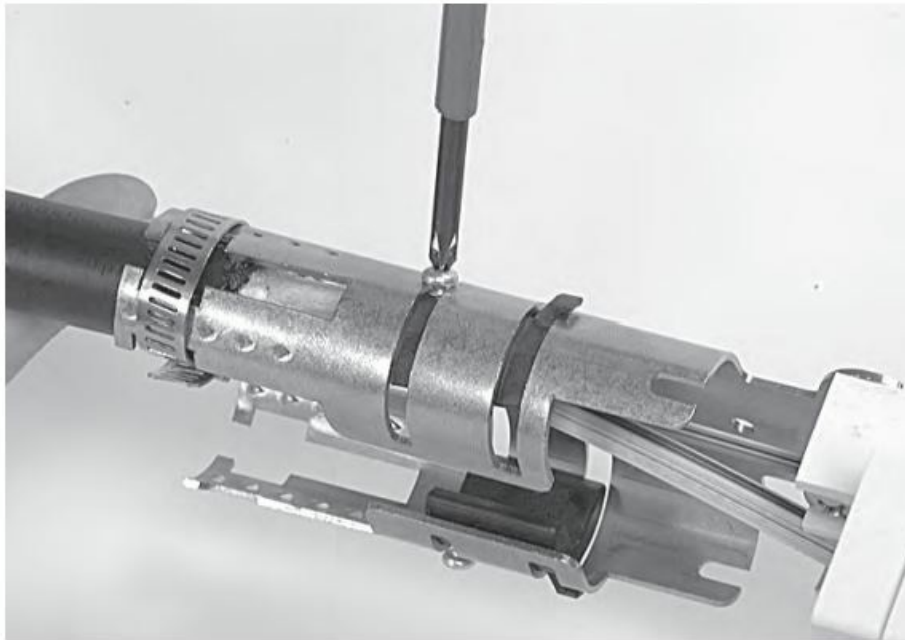


Central core ribbon cable.

Prepare the cable. Make sure you have 1,5 m of ribbon fiber on the tray. Respect the dimensions shown on the drawings. Clean the fibres very well to make easy feeding possible.



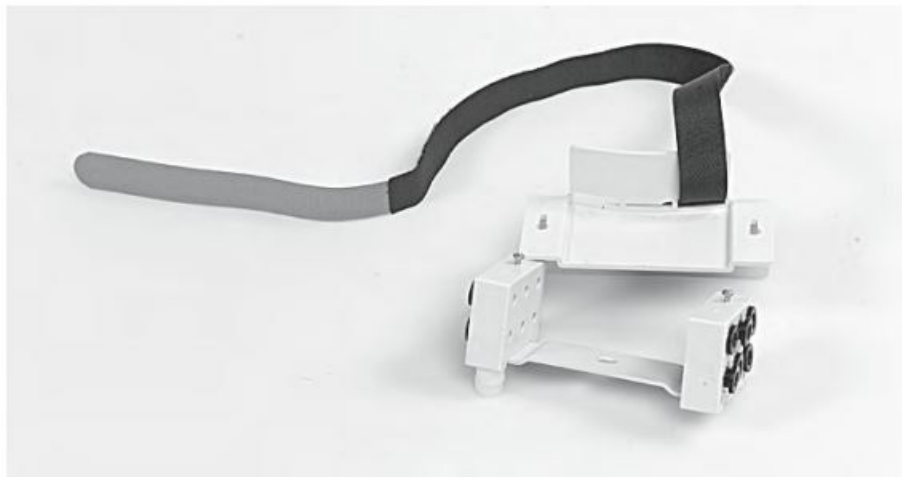
Mount the cable bracket with 2 screws on the mounting bracket and place the breakout device on the cable bracket



Loosen the screw of the strength member stop. Rotate the stop and position the strength members inside.



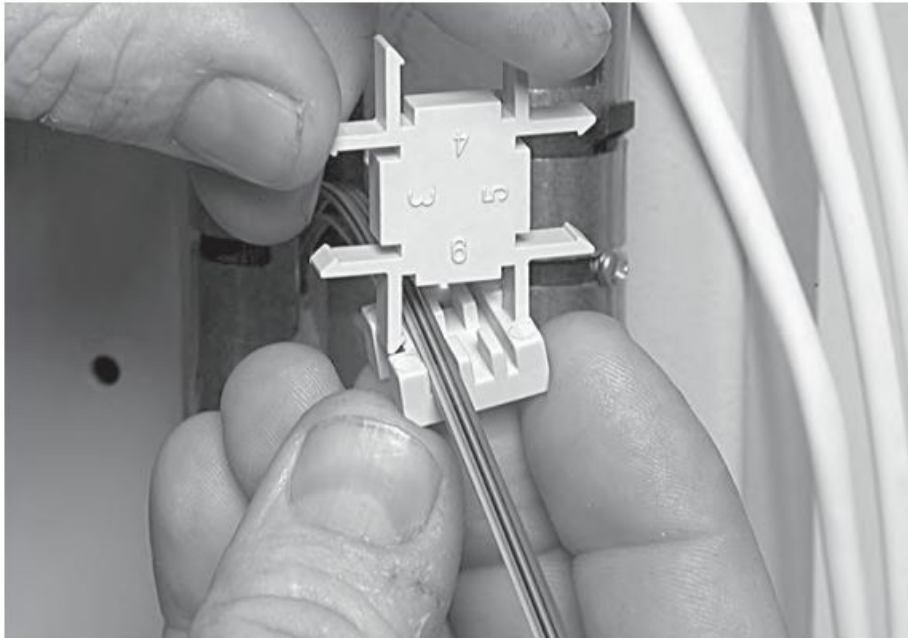
Secure with the cable clamp. Don't squeeze the cable.



If extra split-out is needed the tube divider FIST-GPS2-TD-5MM can be mounted in the shelf. Assemble the tube divider as shown. Remove the hook and loop fastener strip from the shelf and mount it on the cover.

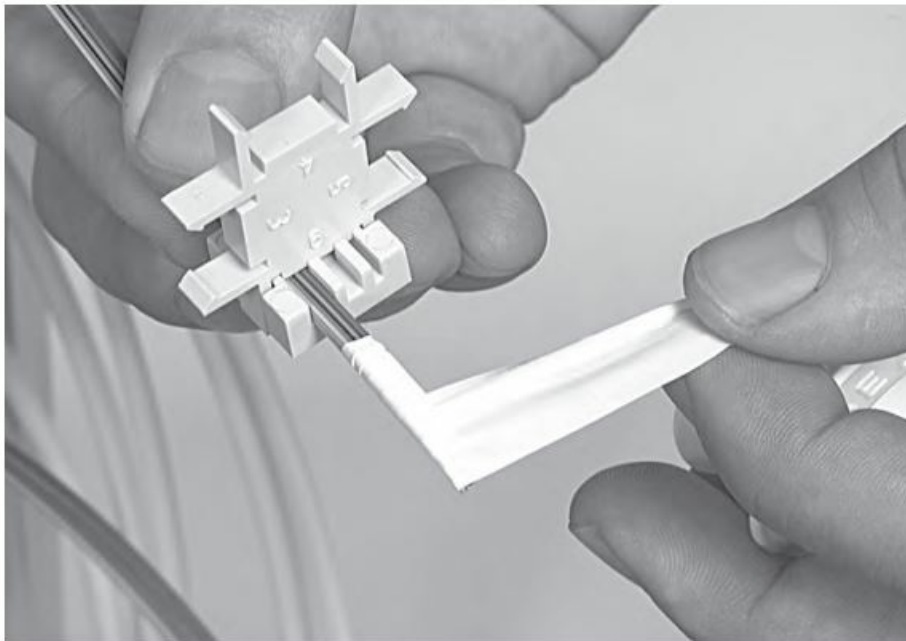


The tube divider FIST-GR-TD-5mm can be mounted in the rack. Install as shown. IN: maximum 6 tubes. OUT: maximum 6 tubes

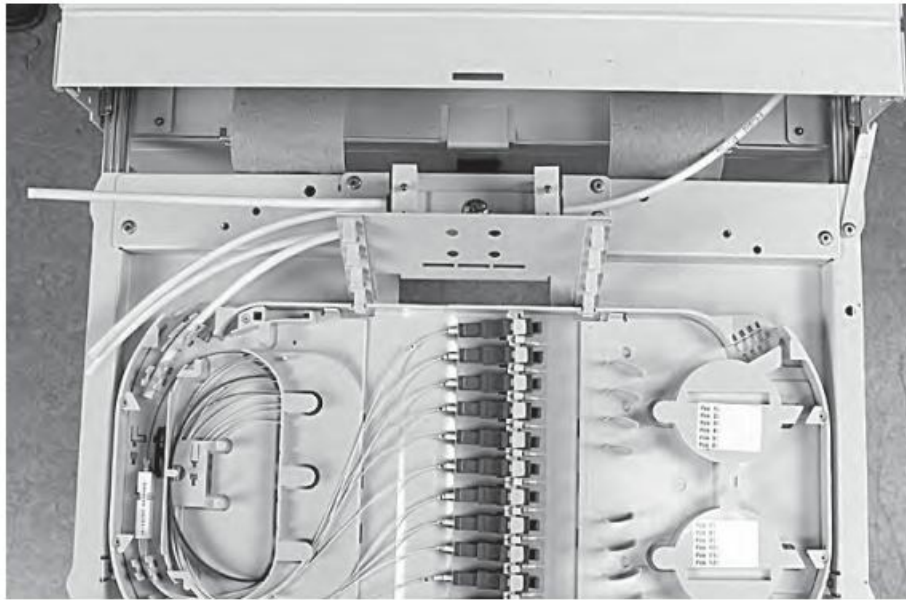


Remove twists in the ribbons.

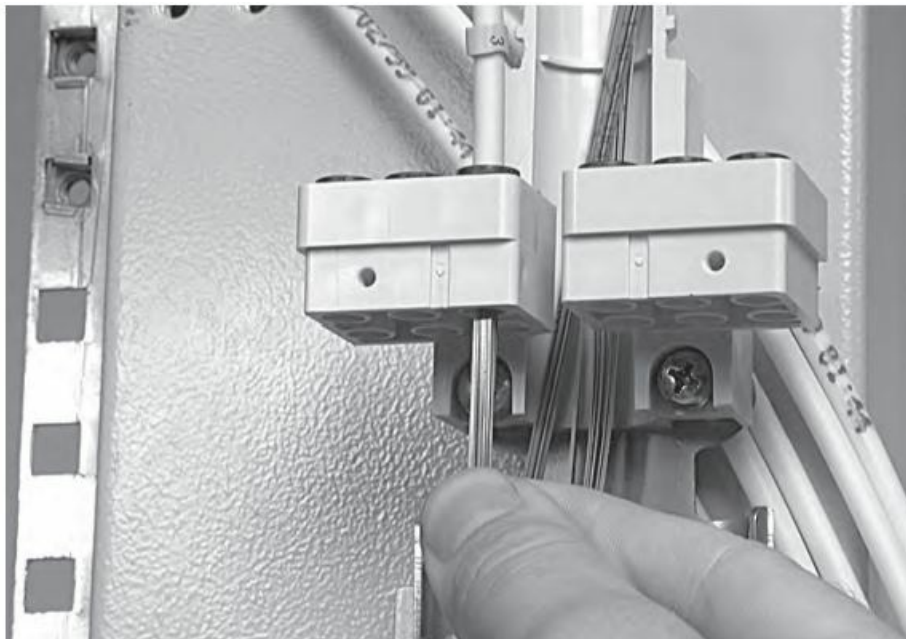
- a) If ribbons are according ITU norms: use the unraveling device. The numbers indicate the number of ribbons you want to bundle (3-4-5 or 6). 3 sizes of ribbon can be handled: ribbon 12, 8 and 4 (3 groove sizes).
- b) In other cases use local practice



Slide the tool over the ribbons. Bundle at the end using PTFE tape (bundle in groups as you want to feed them through the tubes). Remove the unraveling device.



Mount the tube divider (if needed) on the metal tray. Cut the tubes coming from the break-out device to length. Remove the tube divider to have better access to split out the ribbons.



Insert the tubes in the connectors. Use 6 positions at the left when cable is mounted at the left side of the bracket. Feed the fiber groups in the tubes. Start at the back to have easy access. Avoid crossings of the fibers.



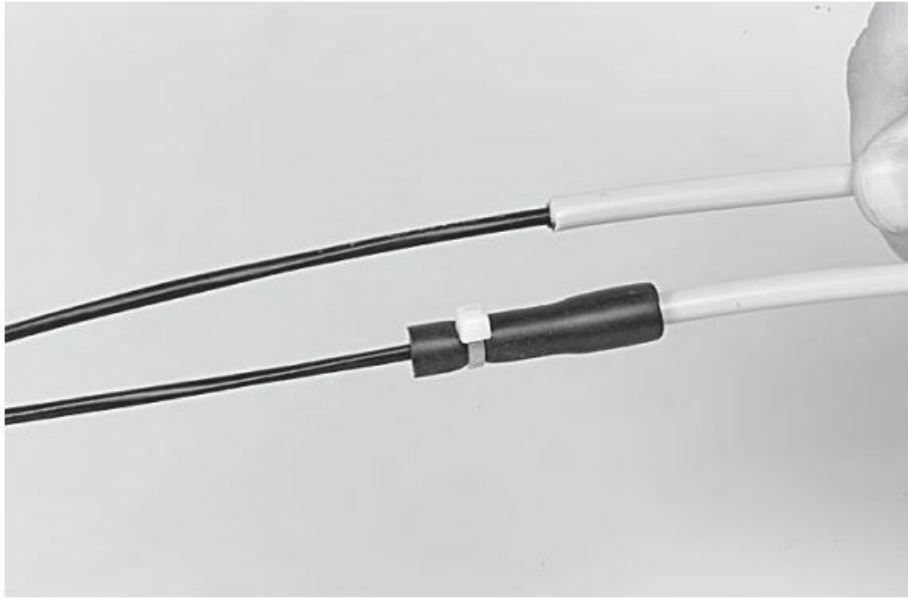
Slide the cover over the break-out and secure with the screws.

D IFC cable



Feed the IFC sub-units through the horn and guide each IFC sub-unit to the rear entrance of the tray.

E Modular cable



Slide a 30 mm long rubber tube over the transition and secure it with a tie-wrap on the inner tube as shown in the picture. The black tube goes directly through the trumpet onto the tray. Secure on the trays as described in 5.1.

