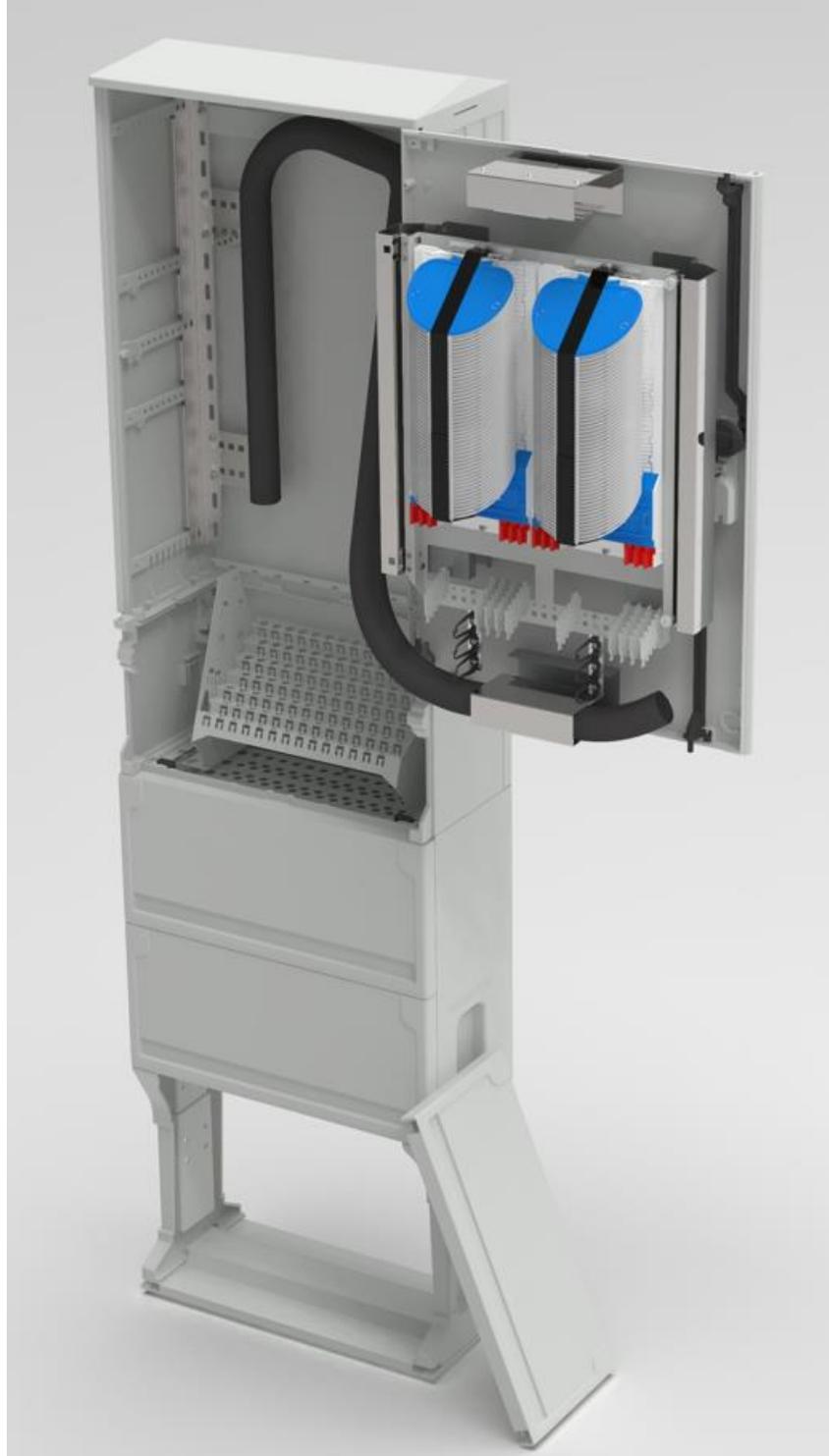


**HF-MSS-3/D**



## HFlexPoint Fiberglass Reinforced Plastic Fibre Optic Distribution Cabinet

### I. Application

The HFlexPoint HF-MSS-3/D Fiber Optic Distribution Cabinet is designed for outdoor use as a distribution node in optical access networks. The cabinet incorporates entries for drop cables, fibre units and blown minicables.

