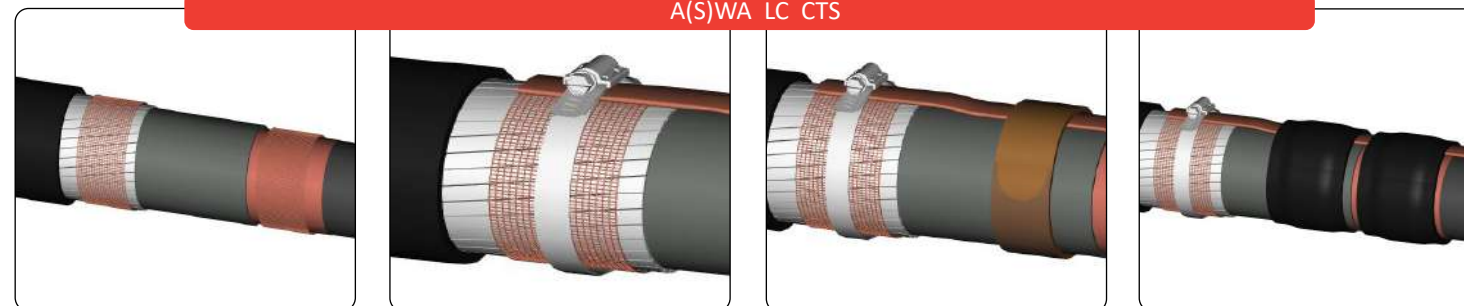


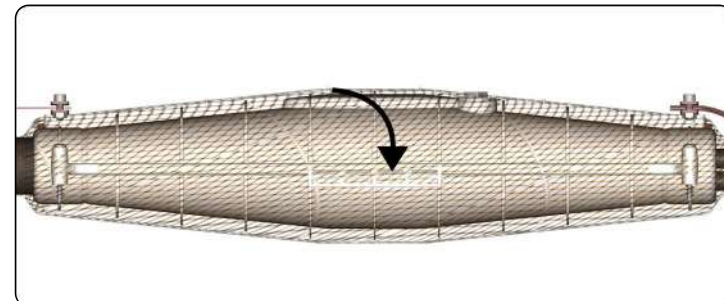


5. Wind 3 layers of gauze over the armour and tape screen.

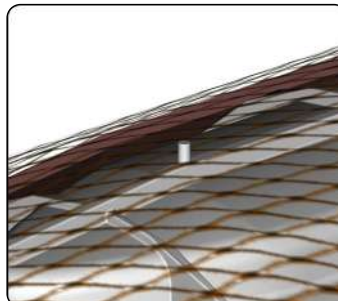
6. Fix the 16mm² braid to the armour by means of a jubilee clip or constant force spring.

7. Fit the 6mm² and 50mm² braid to the lead sheath with a constant force spring or LDV-clamp.

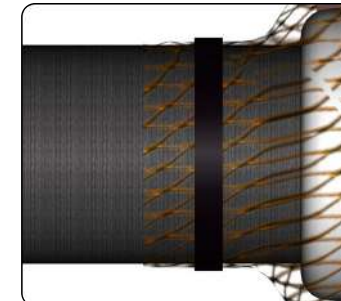
8. Run the main braid over the tape screen and fix it by means of a constant force spring. Tape up the constant force springs.



9. Wrap the earth screen around the inner joint.

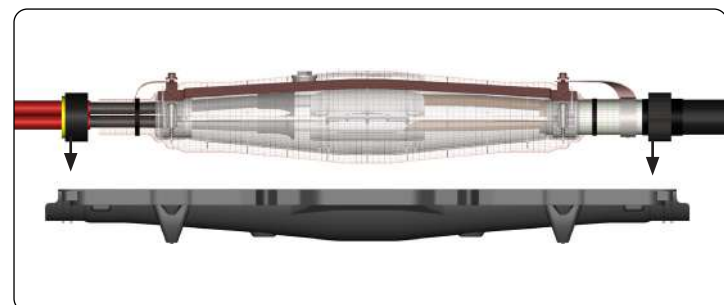


10. Hook the earth screen to the hooks on the upper side of the inner joint.



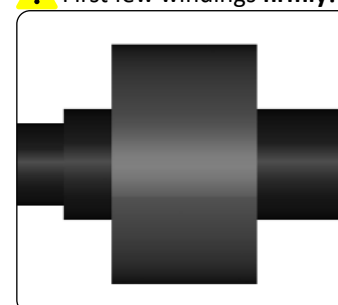
11. Fasten the earth screen to both cables with a plastic tie wrap.

