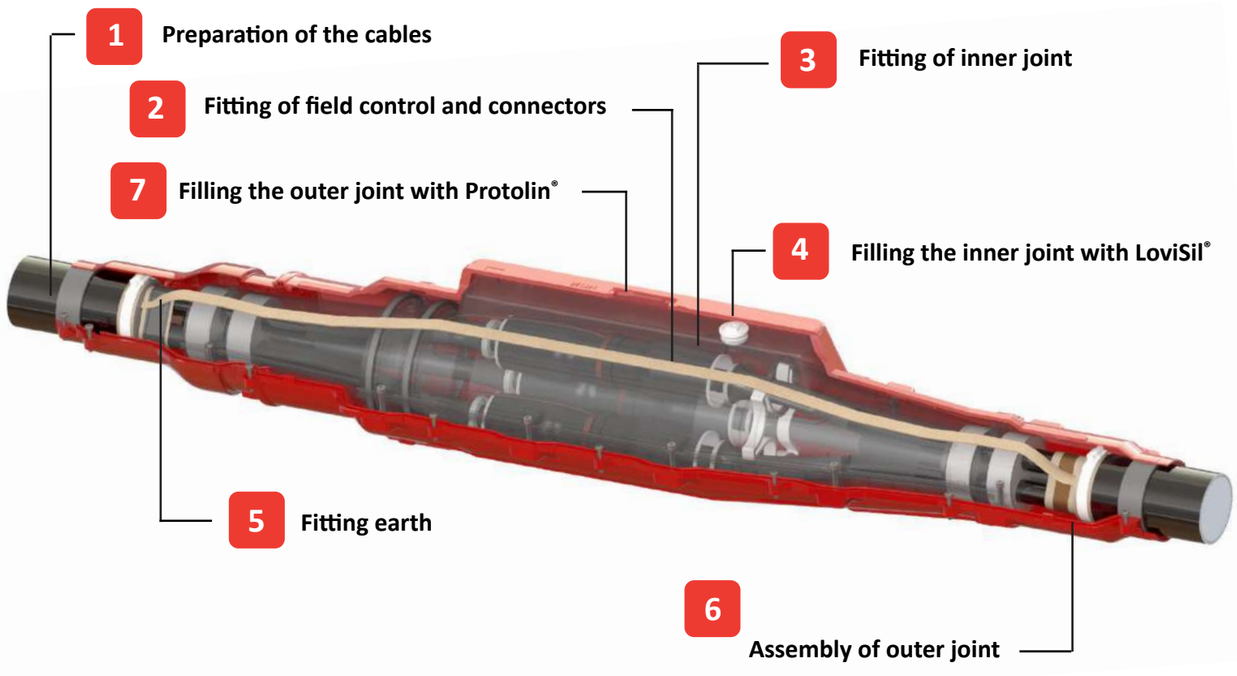
MK125 - extended

Installation instruction

3 - core XLPE
3 - core PILC

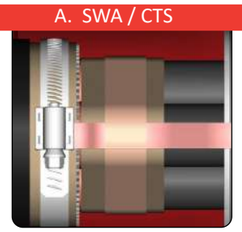
U0 / U (Umax) 19 / 33 (36) kV
Conductor cross-section 70 - 400 mm²



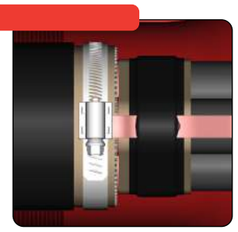
5 Fitting the earth

A. SWA / CTS

1. Wind 3 layers of gause over the steal wire armour and copper tape screen.

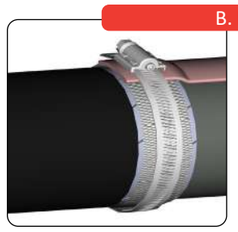


2. Fix the braid to the armour by means of a jubilee clip and to the tape screen by means of a constant force spring or LDV-clamp.

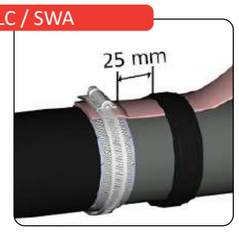


3. Tape up the constant force spring with PVC insulation tape.

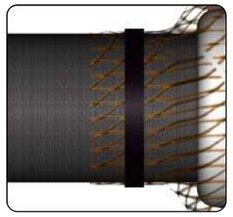
B. LC / SWA



4. If required, wind 3 layers of gause over the armour (wires or tape) and fix the braid to the armour with a jubilee clip.

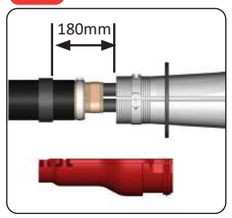


5. Fix the braid to the lead sheath with a constant force spring or LDV-clamp. Tape up the constant force spring with PVC insulation tape.