Features:

- termination of up to 1152 customer drop cable fibres (96 splice trays, 12 splices/tray)
- termination of up to 4 feeder cables/microducts with 16 mm maximum outer diameter
- termination of up to 98 drop cables/microducts with 12 mm maximum outer diameter
- performance of operational activities (measurements, splicing, etc.) in the service car (up to 5.5 meters of spare length of each fiber)

### II. Technical specifications

| Data                                   | HF-MSS-3/D   |
|--|--------------|
| Dimensions [mm] Width x Height x Depth | 530x1930x245 |
| Maximum number of splices              | 1152         |
| Number of feeder cable entries         | 4            |
| Number of customer drop cables         | 98           |
| Ingress Protection                     | IP44         |

### III. Components

Basic accessories of the HFlexPoint HF-MSS-3/D Fibre Optic Distribution Cabinet:

- |                                      |         |
|--------------------------------------|---------|
| a) Housing with key lock             | 1 set   |
| b) Splice tray (12 splices per tray) | 96 pcs  |
| c) Cable organiser UT-55             | 6 pcs   |
| d) Cable tie TK-9/3                  | 100 pcs |
| e) Cable tie TK-20/5                 | 100 pcs |
| f) Cable tie TKD-20/8                | 10 pcs  |
| g) Protective retractable conduit    | 2 m     |
| h) Foam cable entry                  | 1 pc.   |
| i) Spiral hose                       | 1 m     |
| j) Cable wrapper                     | 40 pcs  |
| k) Velcro tape                       | 2 pcs   |

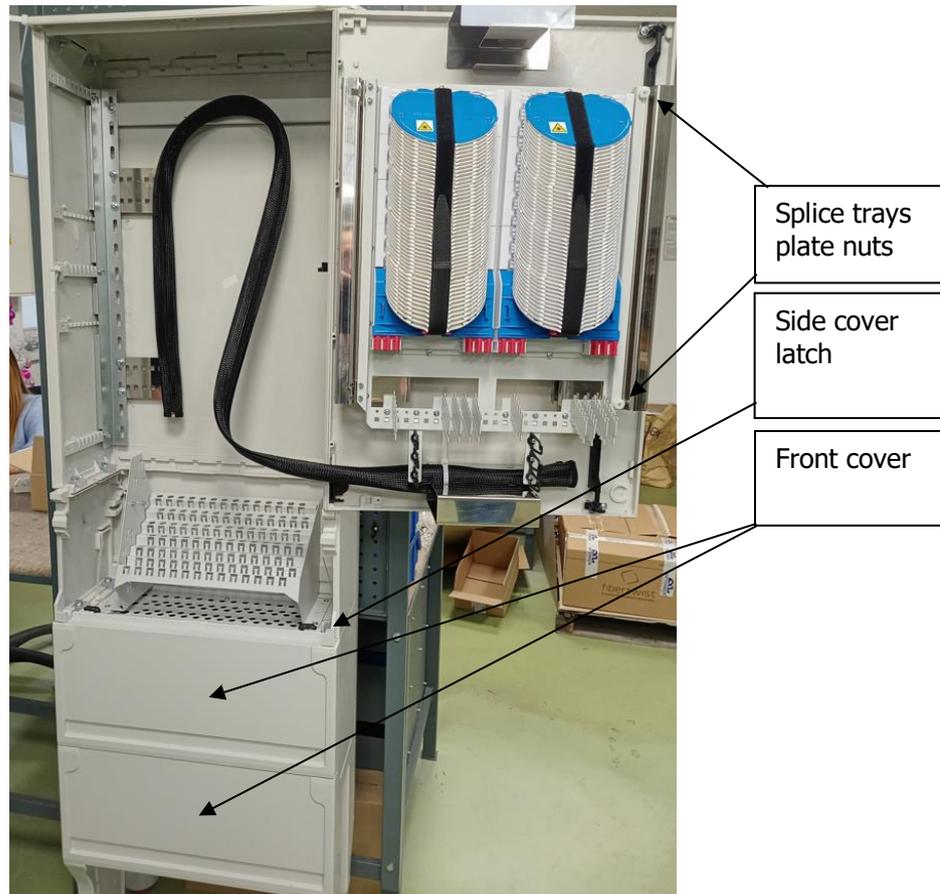
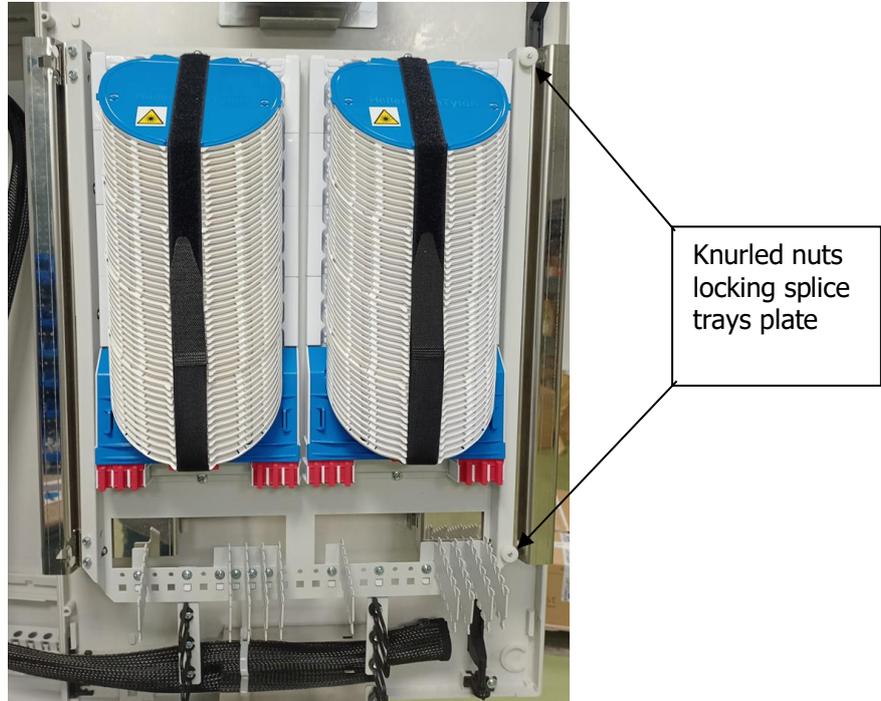