Side cable termination directly on the shelf

A Loose tube cable

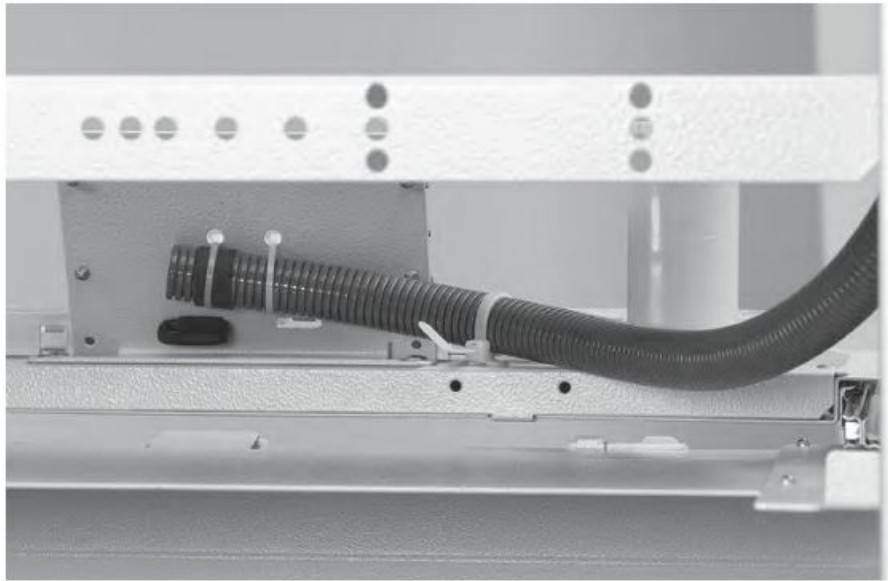
The cable can be terminated on the shelf: cable terminations are suited for max. 2 cables, cable retention with tie-wraps, the loose tubes are fed through a flexible tube to the shelf, the strength member is attached to the plate.



Kit content

- Metal plates
- Strength member connectors + screws
- Flexible tube (predefined length)
- Bolts and nuts
- Releasable tie-wraps
- Tube clips + lid
- Edge protection

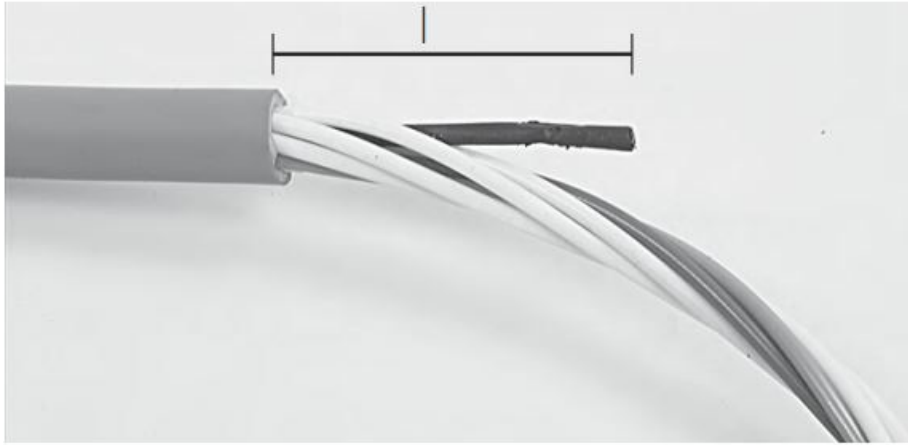
- Foam strip
- Tie-wraps



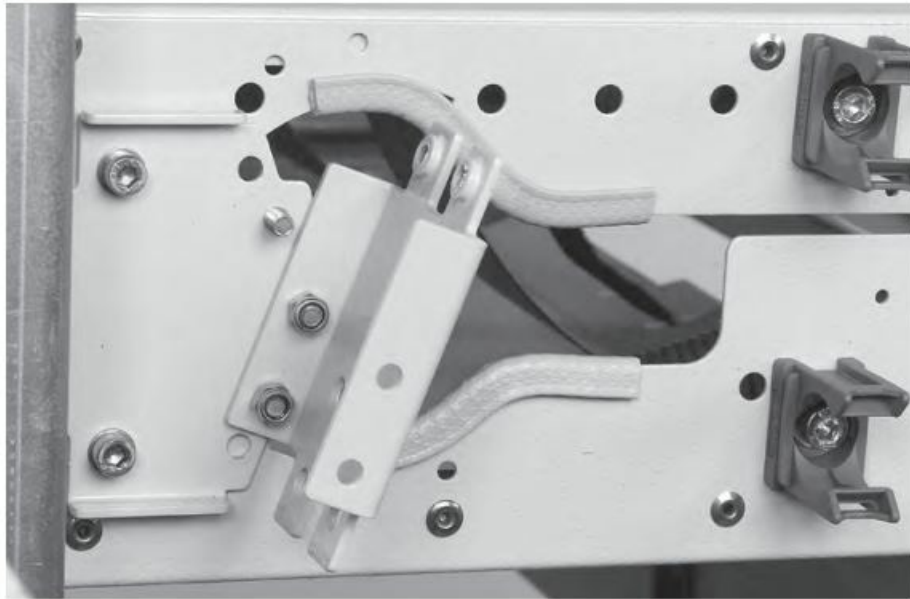
Fasten the flex tube (before trays are inserted) at the back of the metal hinge plate using 2 small tie-wraps and fix the flex tube with a third tie-wrap to the platform. Assure that tie-wraps are well tensioned to avoid slippage of the tube and cut the excess length of the tie-wraps. Knobs of the tie-wraps must be positioned at the FRONT of the metal hinge plate.



Remove the bend control at the side of the flex tube (only in ETSI shelf).



Remove the cable jacket over approximately 2.2 m. Wait to strip the loose tube to avoid fiber breakage. Cut the strength member to length ($l = 35 \text{ mm}$).



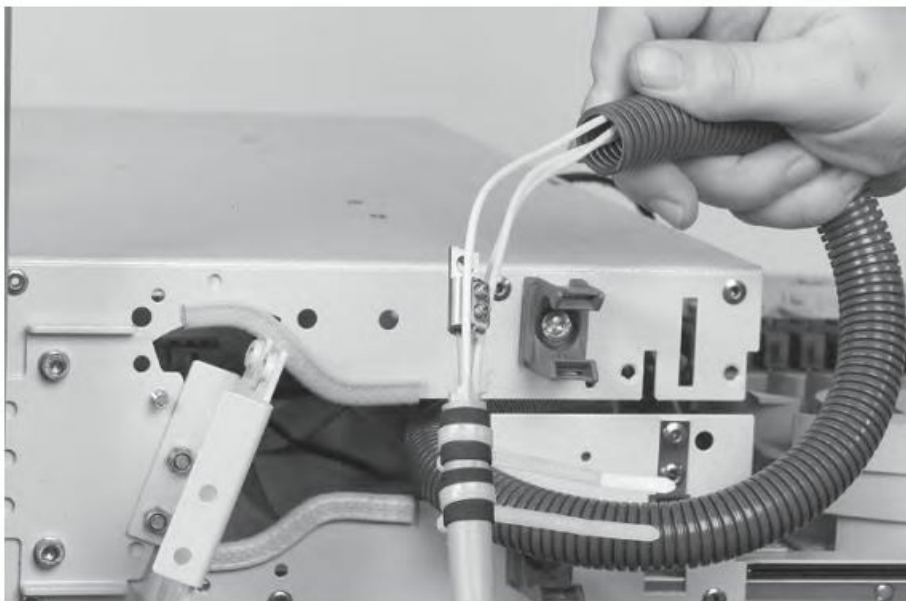
The picture shows left side mounting and cable coming from the bottom. Install both tube holders onto the shelf.



The picture shows left side mounting and cable coming from the top.



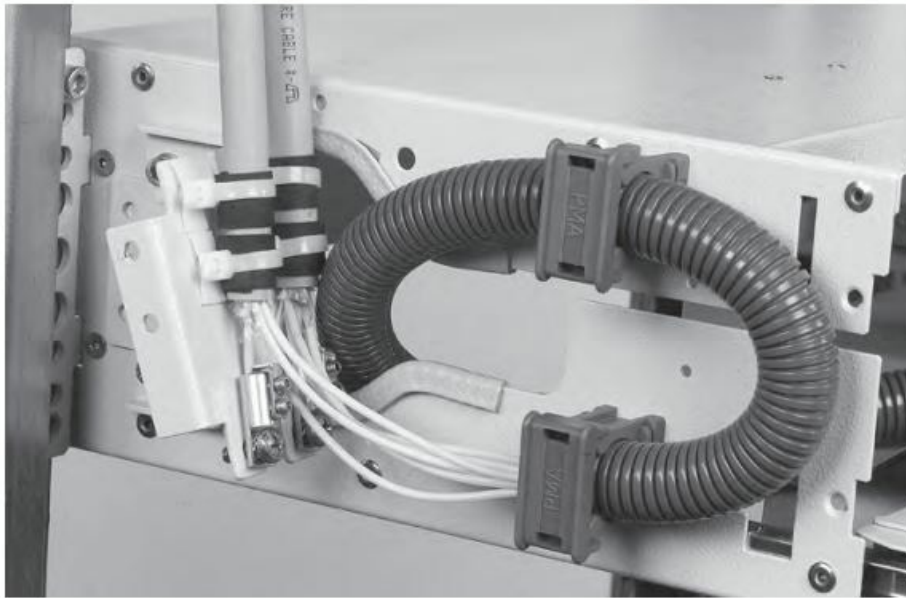
Place the foam and push the tie-wraps onto the cable as shown and install the strength member connector



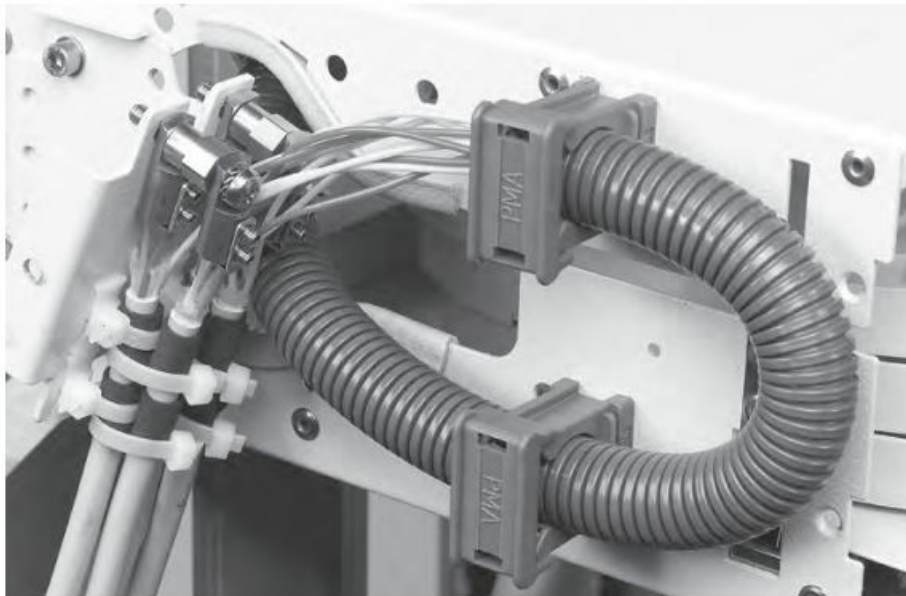
Guide the identified loose tubes into the flex tube. This can be facilitated by keeping the end of the loose tubes bundled together with a piece of tape.



Fasten the flex tube at the bottom tube holder and afterwards at the top. Attach the push tie wraps onto the plate and fasten the strength member connector. Mount the cover on the flex tube holders

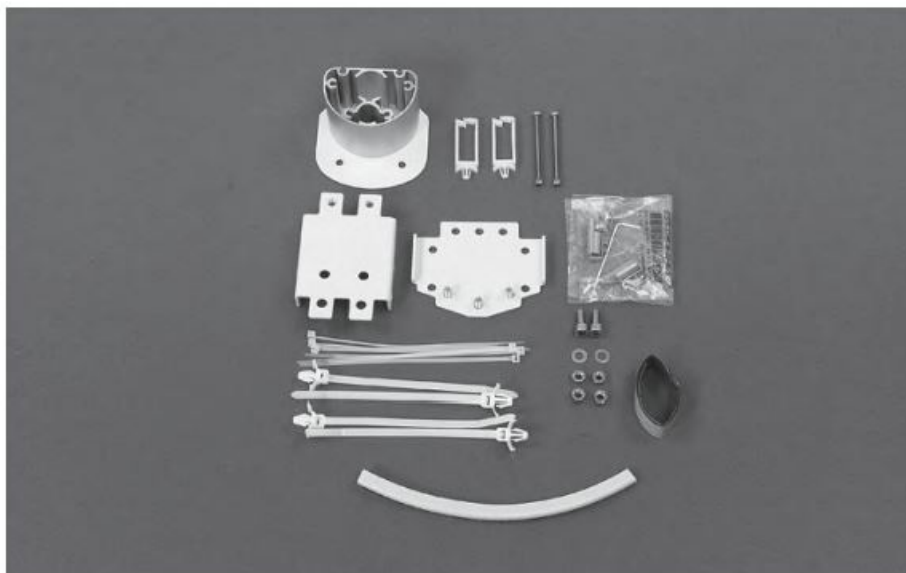


For cable coming from top use a reverse assembly.



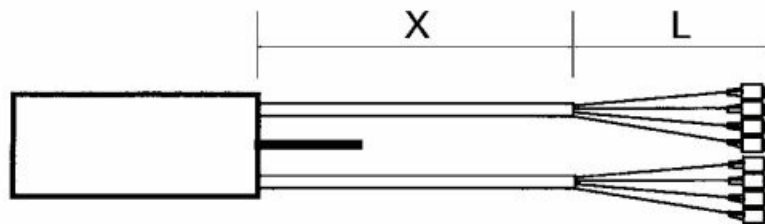
In case of max. 4 cables. Use the FIST-UST-EXKIT-2CA for the extra 2 cables

B IFC cable/break-out cable



Kit content

- Metal plates
- Strength member connectors + screws
- Drum
- Bolts and nuts
- Releasable tie-wraps
- Clips
- Edge protection
- Foam strip
- Tie-wraps



In case of IFC: remove $X = 0.8$ m of the outer jacket. The recommended length of secondary fibre $L = 1.25$ - 1.50 m.
In case of break out cable (not connectorized): remove $X + L = \text{max. } 2.3$ m of the outer jacket.



Cut the strength member to 35 mm maximum. Attach the strength member fixation and install as shown. Edge protection can be installed. Same routing and installation for break-out cable. Recommended to use GTU (see section 5.3).

