

Installation Manual

LWL Connect closure VM 60/95 for cutted and uncutted FO cable and FO pipes



Parts list:

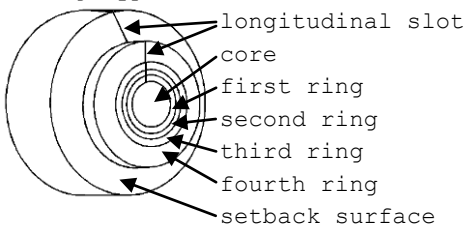
- 1 closure body, bottom half-shell with the cable tray and the strain relief already installed
- 1 closure body, top half-shell
- 4 Plug
- 4 Folding Screw
- 4 slotted white plastic washer
- 2 long circumferential seal
- 2 short circumferential seal
- 8 cable tie 4 x 100 mm, 4 x 200 mm
- 1 container with lubricant
- 1 cleaning tissue
- 1 dry
- 14 screw M5 x 25mm stainless steel/Niro
- 14 M5 washer stainless steel/Niro
- 1 wrench
- 1 installation manual

This installation requires additionally a standard 8 mm wrench for the M5 screws.

Prerequisite: General experience with FO cable closure installation required!

"Cable" means both: FO cable and FO pipes.

Plug type 1:



Cable diameter	Work step
5.5 - 7.4 mm	tear out the core
7.5 - 9.2 mm	tear out all of the above and the first ring
9.3 - 11.5 mm	tear out all of the above and the second ring
11.6 - 14.1 mm	tear out all of the above and the third ring
14.2 - 17.5 mm	tear out all of the above and the fourth ring

Special instructions to make this closure watertight:

- 1.) When tearing off the rings from this Plug, it is important, that they are removed complete and without flashes left behind.
- 2.) Remove just as many rings as needed so that the Plug fits very tight around the cable.
- 3.) Lubricate all parts as required. Lubricate well. Rather lubricate too much than too less.
- 4.) Try to not lubricate the threat of the Folding Screw and the thread of the closure body.
- 5.) Always when fastening plastic, it might yield a bit over time. Therefore it is required that 1 hour (more time is even better) after the installation, the steps 27 and 30 are repeated.

Installation Instructions:

- 1.) Installation should be performed only by personnel experienced with FO cable closures.
- 2.) It is recommended to start by placing all parts within the top half-shell of the closure body.
- 3.) Clean the cable coats.
- 4.) Lubricate the cable coat at the position where the Plug will come to be.
- 5.) Lubricate the inner surface of the Plug.

- 6.) Lubricate the longitudinal slot of the Plug.
- 7.) Pull the Plug open and put over the cable. The side with the setback surface shall face outwards.
- 8.) Bend the metal strain relief sheets tight around the cable coats. Additionally, wrap a cable tie around and tighten it very strong. Depending on the cable diameter, use either the 100 mm tie or the 200 mm tie.
- 9.) Remove all the parts above the cable tray, install and mark the reserve loops and put all the parts back on the cable tray.
- 10.) Make the splices. FRIEDL FO Splice Cassettes 2 x 12 are stackable. Up to 7 will fit.
- 11.) Screw the cover onto the top Splice Cassette.
- 12.) Lubricate the cable coat at the position where the FXA Plug will come to be.
- 13.) Lubricate the inner surface of the Plug.
- 14.) Lubricate the longitudinal slot of the Plug.
- 15.) Lubricate the entire left side and the entire right side of the Plug.
- 16.) Position the Plug so it touches the closure entry from outside.
- 17.) Twist the Plug so its slot is on the right side.
- 18.) Put the slotted white plastic washer onto the setback surface of the Plug.
- 19.) Twist the washer so its slot is on the left side.
- 20.) The 2 slots shall be on opposite sides. One left and one right. Not on top and bottom.
- 21.) Lubricate the washer.
Except: Try to not lubricate the thread of the closure body.
- 22.) Install the 2 long circumferential seals.
- 23.) Install the 2 short circumferential seals with its marker facing top.
- 24.) Lubricate the circumferential seals where they touch the Plug.
- 25.) By now the entire Plug and the washer should be well lubricated.
Except: Try to not lubricate the thread of the closure body.
- 26.) Install the top half-shell of the closure body.
- 27.) Tighten the screws around the closure body with 10 Nm.
- 28.) Lubricate the front side of the Folding Screw. The front side is the side that will press on the washer. Try to not lubricate the thread of the Folding Screw.
- 29.) Put the Folding Screw over the cable, close it, put it into the opening of the closure body.
- 30.) Tighten the Folding Screw with 10 Nm.

After about 1 hour
(more time is even better)
it is required to repeat
steps 27 and 30.



Re-Opening Instructions:

Installation should be performed only by personnel experienced with FO cable closures.
Untighten the Folding Screws.
Tighten the screws of the closure body.

Re-Closing Instructions:

Installation should be performed only by personnel experienced with FO cable closures.
We recommend using new replacement parts: At least:

Plug	long circumferential seal
Folding Screw	short circumferential seal
slotted white plastic washer	container with lubricant

If the need for water tightness is no criteria, intact sealing parts may be reused.
Follow the original Installation Instructions.