Fig.1. HFlexPoint HF-MSS-3/D Fibre Optic Distribution Cabinet.

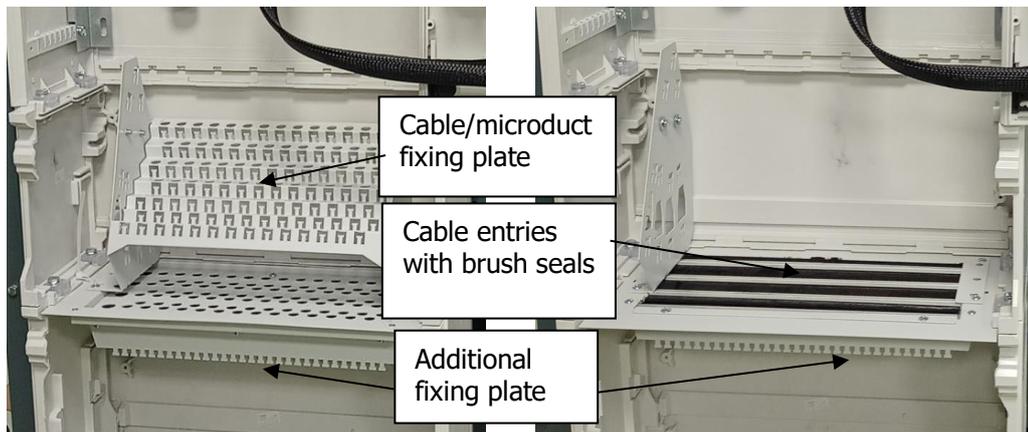
#### IV. Cabling procedure

1. Open cabinet door
2. In order to install pipes and cables in the cabinet, remove the front covers (they have side latches that should be folded towards the inside of the cabinet). The lower cover does not have latches [Fig.1.].
3. To open the splice trays plate, loosen the two nuts and swing the splice trays plate open [Fig.1 and Fig.2].
4. The cabinet accepts feeder cables and customer drop cables.
5. The entries for feeder cables are located on the left side of the cabinet, the customer drop cable (fibre units) entries are located on the right side of the cabinet. Both cable types can be attached to the cable/microduct fixing plate [Fig.5.] or inserted through the cable entries with brush seals [Fig.4.].
