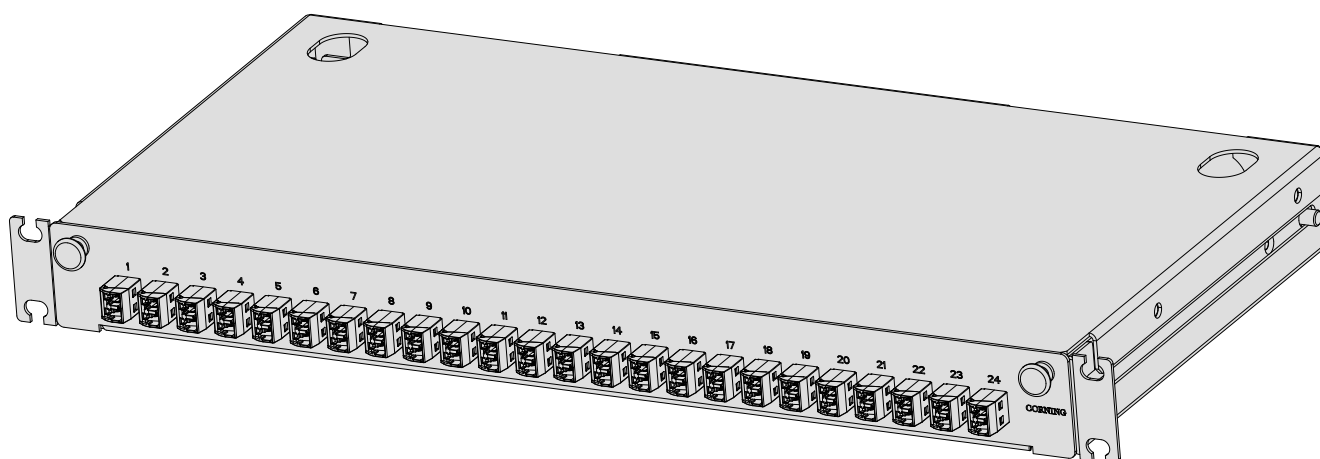




These installation instructions should be used as a guide by the trained fitter performing the installation.

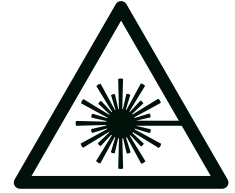


## General information

### Warning!

Possible laser/LED radiation in the non-visible spectrum!

Never look into open fiber ends if the level of risk from laser/LED radiation is not known.



### Important:

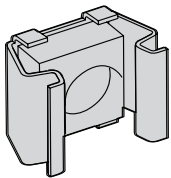
The assignment of the risk level must be specified definitively by the site technician/operator responsible for the communications facility and must be indicated accordingly (e.g. by attaching standard-compliant warning signs as per the current edition of DIN EN/IEC 60825-1, and in accordance with the current edition of BGV B2 "Laser radiation").

If there is any change in the technical data relating to the risk level, the warnings must be adapted accordingly and occupational safety precautions must be taken if required, see also e.g. the current edition of DIN EN/IEC 60825-2.

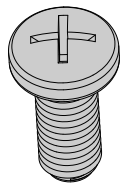
### Cleaning:

Cleaning agents based on alcohol (e.g. isopropyl alcohol) or water (e.g. De.sol.it 2000 or 3000, Ecoclean 2000) should be used for cleaning cables and modules.

