

# LoviX® R50

## Installation instruction



Application	Medium voltage straight joint for polymeric cable
Standard	HD 629-1 S3
Voltage class	6/10(12)kV, 12/20(24)kV
Conductor range	95 - 240 mm <sup>2</sup>
Conductor material	Aluminium, copper
Conductor type	Round solid, round stranded, round stranded compact
Insulation range	Ø 19 - 32 mm
Outer sheath range	Ø 24 - 50 mm



### General remarks

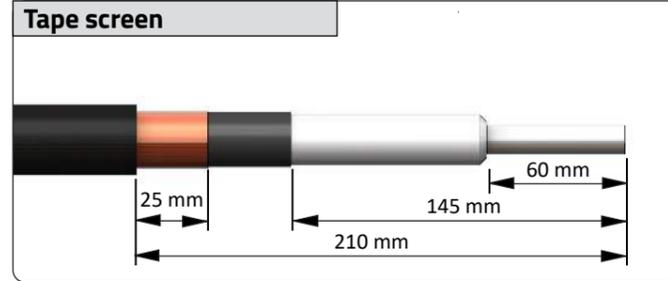
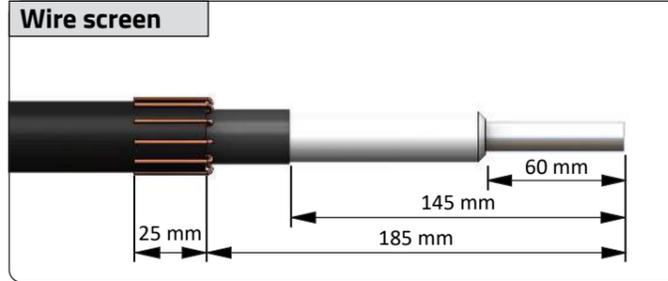
-  Follow any **safety instructions** issued by the network administrator and/or your employer!
-  Make sure the connection stays **dry and clean** all through the assembly!
-  This instruction is meant as a guideline for **trained and certified jointers**. Knowledge of medium voltage technology and experience in cable preparation should be present!

*Disclaimer: Lovink EnerTech takes the utmost care in the production and assembling of this installation instruction, but can in no way guarantee the accuracy or completeness. Lovink EnerTech accepts no responsibility for damage of any kind caused by not following the installation steps described in this instruction. Lovink EnerTech reserves the right to modify the contents of this publication or remove parts at any time without having to give notice.*

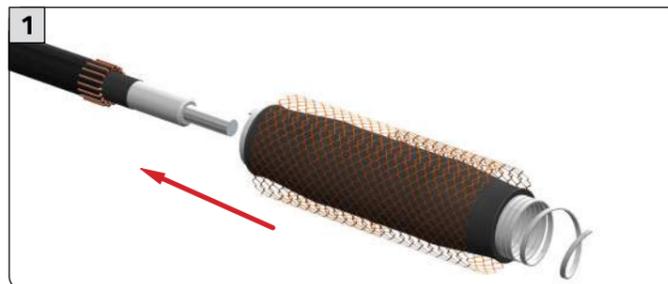
## 1 Cable preparation

⚠ **Always** clean outer sheath of each cable end for 50 cm

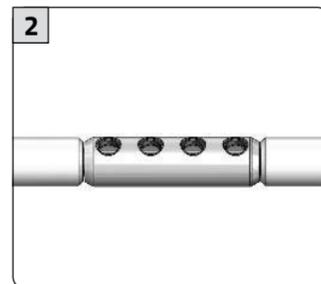
⚠ **Bevel edge** on insulation layer (XLPE/EPR)



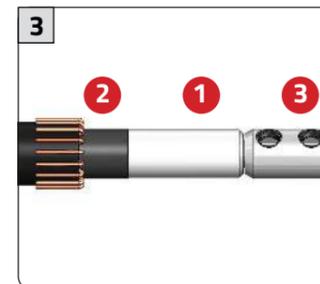
## 2 Joint body and connector



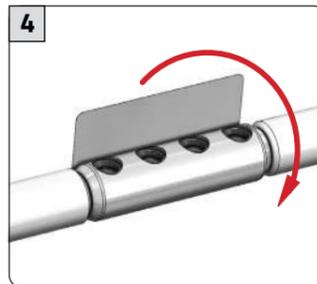
Pre-park the joint body and earth screen sleeve onto a cable end.