6 Assembly of outer joint

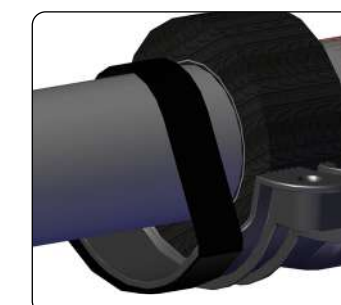


1. Position the lower shell and mark the positions of the self amalgamating tape.

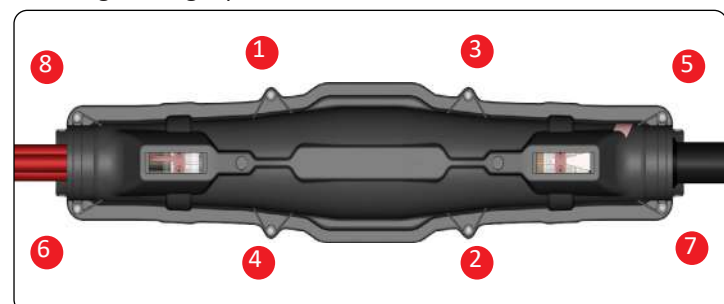
! First few windings **firmly!**



2. Wind the tape. Check the correct diameter using the callipers provided in the lid of the box.



3. Tape the lower shell on both sides to the cables (PVC tape).



4. Place the upper shell and turn the prefitted screws with a 6mm allen key (8-12Nm) according to the image above.

7 Filling the outer joint with Protolin®

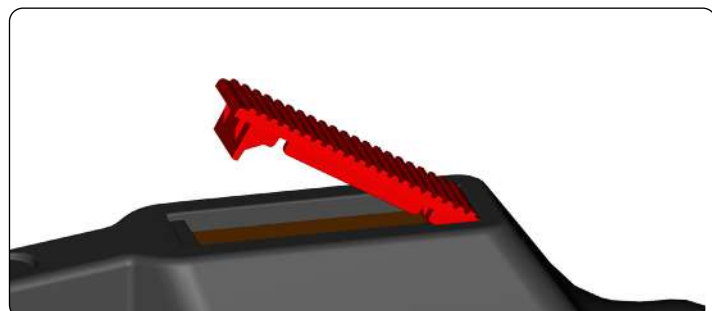
! Support joint and cables with sand.



1. Mix the Protolin® resin according to the instructions on the bag and pour via one of the fill openings.



2. Fill the outer joint with Protolin® to just under the inner edge.



3. Push both covers in the fill opening. Cover the joint with sand and put into service according to the instructions of the network administrator.