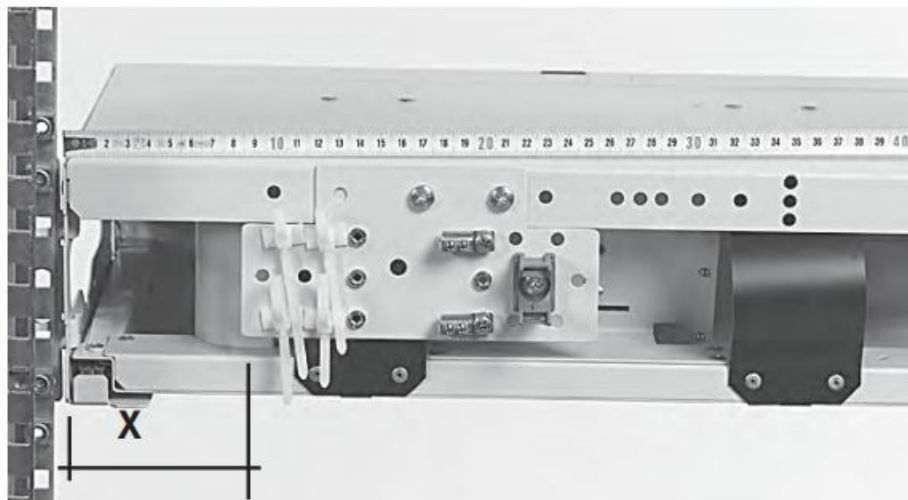
Back cable termination directly on the shelf

Cable terminations are suited for 2 cables, max. 3, cable retention with tie-wraps. Loose tubes are fed through a flexible tube to the shelf, the strength member is attached to the plate. In case of IFC no flex tube is used.

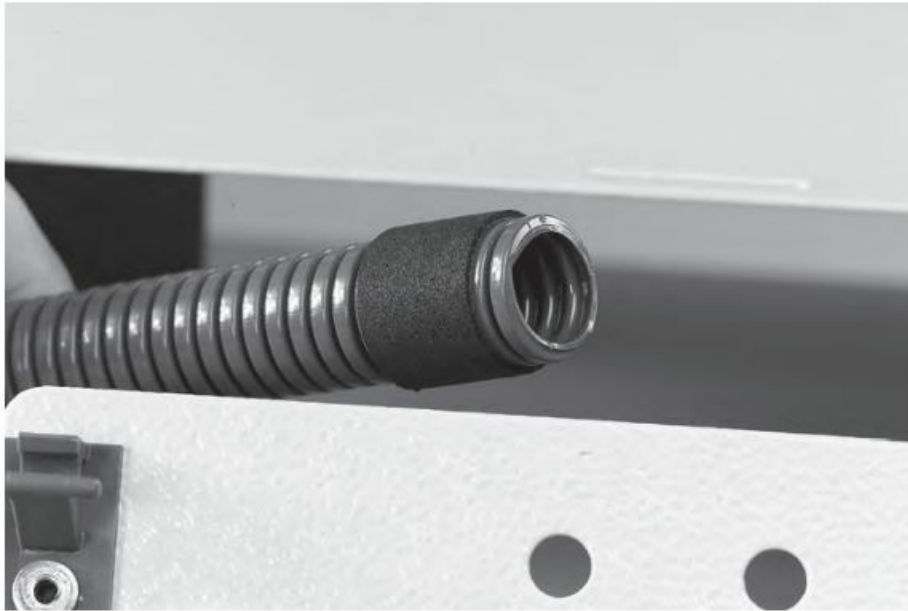


Kit content

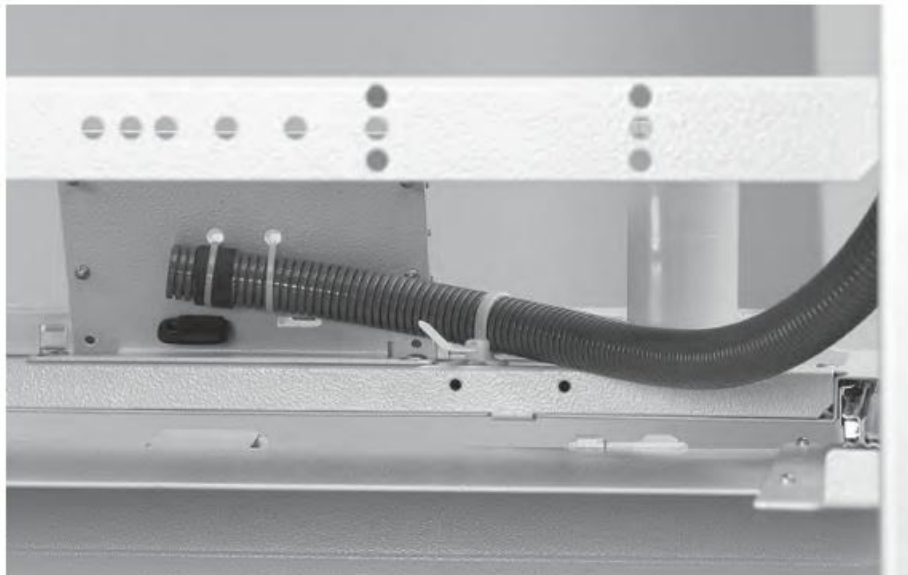
- Releasable tie-wraps
- Strength member connectors + screws
- Flexible tube (predefined length)
- Tube clip + lid
- Bolts and nuts
- Foam strip
- Metal plate
- Tie-wraps



Assemble the components onto the termination plate. The picture shows cable coming from the left (seen from the back), for cable coming from the right the reverse assembly is required. X = 80 mm (19" shelf) or 105 mm (ETSI shelf)



Apply one layer of foam tape around the flex tube at approximately 10 mm from the end. This foam tape must be positioned underneath one of the tie-wraps (this tape prevents easy pull out of the flex tube).

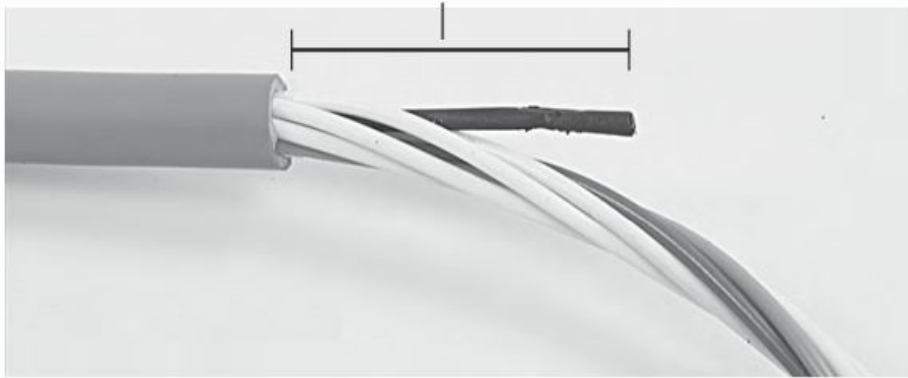


Fasten the flex tube (before trays are inserted) at the back of the metal hinge plate using 2 small tie-wraps and fix the flex tube with a third tie-wrap to the platform. Assure that tie-wraps are well tensioned to avoid slippage of the tube and cut the excess length of the tie-wraps. Knobs of the tie-wraps must be positioned at the FRONT of the metal hinge plate

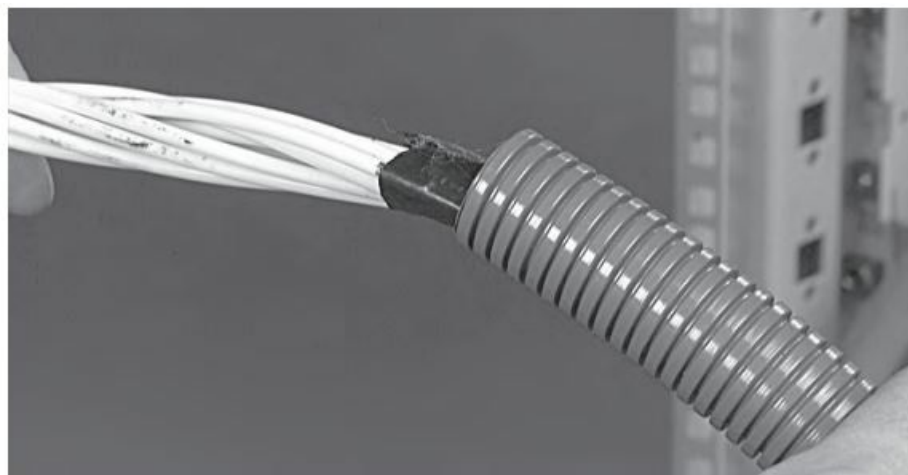


Remove the bend control at the side of the flex tube (only in ETSI shelf).

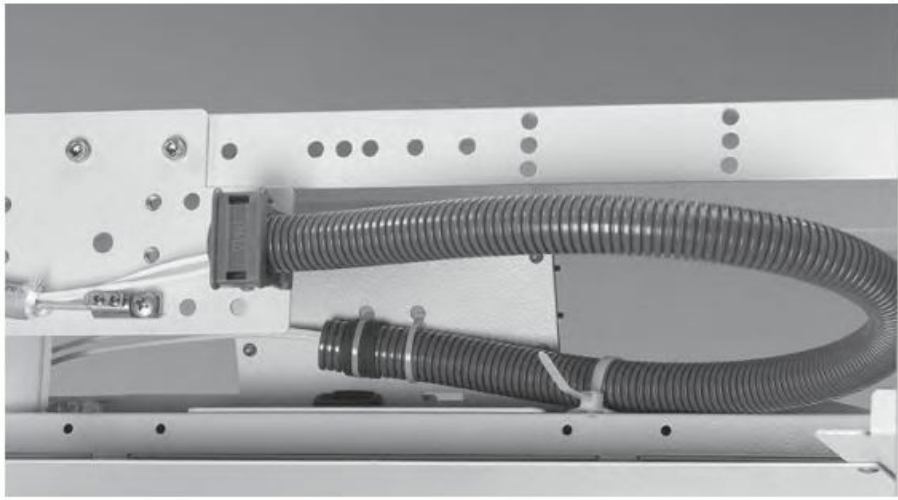
A Loose tube cable



Remove the cable jacket over approximately 2 m. Wait to strip the loose tube to avoid fiber breakage. Cut the strength member to length ($L = \text{max. } 60 \text{ mm}$) and fasten the strength member connector with the Allen key.



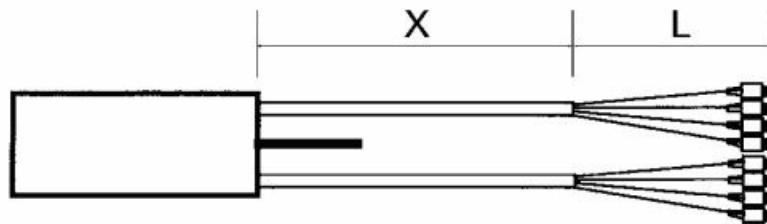
Guide the identified loose tubes into the flex tube. This can be facilitated by keeping the end of the loose tube bundled together with a piece of tape. Make a loop with the flexible tube behind the shelf and fix the flex tube into the clip of the termination plate.



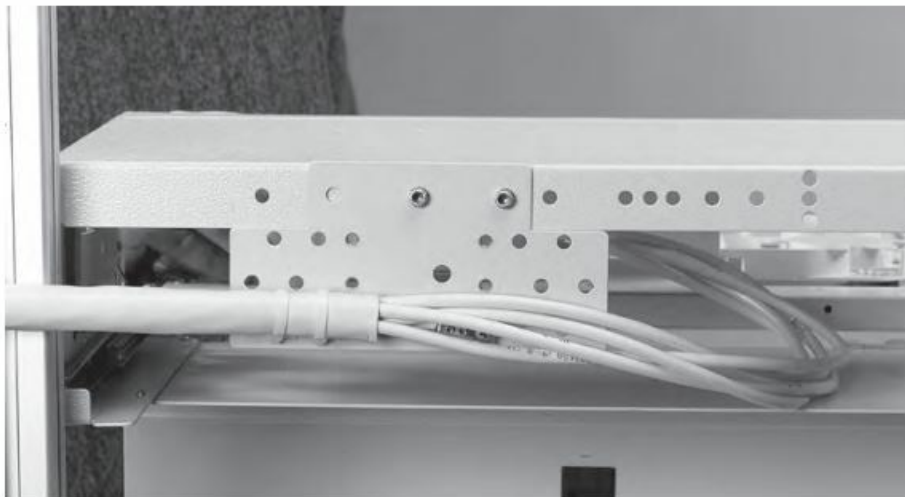
Attach the strength member connector to the back termination plate using a Philips screwdriver. Avoid unnecessary crossing of strength member and loose buffer tubes. Attach the cable with the releasable tie wraps on the outer jacket. Mount the cover on the flex tube holder.

B IFC

B IFC



In case of IFC: remove $X = 0.7$ m of outer jacket. The recommended length of secondary fiber $L = 1,25-1,50$ m.

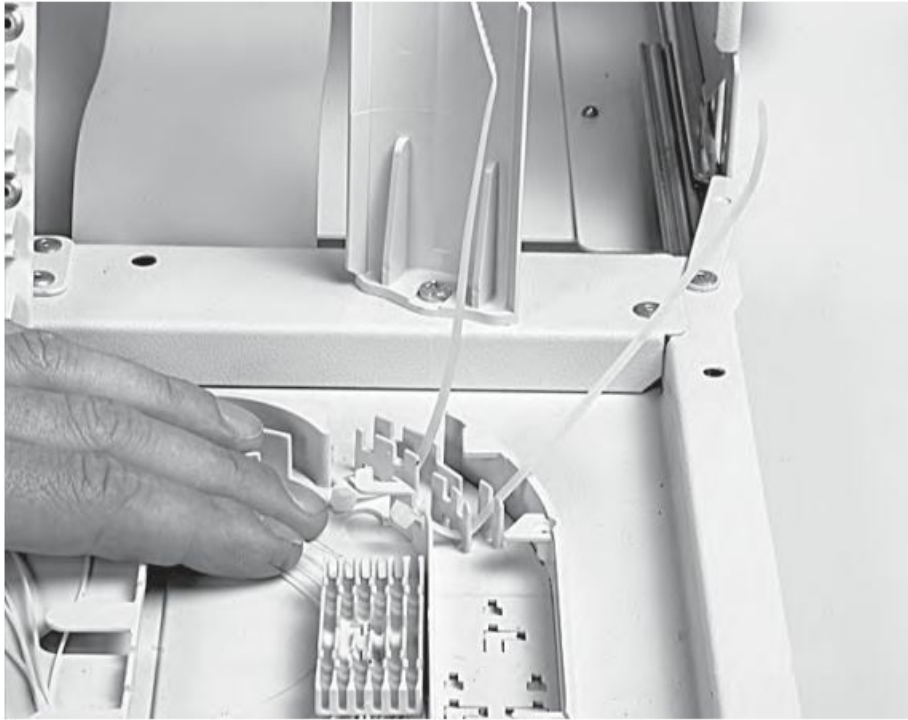


Cut the strength member at 60 mm maximum. Attach the strength member fixation and install as shown.