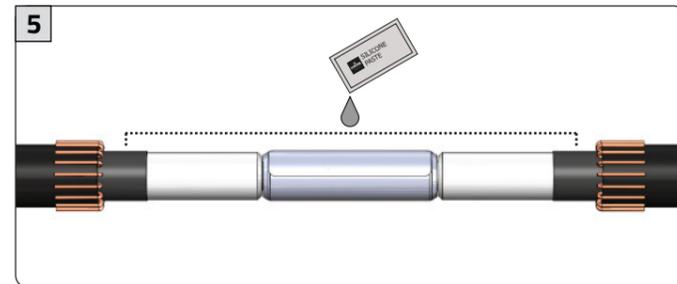
Fit the connector according to the instruction supplied with the connector.



Clean the cable insulation first, second the semi-con layer and connector with a Lovink wet cleaning tissue.



Cover the holes of the connector with the aluminium tape pad.

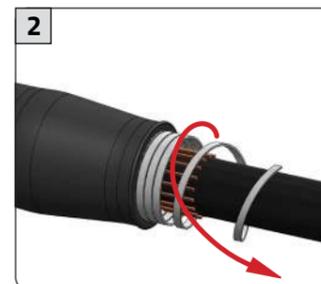


Lubricate both cables and connector with Lovink silicone paste.

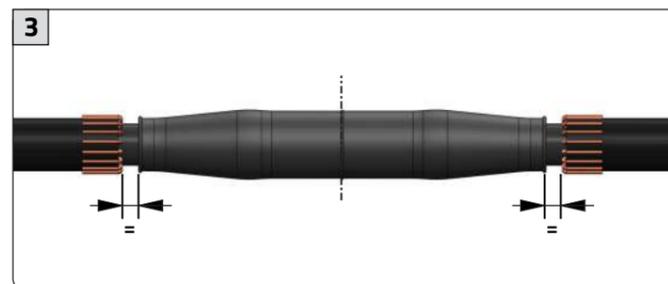
## 3 Assembly of joint body and earth screen



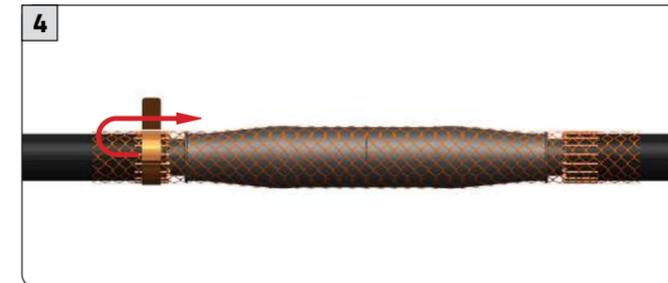
Position the joint body over the cable and connector.



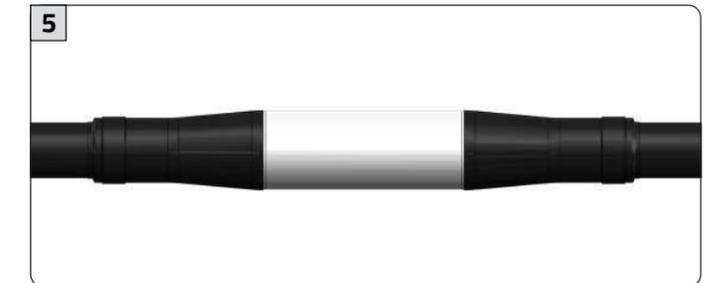
Remove the spiral from the joint body by pulling and unwinding the spiral cord counter-clockwise.