007472(R) - Rev. 00/04-2024

LoviSil® M-series

Installation instruction

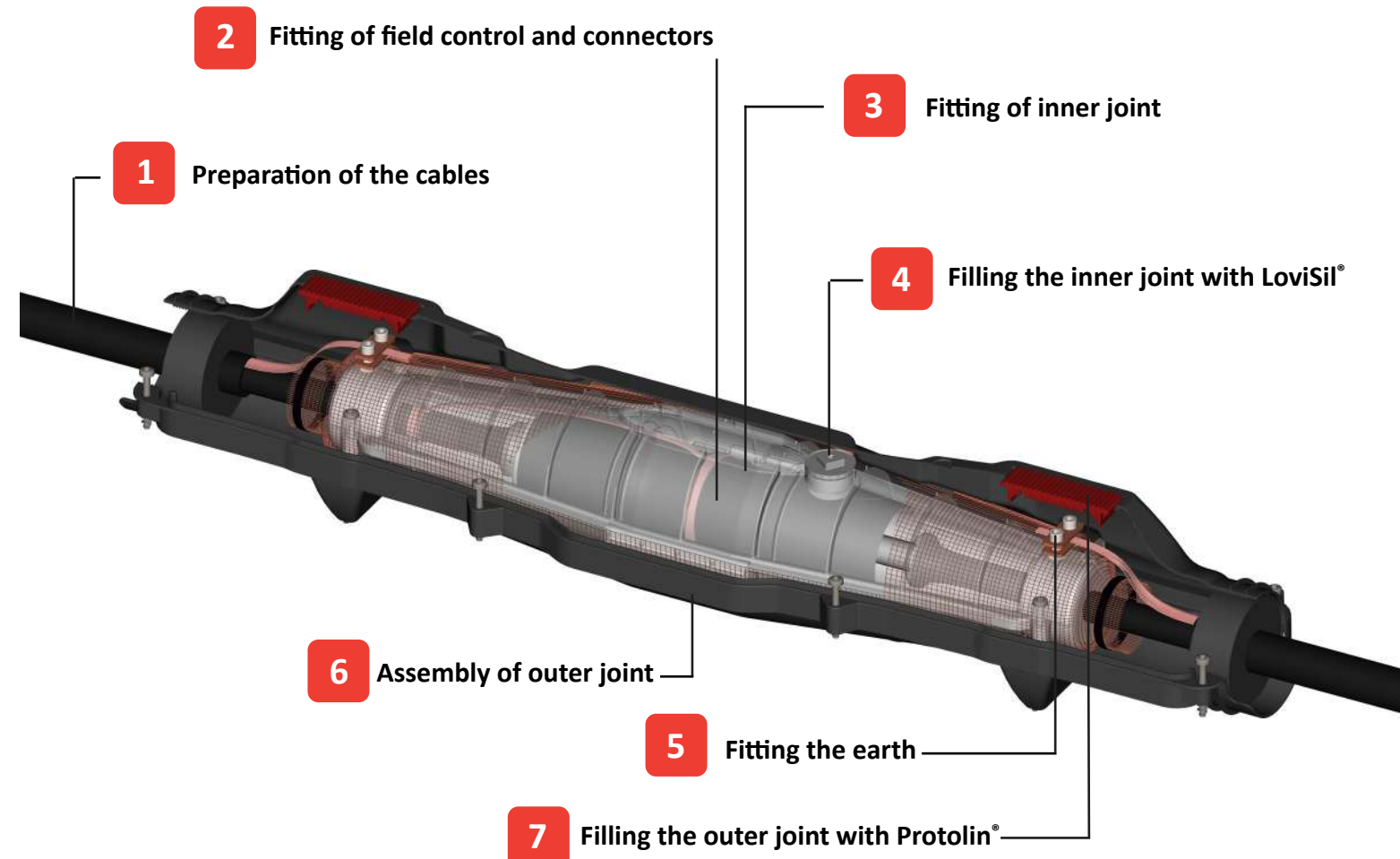
1 - core XLPE

$U_0 / U (U_{max})$

Conductor cross-section

19/ 33(36) kV

95 - 1000 mm²



General remarks



Follow any **safety instructions** issued by the network administrator and/or your employer!



Check whether the **paper-insulated cable** contains any moisture according to the instructions of 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!



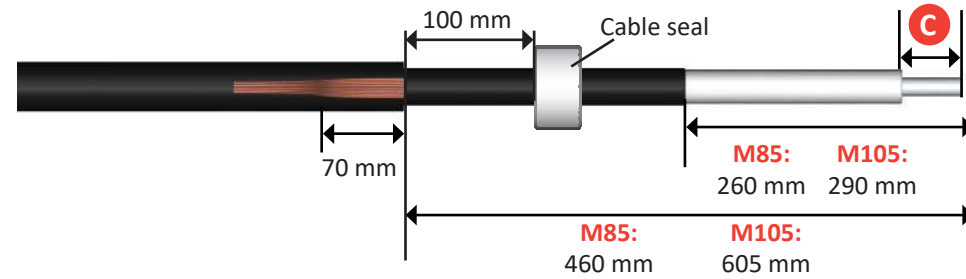
Note the **correct dimensions** as mentioned in this instruction when installing the joint!

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

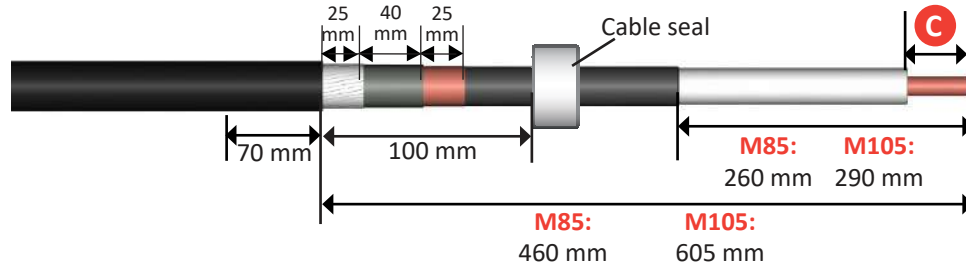
1 Preparation of the cables

XLPE (CWS)

- ⚠ Strip the cable to the required dimensions, then slide the cable seal into position using the Lovink silicon paste as lubricant.



XLPE (A[S]WA LC CTS)



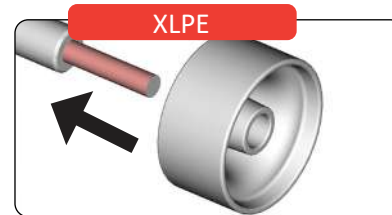
Dimensions connectors

These measurements are based on a Nexans 400mm² connector.