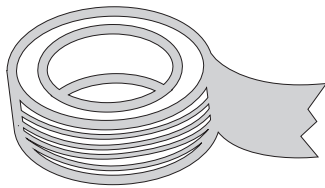
## Kit content



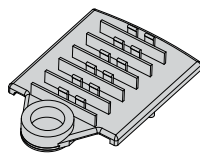
4x



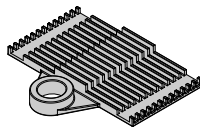
4x  
M6x16



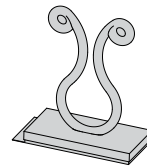
1x10cm



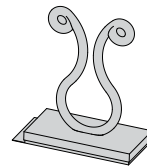
Quantity depends  
on configuration



ONLY PGTL VERSION

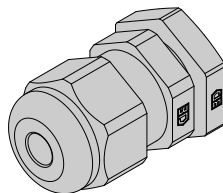


2x



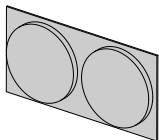
4x

ONLY ADTP VERSION

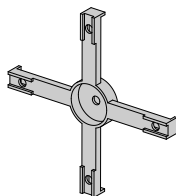


1x  
M20

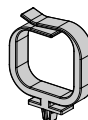
## Splice bridge kit



1x

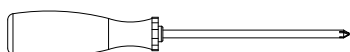


2x

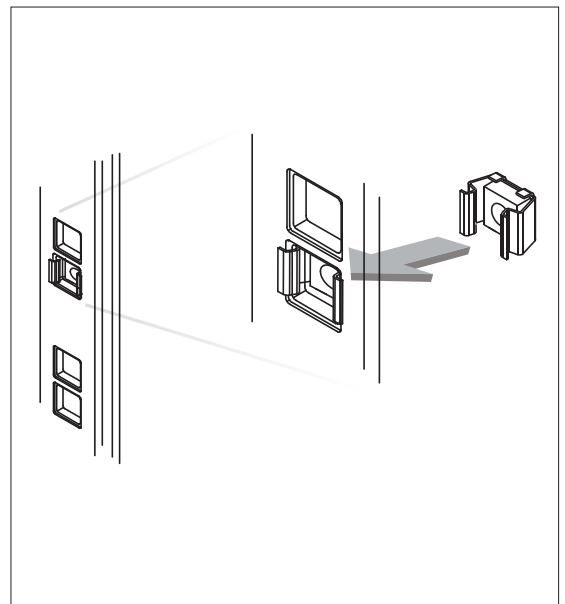


8x

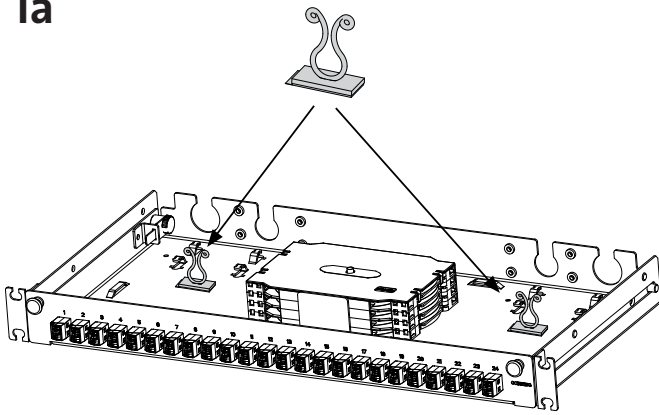
## Required tools



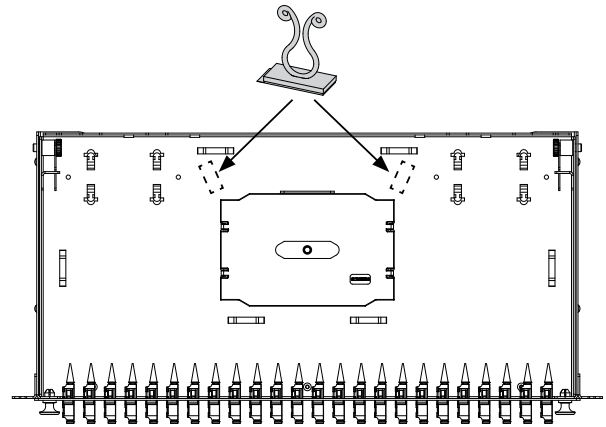
PH3



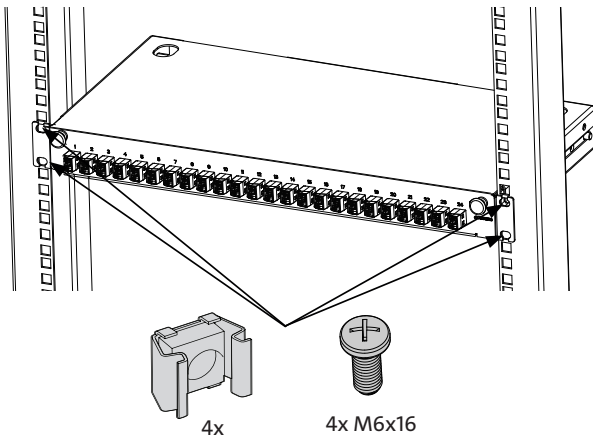
**1a**



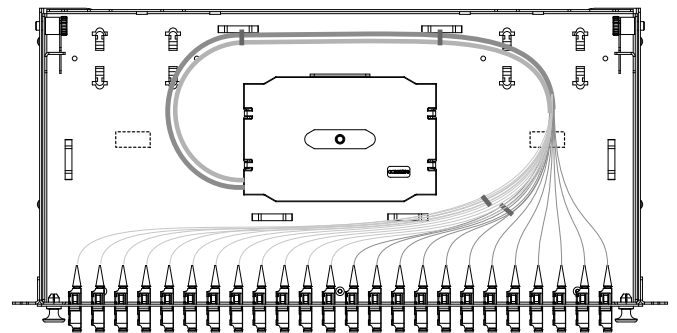
**1b** Splice pack version



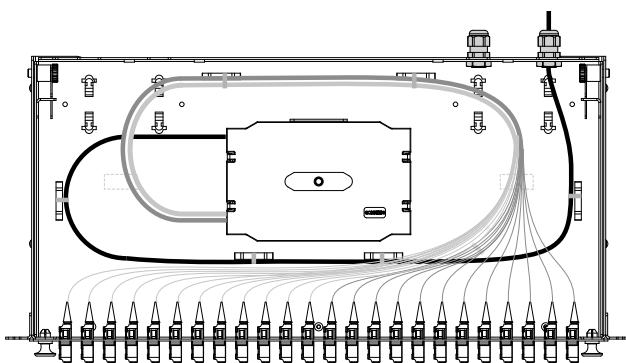
**2**



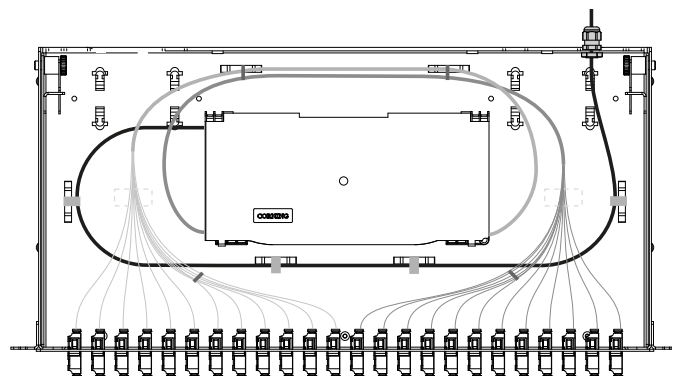
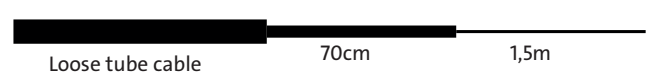
**3** Standard cassette option



