



Saves Your Energy

**INSTALLATION INSTRUCTION PEM1078ENG
2016-06**

ENGLISH



**HEAT SHRINK TERMINATIONS FOR THREE CORE CABLES
CORE SHIELDING KITS STE5 AND STE6**

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

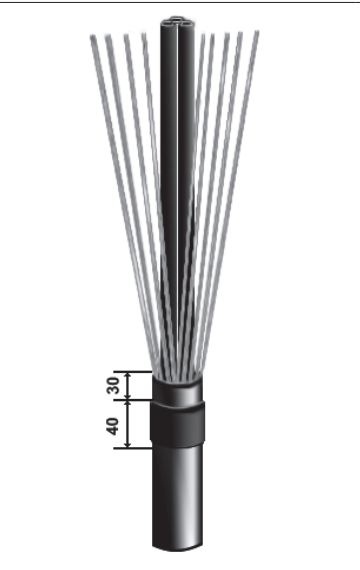
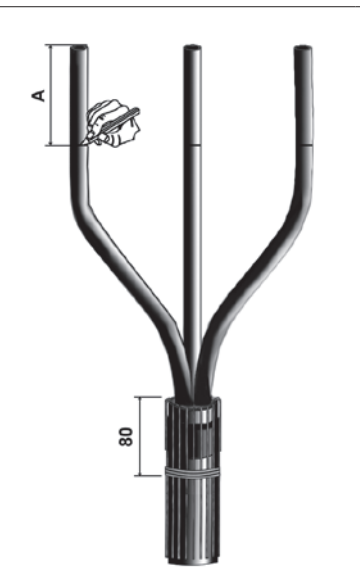
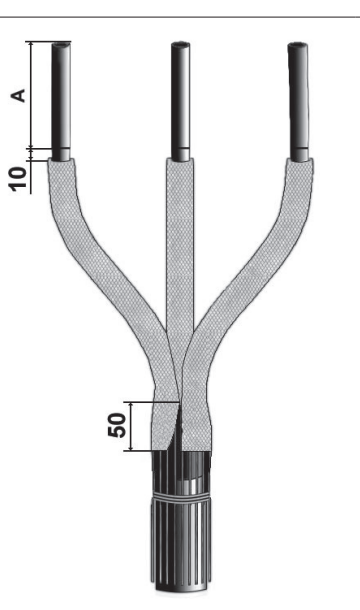
- Please note that in some working places a hot work permit is needed.
- Use a propane burner with a flame length of approx. 20-30 cm. Do not use too large or sharp flame.
- Move the flame all around the cable on the shrinking direction. Move the flame continuously to avoid overheating.
- Make sure that 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.

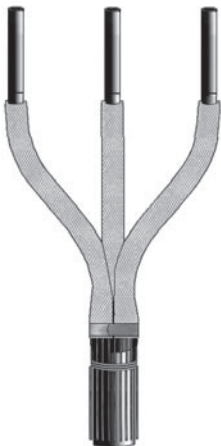


LEGAL NOTICE


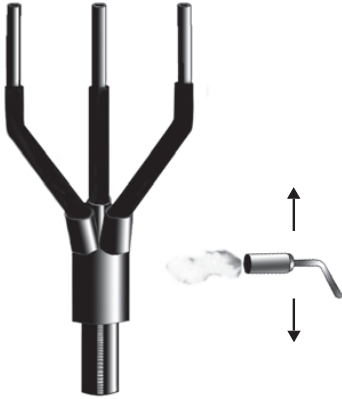
- The product must be installed only by a competent person with sufficient training in installation practices and with sufficient knowledge of good safety and installation practices in respect of electrical equipment. If local legislation contains provisions in respect of such training or sufficient 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.

STE5 10-95 mm² 12/24 kV

STE6 95-240 mm² 12/24 kV

	<p>1. Cut the cable and peel the outer sheath for the needed length, 500-1200 mm. Grind the outer sheath for 100 mm distance and clean it. Ensure that the cores are long enough to connect the cores in any order. Wrap one layer of sealing mastic on the outer sheath, start 30 mm from the outer sheath edge and continue for 40 mm along the sheath.</p>																				
	<p>2. Fold the shield wires on the outer sheath and press them to the sealing mastic. Shape the cores to fit on the bushings and cut them in appropriate length. Take care that all cores are long enough in case the phase order needs to be changed afterwards. Fix the shield wires on the outer sheath at 80 mm from the sheath edge with the tinned copper wire. Mark the measure A on the semiconductive layer.</p> <table><tr><th>Main Kit</th><th>12 kV</th><th>24 kV</th><th>A mm</th></tr><tr><td>CONT630</td><td>25-240</td><td>25-240</td><td>155</td></tr><tr><td>CONS250</td><td>70-95</td><td>25-95</td><td>175</td></tr><tr><td>CONE250</td><td>70-95</td><td>25-70</td><td>155</td></tr><tr><td></td><td>-</td><td>95</td><td>150</td></tr></table>	Main Kit	12 kV	24 kV	A mm	CONT630	25-240	25-240	155	CONS250	70-95	25-95	175	CONE250	70-95	25-70	155		-	95	150
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	<p>3. Cut the copper braid into three pieces, the lengths of which reach from 10 mm below of the marked point A on the semiconductive layer to 50 mm on the outer sheath. Open the wires of the copper braid apart for 50 mm length at the end, which comes on the outer sheath.</p> <p>Draw the copper braids on the cores and fix the ends 10 mm below the mark A on the semiconductive layer temporary with PVC tape. Pull the braids to the outer sheath direction and place the apart opened wires around the outer sheath on the shield wires.</p>																				

	<p>4. Fix the braid wires and the shield wires with the constant force spring.</p>
	<p>5. Tighten the constant force spring and fix it with a couple layers of PVC tape. Twist the shield wires into a stranded conductor.</p>
	<p>6. Wrap one layer of sealing to cover the previously wrapped 40 mm of the sealing mastic and the shield wires on the outer sheath.</p>

	<p>7. Measure the length of each core from the mark A on the semiconductive layer to the crutch. Cut the heat shrink tube to relevant lengths. Draw the tubes on the respective cores. Remove the PVC tape from the braid ends. Check that the tube edge is at the mark on the semiconductive layer.</p> <p>Shrink the tubes starting from the semiconductive layer end and continue towards the crutch.</p>
	<p>8. Let the tubes cool down a couple minutes. Push the breakout down to the cable so far as possible. Shrink the breakout starting from the middle.</p> <p>Shrink first towards the outer sheath and finally the fingers. Continue according to the installation instructions of the main kit.</p>



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