JTS3 K

THREE CORE
HEATSHRINKABLE
STRAIGHT THROUGH JOINT

INSTALLATION INSTRUCTION IM2175i - ed. 15/01/2020

TYPE OF CABLE: Solid insulation (XLPE-HEPR) STA/SWA armour

SECTION: 25 - 500 mm²

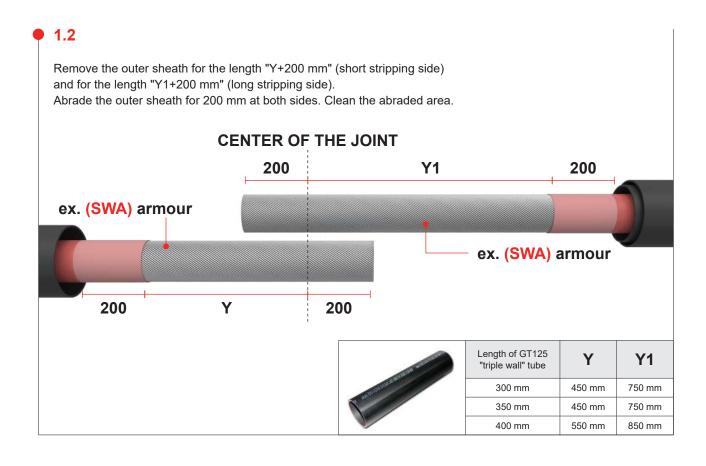
TYPE OF SCREEN: Copper tape screen

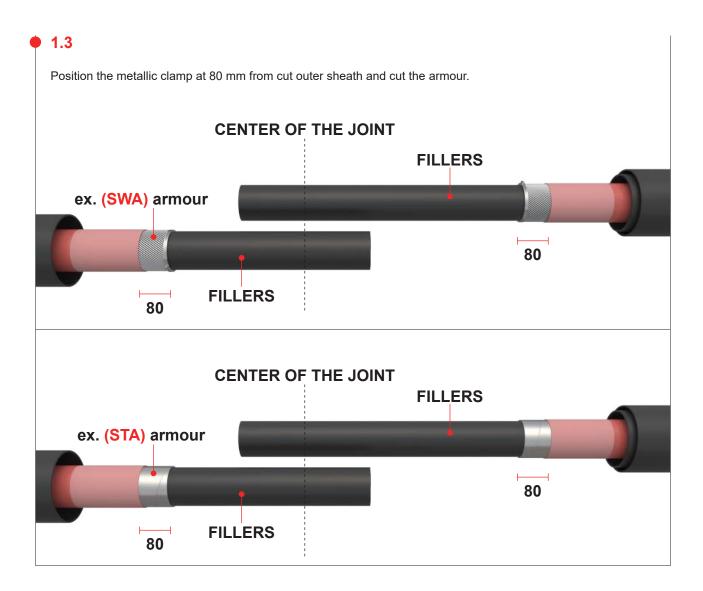
VOLTAGE: Umax 24 kV

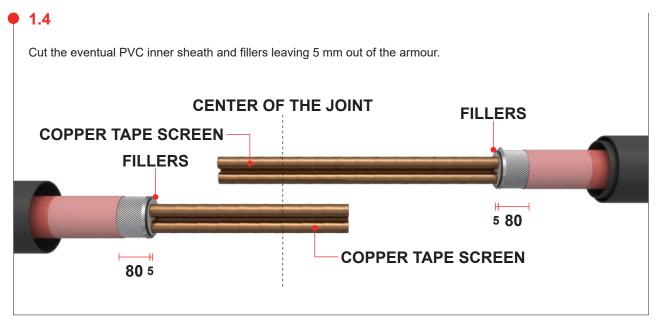


1 THREE CORE CABLE PREPARATION

Straighten and set cables at the joint position. Determine the center of the joint and cut the cables with a 200 mm overlap. Clean the cable for 2 m at both sides. Slide the two heatshrinkable end tubes "GT3" along each cable. Slide the heatshrinkable central tube "GT8" along one of the cable. Slide these tubes up to the position where the jointing work will not be disturbed. TUBE GT3 CENTER OF THE JOINT TUBE GT8 200 TUBE GT3 TUBE GT8