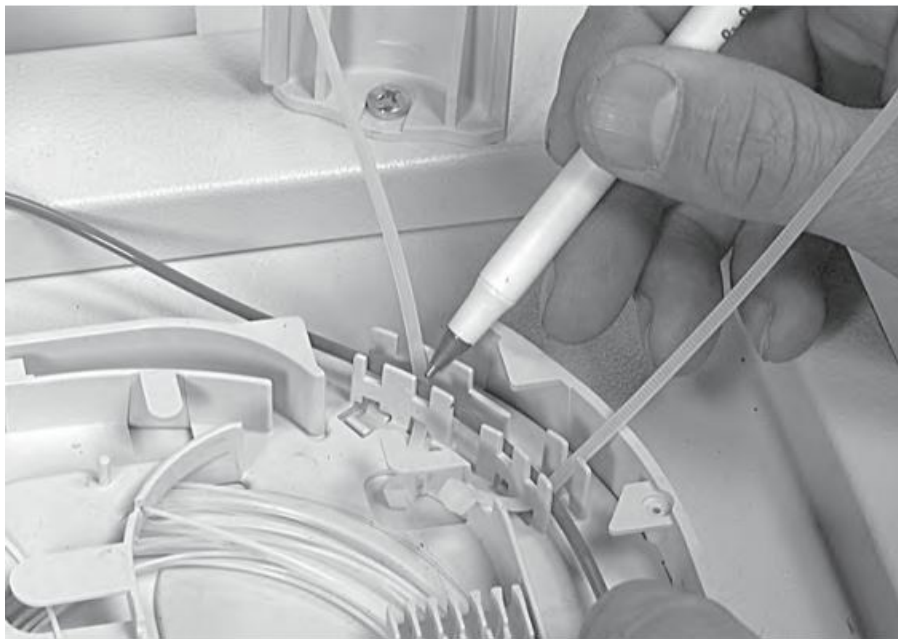
Fiber routing

Installation of loose tube on the tray (Same procedure for modular cable)

12 splice module



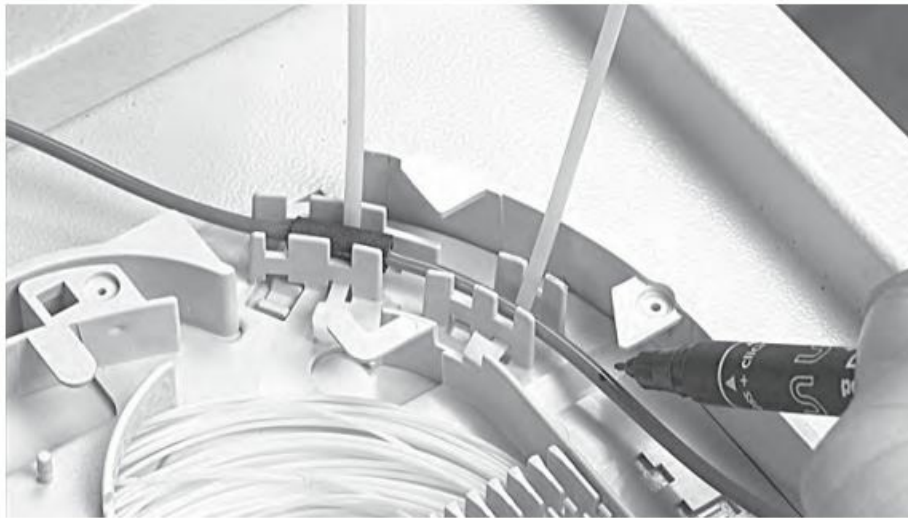
Identify the loose tubes and put the tie wraps in position on the tray as shown.



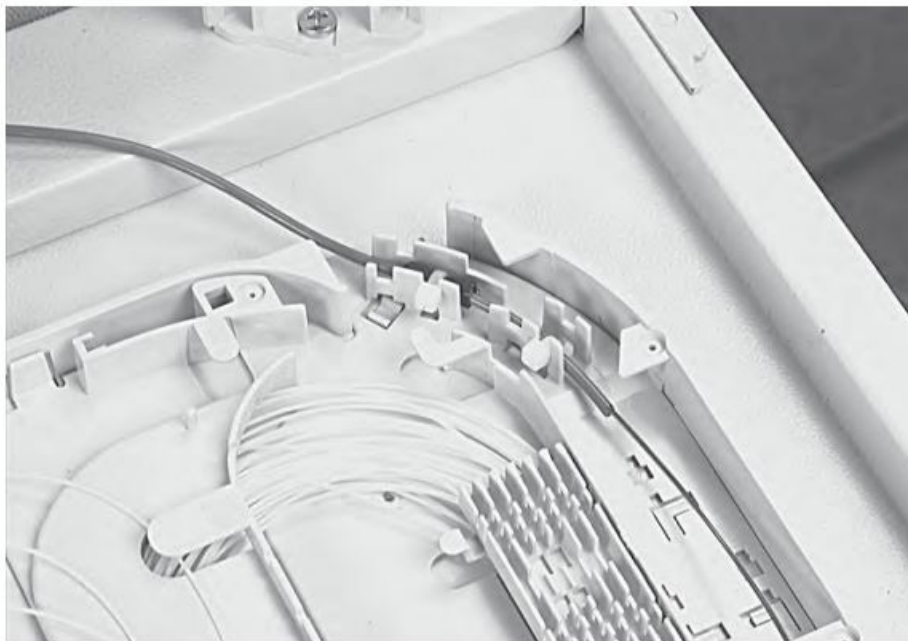
Bring the loose tubes on the tray and mark them at the first tie wrap.



Cut a rubber foam to length and tape it around the loose tube

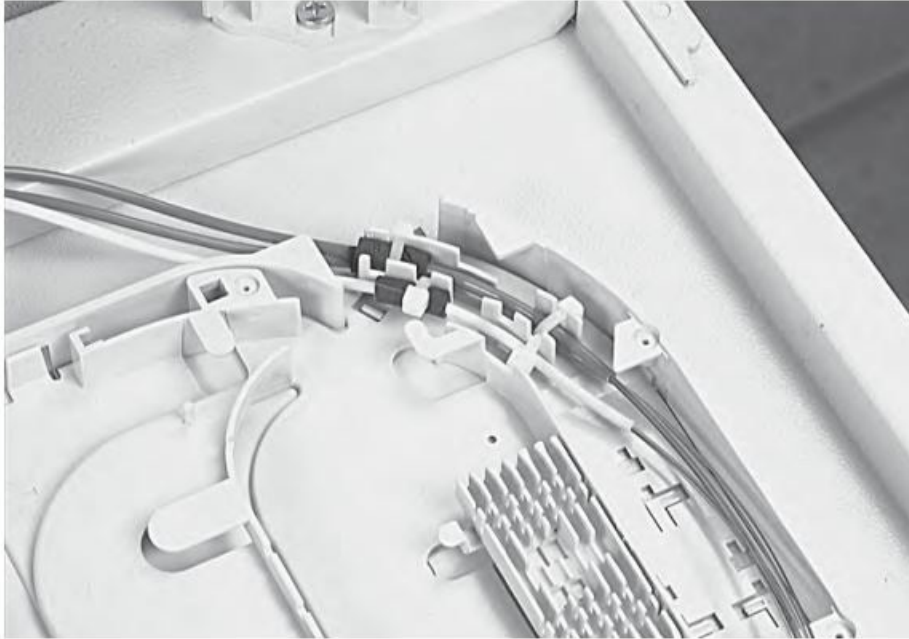


Push the loose tubes in the tray and mark them again 15 mm beyond the second tie wrap.

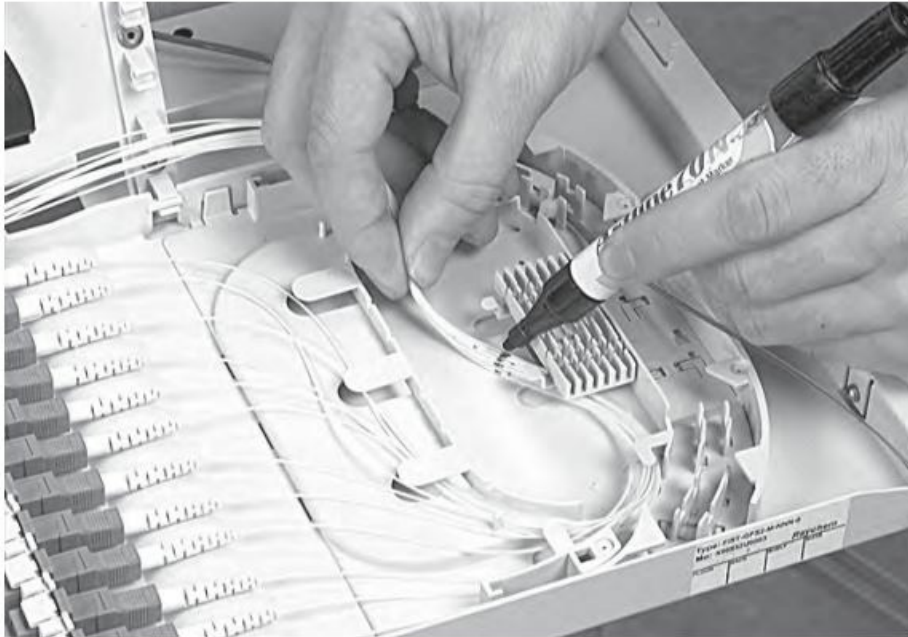


Strip the loose tubes at this second mark, clean the fibres and tighten the tie wraps. Make sure the tie wrap knob is

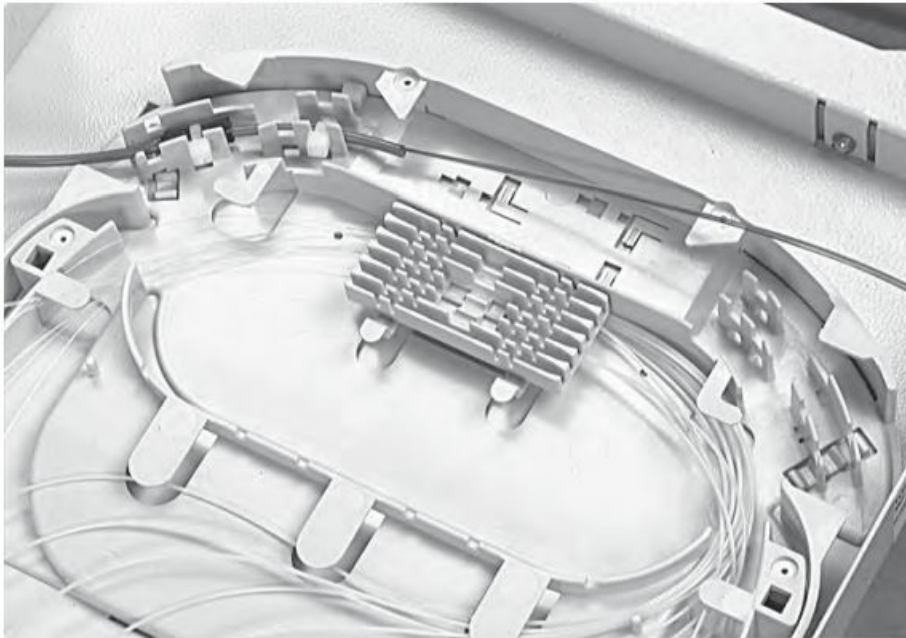
at the side of the tube.



If necessary, tubes can be bundled with 1 foam. If loose tubes are added at a later date, use other positions

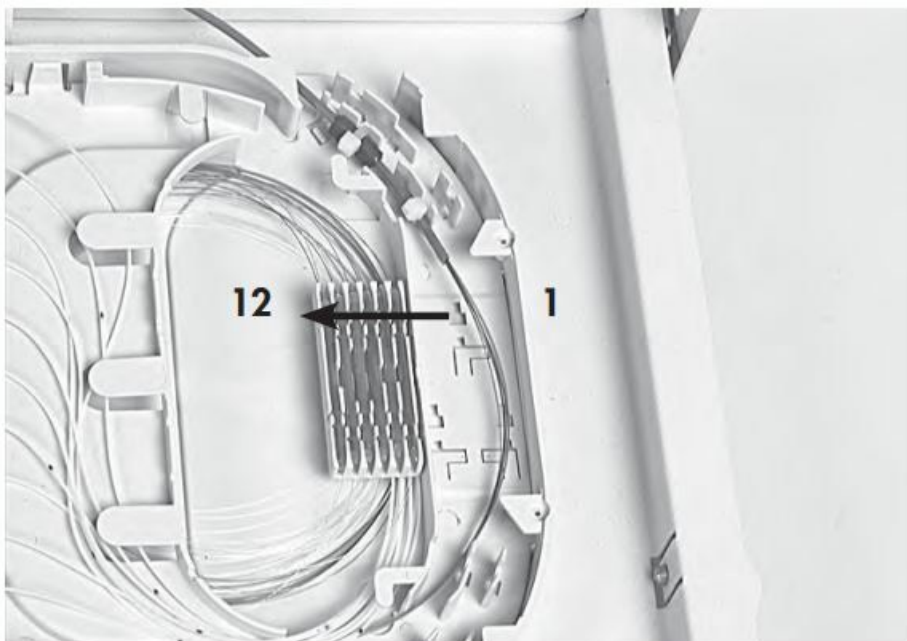


If applicable remove all the pre-mounted pigtails out of the storage area and mark the fibers at the splice holder. Remove the secondary coating from this point. This assures the transition primarysecondary is in a straight line! Not applicable with tight coated (900µm – storage max. 1.2 m), only semi-tight can be stripped

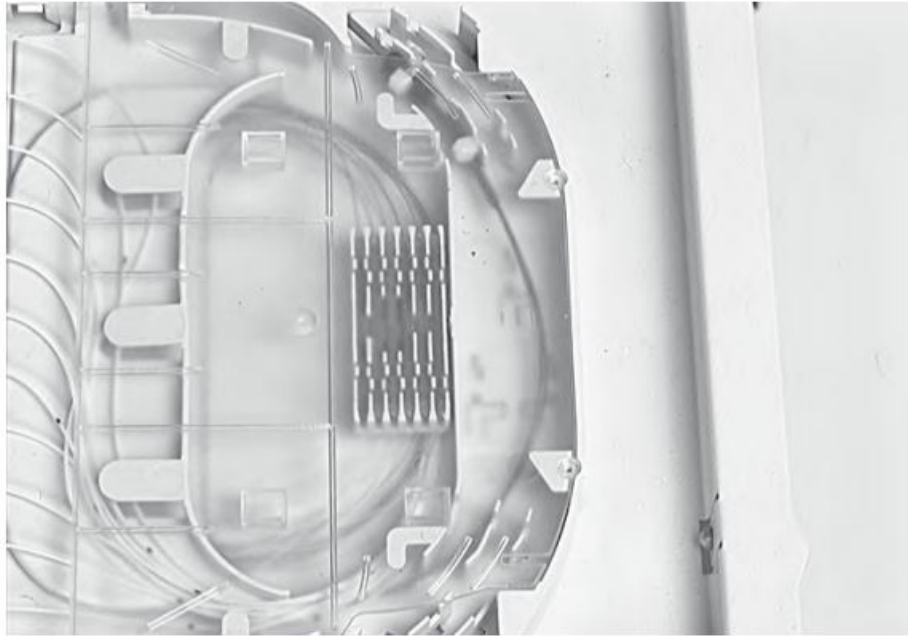


Position all the pigtails under the splice protection and leave them there. The fibres have to be kept in this position during further installation.

