

## NAF FTTH 12 METAL JOINT CLOSURE

### Installation instructions for direct buried cables, 7263439



#### Introduction

NAF FTTH 12 metal joint closure can be installed directly in the ground or in a manhole. It's a compact joint closure for extending and branching FTTH cables. Due to the mechanical cable glands, it is suitable for both direct buried cables and microducts.

### Properties of the joint closure:

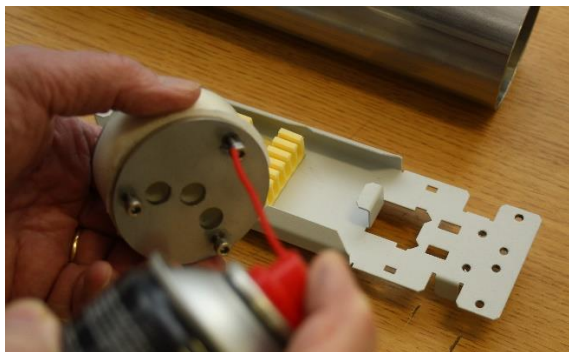
- A butt type joint closure consisting of round metallic protective shell, mechanical cable gland and splice tray.
- Suitable for various FTTH cable structures and for microducts with outer diameter of max. 10 mm
- Capacity for 12 splices
- The mechanical cable gland has three 10 mm diameter openings for cables to be brought in and one cover plug to close the third grommet.
- Simple and strong structure
- Measures 285 x Ø 70 mm
- Material is acid-proof stainless steel.
- IP 68. Designed and manufactured in Finland .
- Can be installed directly in the ground.

### Equipment

- protective shell
- mechanical cable gland
- splice tray with plexiglass cover
- equipment bag
  - o splice holder for 24-fibers, 1 pc
  - o grounding connectors, 2 pcs
  - o corrugated arc clamps, 3 pcs
  - o mounting screws, 7 pcs
  - o cable ties 2,5 x 100 mm, 6 kpl
  - o cleaning wipe, 1 pc
  - o silica gel bag 25 g, 1 pc
  - o cover plug, 1pc

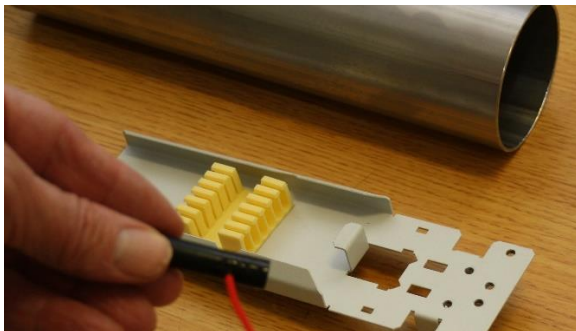
### Importing FTTH cables into the joint closure and splicing

Clean the cables from about 120 cm.



Loosen the screws of the mechanical cable gland before bringing in the cables.

Spray silicone spray on the screws of the mechanical cable gland and on the screw holes on the back, so that the acid-steel fixing screws do not get stuck.



If there are only two cables in the joint during the initial installation or in general, first install the cover plug that comes with the joint in the middle opening of the cable gland. Before installing the plug, spray it with silicone spray as well.



If there will be three cables in the joint closure, place the feeding cable to one of the pass-throughs on the side.



Spray the cables with silicone spray.

Push the cables through the holes of the mechanical cable gland.

Mark the peeling points onto the cables and peel the cables. If you are installing FTTH cables with central tube structure like FYO2PMU, FYO2PMU Mini or FYO2RMU 3,5 kN **DO NOT CUT THE CENTRAL TUBES!**

Below are pictures of the cables above.



FYO2PMU ja FYO2PMU Mini



FYO2RMU 3,5 kN

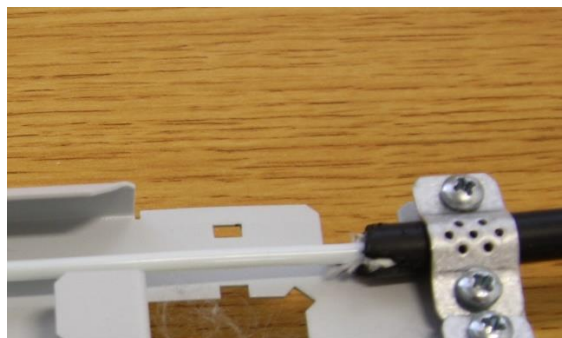
Regardless of the cable type, the length to be peeled is 100 cm.



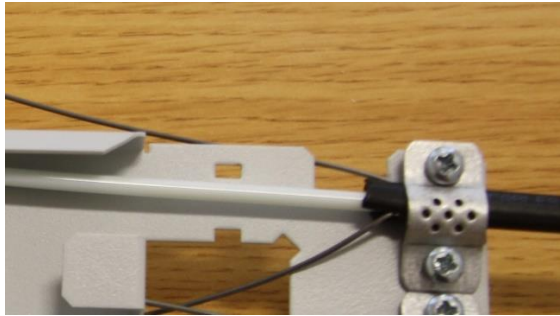
The cables are pushed through the holes in the cable gland, after which the cables are peeled.

Place the splice tray under the cables so that the distance between the edge of the splice tray and the mechanical cable gland is about 30 mm.