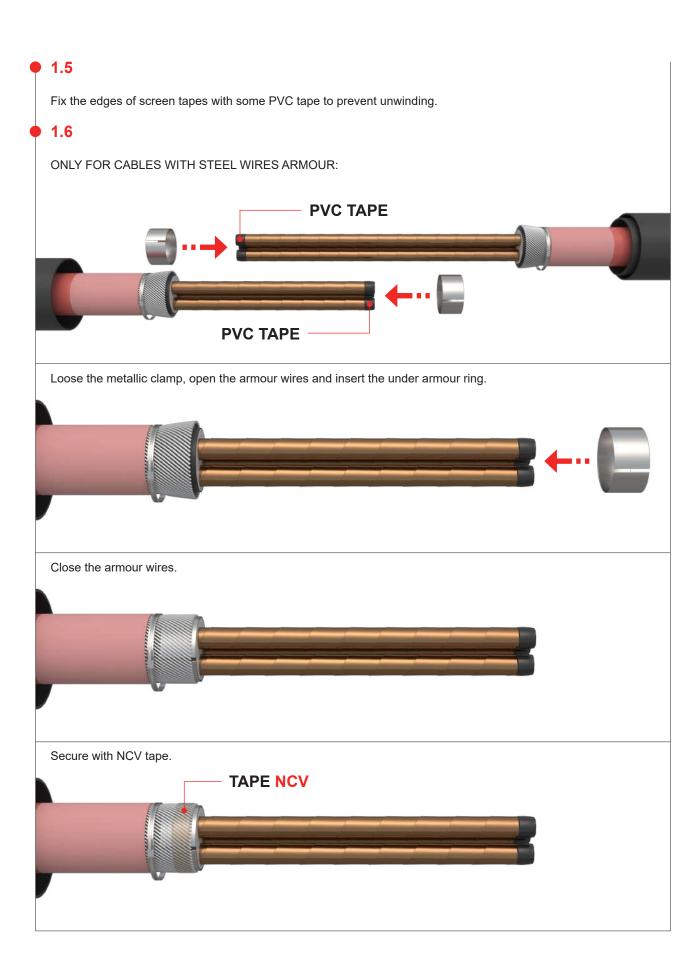










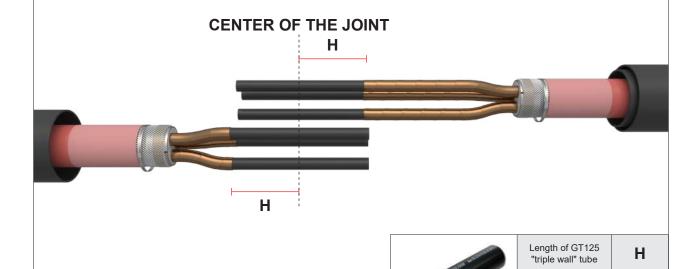


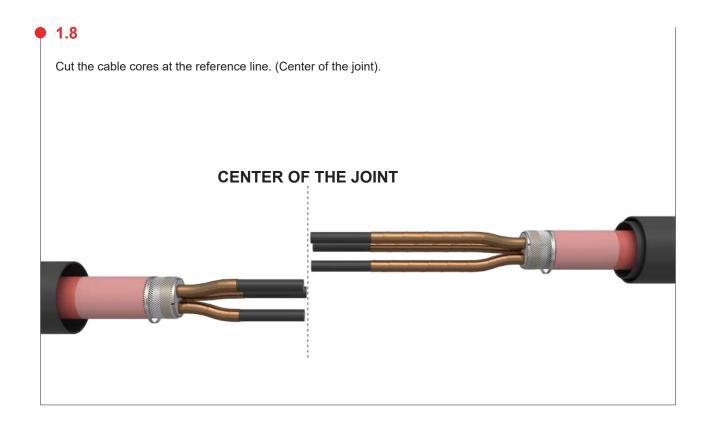


Shape the cable cores.

Remove the copper tape screen for the distance "H" from the center of the joint.

Fix the extremities of each tape screen with some PVC tape or copper adhesive tape (if supplied) to avoid unwinding.