Splice the fibres.



Place the splice protector in the holder, start at the outside of the tray, (hold the splice holder with a finger to prevent bending) and coil the fibres in the tray.



Check whether all fibres are properly routed before placing the cover on the tray. All fibres should be under the containment lips.

24 splice module



Strip the loose tubes and place 1 layer of foam around all the tubes at 50 mm from the end of the tubes

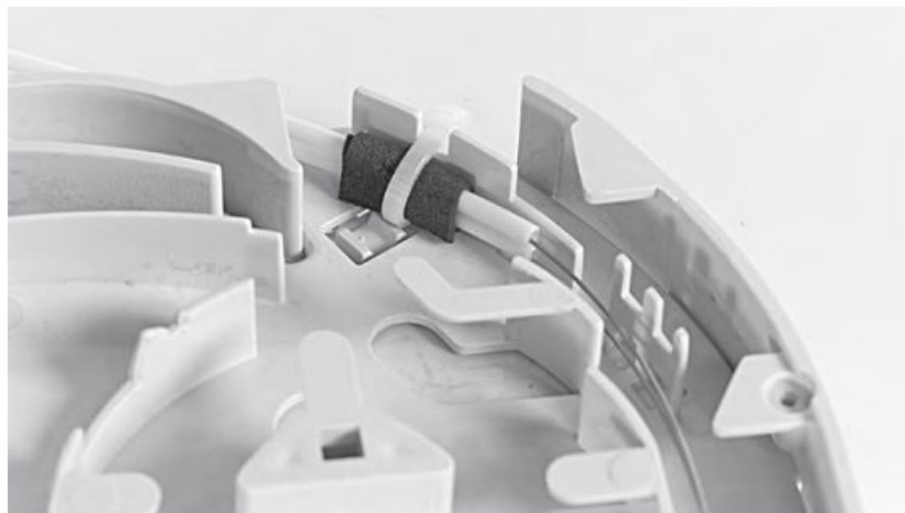


Secure all the tubes with the two tie wraps as shown

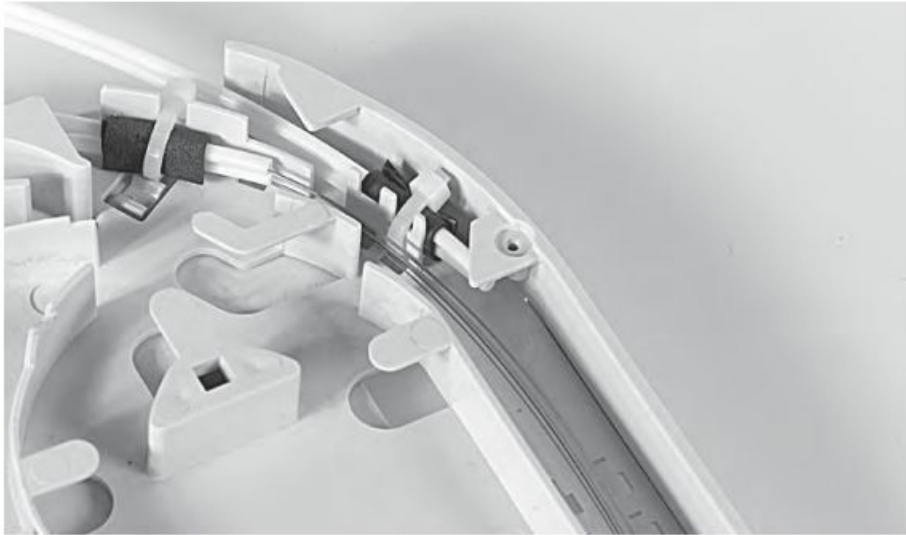
In case not all fibres will be installed at day 1



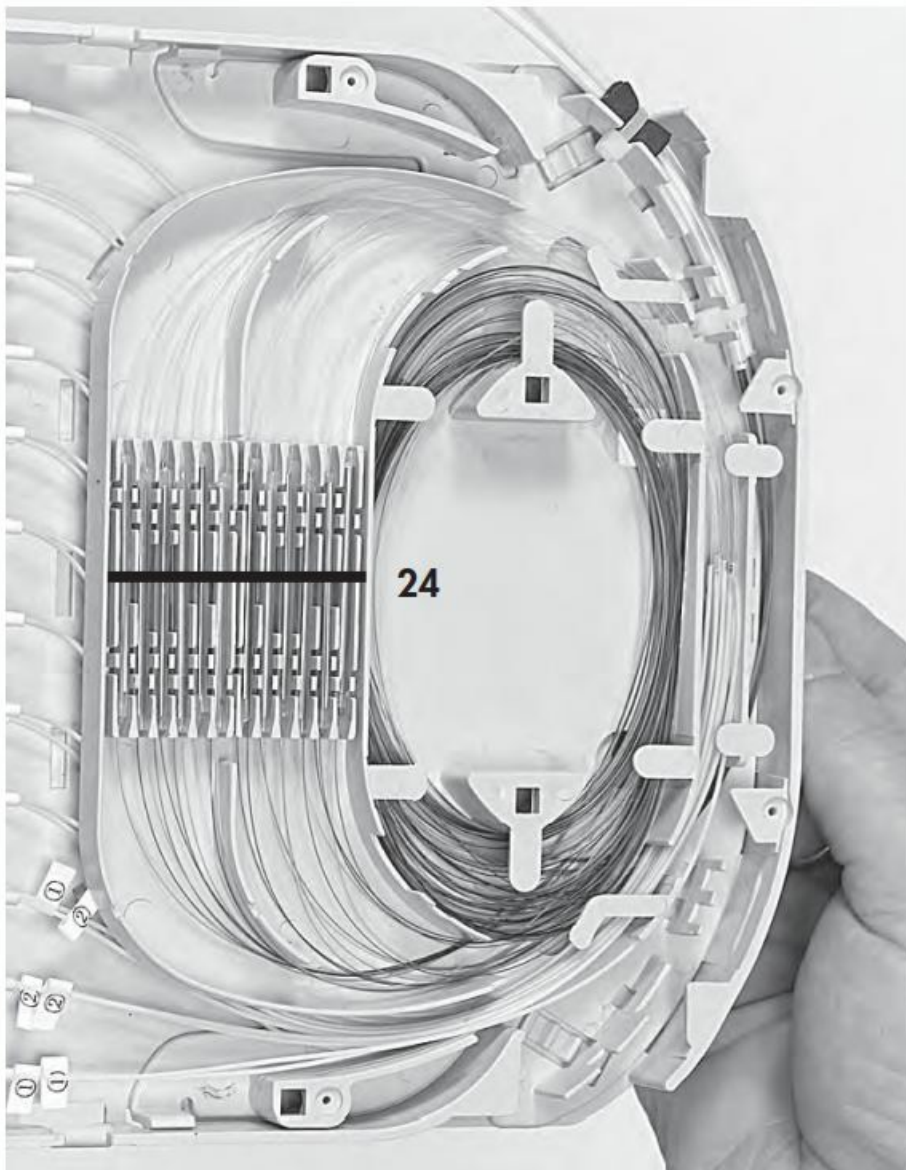
Strip the loose tubes and place 1 layer of foam around the tubes at 10 mm from the end of the tubes.

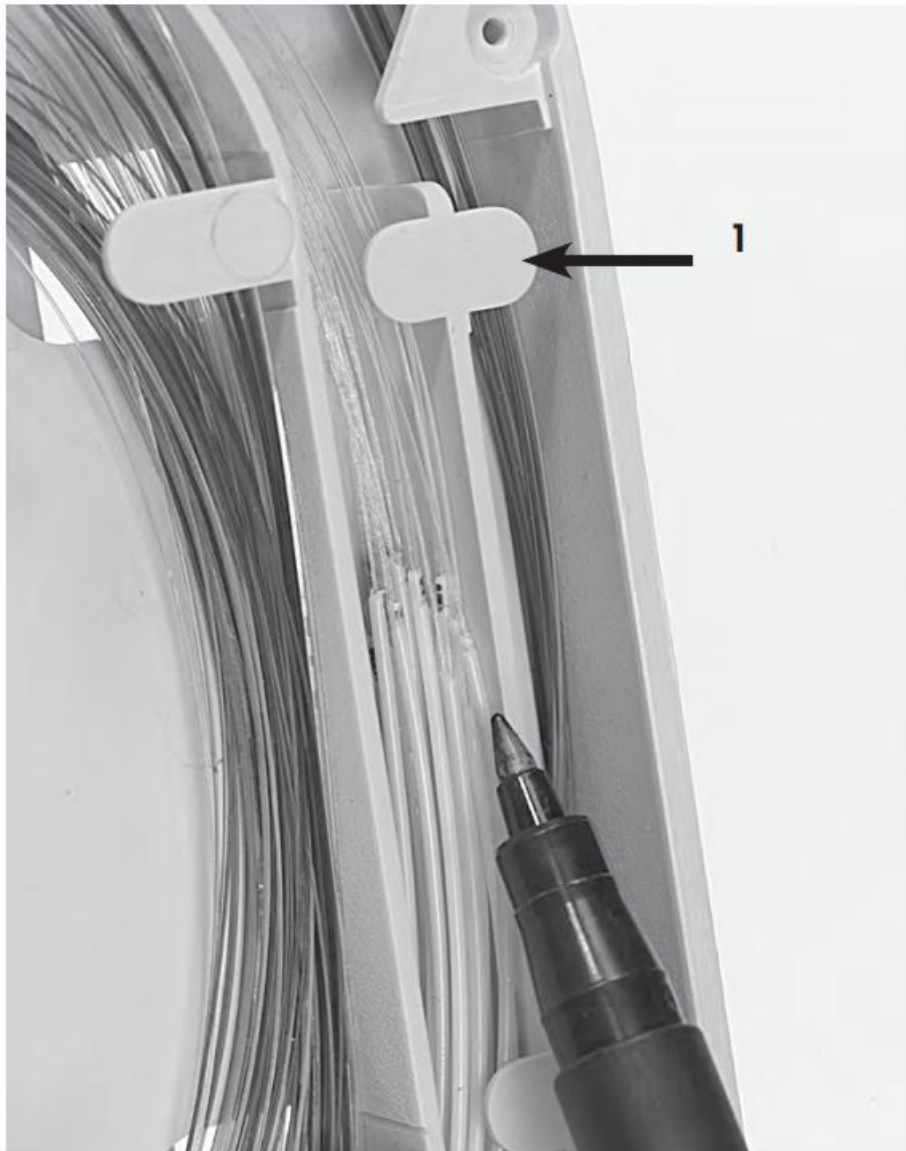


Secure all the tubes with one tie-wrap as shown

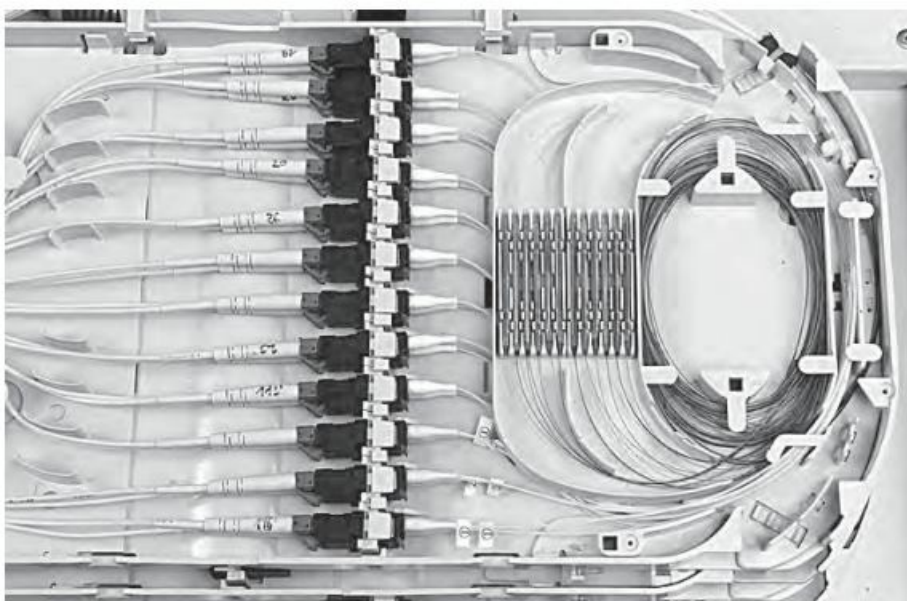


Secure the added tubes also with one tie-wrap as shown. Preparation is the same as the first installed tubes.





The split transition plate (1) separates the incoming fibre and the 900 μm coming from the patch panel. Strip the 900 μm somewhere in the middle of the groove. Stripping should always be in a straight line. Not applicable with tight coated (900 μm – storage max. 1.2 m), only semi-tight can be stripped.