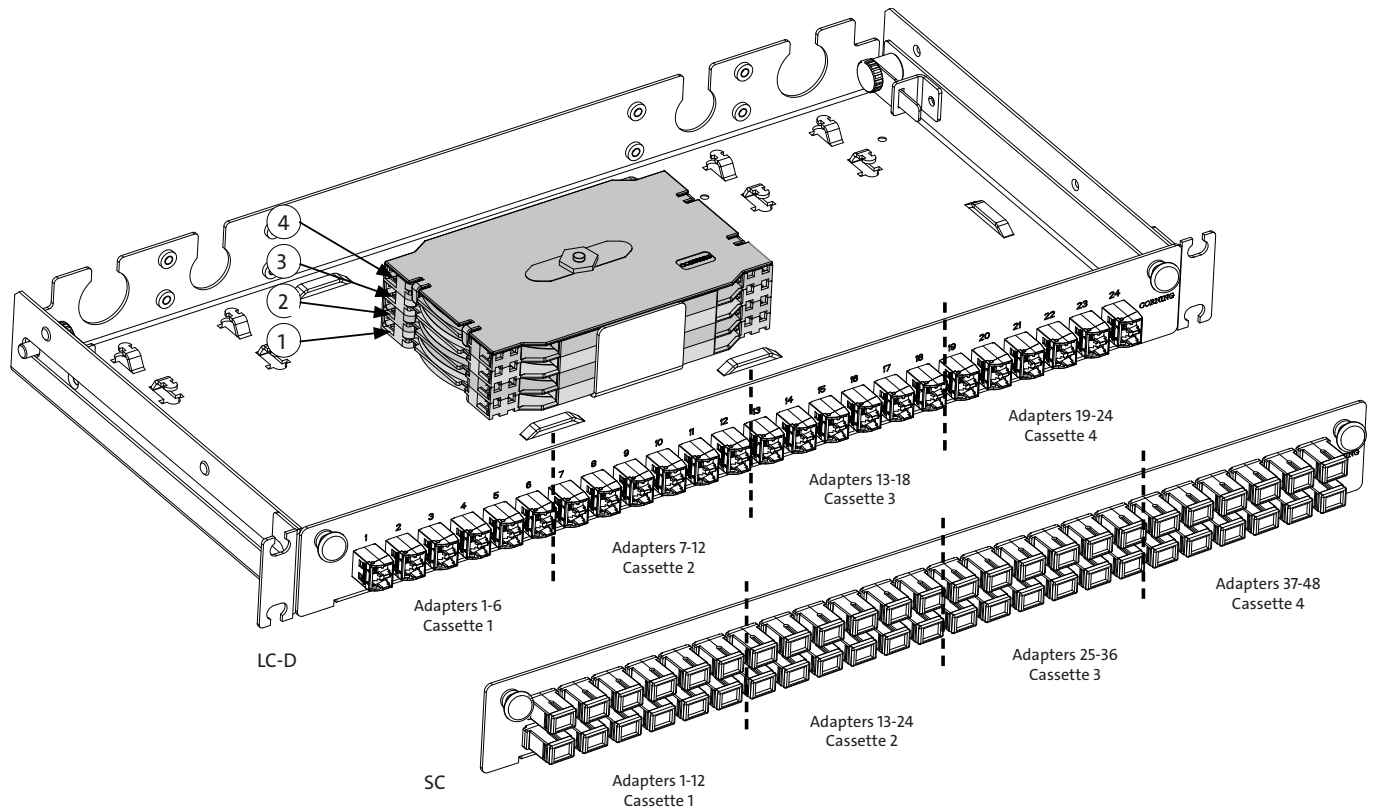
**4** Standard cassette option



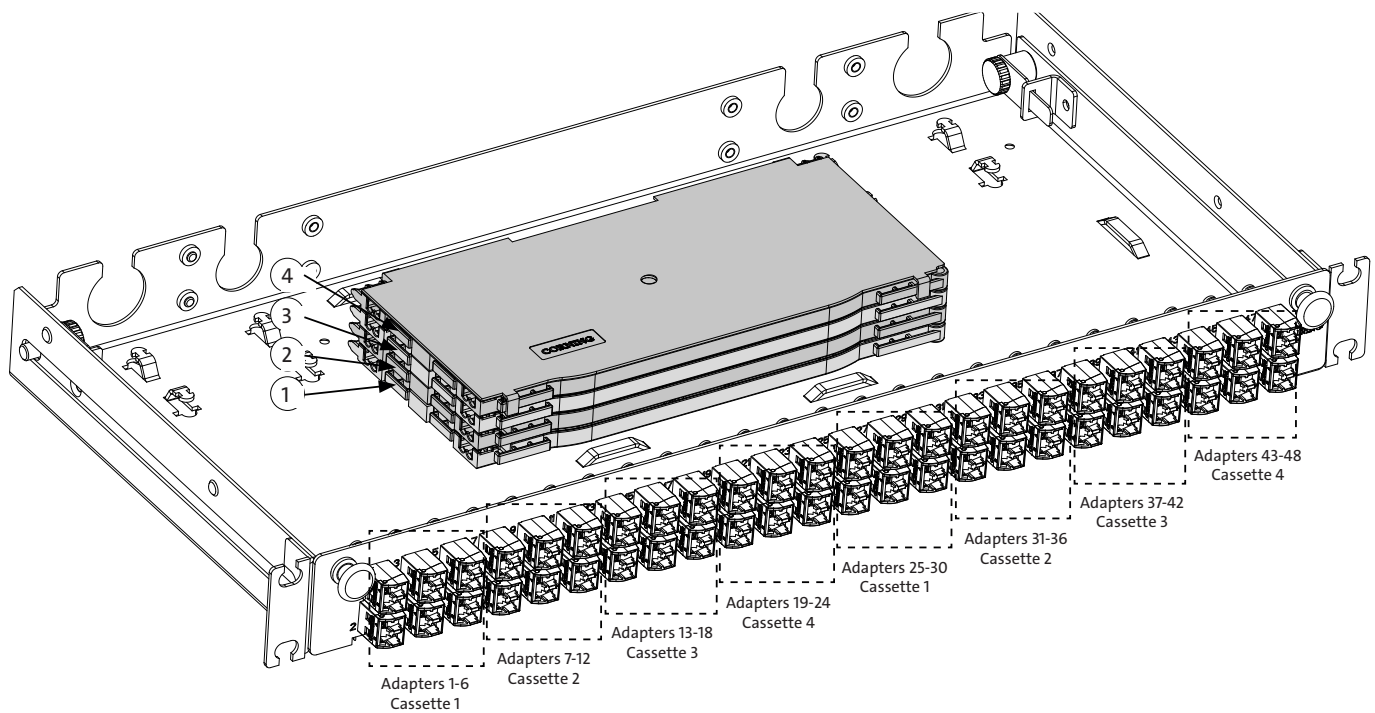
**5** MFT cassette option



6



7



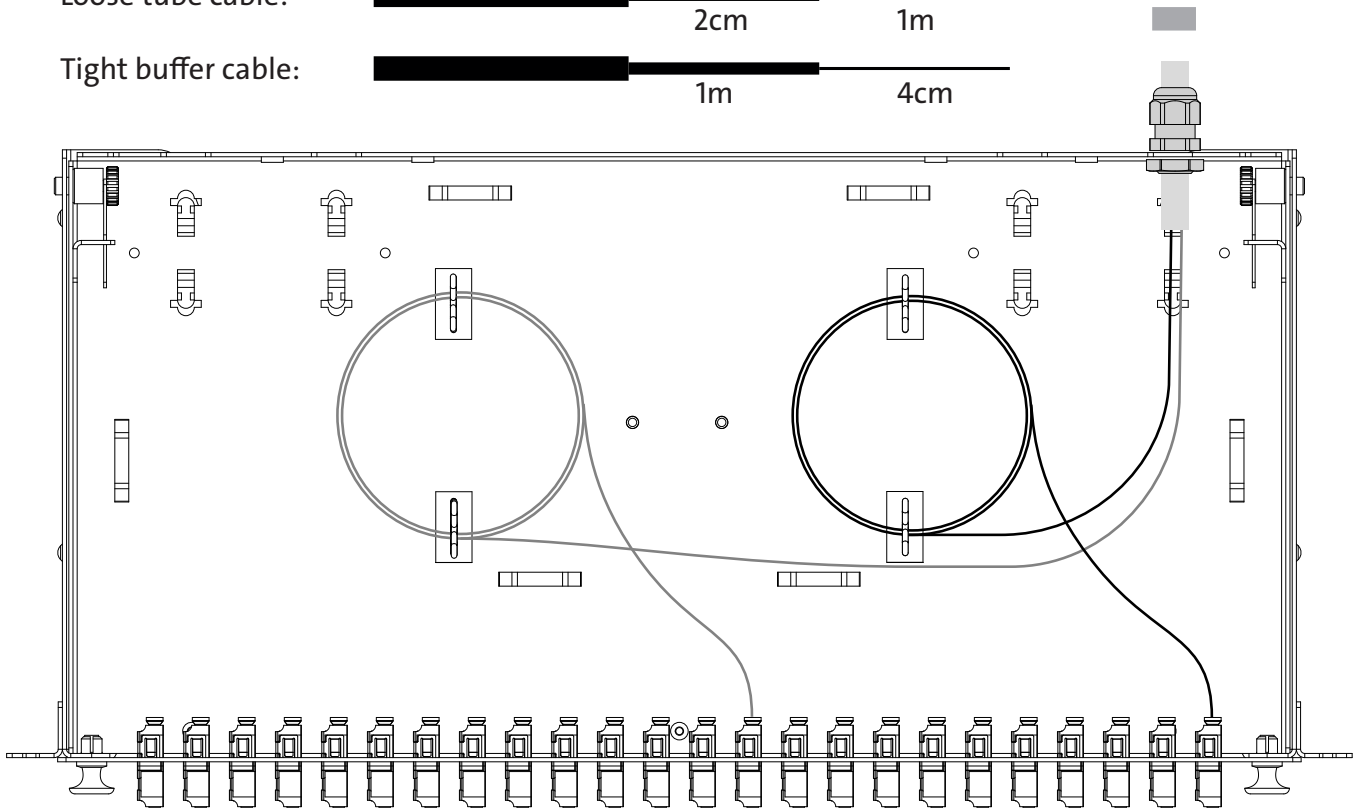


## 8a Unicam option

Loose tube cable:

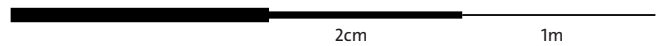


Tight buffer cable:

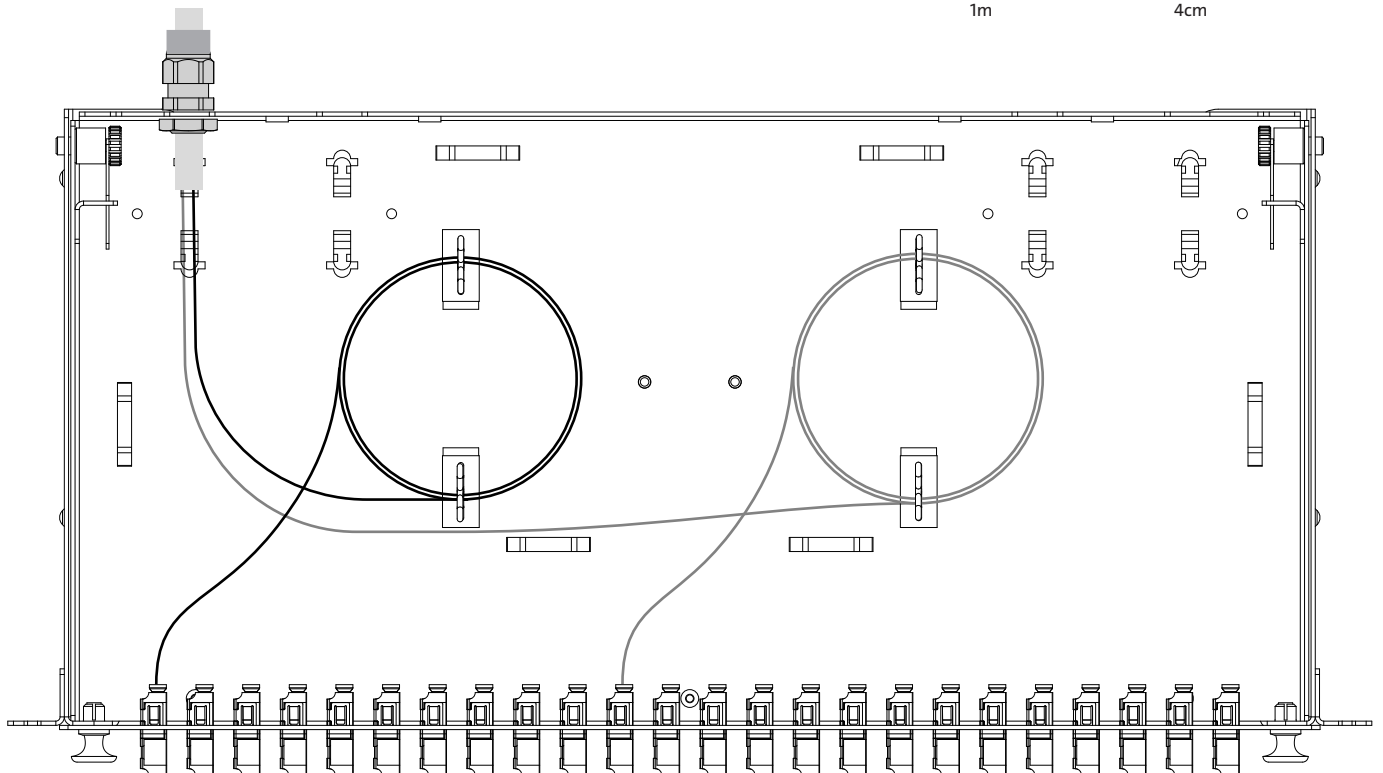


## 8b

Loose tube cable:

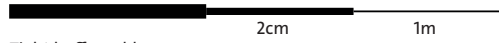


Tight buffer cable:

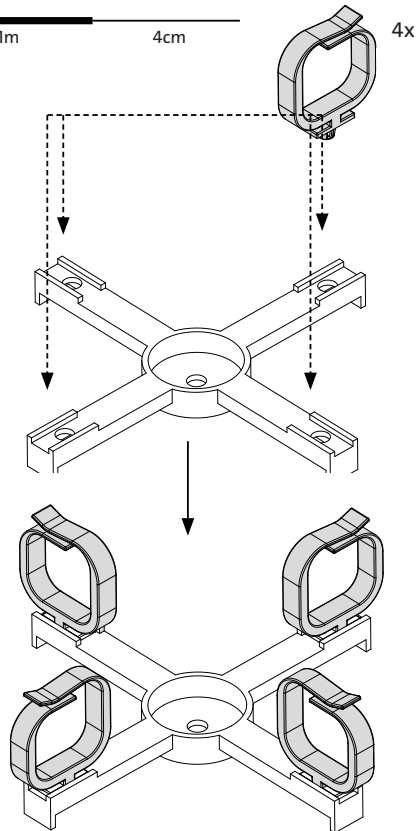
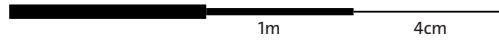


## 9 BRDG option

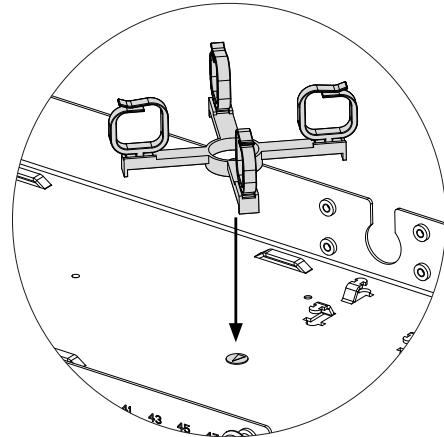
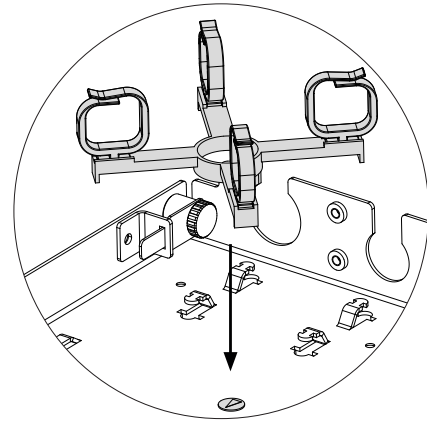
Loose tube cable:



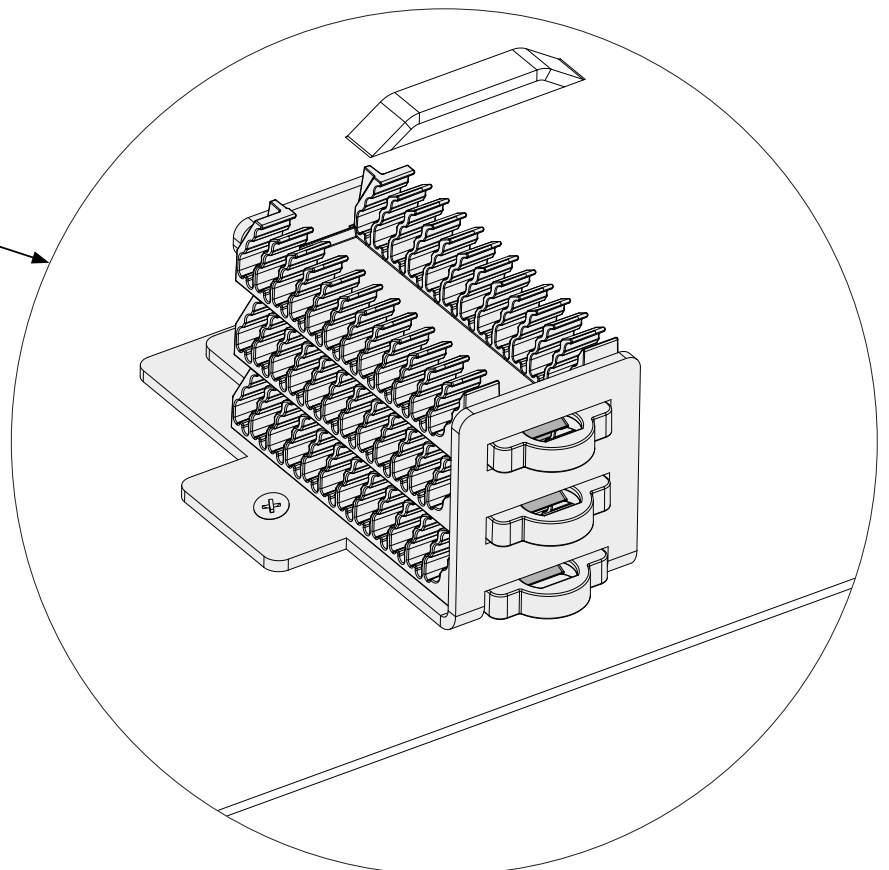
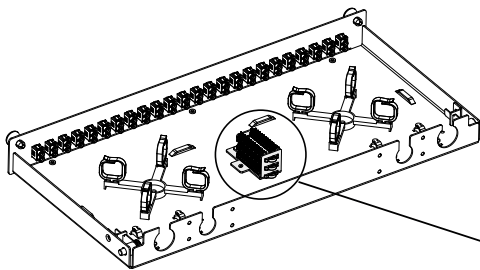
Tight buffer cable:



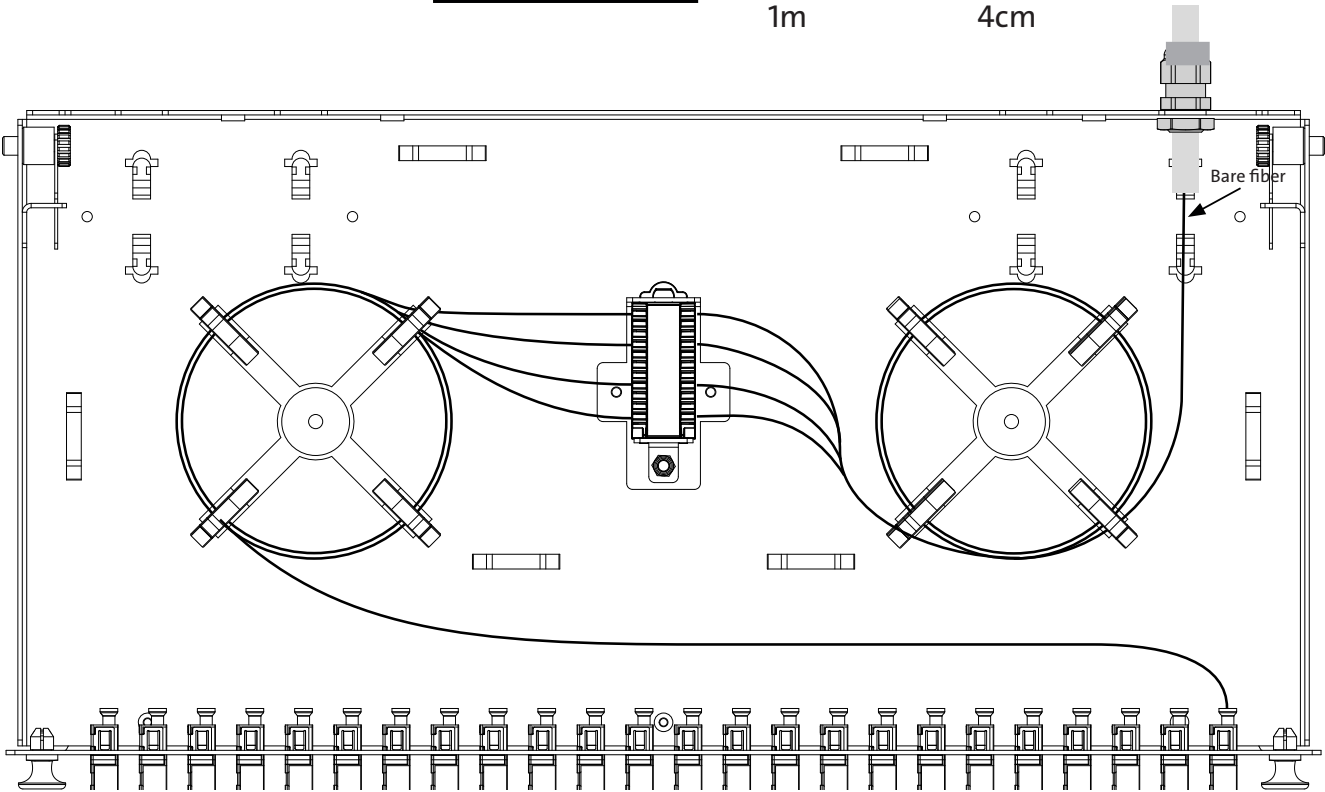
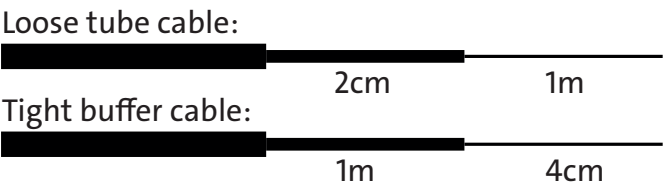
## 10



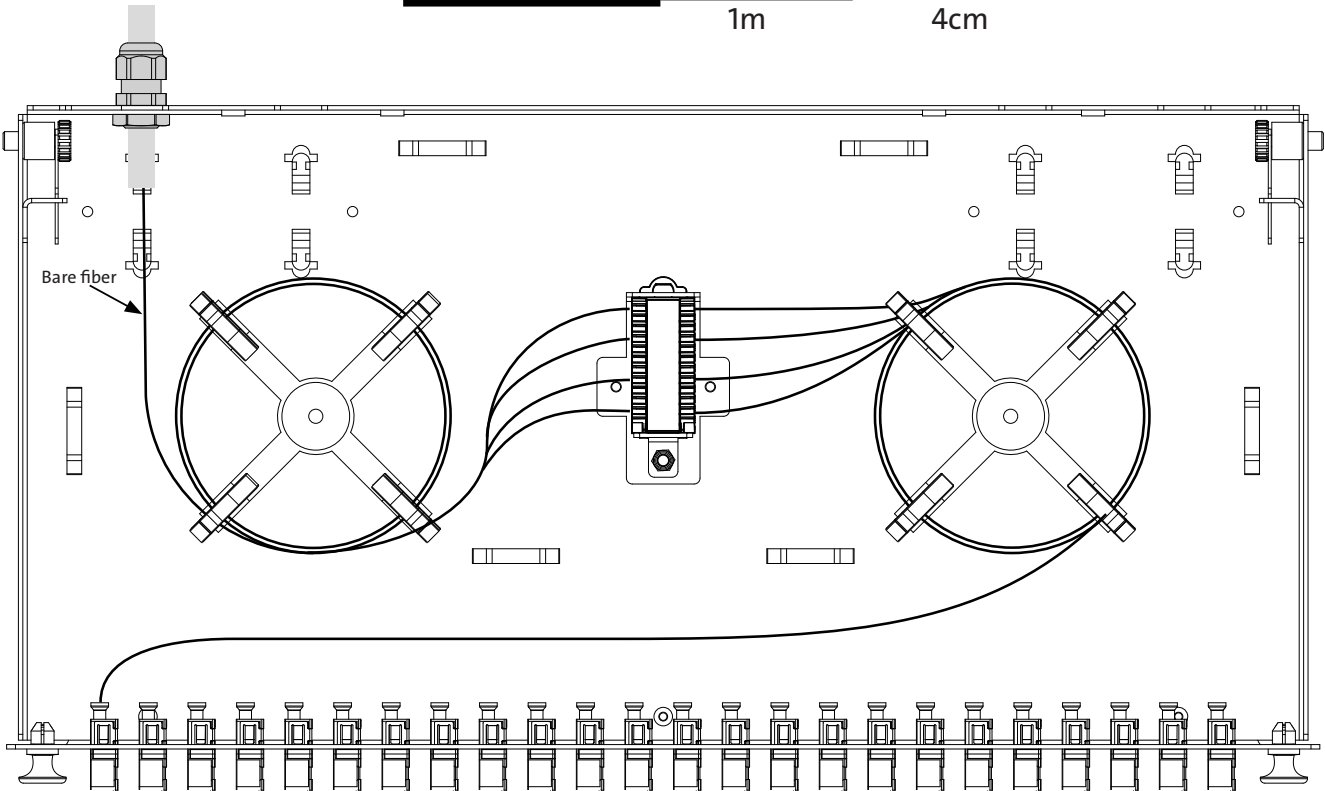
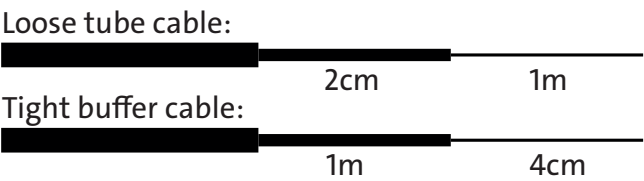
## 11