300 mm

350 mm

400 mm

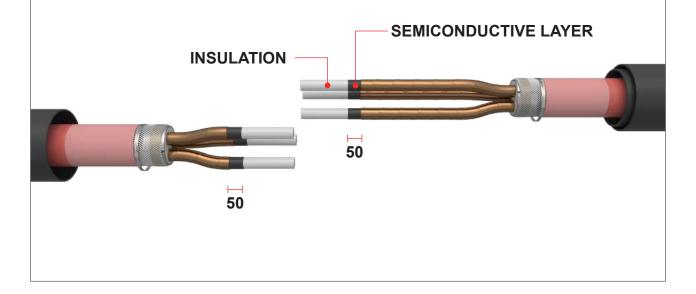
175 mm

195 mm

210 mm



Remove the semiconductive layer leaving 50 mm from the metallic screen. Take care not to damage the insulation.

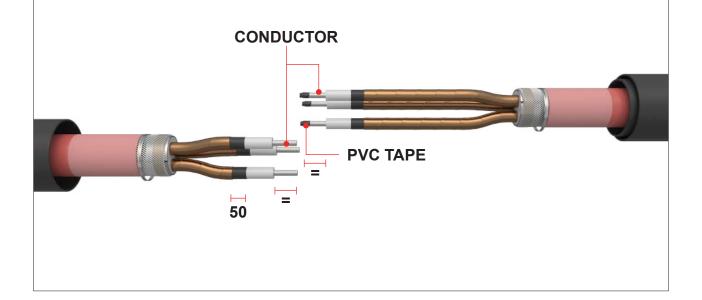


1.10

Bare the conductor for a length of inside depth of the connector for mechanical types or, in case of compression ones, for a length of inside depth of the connector + 5 mm.

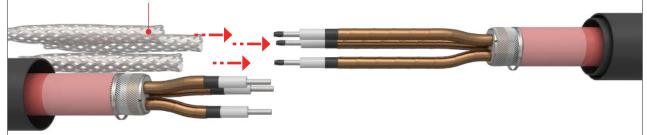
Clean and degrease the conductor.

As a protection, wrap few turns of adhesive tape around the conductor end (LONG STRIPPING SIDE).



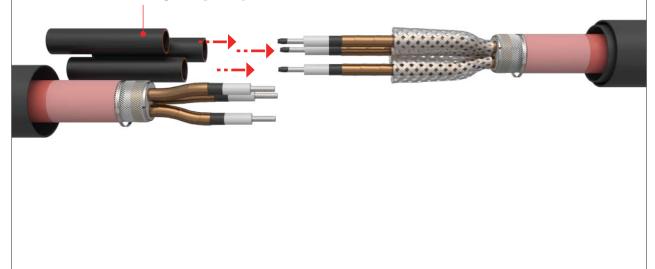
Slide the copper stocking meshes into the cable on THE LONG STRIPPING SIDE of the joint.

COPPER STOCKING MESH



Slide the triple wall tubes into the cable on the LONG STRIPPING SIDE of the joint.

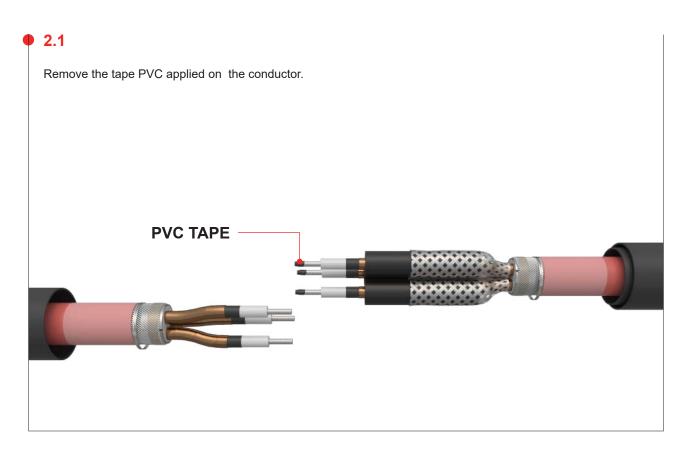
TRIPLE WALL TUBE GT125







2 ASSEMBLY OF THE JOINT



Install the connector onto the cable cores as per the manufacturer's instructions. If using hexagonal compression connectors ensure that any sharp edges and flashing are removed from the connector with a file or abrasive cloth. If using mechanical connectors make sure any indents left after shearing the bolts are filled with "CLAY" mastic.

Wrap the mastic patch around the connector area, centering the patch over the connector with equal distance at both sides. Do not squeeze the extremities.



