NAF CABLE GLANDS

INSTALLATION INSTRUCTIONS

2 x 20 mm

4 x 15 mm

2 x 15 mm + 3 x 10 mm

6 x 10 mm

Introduction

NAF cable glands are used to bring in fiber optic cables to NAF general joint closures and to seal them. The maximum outer diameter of the cable can be 20 mm when you are not using shrinks. Larger cables are taken into the joint closure using cable shrinks and branching pieces.

There are four different version of NAF cable glands:

- 2 x 20 mm
- 4 x 15 mm
- 2 x 15 mm + 3 x 10 mm
- 6 x 10 mm

The mechanical NAF cable glands have hole blanks for cables. The holes are opened by drilling during installation.

Opening the cable glands

The cable gland is opened with a drill, using the appropriate metallic drill bits**. It is important to notice that the size of the drill bit is at least 2 mm smaller than the outer diameter of the cable.**

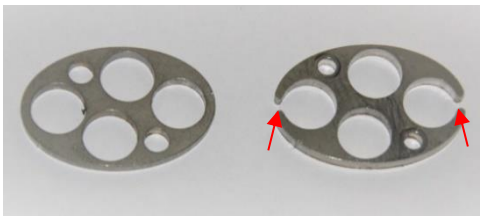
The cable gland is opened with a metal drill bit at least 2 mm smaller than the outer diameter of the cable. In the images, the hole blanks are opened with a 12 mm drill bit for the 96-fiber FZVD2PMU Flex direct buried cable with an external diameter of 14.8 mm.

The recommended drill bit sizes for different direct buried cables with different outer diameters (Nestor Cables):

-	FYO2PMU Mini 4/6/12 x SML	5 mm
-	FYO2PMU 4/6/12/24 x SML	8 mm
-	FYO2RMU 3,5 kN 4/6/12 x SML	8 mm
-	FYOVD2PMU 6/12/24 x SML	10 mm
-	FYOVD2PMU 48/96 x SML	12 mm
-	FZOMVDMU-SD 24/48 x SML	13 mm
-	FZOMVDMU-SD 96 x SML	15 mm
-	FZVD2PMU Flex 24/48 x SML	10 mm
-	FZVD2PMU Flex 96 x SML	12 mm
-	FZVD2PMU Flex 192 x SML	14 mm
-	FZVD2PMU Flex 288 x SML	15 mm
-	FZVD2PMU Flex 384/432 x SML	17 mm
-	FZ4RMU Flex 3,5 kN 12 x SML	6 mm
-	FZ4RMU Flex 3,5 kN 24/48/96 x SML	8 mm
-	FZ4RMU Flex 3,5 kN 192 x SML	11 mm

In the case of mid span access, the cable glands need to be prepared in the following way:

Mid span access and the installation of cable glands are described in the installation instruction for NAF GJC 48/96-f.

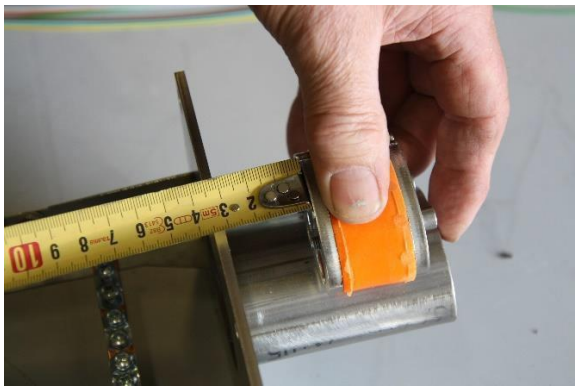


If using XOKO cable glands, dismantle the cable gland and make notches on both sides of the holes in the metal parts.

For NAF cable glands, this procedure does not need to be performed

Split the sealing piece of the cable gland with a sharp knife

The position of NAF cable glands in NAF general joint closures



NAF cable glands are placed in the joint closure so that their tightening screws are not outside the oval pass-through tube. The recommended position is 5–15 mm inside the oval pass-through tube.

The sheaths of the cables are brought through the cable glands at a length of approximately 5 cm, allowing the sheaths to emerge inside the joint closure.

