



Saves Your Energy

INSTALLATION INSTRUCTION PEM1265ENG 2011-10

ENGLISH



Additional joint diameter increase kit SBK10, SBK20, SBKP10, SBKP20.

SBK10: 12 kV 10-25 mm²
24 kV 10-16 mm²

SBK20: 12 kV 35-70 mm²
24 kV 25-70 mm²

SBKP10: 12 kV 10-35 mm²

SBKP20: 12 kV 35-70 mm²

GENERAL INFORMATION

- Check that the kit is suitable for the cable type.
- Check the materials listed in the bill of materials for completeness.
- Read the installation instructions carefully before starting the installation.
- Install carefully and make sure the materials are clean during the installation.
- Clean the working place after the installation.

GENERAL INSTRUCTIONS FOR HEAT SHRINKING

- Please note that in some working places a hot work permit is needed.
- Use a propane burner with a flame length of approx. 20-30 cm. Do not use too large or sharp flame.
- Move the flame all around the cable on the shrinking direction. Move the flame continuously to avoid overheating.
- Make sure that the ventilation is good and there are no flammable materials around.
- Clean the cable surfaces before shrinking.
- When shrinking, always follow the installation instructions and the relevant sequence to avoid trapped air.
- Check that the tube has shrunk evenly around the cable before you continue shrinking.
- If the tube turns around at the end of shrinking, straighten the tube by directing the flame inside the tube from the opposite direction.
- After shrinking the tubes should be smooth and even following the shape inside.

LEGAL NOTICE

- The product must be installed only by a competent person with sufficient training in installation practices and with sufficient knowledge of good safety and installation practices in respect of electrical equipment. If local legislation contains provisions in respect of such training or sufficient knowledge in respect of installation of electrical equipment such provisions shall be fulfilled by the said person.
- Ensto accepts no liability concerning claims resulting from misuse, incorrect installation or ignored national safety regulations or other national provisions.
- **WARNING:** Failure to follow the installation instructions may result in damage to the product and serious or fatal injury.

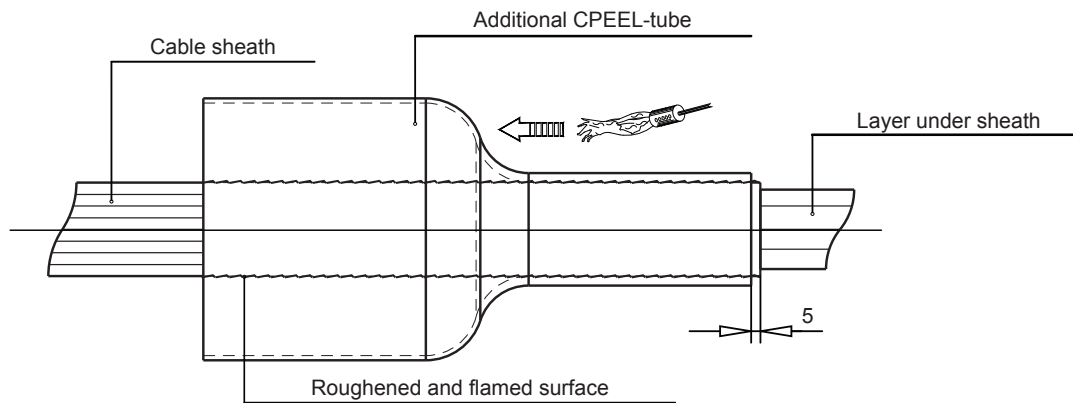
THIS DOCUMENT INCLUDES INSTALLATION INSTRUCTIONS FOR BOTH POLYMER AND OIL-PAPER INSULATED CABLES. WHEN DIAMETER IS INCREASED, SOME ADDITIONAL ASSESSORIES ARE NEEDED!

POLYMER INSULATED CABLES:

- Additional tube: Stress Control Tube, for diameter increase of the insulation. One for each phase.
- Additional tube: CPEEL-tube for diameter increase of the outer diameter.

