

# NAF19 CROSS-CONNECTION CABINET

## The installation of patch cords



### Introduction

NAF19 is a 900 mm wide, 300 mm deep and 2000 or 2200 mm high cross connection cabinet for 19" mechanics. It enables the termination, connections, and management of large quantities of fibers. The structure of the cabinet is very simple because it has no moving parts at all beside the doors. The cabinet is designed for preinstalled panels equipped with tail cables, but, if necessary, outdoor cables can also be brought into the cabinet, in which case the fiber splices are placed on the splice trays of the splice tray holder. Both, splice trays and splice tray holder, are accessories.

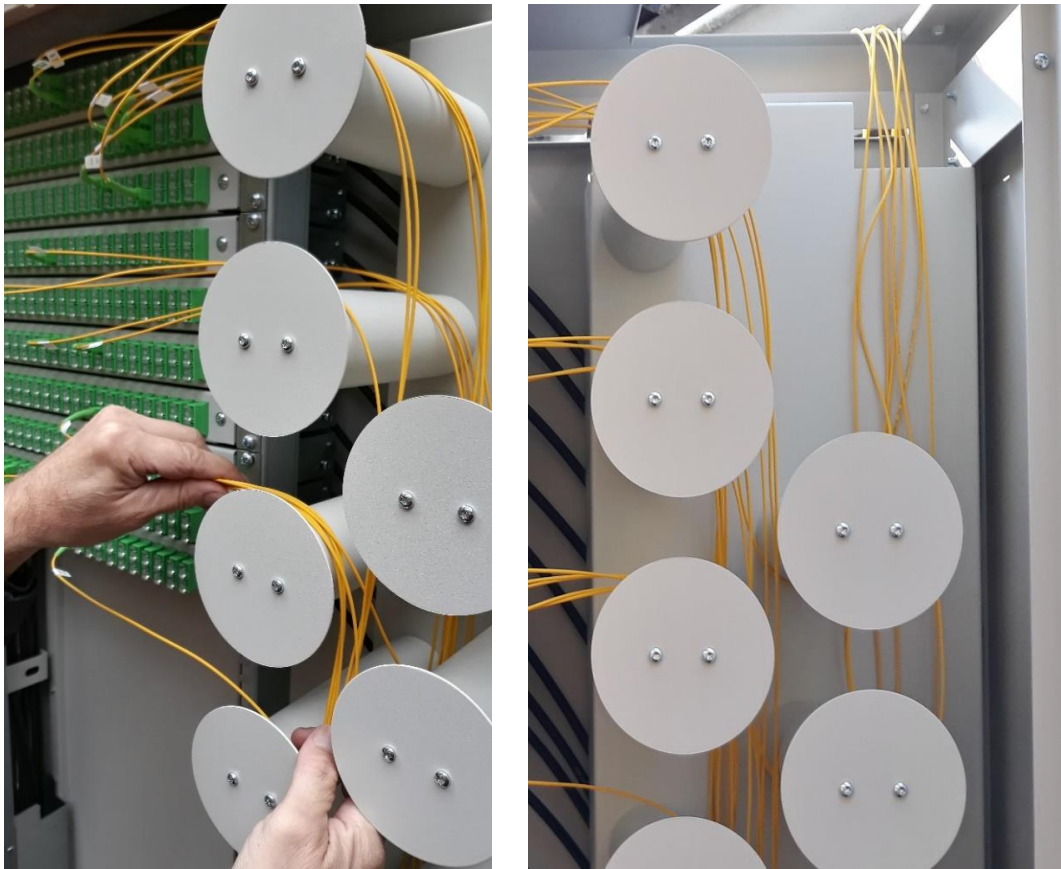
### Installation of patch cords in NAF19 cross-connection cabinet