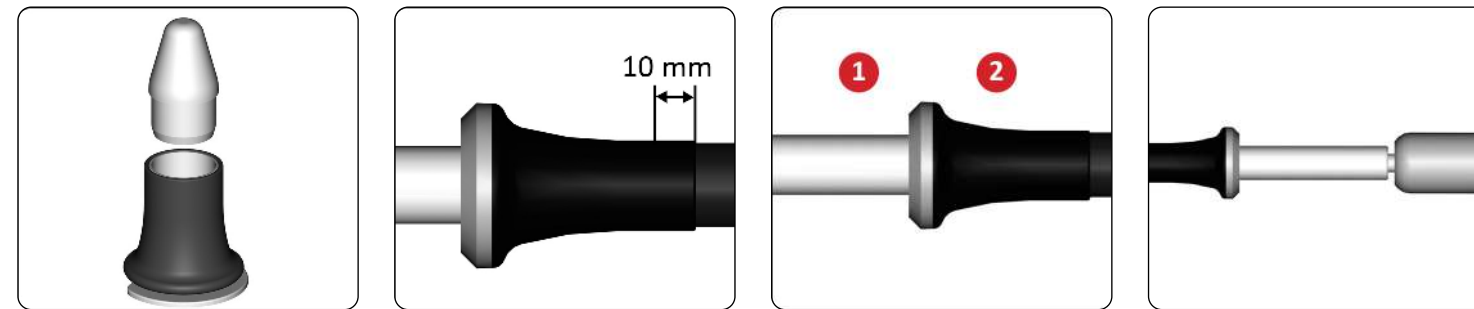
With blocked connectors:
½ connector + 5 mm

Without blocked connectors:
½ connector + 10 mm

- ⚠ Always abrade polymeric outer sheath.
- ⚠ De-burr any sharp conductor/sheath edges and mask with PVC tape to prevent damage when applying the cable seal.



2 Fitting of field control and connectors

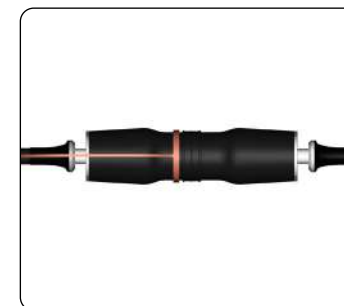


1. Position the stress cone on one cable and park the other (with the applicator) on the second cable.

2. Slide the stress cones 10mm over the end of the semi-conductive layer.

3. First clean the core insulation and then the stress cones with a clean Lovink wet cleaning tissue.

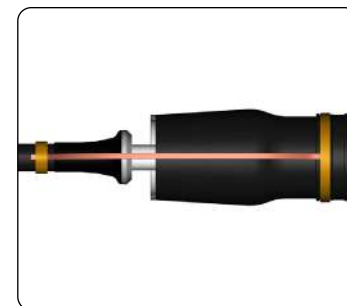
4. Fit the connector to one cable according to the Specifications of the supplier. Do not complete the connection.



5. Connect the 16mm² earth braid to the center of the stress control tube by means of a constant force spring.

6. Slide the stress control tube onto the cable with the parked stress cone. Make the connection. Place the second stress cone in its final position on the cable.

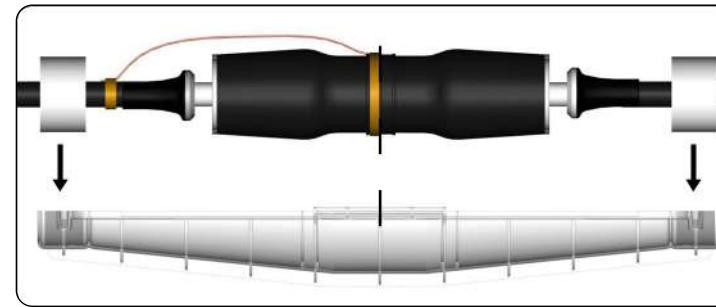
7. Centralise the stress control tube.



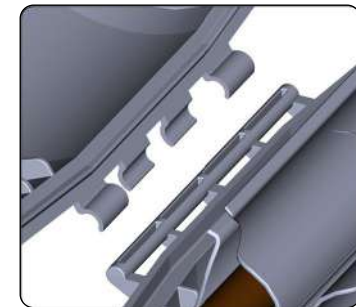
8. Connect the earth braid to the semi-con layer of one cable by means of a constant force spring.

