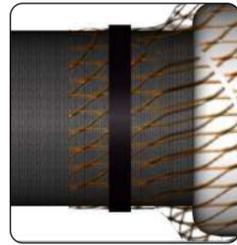


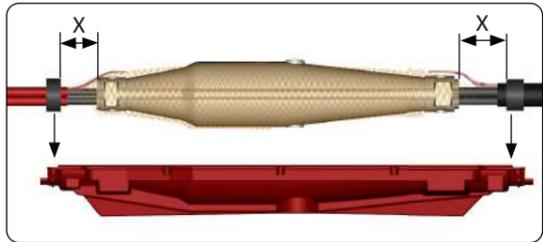
5. Pull the earth screen over the inner joint.



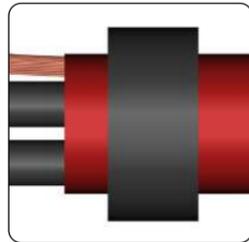
6. Fasten the earth screen on both sides of the joint with plastic cable ties.

6 Assembly of outer joint

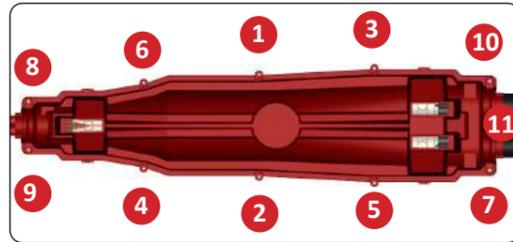
! First few windings **firmly!**



1. Offer up the lower shell and mark the positions of the self-amalgamating tape and/or filling pieces. The distance from inner joint to build-up tape should be the same on both sides.



2. Wind the tape. Check the correct diameter using the Lovink (slide) callipers.



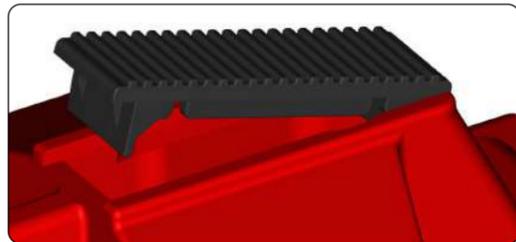
3. Place the upper shell and fasten the screws in the order shown above (5Nm).

7 Filling the outer joint with Protolin®

! Support the joint and cables **with sand** and then remove the support.



1. Mix the Protolin® resin according to the instructions on the bag and fill the outer joint.



2. Place all three covers in the filling holes. Cover the joint with sand and put into service according to the instructions of the network administrator.