6. The cables/microducts can be fixed to the lower cable/microduct fixing plate [Fig.3, 4.].
7. Punch the foam cable entry to put the cable/microduct through and fill the foam plate with cables/microduct starting from the cabinet interior and progressing to the cabinet front keeping in mind that each following row is 20 mm shorter [Fig.6.]. In case the cable entries with brush seals are used push the cable through and fix it to the additional fixing plate [Fig.4.].

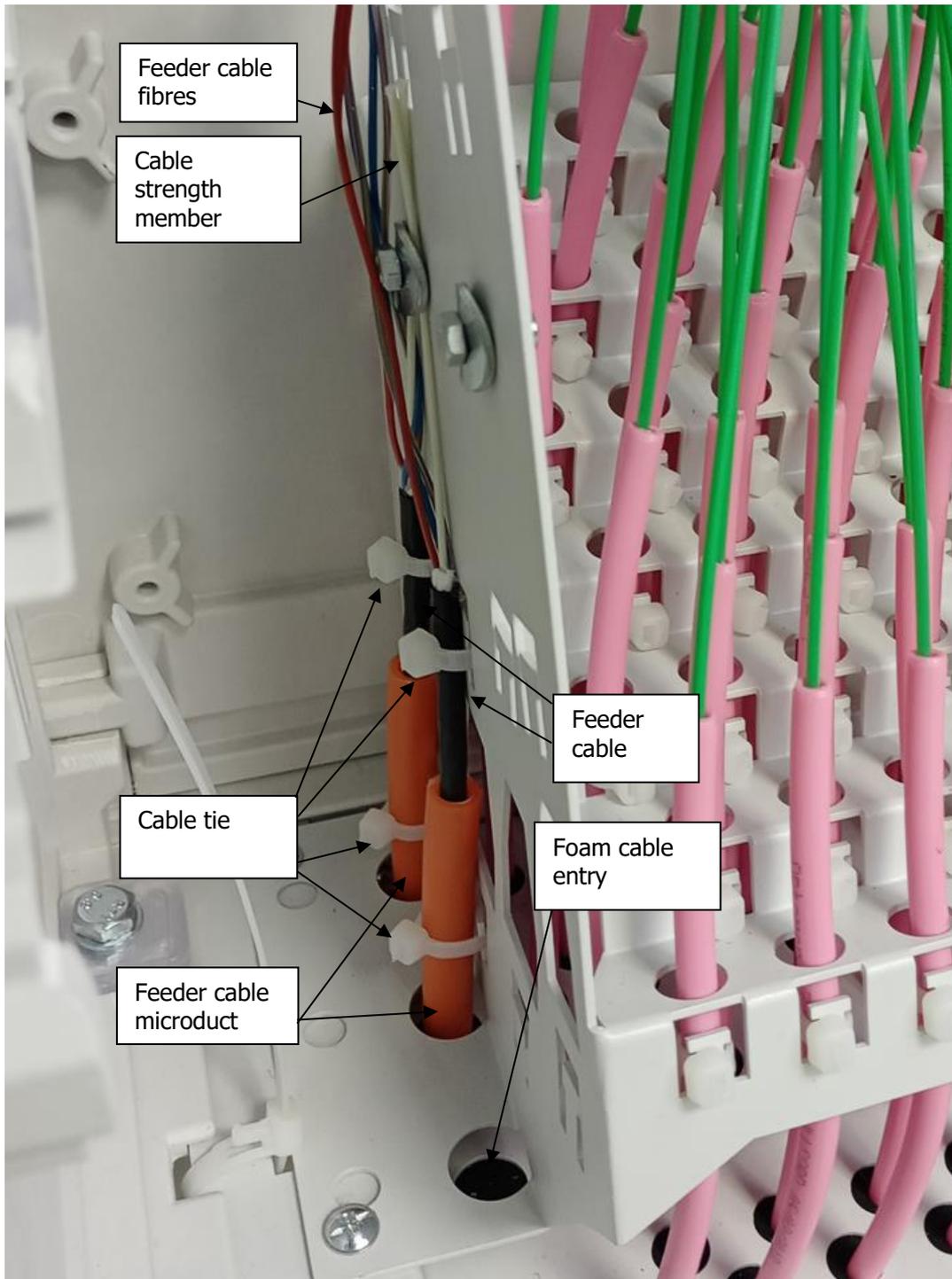
8. The subscriber tubes located the deepest in the cabinet should reach the protrusion on the cabinet back wall [Fig.6.]. At the end of each microduct a gas-block connectors can be installed. [Fig.6.].