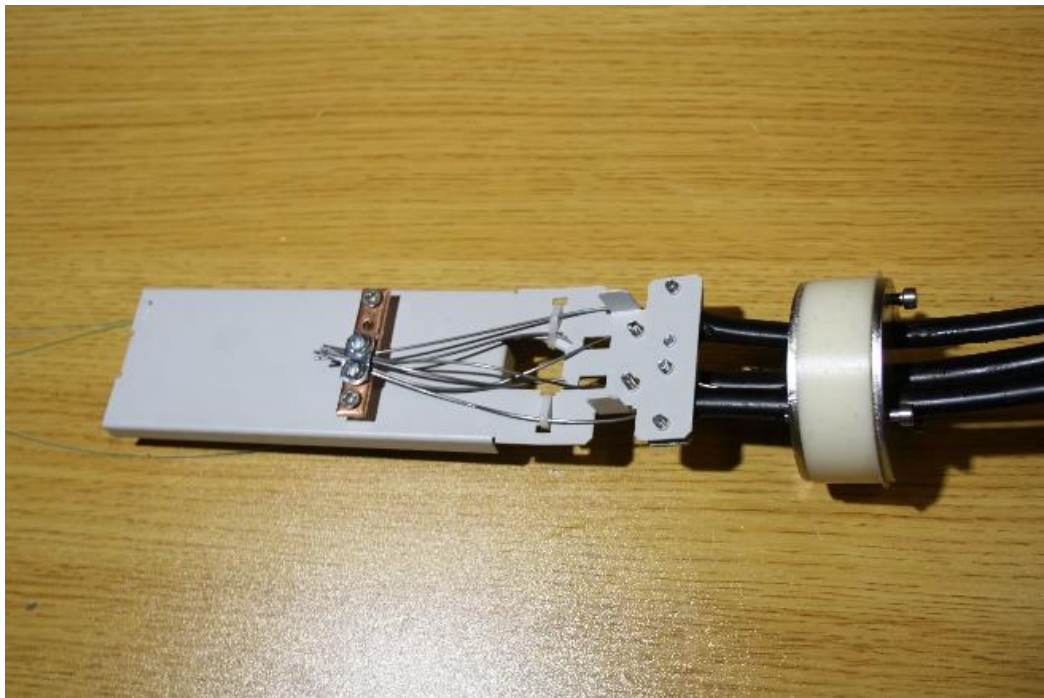
Do the initial tightening with the screws of the cable gland. Tighten the screws enough to hold the cables in place.



Fasten the cables to the splice tray with corrugated arc clamps.



If the cable has steel pull wires, guide them below the splice tray. If, on the other hand, the pull wires are non-metallic, cut them off at the base of the sheath as shown in the previous picture.

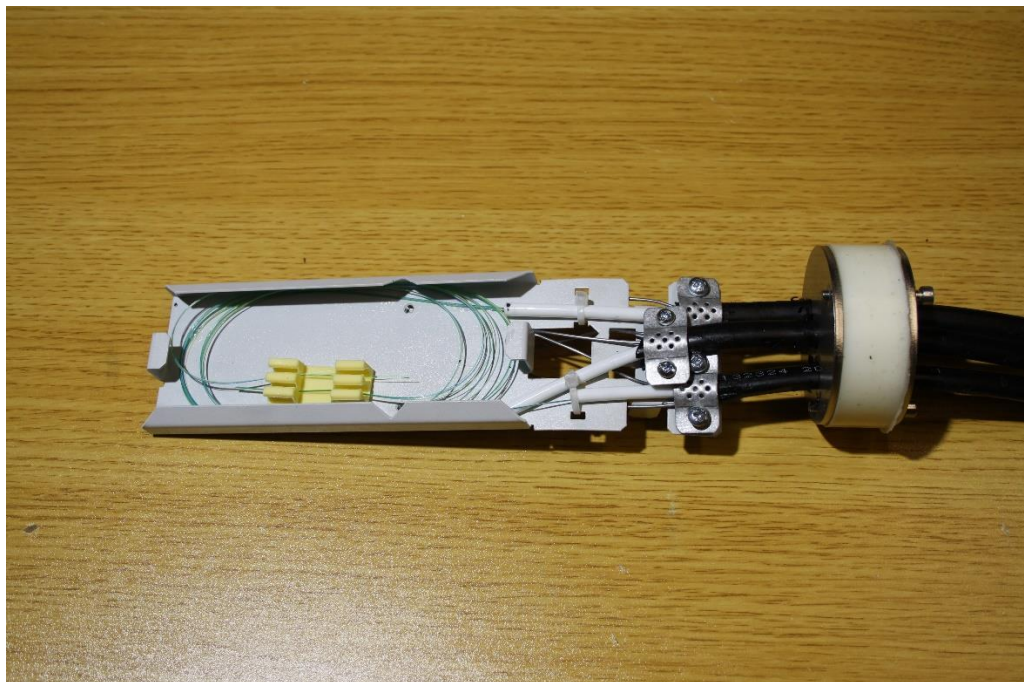


Attach the steel pull wires of the cables to the grounding rail below the splice tray and cut off the excess lengths of the wires.





Mark the peeling points on the central tubes of the cables and cut the central tubes by making incisions around them with a cutting tool and bending the central tubes so that they come off. Pull the central tubes away from the fibers and clean the fibers from gel.



Place the fibers on the splice tray, cut off the excess lengths and splice the fibers.

Protect the fibers by attaching a plexiglass cover over the splice tray. Add a silica gel bag to the joint closure.



Push the inner part of the joint with the grommets inside the protective shell of the joint closure.



Push the inner part of the joint with the grommets deep enough that the tightening screws of the mechanical cable gland remain inside the edge of the protective shell. Tighten the screws of the mechanical cable gland evenly, i.e., first each one until they tighten a little. Also check that the grommet is straight.

After this, do the final tightening but avoid over-tightening the screws. Suitable tightening is when the sealing material is slightly visible on the edges of the grommet and around the cables.