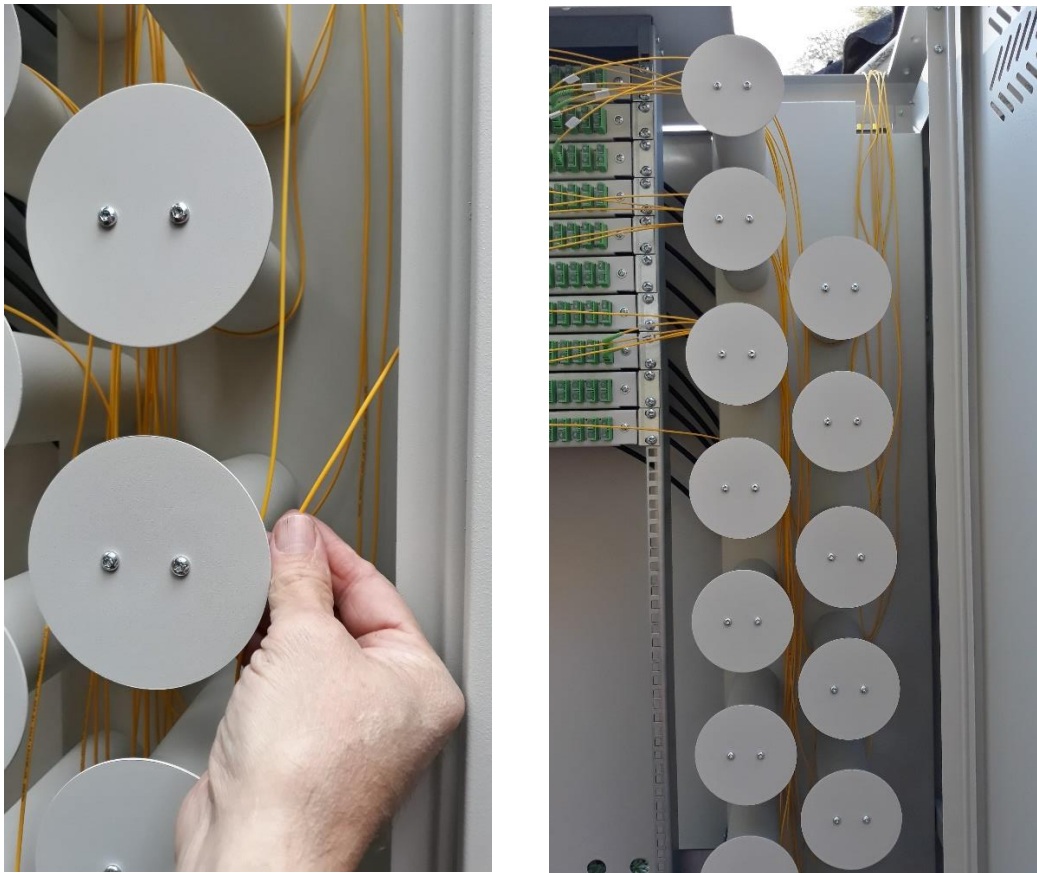
Preinstalled 19" panels with tail cables installed in a cross-connection cabinet.



All patch cords leaving the panels are directed to the right side of the panels and above the nearest fiber guide and in between the row of fiber guides. This way sufficient support and a sufficiently large bend radius are provided for the patch cords.



The patch cords coming from the panels are first routed over the nearest fiber guide and then straight down between the rows of guides. The other ends of the patch cords are taken out of the feedthrough on right hand ceiling of the cabinet and taken to the equipment cabinet, where they are connected to the active devices or to the termination panels of the cabinet.



The extra lengths of the patch cords in the cross connection cabinet are routed first down between the guide rows and then to the right side of the guides and directly out of the cabinet. In this case, the cables cross each other as little as possible.

Note, when installing the patch cords, care must be taken that they aren't installed too tensely in the cabinet, as this causes tension in the fibers and over time the fibers break!



If the patch cords are so long that their extra lengths cannot be stored in the cross-connection cabinet by placing a loop right at the bottom of the cabinet, additional loops are made for the cables. This is accomplished by first bringing the patch cords from the bottom of the cabinet all the way up, on the right side of the guides, and then back down between the guides for a sufficient length. After that, the patch cords are taken out of the cabinet from the right side of the guides.



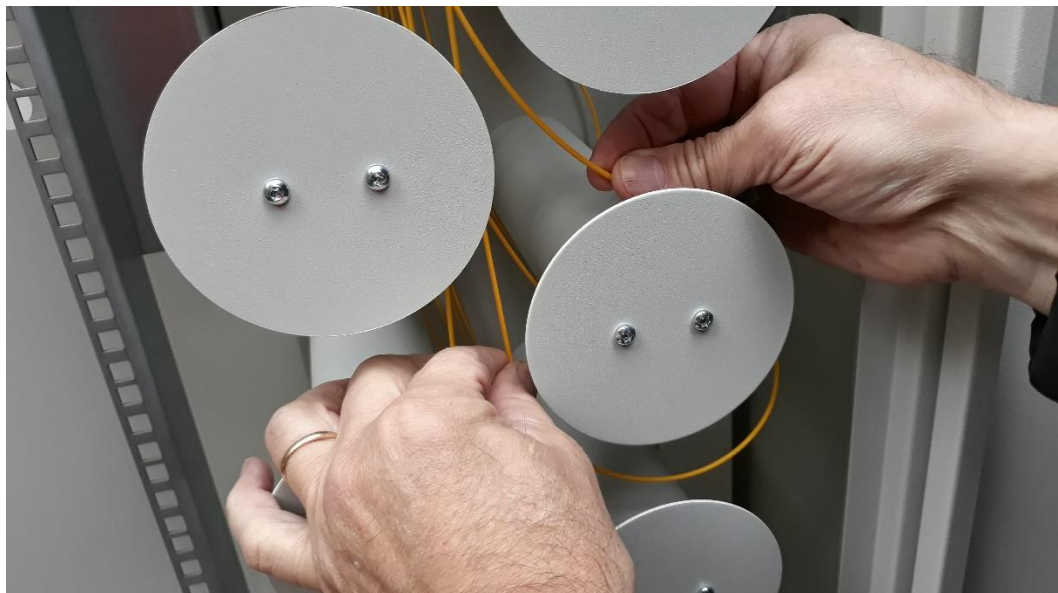
The patch cords going out of the XC-cabinet to the equipment cabinet.