*Fig.2. Locks for opening the splice tray plate and disassembly of the inner box.*



*Fig.3, 4. Cable/microduct fixing plate and cable entries with brush seals*



*Fig.5. Microduct/cable entry into the cabinet.*

9. Guide all cables/microducts into the cabinet.
10. Microduct lengths depend on their position in the cabinet. The longest microducts are located on the cabinet rear wall side, the shortest ones on the cabinet front side [Fig.6.].

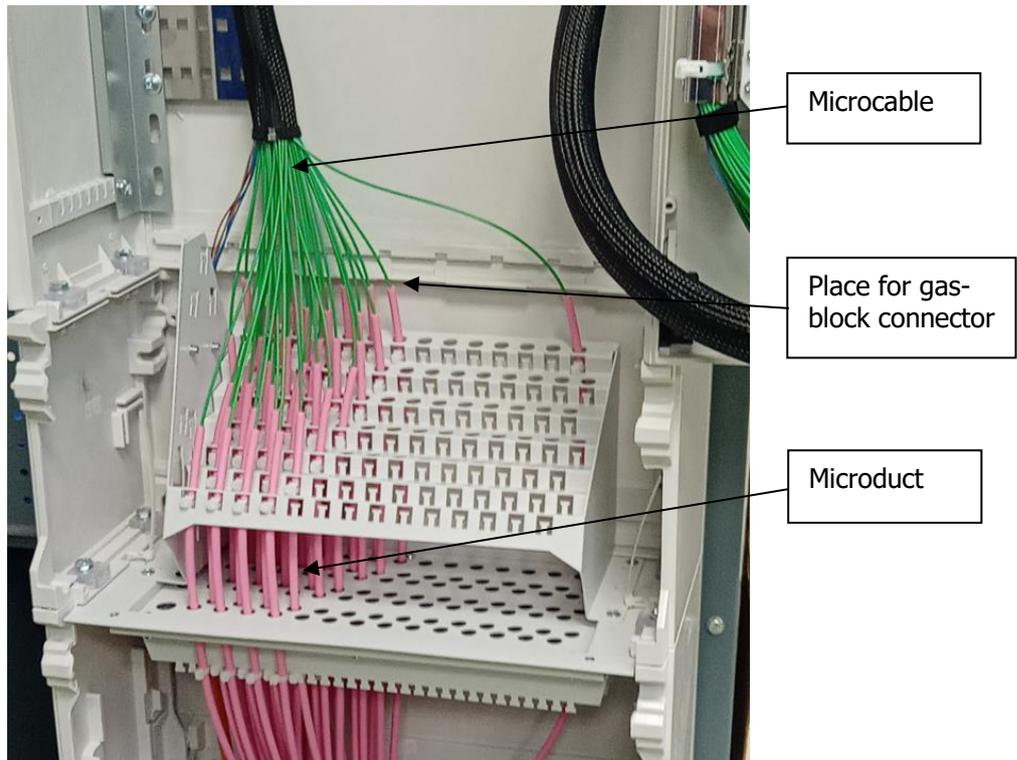


Fig.6. Microducts fixing and cutting to proper length.