Splicing and storage

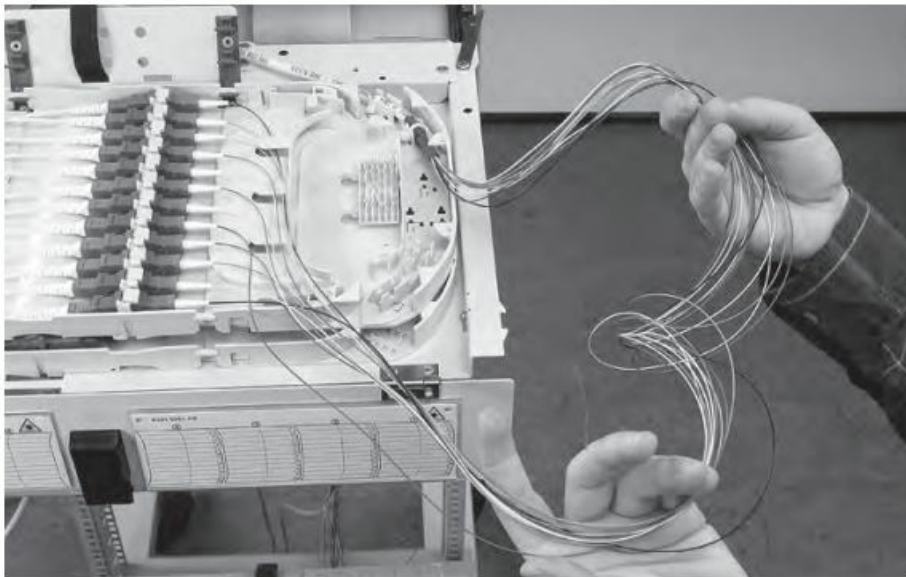
Installation of IFC on the tray

12 splice module

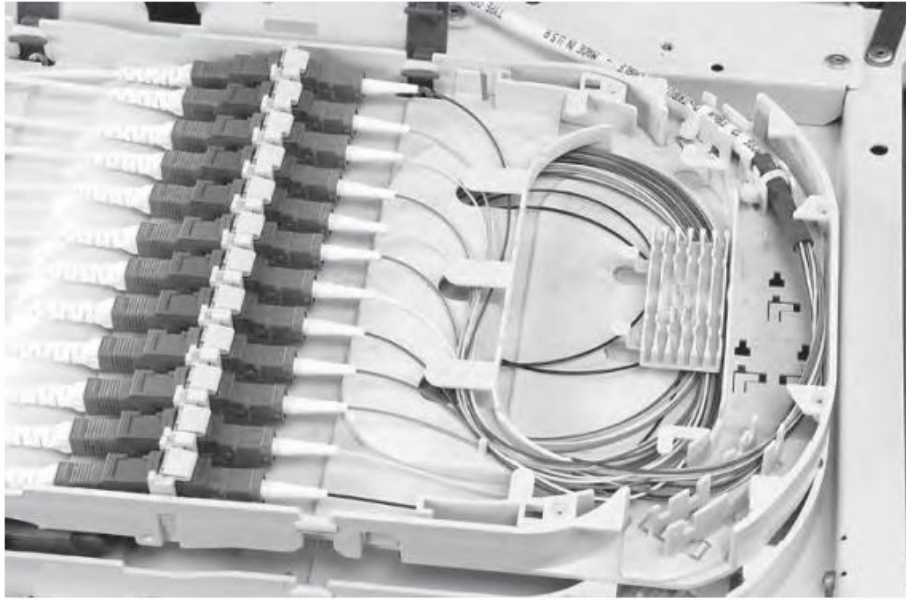


For ease of installation start with the bottom tray. If possible apply 1 wrap of foam tape around the IFC, just before the jacket end (This foam prevents from easy pull-out and provides protection to the fibers inside). Attach to the tray with 2 small tie-wraps. At least 1 tie-wrap should be on top of the foam tape. Cut the excess length of the tie-wrap. Make sure the tie wrap knob is at the side of the IFC. Don't squeeze the fibers.

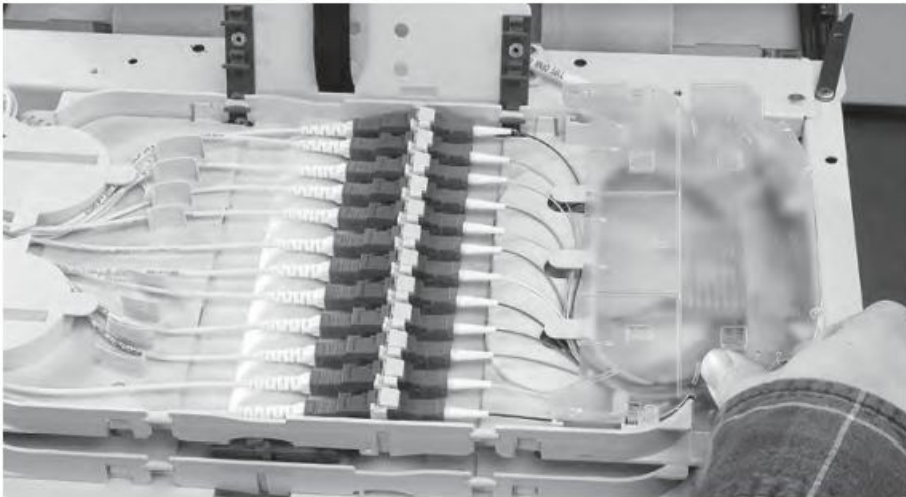
For IFC and pigtail management, leave sufficient slack so that the drawer can still be opened.



Plug the connectors into the appropriate connector adapters.

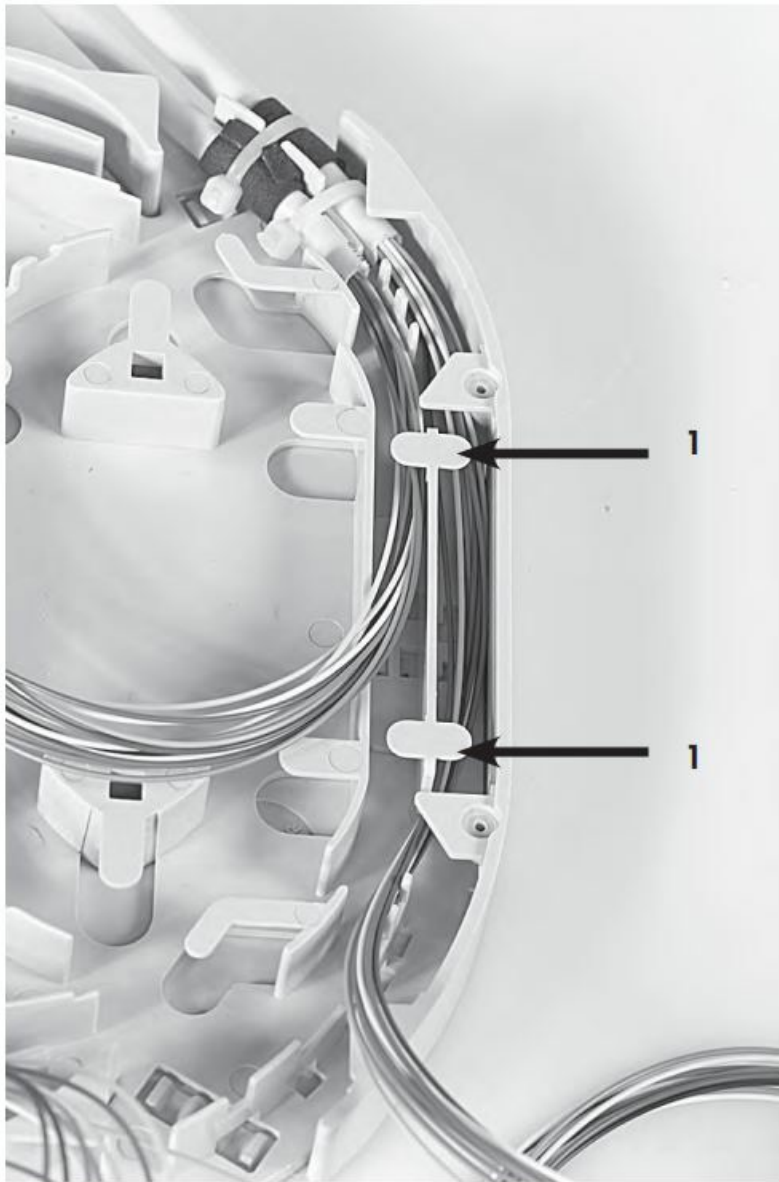


Now the IFC can be coiled into the slack fiber storage area. Fibers must be untangled before coiling.
Note: splicing repair connectors is possible; one can use the splice holder which is pre-mounted in the tray.



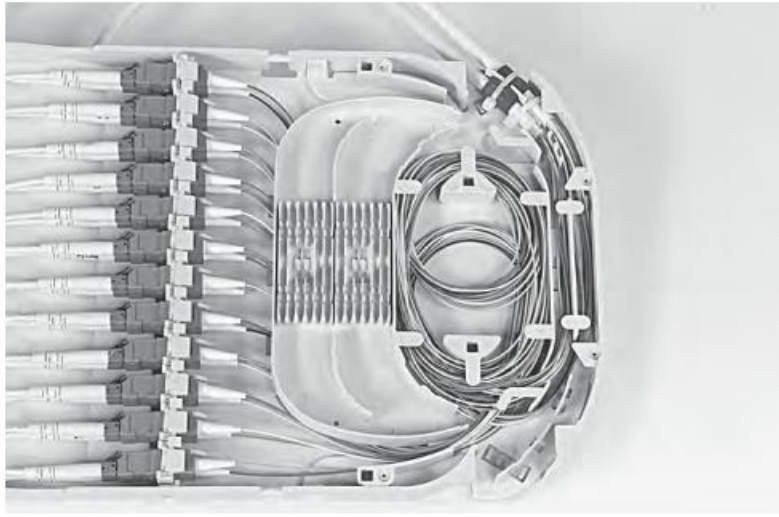
Check if all fibers are properly routed before placing the cover on the splice module. All fibers should be underneath the containment lips.

24 splice module



You can separate each bundle of 900 μm by the split transition plate (1).

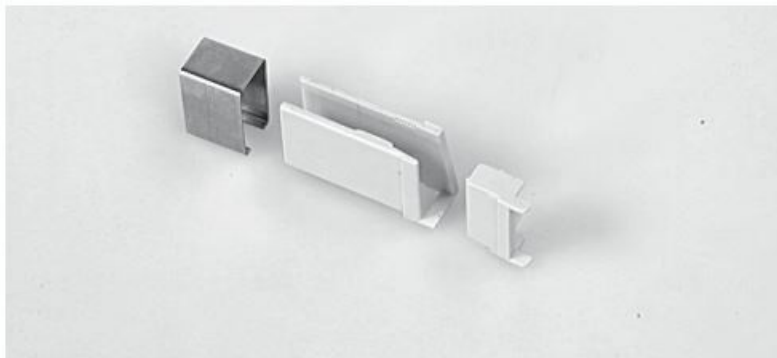




Install the connectors of the first bundle (1) in the adapters and then route the overlength in the storage area. Repeat this for the second bundle (2). Enter the storage area (see picture above).

Installation of break out cable/pigtail on the tray

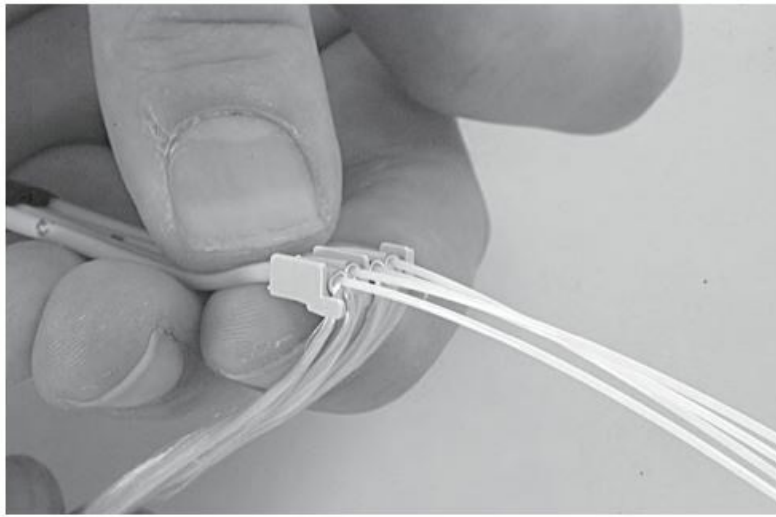
GTU not applicable for the 24-splice module



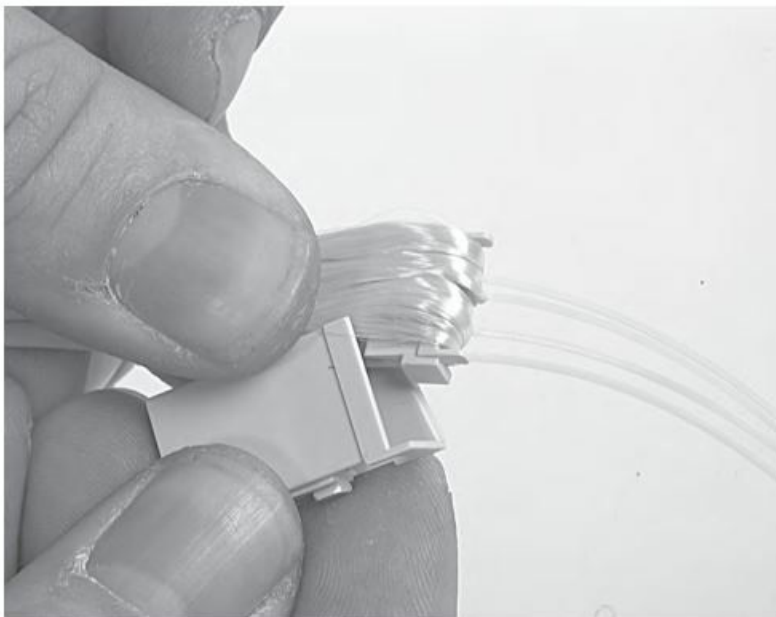
Use the GTU kit for the aramid strength member termination of a group of 4 pigtails.