LoviSil® KB-series

Installation instruction



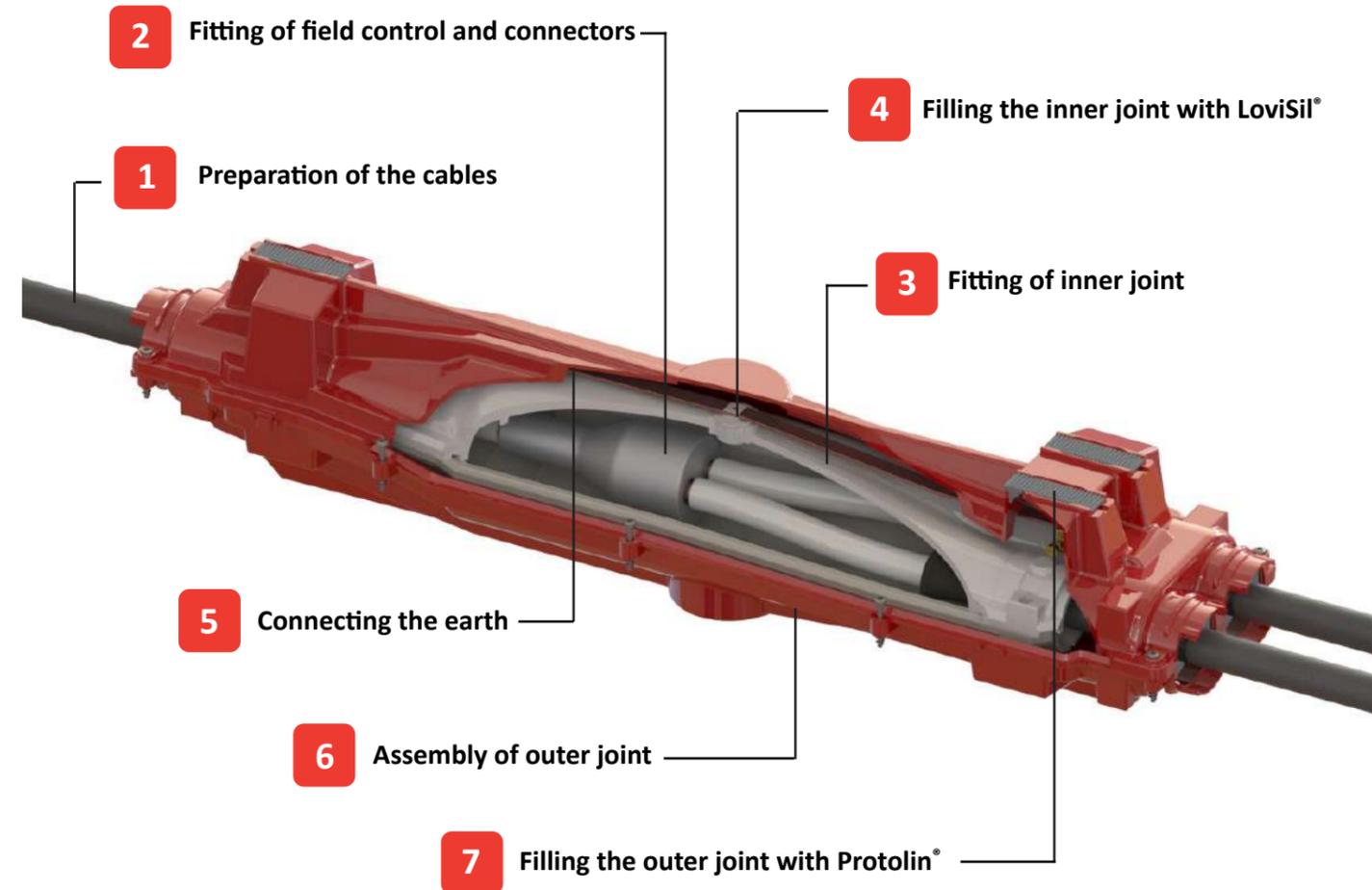
1 - core PILC
1 - core XLPE

$U_0 / U (U_{max})$

12 & 24 kV

Conductor cross-section

70 - 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 the instructions of the network administrator and/or your employer!



Make sure the connection stays **dry and clean** all through the assembly!



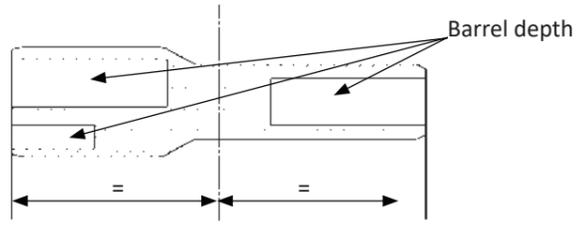
This instruction is meant as a guideline for **trained and certified jointers**. Knowledge of medium voltage technology and experience in cable preparation should be present!



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

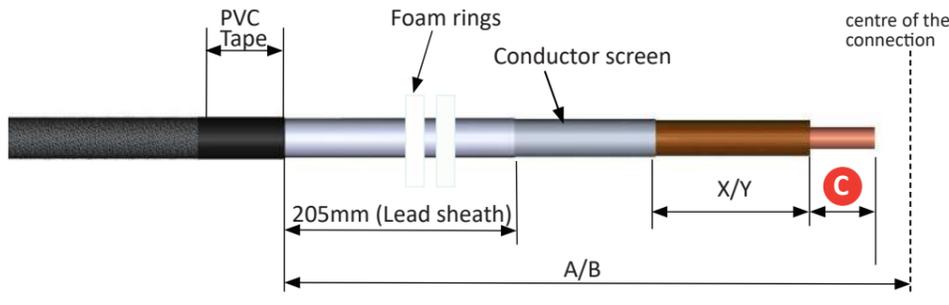
Disclaimer: Lovink Enertech takes the utmost care in the production and assembling of this installation instruction, but can in no way guarantee the accuracy or completeness. Lovink Enertech accepts no responsibility for damage of any kind caused by not following the installation steps described in this 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 Preparation of the cables



Check connector and centreline dimensions before starting cable preparation.