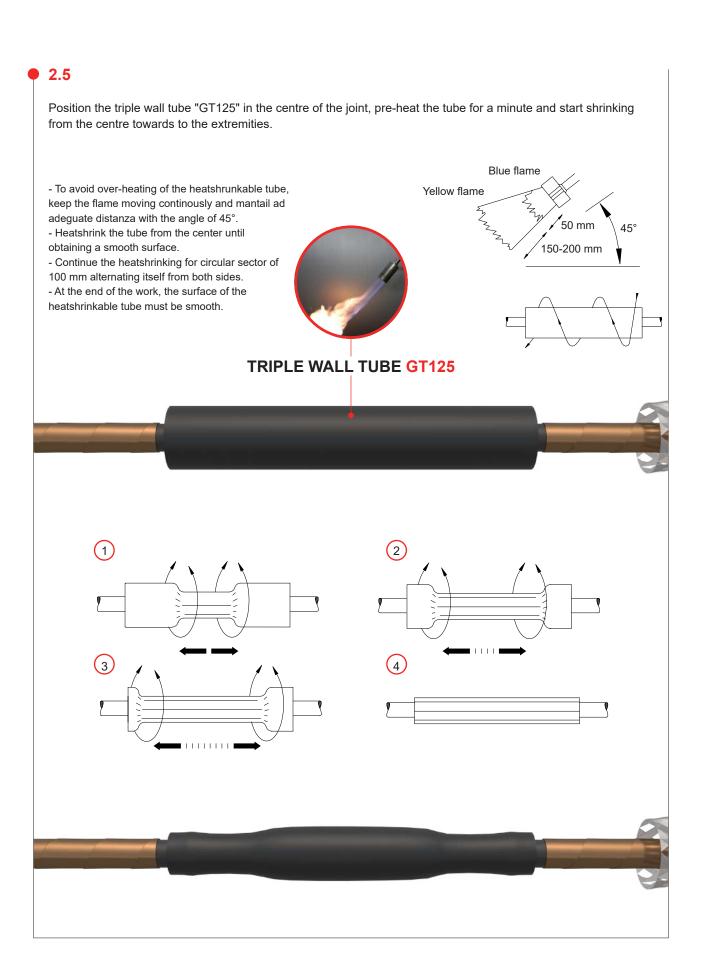
2.4

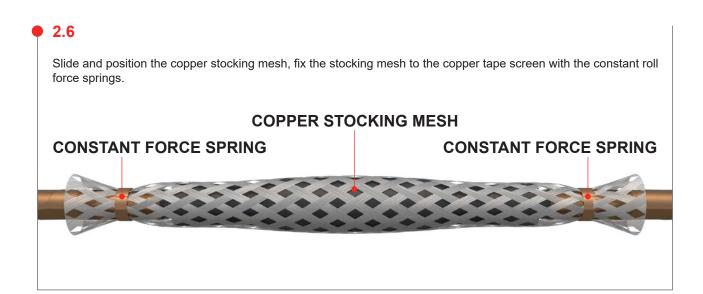
Apply a layer of stress relief mastic "OM" overlapping the semiconductive layer and the insulation of the cable (short mastic strip).











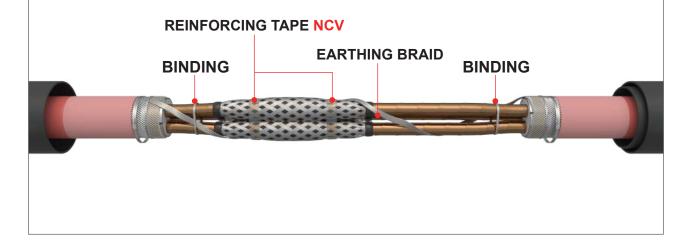








Wrap around the whole joint the earthing braid and fix to the armour and to the tape screen with a binding of tinned copper wire. Wrap around the cores with "NCV" reinforcing tape.

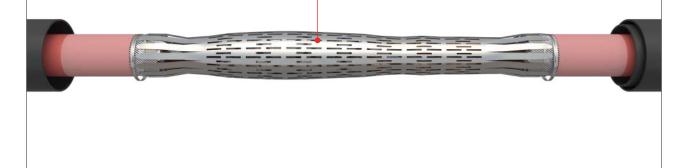


2.10

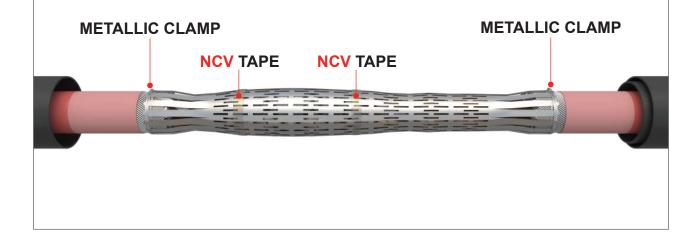
Clean the abraded area of the outer sheath.