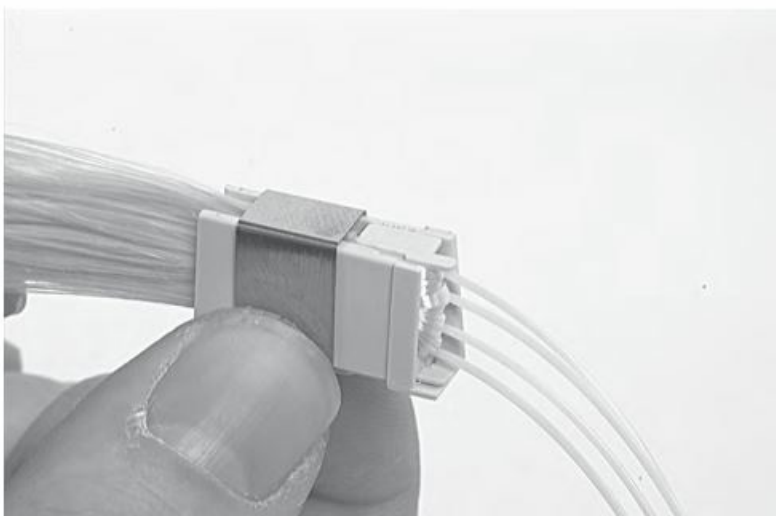
Identify the 4 pigtails. Bundle them with PVC tape. Route them up to the tray, and mark the 4 pigtails on the GTU position. Make sure there is 1,5 m pigtail available from this point. The length is limited to 1 m in the case of tight coated pigtail.



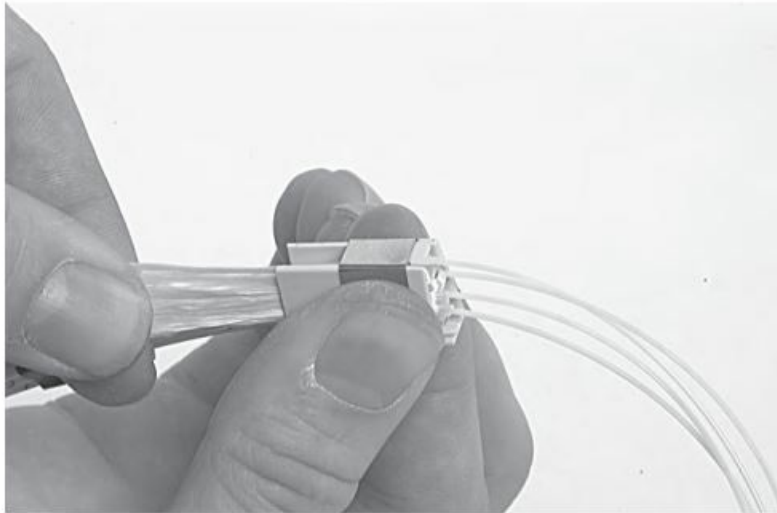
Strip the pigtail jacket at the marks. Cut the aramid strength member to ± 100 mm. Bend the aramid strength member over the edge of the inner part. Don't entangle the fibers, avoid crossings.



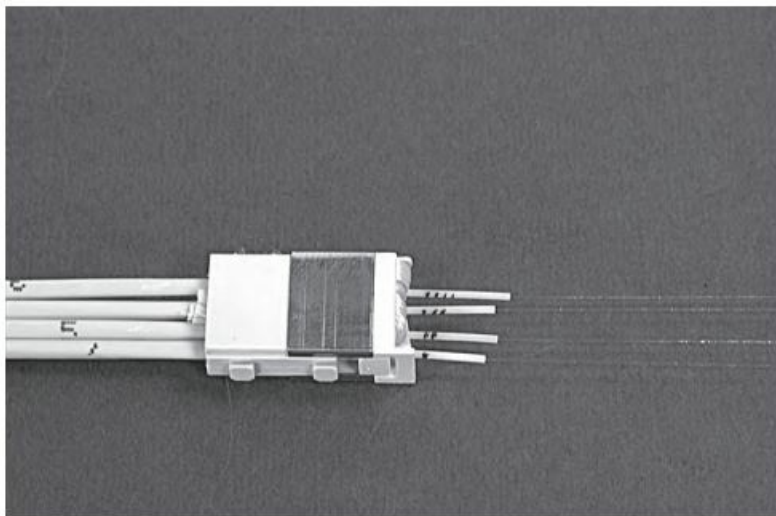
Slide the outer part over the inner part. Keep both parts under a certain angle as shown. Keep the aramid strength member in position with your left thumb.



Slide the metal clip over the pigtails and then over the GTU, up to the front.



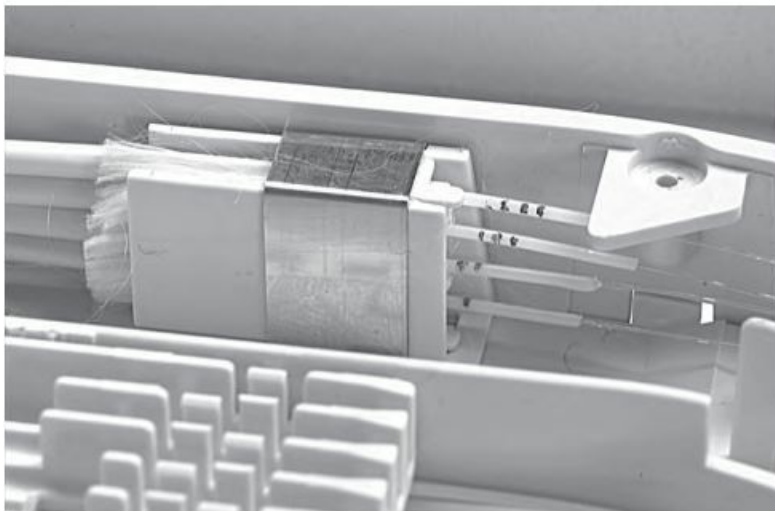
Take the GTU at the metal clip and pull at the aramid strength member until it locks completely



Cut excess aramid strength member. Identify the pigtails. Remove the secondary coating 10-20 mm from the GTU (only possible in case of semi-tight pigtail). This ensures you the transition primary-to-secondary is in a straight line.

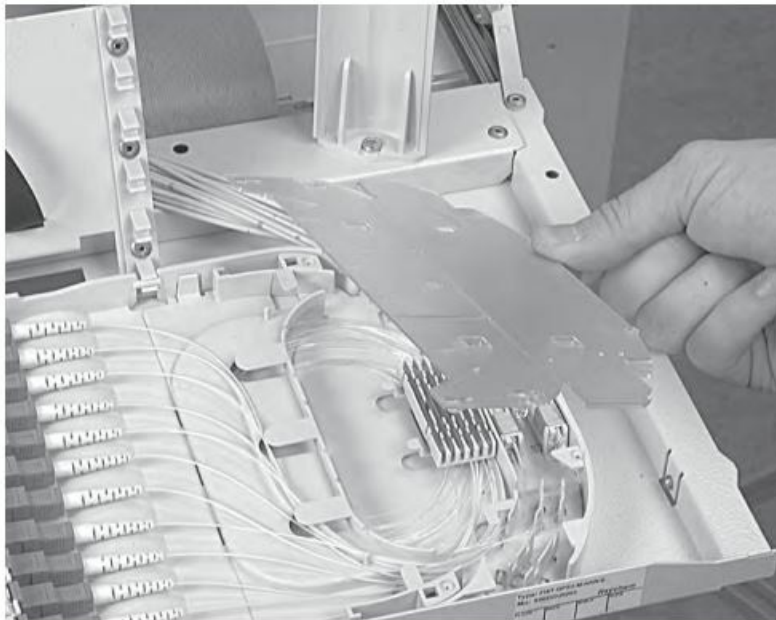


In the case of pigtails with a limited amount of aramid strength member (typical outside diameter < 2.4 mm): wrap the aramid strength member twice around the inner part. Bring the aramid strength member of 2 neighboring pigtails together and pass the aramid strength member between both pigtails. Repeat for the 2 other pigtails. Always install 4 pigtails per GTU.



Mount the GTU. Start at the outside of the tray.

- Strip the pre-mounted pigtails (see 5.1.7 – 5.1.8)
- Splice the fibres. Place the splice protector in his holder, and start at the outside of the tray (hold the splice holder with your finger to prevent bending). Coil the fibers in the tray.



Check whether all fibers are properly routed before placing the cover on the module. Fibers can not be on top of containment lips.



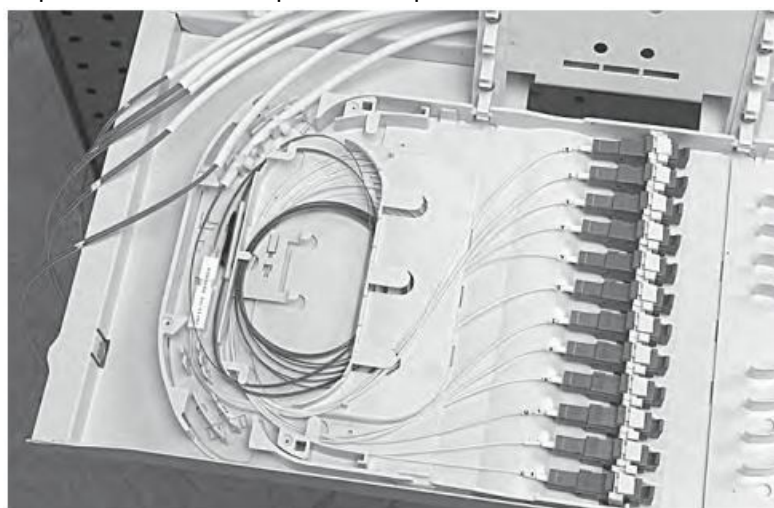
Remark: storing non spliced fibers. When not all 12 fibers are spliced at once: route the non-spliced fibers on top of the stored fibers. Route them outside the storage zone to have easy access at a later date, without disturbing active circuits

Installation of ribbon cable on the tray

12 splice module



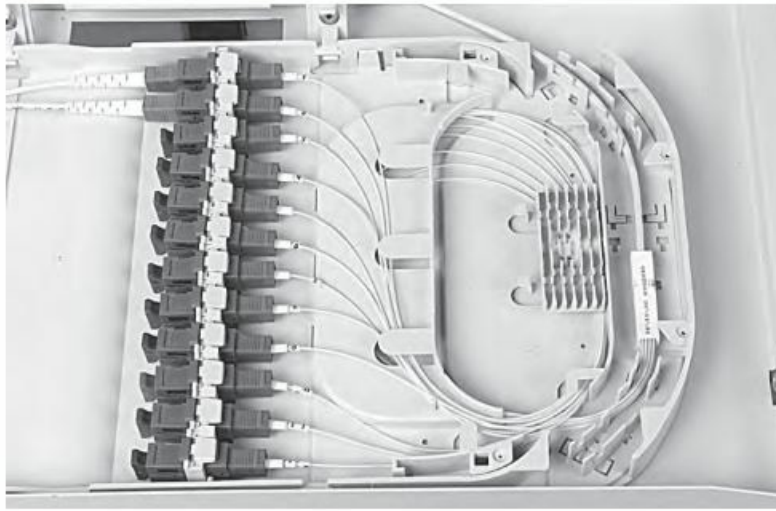
Fix the tubes in the middle position with tie-wraps. Don't squeeze the tubes.



Make the splices and store the overlength without twists in the storage area.

Installation of ribbon pigtail on the tray

12 splice module and 24 splice module

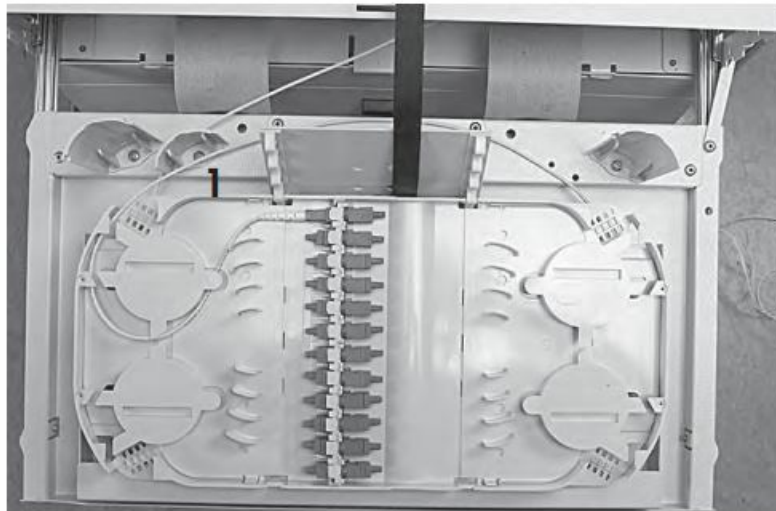


Always pre-installed, route the ribbon pigtail to the splicing shelf (GSS2)

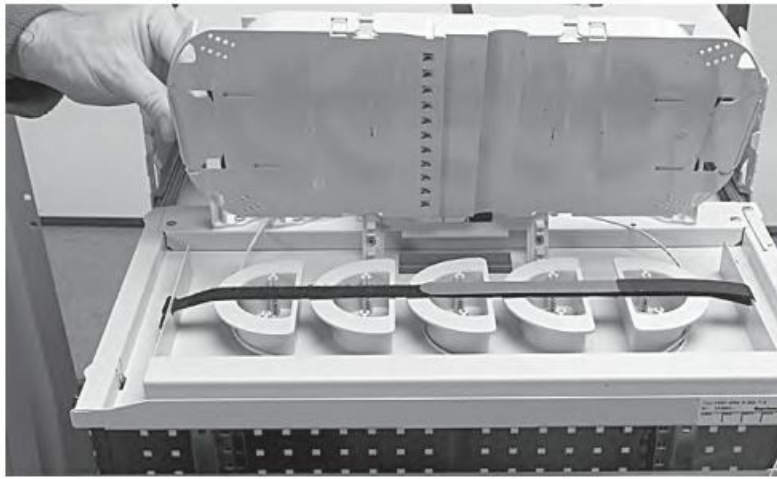
Storage

Storage capacity

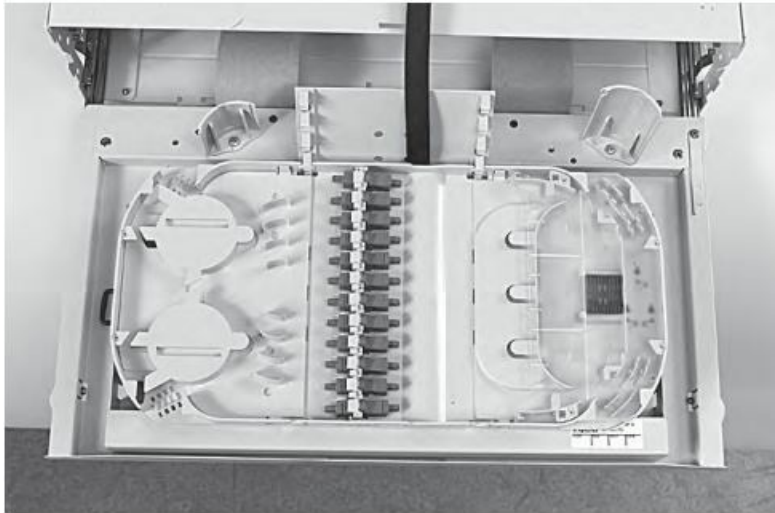
Pigtail Ø	Length	Number of trays
1.7 mm	1.5 m	4 trays (96 connectors)
2.4 mm	3 m	4 trays (48 connectors)
2.8 mm	2 m	4 trays (48 connectors)



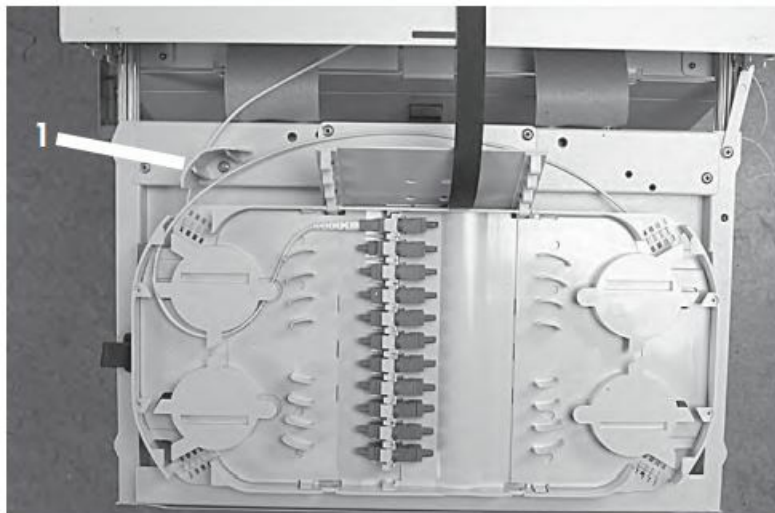
ETSI shelf: storage of a patch cord entering the shelf at the right side is shown. Check the position of the small bend control (1).