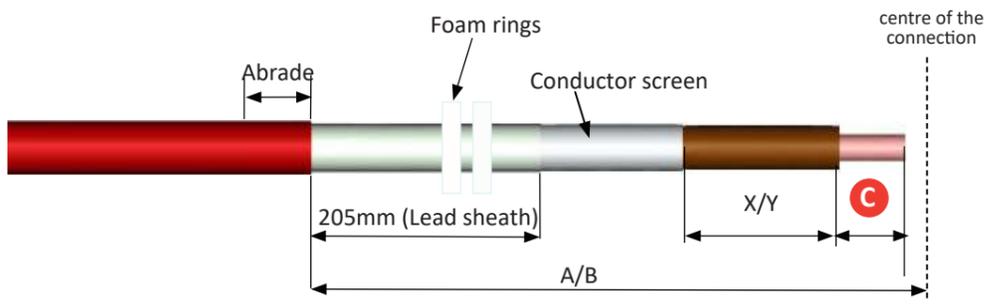
PILC with hessian outer sheath



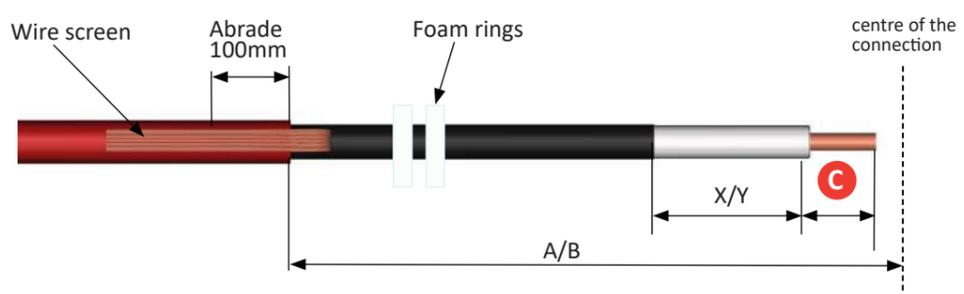
Dimensions connectors
With blocked connectors:
 Shaft depth + 5 mm
Without blocked connectors:
 ½ connector + 10 mm

Always abrade polymeric outer sheath (70mm) and/or lead sheath (190mm)!

PICAS & PILC with polymeric outer sheath

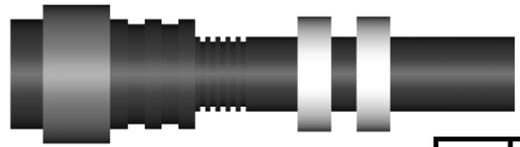


XLPE/EPR



Bend back the screen wires but do not cut them!

Stop end

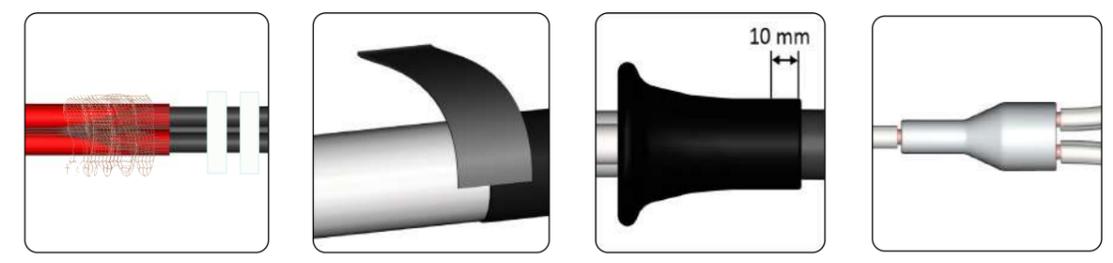


	PILC (poly) , PICAS & XLPE		PILC (Hessian)	
	Single side (A)	Branch side (B)	Single side (A)	Branch side (B)
KB85	460mm	660mm	500mm	700mm
KB95	525mm	805mm	565mm	845mm