OIL-PAPER INSULATED CABLES:

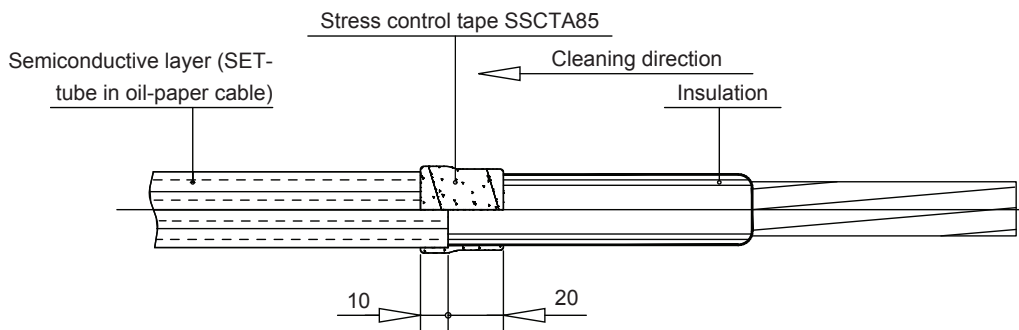
- **Replace STT-tube of the side to be increased with --> STT-tube of diameter increase kit SBKP!**
- **Replace SSBO-breakout of side to be increased with --> SSBO-breakout of diameter increase kit SBKP!**
- Additional tube: Stress Control Tube, for diameter increase of the insulation. One for each phase.
- Additional tube: CPEEL-tube for diameter increase of the outer diameter.



1. Cut and remove the outer sheath according to the instructions and dimensions of the basic kit. Roughen and flame gently additional CPEEL-tubes length of the sheaths surface starting from the cut point.

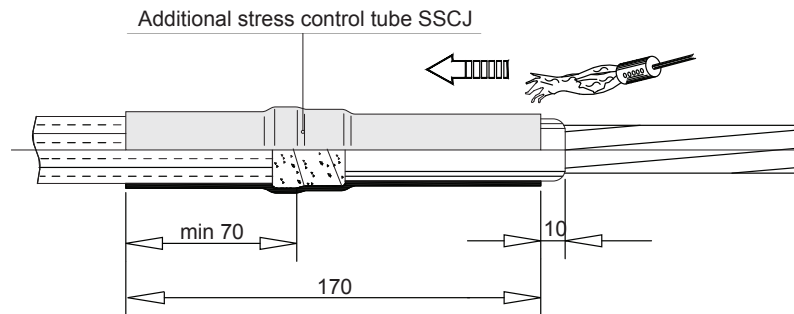
Place the additional CPEEL sealing tube on the smaller core cable's outer sheath so that the tube is 5 mm from the cut point of the outer sheath. Start the shrinking from the cut point end of the tube and move towards the other end. The tube is properly shrunk when adhesive starts to come out of the ends.

Follow the basic kits installation instructions and stop before installing the connector. (Oil-paper-cables: replace the STT-tubes and SSBO-breakout of the basic kit on the side to be increased with the ones on the SBKP10/SBKP20)

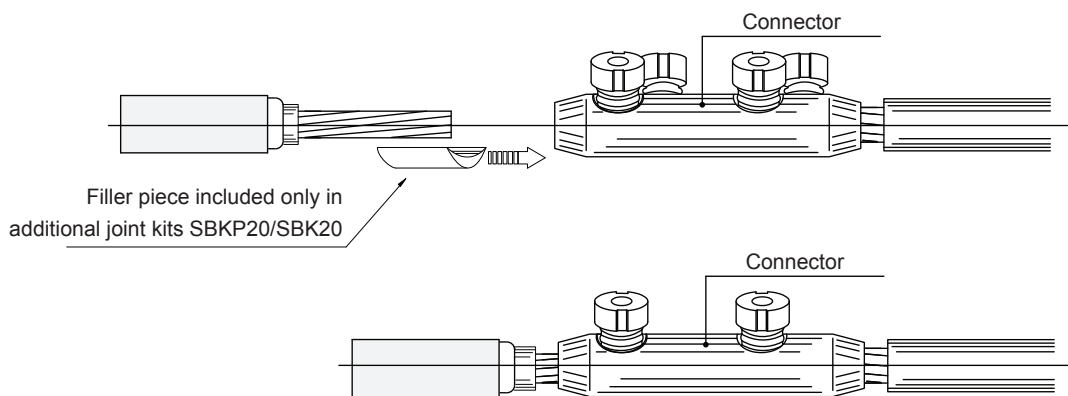


2. Clean the smaller core cable insulation with a cleaning tissue on both sides, the direction of cleaning is towards the semiconductive layer and avoid that remains from the semiconductive layer gets on the insulation.