**12a** BRDG cabel option

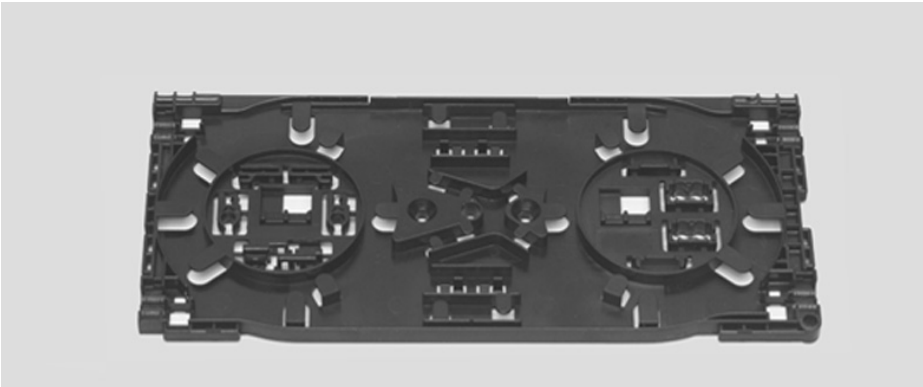


**12b**



### 13 MFT CASSETTE INSTALLATION AND FIBER SPLICING

Splice tray

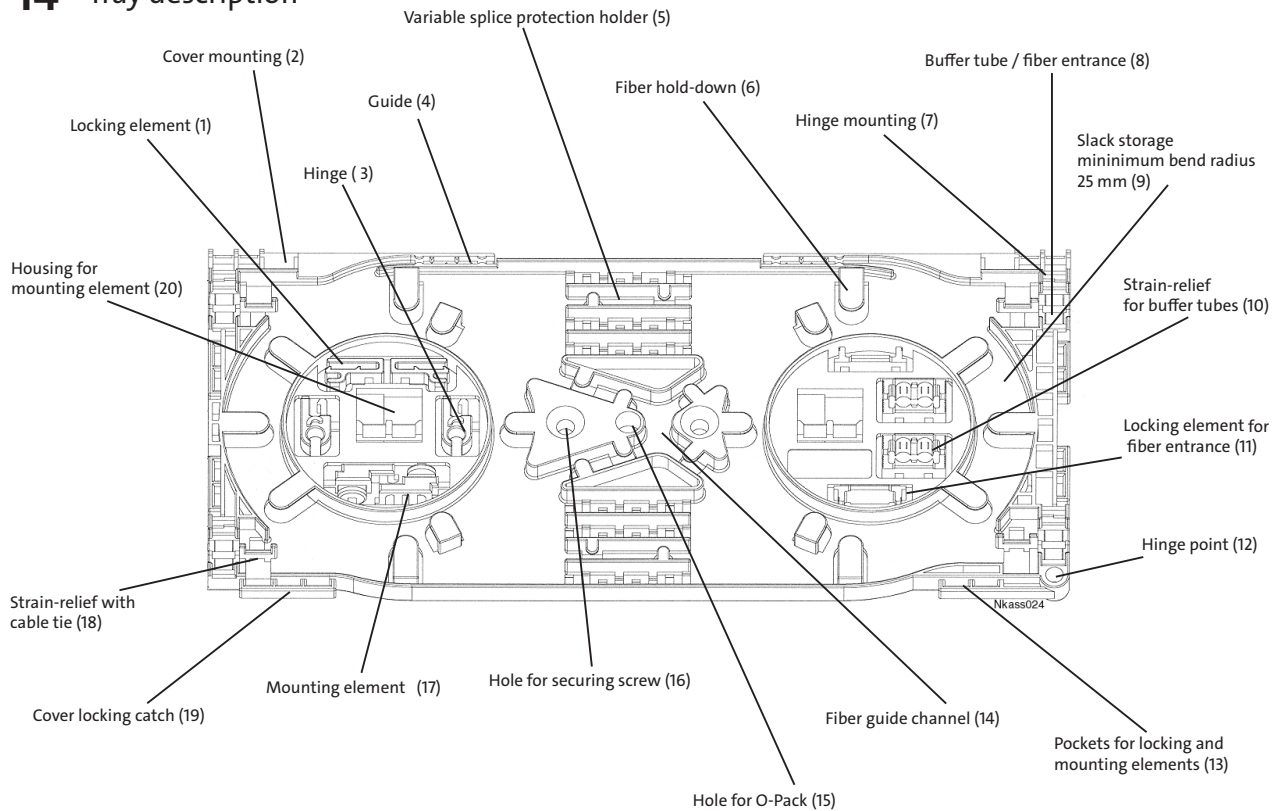


#### Technical data

| Capacity of the Trays |              |               |              |          |         |                   |              |
|-----------------------|--------------|---------------|--------------|----------|---------|-------------------|--------------|
| Type                  | Ribbon       | Shrink Splice | Crimp-Splice | Fiberlok | Coupler | Pigtails<br>Ø 3mm | 900 µ Fibers |
| 1                     | 4 (12 fiber) | -             | -            | -        | -       | -                 | -            |
| 2/3                   | -            | 24            | -            | -        | -       | -                 | -            |
| 2/3                   | -            | -             | 24           | -        | -       | -                 | -            |
| 2/3                   | -            | 12            | -            | -        | 1       | -                 | -            |
| 2/3                   | -            | -             | 12           | -        | 1       | -                 | -            |
| 2/3                   | -            | 16            | -            | 2        | -       | -                 | -            |
| 2/3                   | -            | -             | 14           | 2        | -       | -                 | -            |
| 2/3                   | -            | -             | -            | -        | -       | 12                | -            |
| 2/3                   | -            | -             | -            | -        | -       | -                 | 12           |

Tray type 2 or 3 can be optionally ordered with pigtail adapter or hinged adapter.

## 14 Tray description



1. Locking element: For locking the trays together.
2. Cover mounting: For fastening the covers on the trays
3. Hinge: For linking the trays together
4. Guide: For routing fibers to another tray
5. Variable splice protector holder: For storing splices
6. Fiber hold-down: For routing the fibers
7. Hinge mounting: Mounting point for item 3
8. Buffer tube / fiber entrance: For inserting fibers or buffer tubes
9. Slack storage: For storing slack
10. Strain-relief: For securing buffer tubes
11. Locking element: For securing the silicone protection on fiber entry
12. Hinging point: For hinging the tray on an O-Pack
13. Pockets for locking or mounting element: For mounting item 1 or item 17
14. Fiber guide channel: For guiding the fibers
15. Hole for central pin: For mounting the tray on the O-Pack
16. Hole for securing screw: For mounting with a screw
17. Mounting element: For mounting (hooking) in tray holders or enclosures
18. Strain-relief with cable tie: For mounting the cable ties
19. Cover locking catch: For locking the cover
20. Housing for mounting element: For mounting the tray on an enclosure

## Mounting Buffer Tubes, 900-µm Pigtails, Pigtail and Ribbon/ Single Fibers in the Tray

Buffer tubes: Remove strain-relief for buffer tubes (10) from the tray with a knife.

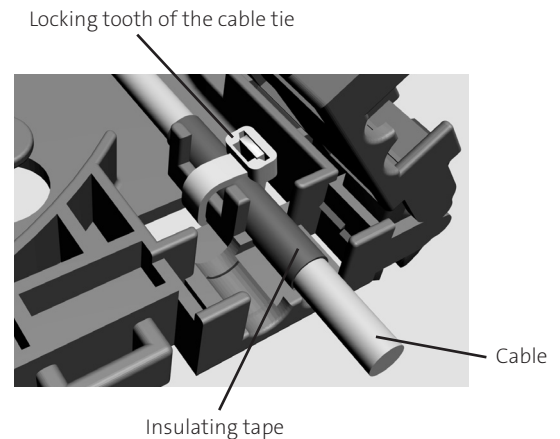
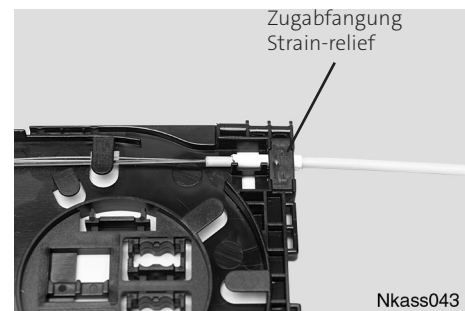
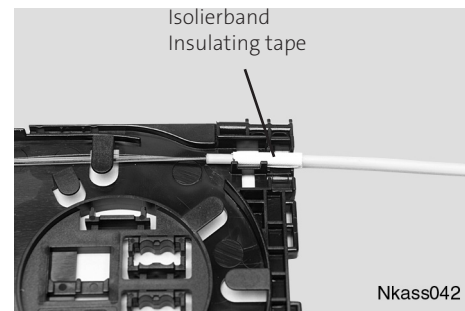
Wrap buffer tubes with insulating tape for improved grip and place them in the tray.