Single-seite (X)	190 mm
Doppel-seite (Y)	320 mm

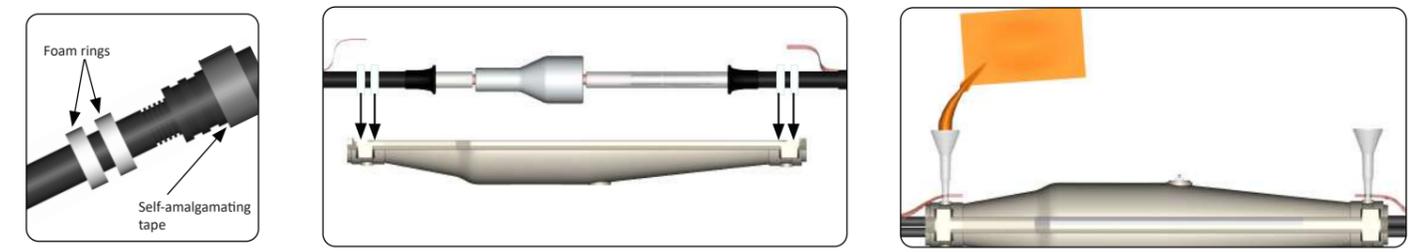
2 Fitting of field control and connectors

Before positioning the tube set, clean the assembly with a clean Lovink wet cleaning tissue.



- Place the copper gauze stocking over one side of the connection and place the foam rings onto all three cables
- In the case of EPR cable, apply void filling tape over the interface between EPR and semi-conductive layer.
- Slide the stress cones 10mm over the end of the semi-conductive layer.
- Fit the connector according to the specifications of the supplier.

3 Fitting of inner joint



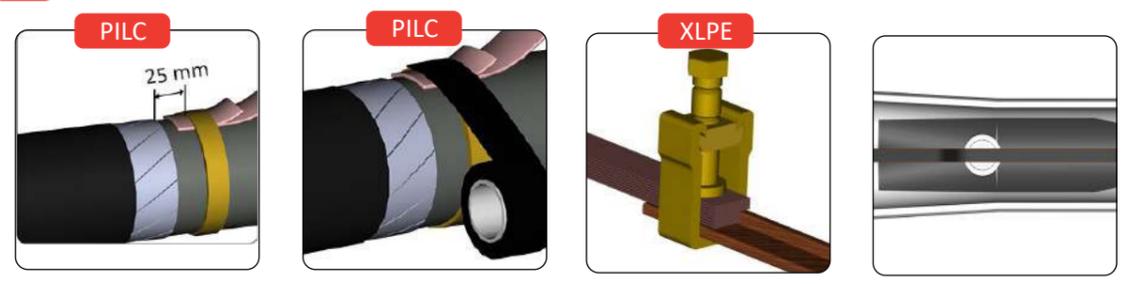
- For a blind- or loop-joint use the dummy cable to place the foam rings and build-up tape. Remove all unused shear bolts from the connector
- Use the inner shell to gauge and reposition the foam rings.
- Close the inner joint, place the three funnels and then fill the inner joint with LoFit®. Do not remove the funnels before the LoFit® has cured. Saw or cut off the funnels. Never pull them out of the joint.

4 Filling the inner joint with LoviSil®



- Once the LoFit has cured, the inner joint can be filled with LoviSil®.
- Screw the cap of the inner joint on tightly.
- For 24 kV joints: Place the black foam piece on top of the inner joint.

5 Connecting the earth



- For PILC cables fit the braid to the lead sheath by means of a constant force spring.
- Tape over the constant force spring with PVC tape.
- For XLPE cables fix the screen wire to the braid by means of the earth clamp provided.
- Pull the braid over the inner joint fix the braid to the screw cap using the plastic nail provided.