The installation of cables through the cable glands

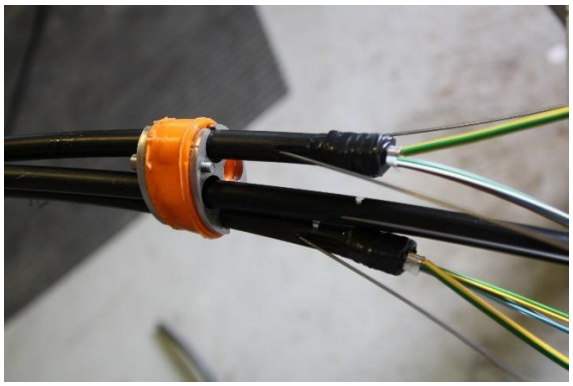
Clean the cables for about 15 cm more than the peeling length.

Peel the cables, but do not install the grounding wires at this point.

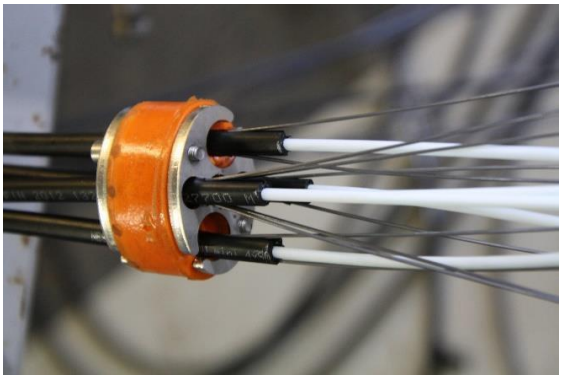
In case there are metallic strength members in the cable, note, that they emerge 5 cm before the cable sheath. Turn the strength members straight forward and press them against the surface of the cable.

Push the cables through the cable gland.

Connect the grounding wires.



Direct buried cables have been brought through a 4-hole cable gland and two have already been fitted with grounding wires.



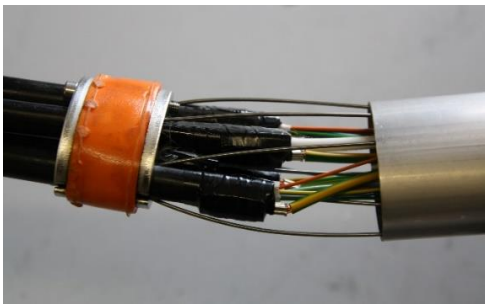
FYO2PMU Mini FTTH cables have been brought through a cable gland.

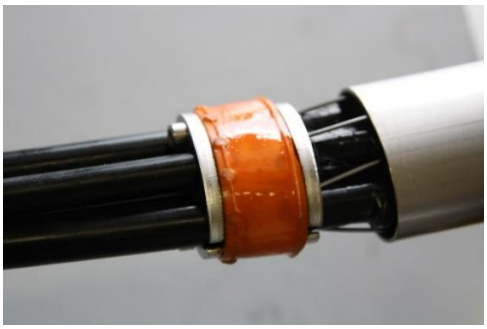
The cable sheaths must come about 5 cm through the cable gland. Also note that the metallic strength members emerge from the sheath after they have passed the cable gland.

The installation of cables and cable glands to the joint closure

It is recommended to use silicone spray in the installation of cable glands. Spray it on the screws of the cable gland and on top of the cable gland seal. Also spray it on the cable.

Note. Silicone spray is not included in the normal accessories of the NAF general joint closures.



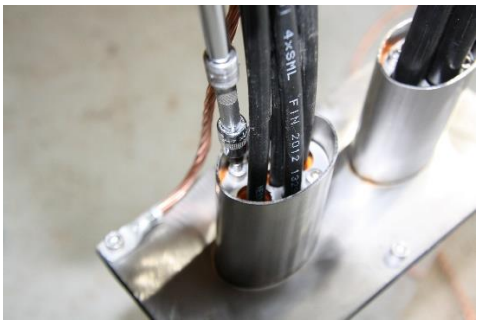


Guide the cables with fibers, steel wires and grounding wires as a bundle inside the joint closure.

Push the cable gland with cables inside the oval pass-through at a depth of 5 to 15 mm and tighten the screws until the cable gland remains in place.

Note. Always tighten manually to prevent screws or their counterparts from breaking.

Tightening of the cable gland screws



Check the tightness of the screws in the cable glands using hand tools.

It is very important to note **that the screws are not tightened too much,** as this will reduce the properties of the seal!

The sealing material should not penetrate out of the openings or at the edges of the cable gland.