

INSTALLATION INSTRUCTION PEM1092ENG 2015-02

**ENGLISH** 



HEAT SHRINK TRANSITION JOINTS APYAKMM - AHXAMK-W HJTW11.24

## **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 INSTRUCT IONS 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.







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7. Cut and remove the aluminium sheath according to A measure in table 1. Remove the semiconductive paper leaving 10 mm at the aluminium sheath edge. Remove the first layer of the paper insulation up to the semiconductive paper edge.

### TABLE 1

Kit	Um kV	Conductor size mm <sup>2</sup>	Aluminium sheath removal A mm
HJTW11.2402	24	50-95	190
HJTW11.2403	24	70-240	190
HJTW11.2404	24	185-300	210



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## Table 2

Package	Um kV	Conductor size mm <sup>2</sup>	Outer sheath removal mm B
HJTW11.2402	24	50-95	310
HJTW11.2403	24	70-240	310
HJTW11.2404	24	185-300	330





# JOINTING



20. Remove the PVC tape from the ends of the conductors and install the MV connectors following the manufacturer's instructions.

#### TABLE 3

КІТ	Cable size mm <sup>2</sup>	Max connector dimensions	
		length mm	diameter mm
HJTW11.2402	50-95	130	30
HJTW11.2403	70-240	130	33
HJTW11.2404	185-300	180	38



21. Fill any holes left in the connector with grey mastic. Clean the XLPE cable insulation and the semiconductive layer with the cleaning tissue starting from the insulation towards the semiconductive layer. Take care that no semiconductive particles are deposited on the insulation. Clean respectively the paper insulated cable side. Clean the connector.





Ground copper braid				
Constant force spring	Tinned copper tape	Constant force spring		
		Copper outlet PEE16		
30. Fold the copper outlet to the opposite direction so that the copper conductor end directs out from the joint on the AHXAMK-W cable side. Fold the ground copper braid end over the spring and wrap the rest of the spring on the both folded braid ends.				
Self bonding insulat	ing	Sealing mastic PA22		
Roughen tape SSITA42	Self bonding	g insulating tape SSITA42		
<ul> <li>31. Wrap one layer of sealing mastic PA22 on the outlet and the previous layer of the sealing mastic. Wrap the sealing mastic with a 50 % overlap and by stretching it to half of its original width.</li> <li>Wrap some layers of self-bonding insulating tape SSITA42 on the constant force springs and the ground copper braid wires to smooth the sharp edges. Take care that the ends of the braid wires are fully embedded in the taping. Self bonding insulating tape must be wrapped by stretching it a bit. Wrap the tape to the direction, which tightens up the constant force spring. Cover also the open aluminium sheath.</li> <li>Roughen 100 mm of the CPEEL tube on the paper insulated cable side with grinding paper.</li> </ul>				
Sealing tube CPEEPL				
32. Centre the CPEEP ends. The tube is	L sealing tube on the joint. Start properly shrunk when the adhesi	to shrink the tube from middle and move towards the ive starts to come out from the ends.		

# HJTW11.24

33. The joint is finished and ready to use, but let it cool down before loading it mechanically.		
34. Connect the separate earth conductor of the AHXAMK-W cable to the copper outlet conductors of the joint with the connectors included in the kit.		



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