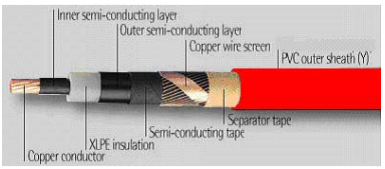
1-MSS

DESICON MEDIUM VOLTAGE STRAIGHT JOINT, ONE-CORE

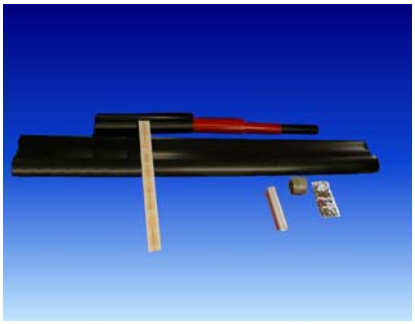
1 X 25-300 MM² XLPE CABLES 12-17,5 KV

ASSEMBLY INSTRUCTIONS



These assembly instructions are designed for this type of cable only. For other cable types please contact us for instructions and/or materials

Contents:
Heat-shrinkable tubing:
One stress-control tube (black)
Two insulation tubes (red)
One conductive tube (black)
One outer tube (black)
Yellow stress control mastic
Discharge suppression compound
Cu-mesh
Protective bag



Attention!
Installation is only allowed by a skilled person with the necessary education and according to these assembly instructions.
Follow operating instructions of your tools and devices!
Before beginning control the components for quality and quantity.
It is essential to observe the applicable safety regulations for working with high voltage equipment.

Assembly instructions:

Cable preparation:
Arrange the two cable ends in parallel with at least 150 mm overlap, see fig. 1.
Wipe off a sufficient piece of cable and place the outer heat-shrikable tube onto one of the cable ends. Strip outer sheath on cables according to measurements on fig. 1 (250 mm and 250 mm + overlap).

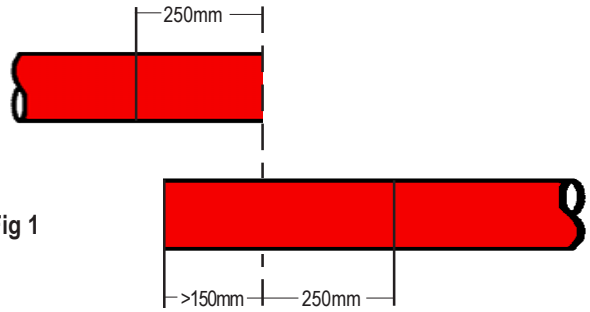


Fig 1

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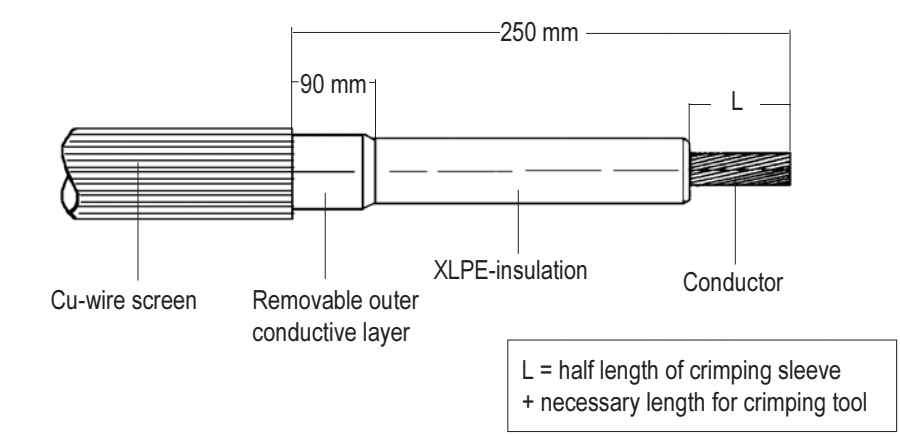
Phase preparation

2. Prepare both phases according to measurements on fig 2:

Bend the screening wires back along the cable sheath and secure temporarily with tape. Remove the semiconductive layers using our tool 5610582 or similar.



L = half length of crimping sleeve
+ necessary length for crimping tool

Assembly:

3. Place the heat shrinkable tubing on one of the cables.

4. Connect phases using crimping sleeves. Clean off any grease on each of the phases up to the removable outer layer. Remove any burrs.

5. Apply onto the crimping sleeve and maximum 5 mm of the XLPE-insulation on either side, a layer of yellow stress-control mastic: Apply mastic with appoximately 50% overlap and stretched out to about half its size for an even and uniform result, with at least the same diameter as the insulation.

6. The free part of the XLPE-insulation and the stress control mastic must be greased ligthly with the supplied Discharge Suppresion Compound.

Insulation:

7. Place the black stress control tube to cover the crimping sleeve symmetrically. Begin shrinking from the middle.

8. Apply enough heat to smooth out the contures of the stress control mastic in the area of the crimping sleeve before shrinking continues.

9. When the shrinking of the stress-control tube has been carried out correctly, place the first of the red insulation tubes symmetrically on top of the black stress control tube. Begin shrinking from the middle.

10. When shrinking of the red tube has been carried out correctly, place and shrink the other red tube in the same way.

11. Subsequently place the black conductive tube symmetrically on top of the red tubes and shrink as before.

Important!
All tubes must be shrunk in immediate succession.

Connection of earth wire:

12. After allowing the heat shrinkable tubing to cool for a little while, apply a layer of Cu-mesh with approximately 50% overlap on the entire splice.

13. Connect the earth wire using a crimping sleeve, and secure with a few rounds of tape.

Replace outer sheath:

13. Put the last black heat-shrinkable tube into place to cover the joint symmetrically and shrink from the middle and outwards.

When shrinking has been carried out correctly, put the joint into its final position and allow to cool for a few minutes before energizing.