Check if the joint body is centralised relative to the cable assembly, adjust if necessary. Remove the spiral from the cable and clean the outer sheath with a Lovink wet cleaning tissue.

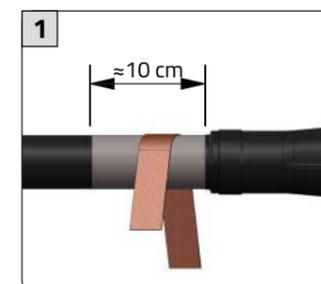


Position and stretch the earth screen sleeve. Connect the sleeve onto the cable screen using constant force springs. Bend excess sleeve back toward the centre. Be sure to have the sleeve tight around the body.

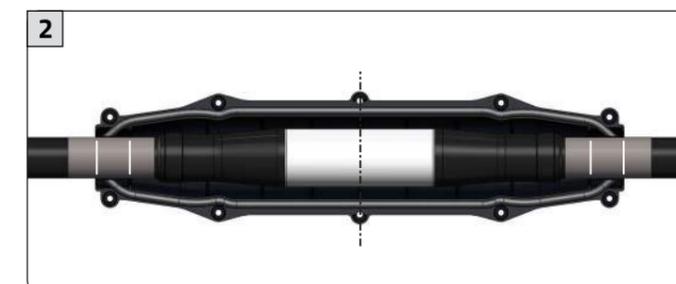


Wrap the foam pad tightly around the joint body. Wrap both constant force springs with PiB tape, overlap the PiB tape onto the foam pad.

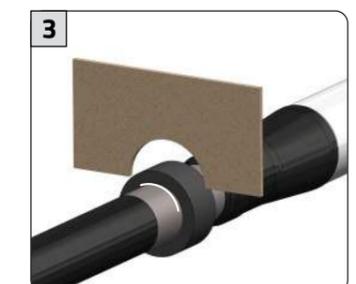
## 4 Assembly of outer shells and Protolin® filling



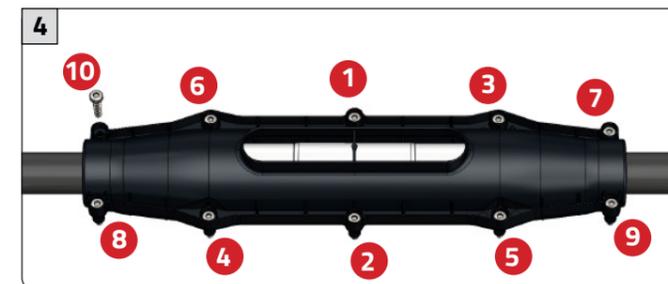
Abrade the cable outer sheath on both sides of the joint with sand paper.



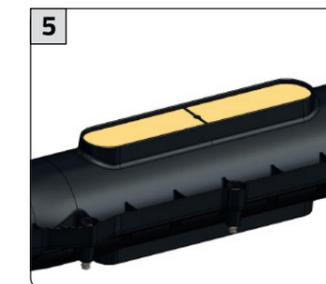
Centralise the lower shell to the connection and mark the positions for the mastic tape.



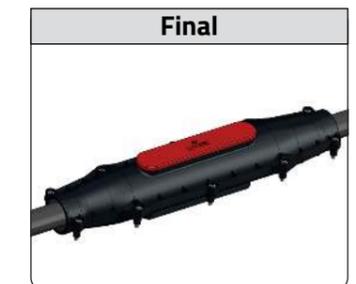
Wind the mastic tape. Check the correct size using the cardboard calliper.



Place both shells. Assemble and tighten all screws with a 6 mm allen key up to a torque of 8-12 Nm.



Open the Protolin® outer bag. Mix the resin according to the instructions on the bag. Fill the joint to the top of the rib in the fill opening.



Close the fill opening with the cap. Be careful when moving the joint, the resin will stay liquid for about 45 minutes.

⚠ **Put the joint into service according to the instructions of the network administrator.**