Wrap around the metallic protection and position centrally over the jointing area.

METALLIC PROTECTION

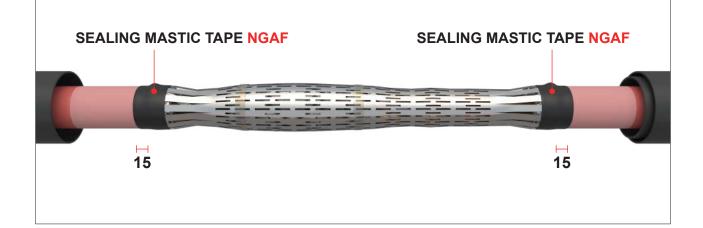


Wrap around the rolled mechanical protection some layers of NCV reinforcing tape
At both ends bend the fingers. Secure to the armour with metallic clamps. (TO BE PROPERLY TIGHTENED).



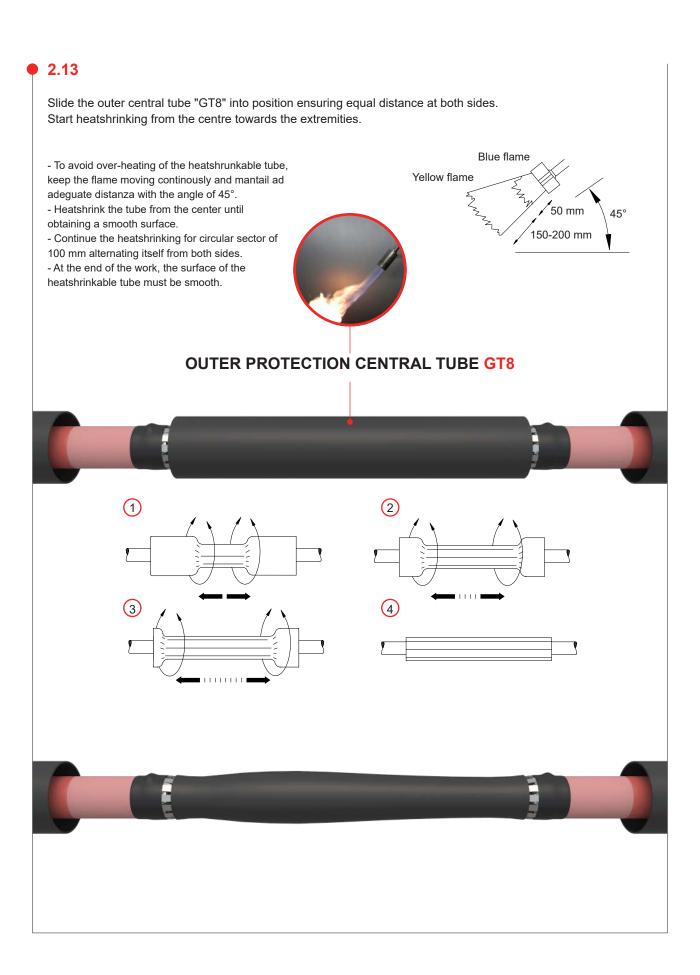
2.12

Apply a layer of sealing mastic tape "NGAF" (50% overlap) over the clamps till covering the outer sheath for 15 mm.















Adjust torch to give a soft blue flame with yellow tip.

Heatshrink tubes uniformly avoiding wrinkles along the surface.

Keep the flame moving continuously and maintain adequate distance to avoid over heating.

This product should be installed by competent personnel familiar with electrical equipment and safe operating practices. Parts contained in this kit should be visually inspected for possible damage, and installed in accordance with these instructions. These instructions are not intended as a substitute for adequate training and experience.



Please dispose of all waste according to environmental regulations.

 $The \ company \ reserves \ the \ right \ to \ alter \ without \ notice \ the \ information \ contained \ in \ this \ installation \ manual.$