Latch strain-relief onto outer edge of tray over the buffer tube.

The buffer tubes can also be secured with a cable tie if required.

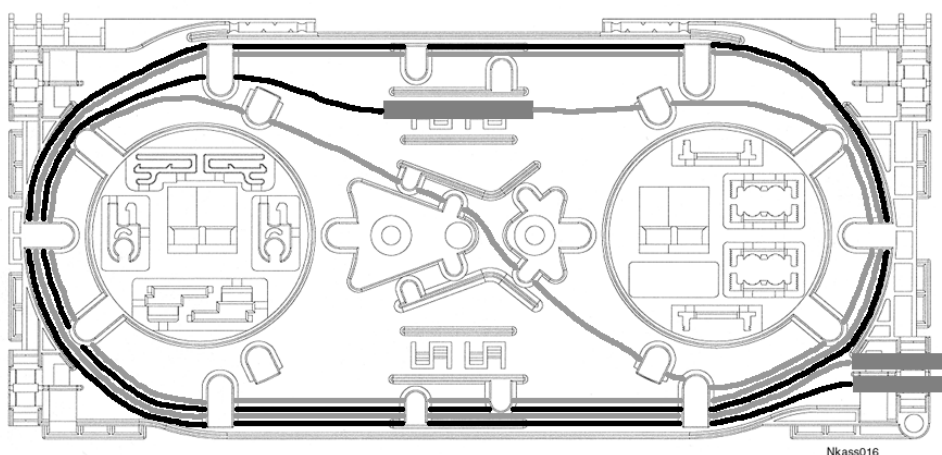
Note: Appropriate cable ties have to be used.

Caution: The locking tooth of the cable tie must be placed within the MFT splice tray (as shown in the picture), so that it is possible to assemble and lock several splice trays without problems



## Examples of Splicing and Installing Fibers in the Trays

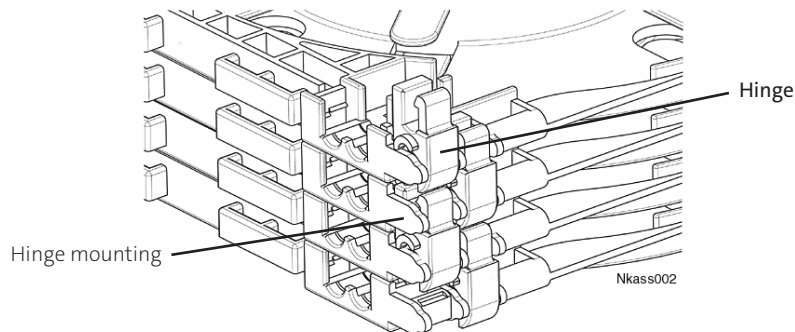
Strip cables to a length in accordance with the regional specifications and the closure or rack installation instructions. Add at least 1200 mm for storing the fibers in the tray. Arrange the stored fibers in the tray to maximize the bend radius.



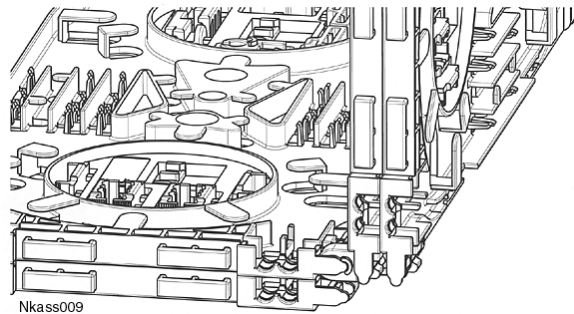
## Mounting and Locking Several Trays Together.

Remove hinges (3) from the tray with a knife.

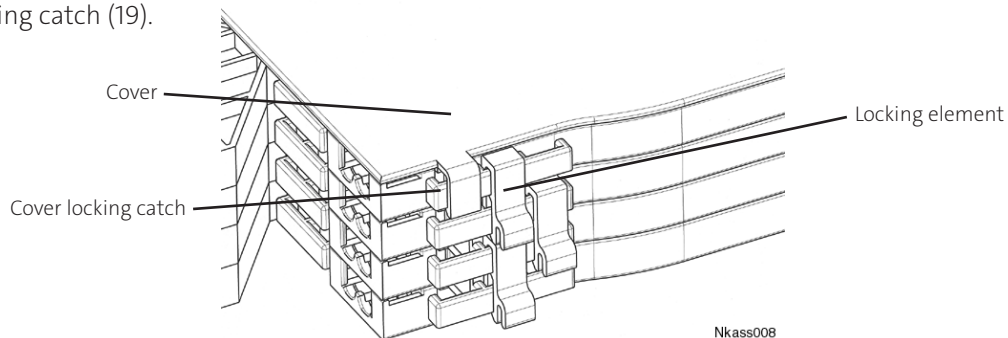
To interlink the required number of trays, always latch the hinges to the hinge mountings (7) so that they are offset .



The trays can then be hinged up as required.



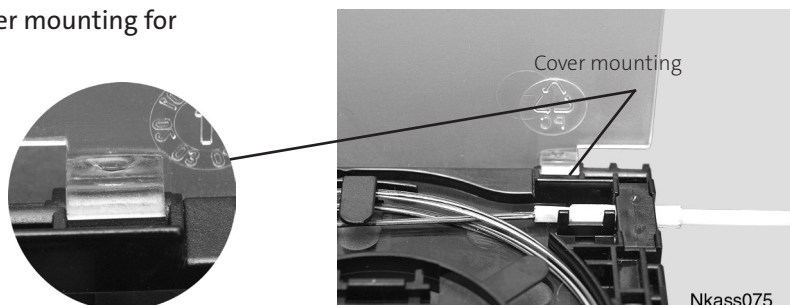
To lock several trays, remove the locking element (1) from the tray with a knife. Insert the locking elements in the locking element pockets (13) so that they are always offset. Place the cover on the last tray and latch it onto the cover locking catch (19).



Close the tray with the cover.

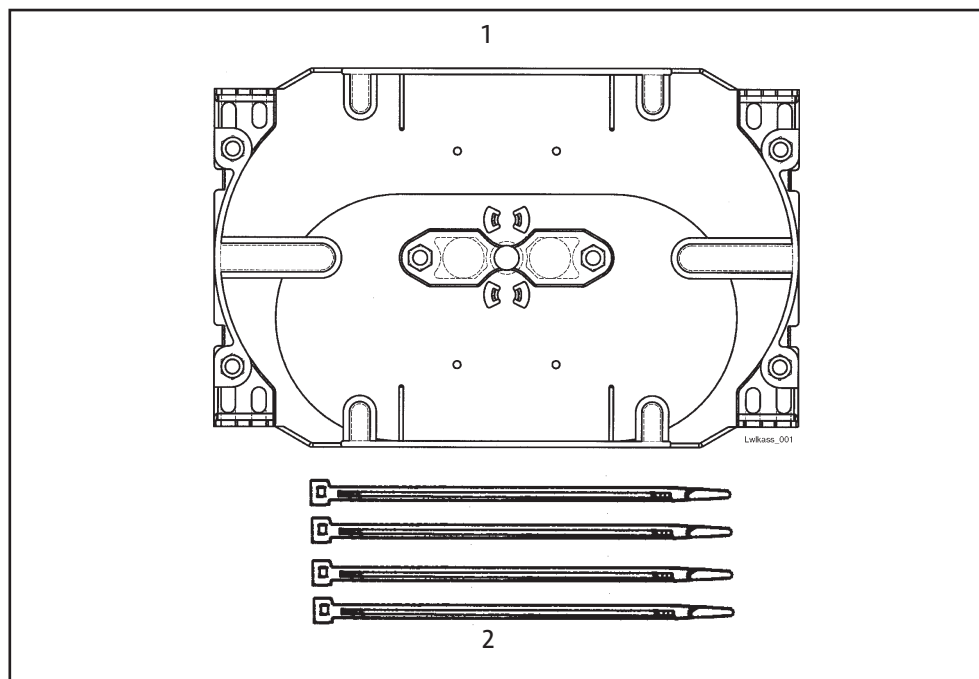


The cover must be latched onto the cover mounting for the purpose.