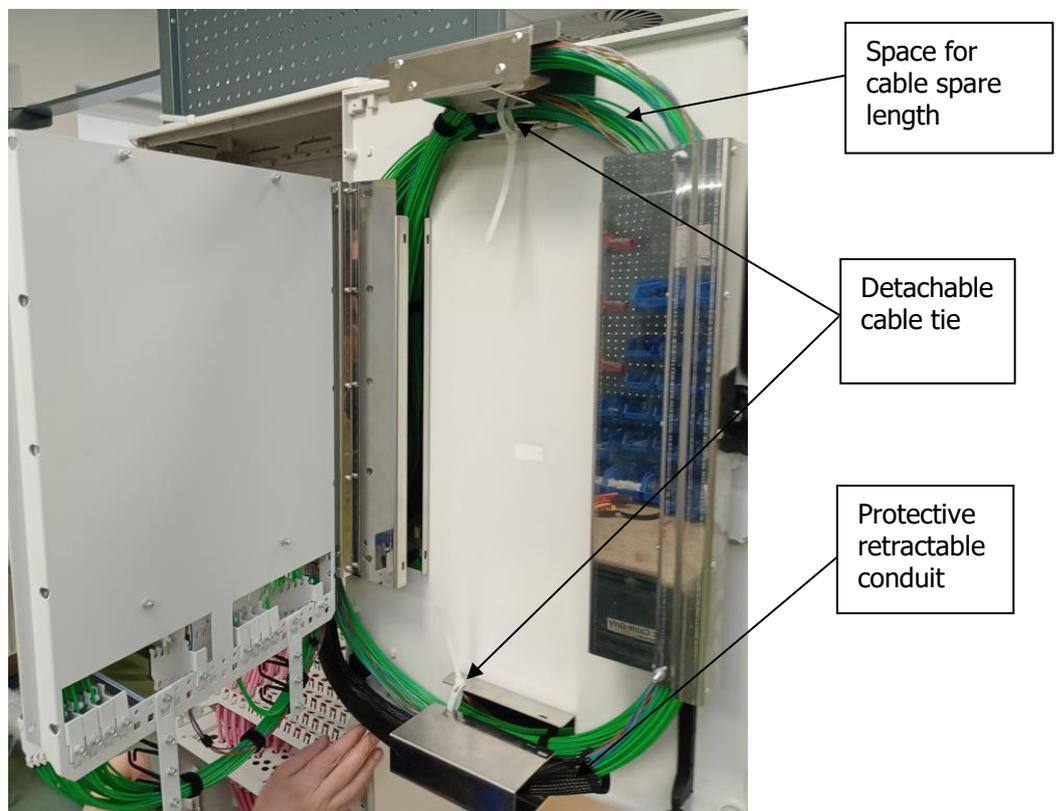


Fig.7. Disassembled inner box.

**HFlexPoint Fiberglass Reinforced Plastic Fibre Optic Distribution Cabinet**

11. The cabinet allows blowing, for example, in a car parked next to the cabinet. Prior to blowing customer drop microcables from cabinet side, connect to each microduct the appropriate section of microduct necessary to connect to the blowing head. To connect microducts use a straight connector. Once the blowing is completed, leave approximately 9.5 m of customer drop microcable, measuring from the straight connector. Disconnect and remove the section of microduct connected to the blowing head and the straight connector.
12. Route the customer drop and feeder microcable towards the protective retractable conduit and arrange approximately 5 m of spare cable length on the cabinet door [Fig.7.] (to do this, unscrew the knurled nut [Fig.2.] and open the inner box). Insert the cables into the inner box and secure with cable ties to the front fixing plate and to the splice trays mounting plate [Fig.8.]. Guide the fibres to the splice trays.