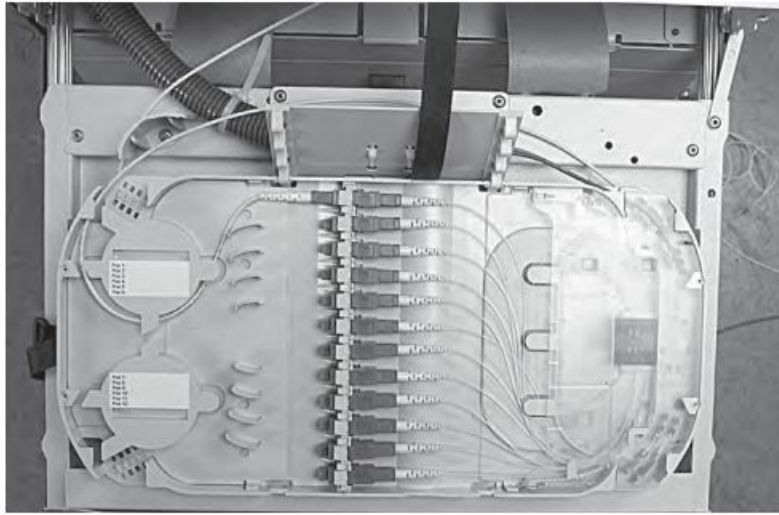
Route as shown. Secure with the hook and loop fastener.



ETSI shelf with loose tube cable.



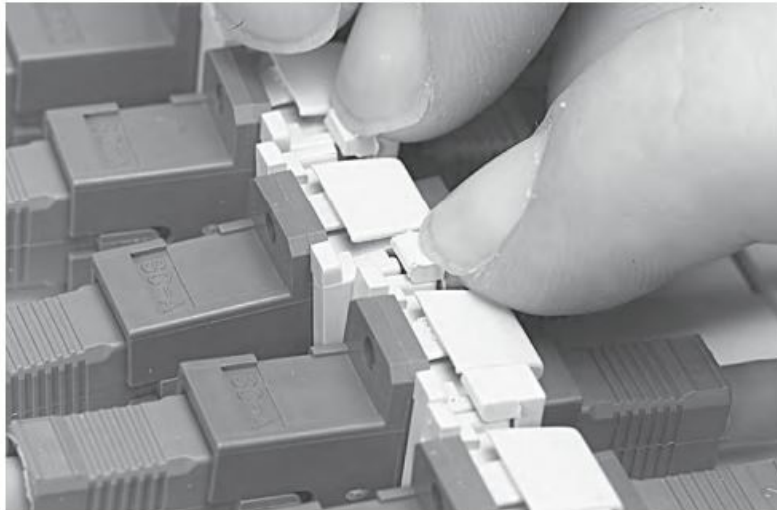
19" shelf: storage of a patch cord entering the shelf at the right side is shown. Check the position of the small bend control (1).



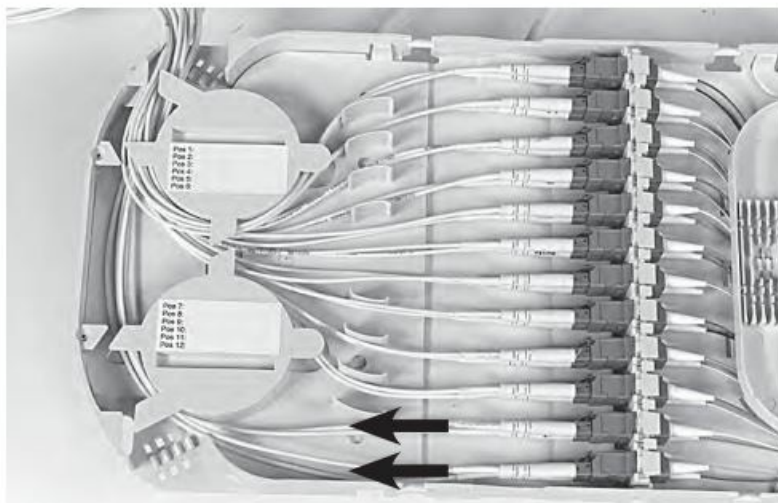
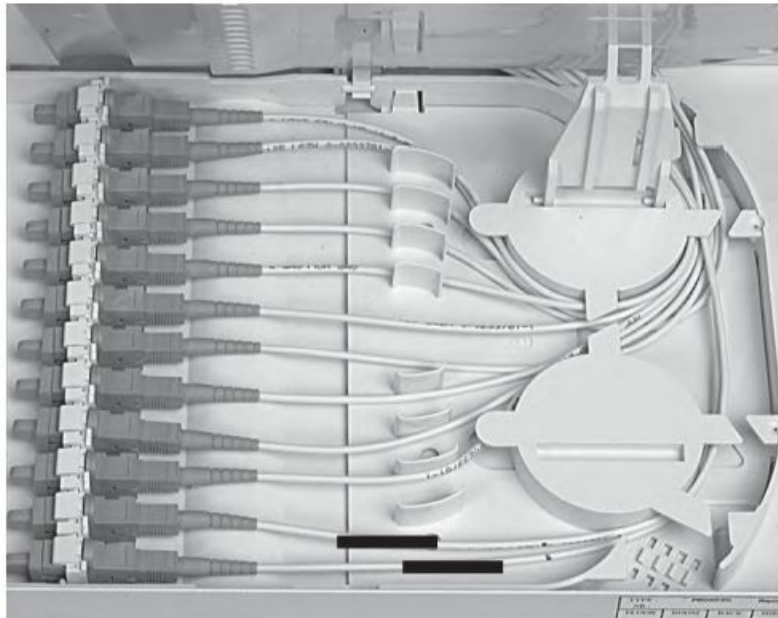
19" shelf with loose tube cable.

In case of patch cords entering at the left-hand side: position the small bend control at the right side.

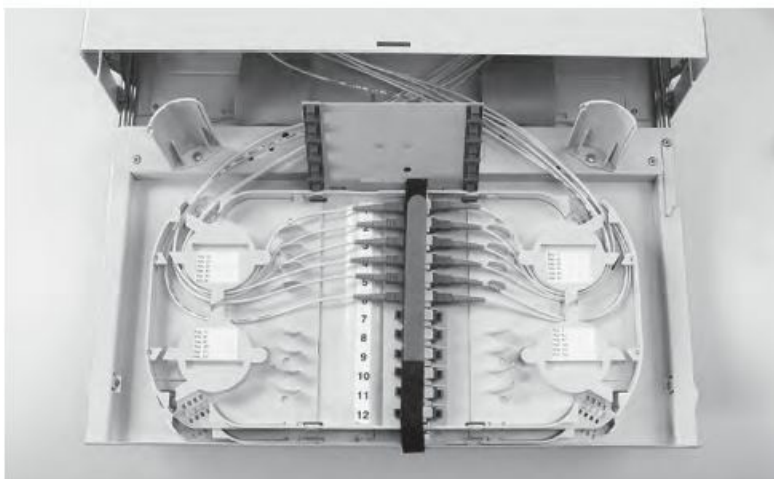
Patching



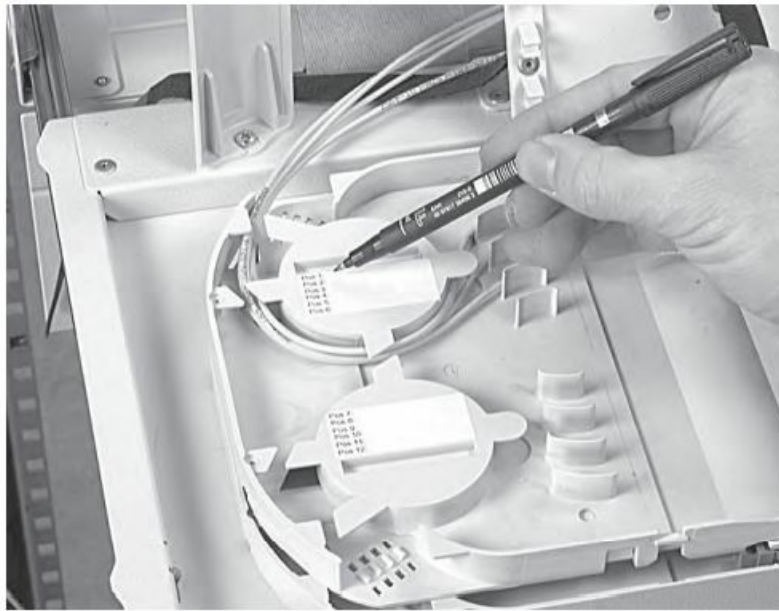
Route the jumper through the horn up to the tray. Remove the connector adapter out of the tray and mount the connector into it as described. Push the plastic hooks which hold the adapter away and push the adapter simultaneously in the opposite direction. Place the adapter + connector back in the tray by sliding and hinging it down along the vertical axis.



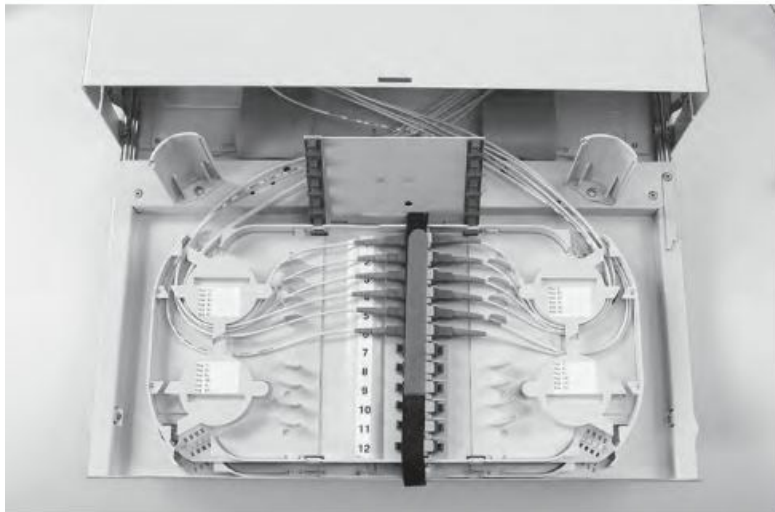
Repeat this procedure with the other pigtails. Respect routing of jumpers as shown on the picture. Provide sufficient slack for patching to all other positions in the shelf.



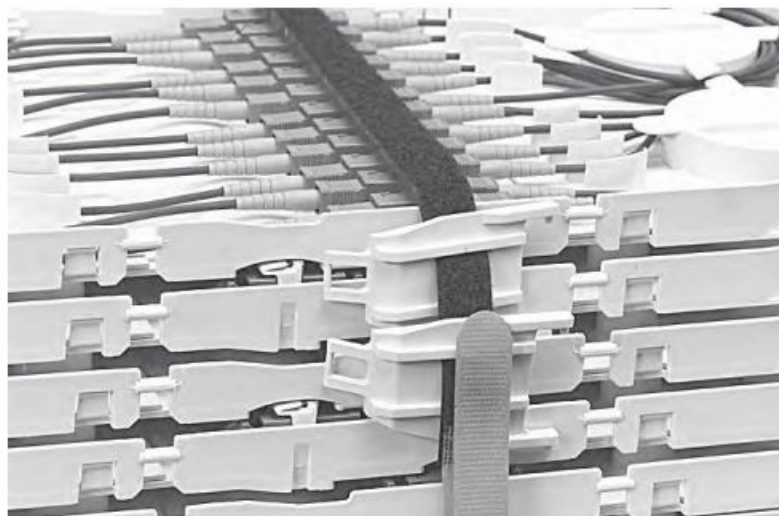
Routing of incoming pigtails and outgoing patchcords



Place the labels and write down information



Picture showing all the available labels for identification



Place the tray wedges on the hook and loop fastener and secure the trays with the hook and loop fastener. Close the drawer after turning the security clip 180° and by pushing the spring on the right side of the shelf.



Identify the shelf.

Important steps

- In case of loose tube termination side or back
- remove bend controls at the side of the cable entrance (19" shelves don't have bend controls)
- don't modify the predefined flex tube length
- apply foam tape to the flex tube
- apply foam tape to loose tubes
- Make sure the transition primary-to-secondary fiber is in a straight line: under the splice holder (in case of tight coated pigtail: in the splice protector)
- Cut excess length of tie-wraps
- Make sure all fibers and pigtails are properly routed and are under the containment lips
- Bundle pigtails/patchcords with hook and loop fastener; don't use tie wraps
- Try to store ribbons without twists.

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- www.commscope.com/ProductPatent/ProductPatent.aspx
-

	<p>COMMScope FIST-GPS2 Generic Splice Patch Shelf [pdf] Instruction Manual FIST-GPS2 Generic Splice Patch Shelf, FIST-GPS2, Generic Splice Patch Shelf, Splice Patch Shelf, Patch Shelf</p>
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References

-  [CommScope | now meets next](#)
- [User Manual](#)

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