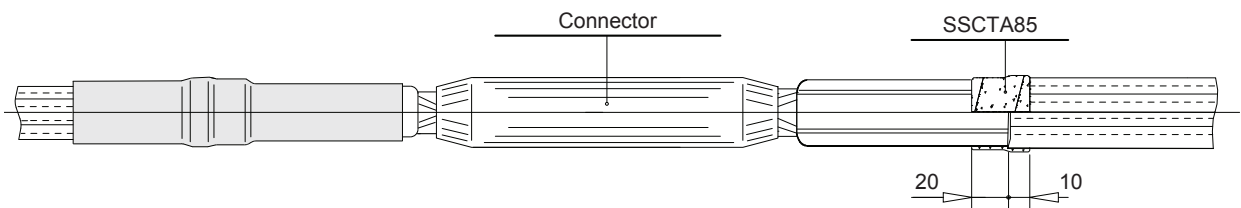
Wrap two layers of stress control tape SSCTA85 over the edge of the semiconductive layer (SET-tube in oil-paper cable) and the insulation, start from the semiconductive side (SET-tube side in oil-paper cable). Wrap SSCTA85 10 mm on the semiconductive layer (SET-tube in oil-paper cable) and 20mm on the insulation. SSCTA85 must be wrapped with a 50% overlap and it should be stretched to half of its original width.



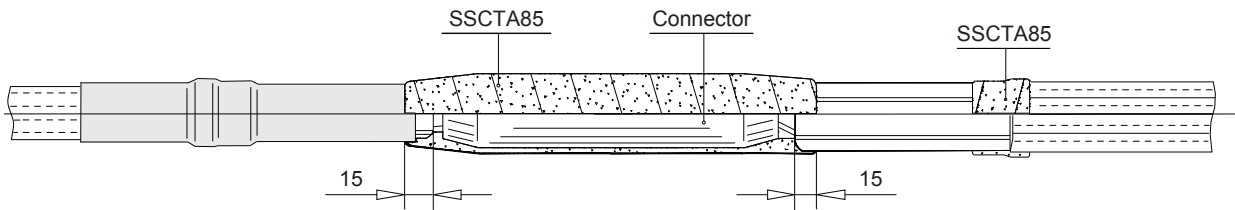
3. Slip on the additional SSCJ stress control tube on the smaller core cable. Place the tube 10 mm from the insulation edge and start the shrinking sequence from there. Clean the tube with a cleaning tissue after shrinking.



4. **Make sure that all the necessary tubes are in place according to the basic kits installation instruction** and install and clean the connector following manufacturer's instructions. If SMJ2.47 connectors are used, then use the filler pieces included in the additional joint kit on the diameter increase side. Please note that a sector shaped conductor may need to be rounded to fit into the connector.



5. Clean the bigger core cable insulation with a cleaning tissue on both sides, the direction of cleaning is towards the semiconductive layer and avoid that remains from the semiconductive layer gets on the insulation. Wrap two layers of stress control tape SSCTA85 over the edge of the semiconductive layer and the insulation, start from the semiconductive side. Wrap SSCTA85 10 mm on the semiconductive layer and 20 mm on the insulation. SSCTA85 must be wrapped with a 50% overlap and it should be stretched to half of its original width.

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SBKP20**

6. Fill any holes left in the connector with grey mastic and wrap two layers of stress control tape SSCTA85 to cover the connector. Continue up to 15 mm on the insulation and on the additional SSCJ tube. SSCTA85 must be wrapped with a 50% overlap and by stretching it to half of its original width.

Follow the basic kits installation instructions to finish the installation.



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