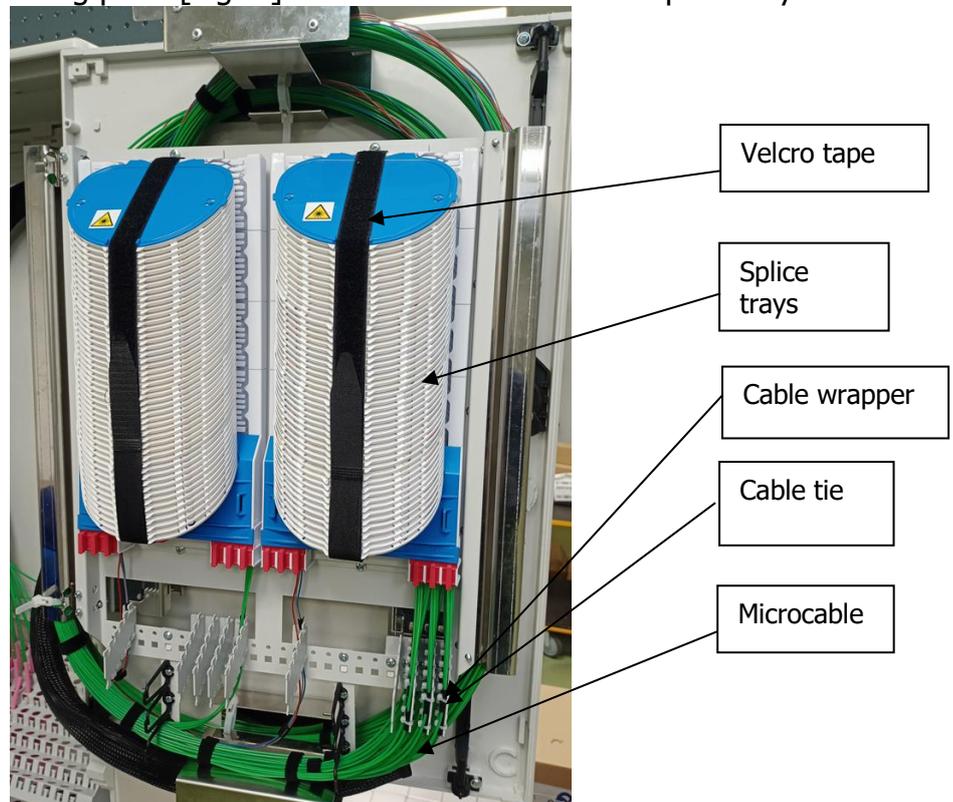


Fig.8. Routing cables to splice trays.

13. After all the tubes (cables) are arranged and fixed in the cabinet, close the splice trays plate and tighten the knurled nuts [Fig.2.].
14. When closing the door, make sure that the protective retractable conduit is not squeezed by the inner box (it should be placed under the inner box [Fig.7.]).
15. Cover the cabinet plinth with earth from the outside to make it stable.
16. Operations on splice trays are described in a separate manual.
17. Close the cabinet door

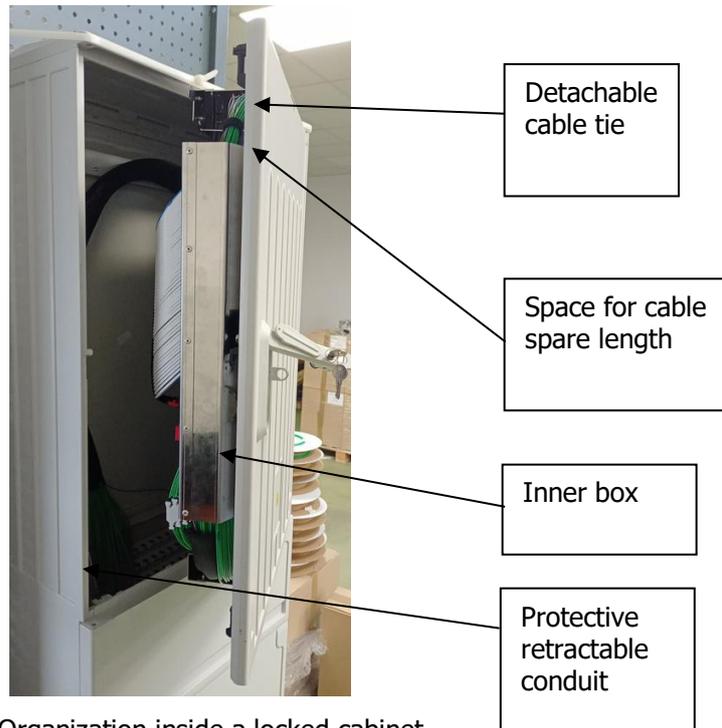


Fig.9. Organization inside a locked cabinet.

**Note 1:** Remove the front door to allow the inner box to be put on the ground to make splicing and maintenance works comfortable.



Fig.10, 11. Cabinet door disassembly