6. Pull the copper stocking over the inner joint and fasten both ends with a plastic cable ties.

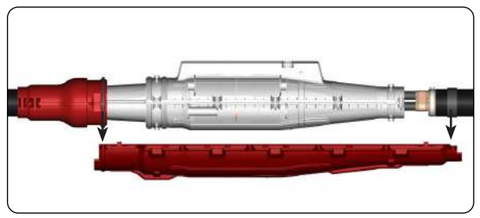
6 Assembly of outer joint



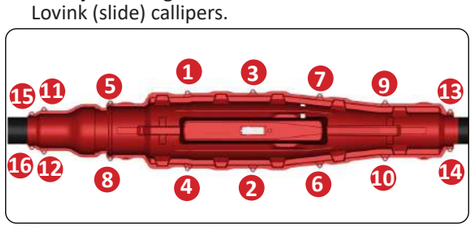
1. Position the self amalgamating tape 180mm from the outer edge of the extended inner joint using the Lovink (slide) callipers.

2. Place the upper shell and screw the two parts together loosely.

3. Place the rubber gasket around the extention shells. Use a small amount of grease if neccesary.



4. Offer up the bottom shell to mark the position of the self amalgamating tape. Using the Lovink caliper, determine the diameter of the tape.



5. Place the upper shell and fix the screws according to the image above.

7 Filling the outer joint with Protolin®

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

2. Push the cover in the filling hole. Cover the joint with sand and put into service according to the instructions of the grid opperator.

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!
- Note the **correct dimensions** as mentioned in this instruction when installing the joint!
- Check whether **the paper-insulated cable** contains any moisture according to the instructions of the network administrator and/or your employer!
- 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!

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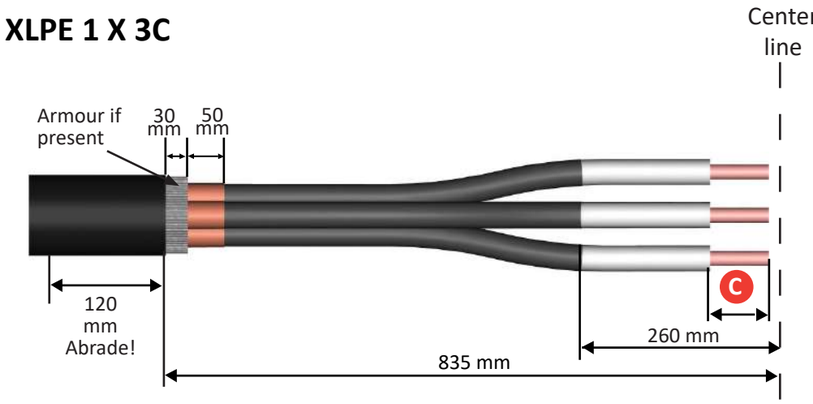
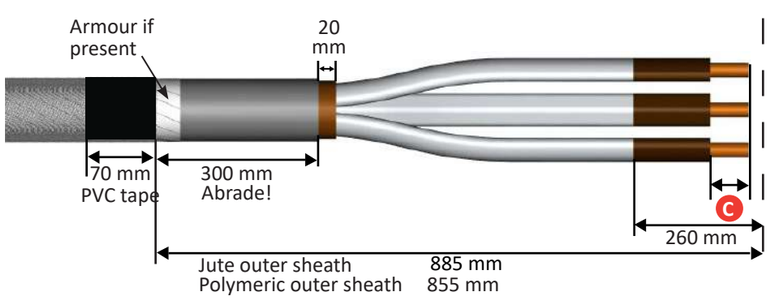
007314- Rev. 02/10-2019

1 Preparation of the cables

XLPE 1 X 3C



PILC 1 X 3C



Dimensions connectors

With blocked connectors:
½ connector + 5 mm

Without blocked connectors:
½ connector + 10 mm

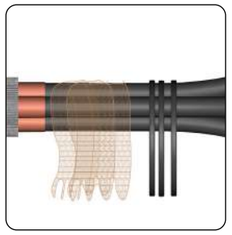
Always abrade polymeric outer sheath 120mm from sheath termination.

If necessary, make a **crossing** before cutting the cables!

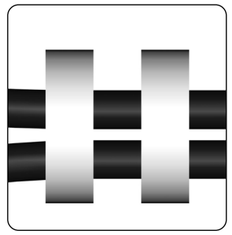
If possible, cross the conductors on the XLPE cable!

Always abrade Lead sheath over a distance of 300mm from outer cover termination.

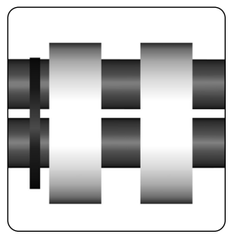
2 Fitting of field control and connectors



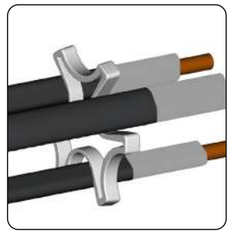
1. Slide the copper stocking and three rubber gaskets over the cable intended for the extended side,



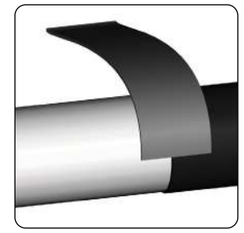
2. Place the two foam rings onto both the cables.