3 Fitting of inner joint

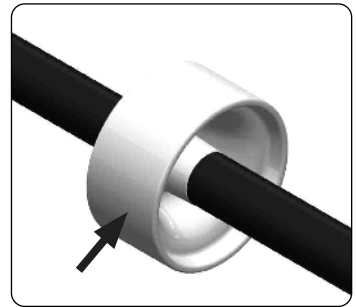
- ⚠ Before positioning the tube, **clean connection** with a clean Lovink wet cleaning tissue.
- ⚠ Clean all surplus silicon paste from cable surfaces.



1. Use the inner shell to gauge and reposition the cable seals.



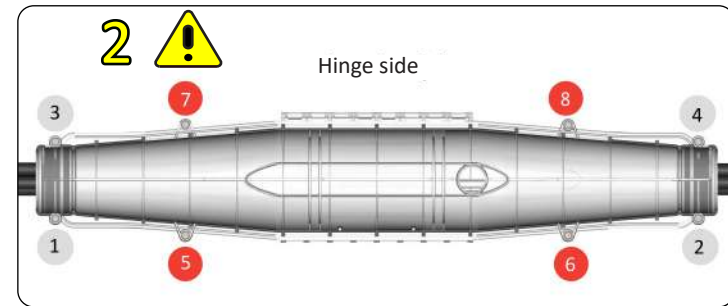
2. Fit the upper shell to the lower shell.



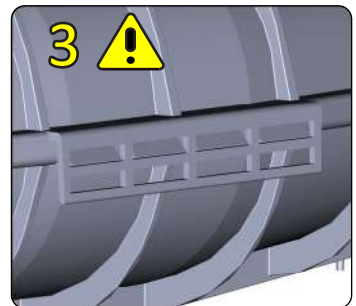
3. Apply Lovink silicon paste on the outer contour of the cable seals.



4. Click the upper shell partly on the lower shell.



5. Tighten all screws with a 6mm allen key according to the image above (8-12Nm).
Attention! The M105 joint has 8 screws.



6. Snap the shells into the second slot of the snapper construction.

4 Filling the inner joint with LoviSil®



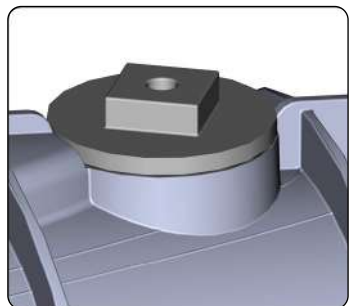
1. Position the LoviSil® bag on the fill opening as indicated in the instruction on the bag.



2. Hold the spout firmly in the fill opening. **Pour the LoviSil® SLOWLY**

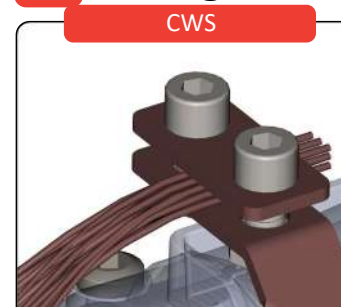


3. Fill the inner joint with LoviSil® to a level between MIN and MAX.

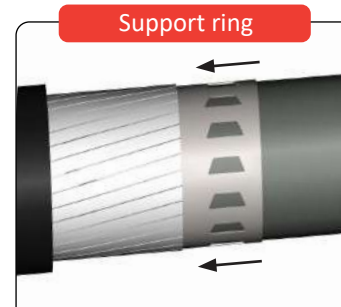


4. Tighten the plug firmly with a 19 mm spanner.

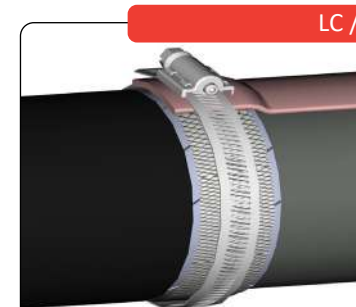
5 Fitting the earth



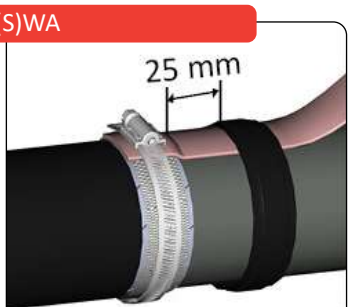
1. Fix the screen wires on the earth strip with a 6mm allen key (10 Nm).



2. In the case of aluminium wire armour, place a support ring under the armour wires.



3. If required, wind 3 layers of gauze over the armour (wires or tape). Fix the 16mm² braid to the armour with a jubilee clip or constant force spring.



4. Fit the 16mm² and 50mm² braid to the lead sheath with a constant force spring or LDV-clamp and tape up the connection with PVC tape.