## 15 STANDARD CASSETTE INSTALLATION AND FIBER SPLICING



### Components

1. Splice cassette
2. Cable tie, approx. 2,4 x 92 mm

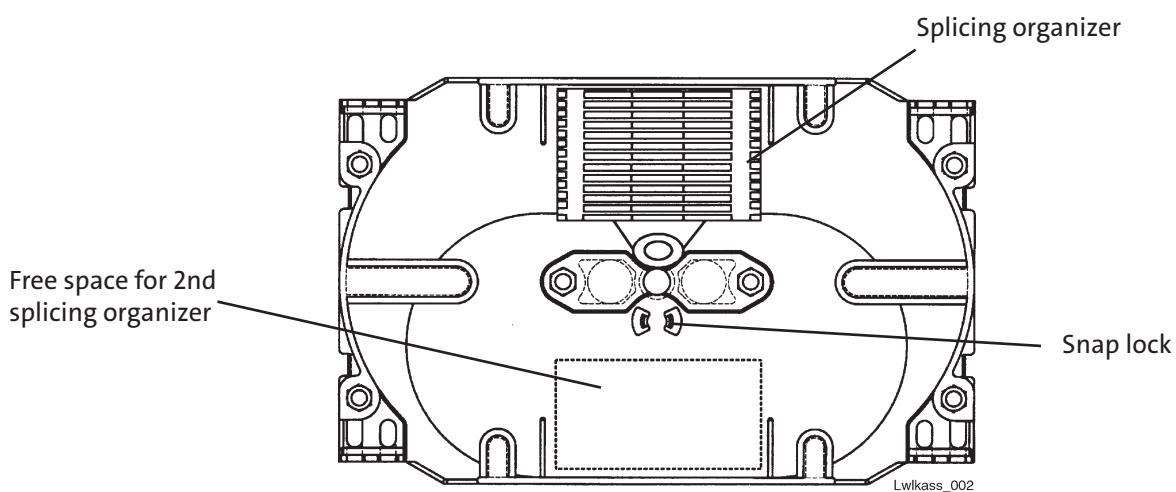
## Technical data

The capacity of the splice cassette depends on the splice type and can be taken from the following table.

| Capacity per<br>Cassette | Capacity per<br>Splicing organizer | Designation   | Ordering No.   | Explanation    |
|--------------------------|------------------------------------|---|----------------|----------------|
| 2                        | -                                  | Splicing organizer for 12x crimp<br>splice protector                        | C46197-A7-A69  | Pack. à 10 St  |
| -                        | 12                                 | Crimp splice protector  | C45057-Z1-H590 | Pack. à 150 St |
| 2                        | -                                  | Splicing organizer for 6x heat-shrink<br>splice protector for singel fibers | S46999-Z12-A1  | Pack. à 10 St  |
| -                        | 6                                  | Heat-shrink splice protector for single<br>fibers                           | S46999-A16-A1  | Pack. à 10 St  |
| 2                        | -                                  | Splicing organizer for 5x attenuation<br>splice or CamSplice                | S46998-A4-R1   | Pack. à 10 St  |
| -                        | 5                                  | Heat-shrink splice protector for<br>attenuation splices                     | S46999-A16-A8  | Pack. à 5 St   |
| -                        | 5                                  | CamSplice   | S46999-M17-C10 | Pack. à 6 St   |
| -                        | 5                                  | CamSplice ATC   | S46998-Z1-A31  | Pack. à 6 St   |

### Preparing the cassette and fiber buffers

- Press the splicing organizer into the splice cassette at the required position.
- Secure the splice cassette in the holder of the thermal fusion splicer (except with CamSplice).

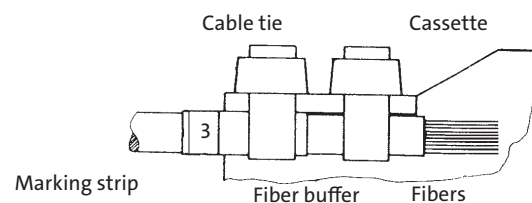


- Cut back the cable to a length corresponding to regional specifications and the closure or rack installation instructions. At least 1200 mm must be added on for the purpose of securing the fibers.

- Clean the fiber buffers (use white spirit)
- Cut back the fiber buffers (min 1200 mm)
- Clean the optical fibers (use cleaning cloth with isopropyl alcohol if necessary).

Wrap woven tape around the fibers in the cassette insertion area and fit marking strips if necessary.

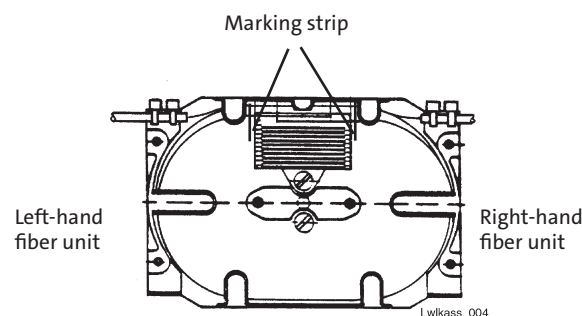
Secure fiber buffers to the cassette using cable tie and tighten the latter by hand. The fiber buffers must not be deformed.



- Insert the fiber reserve into the cassette with the largest possible bending radius.

### Splicing the fibers

Cut the left-hand fiber unit at the right-hand marking web and the right-hand unit at the left-hand web. Remove the fibers from the cassette.



When using a heat-shrink splice protector, slip the protector onto one of the fibers to be connected before performing splicing.

Clean, cut back and splice the fibers in accordance with the relevant specifications.

Slip the heat-shrink splice protector over the splice point and heat-shrink in the heater.

When using crimp splice protector, splice the fibers as per point 5.2.  
Lay the crimp splice protector in the crimping device, insert the spliced fibers and crimp.

When performing a mechanical splice with CamSplice, the installation instructions including in the packaging must be observed.

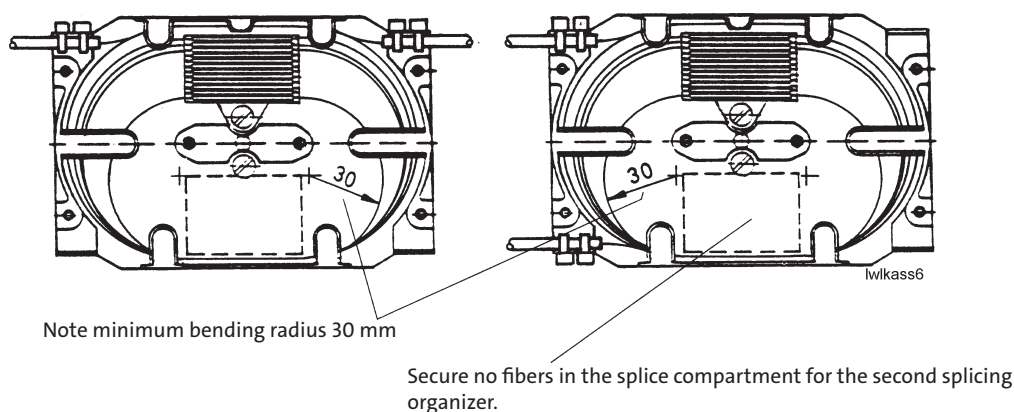
#### Securing the fibers

Insert the spare length of the spliced fibers into the cassette and engage the splice protector.

When splicing without a protector, carefully secure the fiber splicing point onto the center of the splicing organizer. Press the fibers gently onto the adhesive edges on the sides of the organizer. After splicing all the fibers, pour splice protection compound over the splicing organizer.

#### Important!

Secure the fibers with the largest possible bending radius and outside the marked area.



Place the ready spliced cassette in the closure or rack.

Important! Use the largest possible bending radius for the fibers.

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