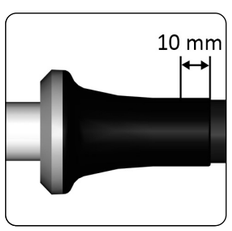
3. Before bending the cores into position, place a cable tie around the cores to keep them in position.



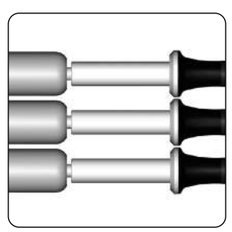
4. Place the spacer on the cable of the small side of the joint.



5. If the transition from the semi-conductive layer to insulation is not smooth, apply void filling tape over the interface between insulation and semi-coductive layer.



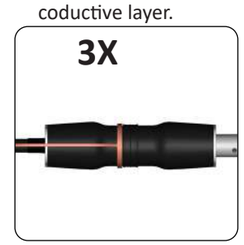
6. Position the stress cones (by means of a stress cone applicator) on one side of the joint 10mm onto the insulation screen.



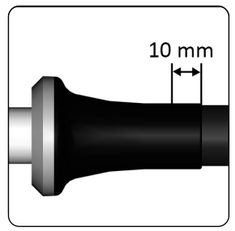
7. Fit the connector to the same side as the stress cones according to the specifications of the supplier.

8. Park the stress cones on the opposite side **(Back to front on the applicator).**

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

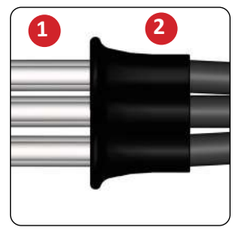


10. Push the tubes (one by one) over the connectors and complete the connection.



11. Now position the stress cones on the second cable, 10mm over the end of the semi-conductive layer. Remove the applicator.

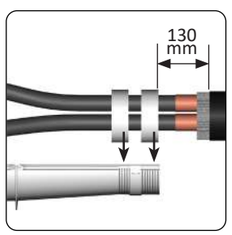
12. Centralize the tubes.



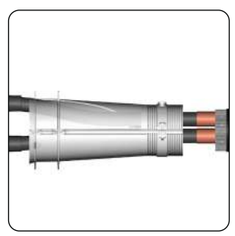
13. Clean the core insulation and then the stress cones with a **clean** Lovink wet cleaning tissue.

14. Connect the outer surface of the tube with the semi-conductive layer (constant force spring) 20mm behind the stress cone..

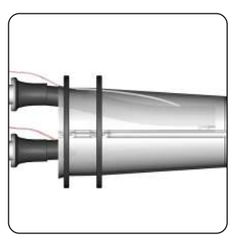
3 Fitting of inner joint



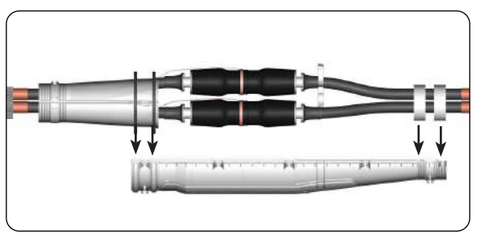
1. Place te first foam ring (on the extended side) 130mm from the sheath termination and position the bottom shell (the bottom shell has no hole).



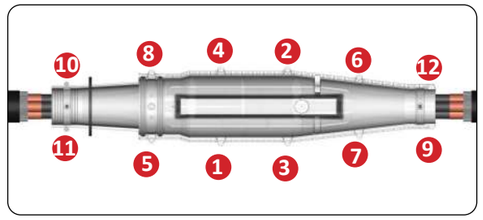
2. Place the upper shell and screw the two parts together loosely.



3. Place two of the rubber gaskets around the the extention shells. Use a small amount of grease if neccesary.

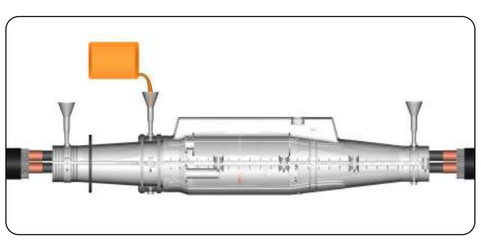


4. Offer up the bottom shell to position the foam rings on the second cable. Do this while flexing the shell to fit over the gasket.



5. Place the upper shell and fix the screws according to the image above.

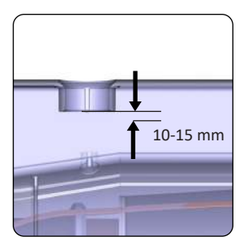
4 Filling the inner joint with LoviSil®



1. Fit the three LoFit funnels and fill each one according to the Lofit instructions. Leave to cure (+/- 15 minutes). Saw/cut off the funnels after complete curing. **Never pull the funnel out before curing.**

2. Position the LoSil® bag on the fill opening.

3. Hold the spout firmly in osition while pouring.



4. Fill the inner joint with LoviSil® upto between 10 & 15mm under the collar of the opening. Close firmly with a 19mm spanner.