### Installation of cross-connection patch cords in NAF19 XC-cabinet

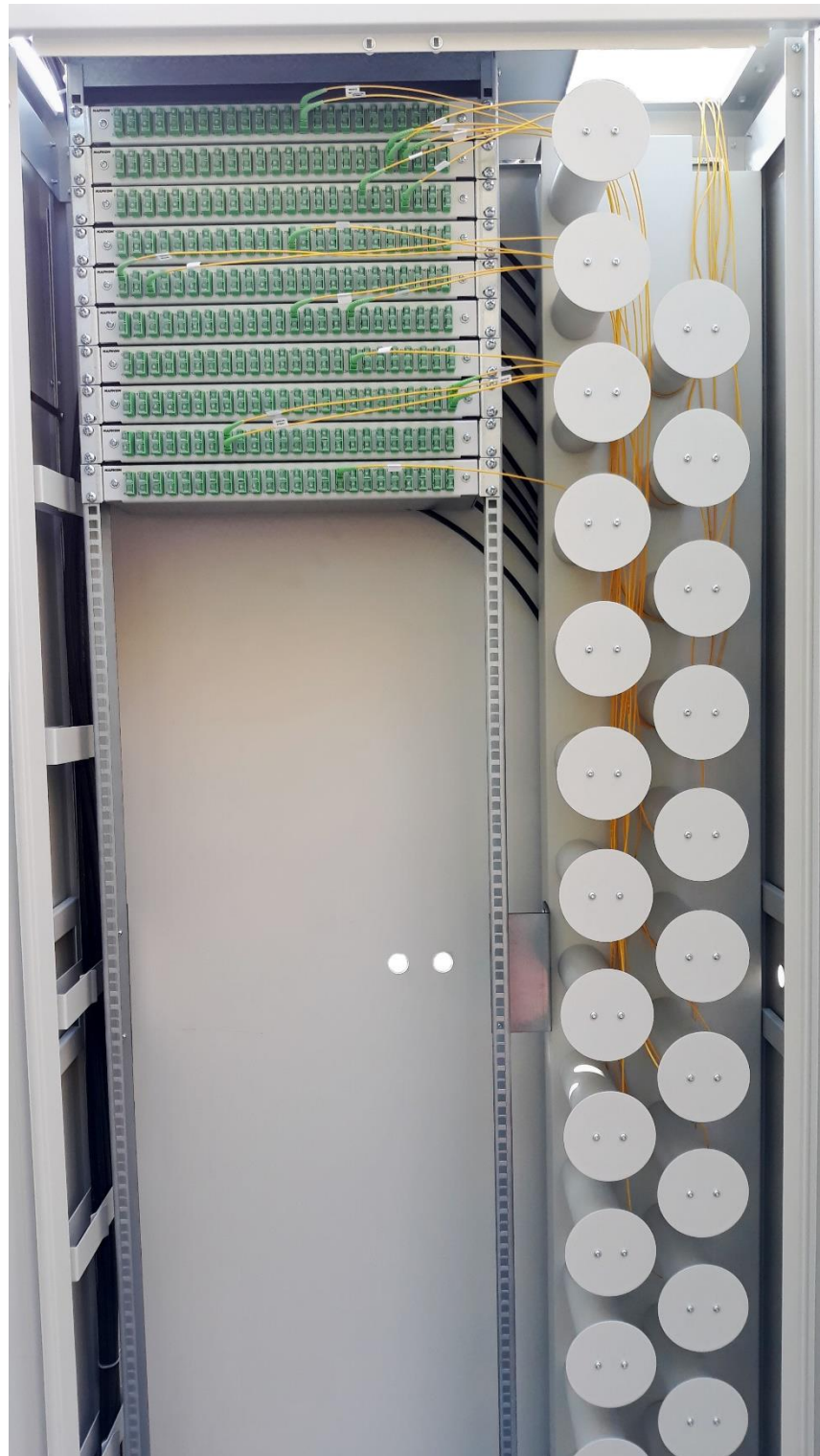
Cross-connection patch cords are patch cords that are placed inside the cabinet and connected from panel to panel or from panel to splitter panel.



One end of the patch cord is connected to a panel and the patch cord is routed over the nearest fiber guide and then between the rows of guides. The other end of the patch cord is connected to another termination panel or splitter panel and the same procedure is repeated.



The loop is placed around the nearest suitable fiber guide, taking care that the cable is not too tight.



There are patch cords leaving the cross-connection cabinet and there are cross-connections between panels.