

**Installation Instruction  
EPP-0476-2/00**

**Raychem  
Screened Elbows 250A  
for Single Core  
Polymeric Insulated  
Cable 12 to 24 kV  
without armour**

**Type RSES**

www.hime

## Safety Warning

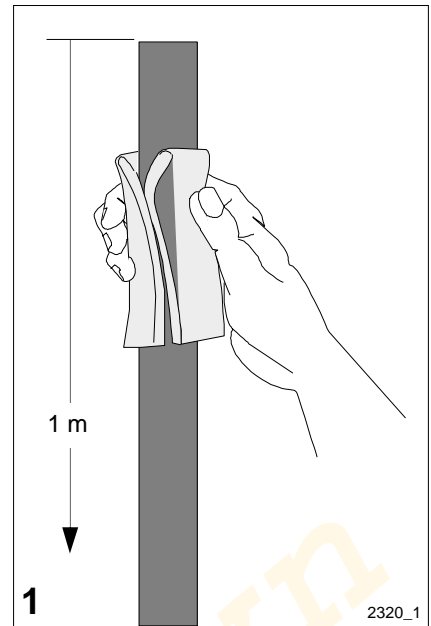
It is essential to observe the applicable safety regulations for working with high voltage equipment. For precise safety information please contact the responsible authority.

## Before Starting

Check to ensure that the kit you are going to use fits the cable. Refer to the kit label and the title of the Installation Instruction. It is possible that components or work steps have been improved since you last installed this product. Carefully read and follow the steps in the Installation Instruction.

The Information contained in these installation instructions is for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However, Tyco Electronics has no control over the field conditions which influence product installation.

It is the user's responsibility to determine the suitability of the installation method in the user's field conditions. Tyco Electronics' only obligations are those in Tyco Electronics' standard Conditions of Sale for this product and in no case will Tyco Electronics be liable for any other incidental, indirect or consequential damages arising from the use or misuse of the products. Raychem is a trade mark of Tyco International Ltd.



### Cable Preparation

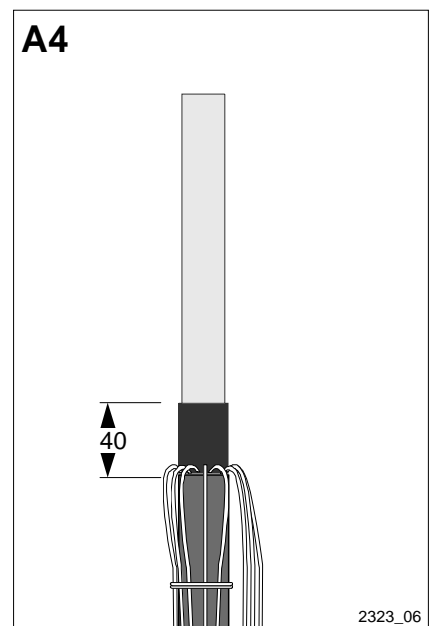
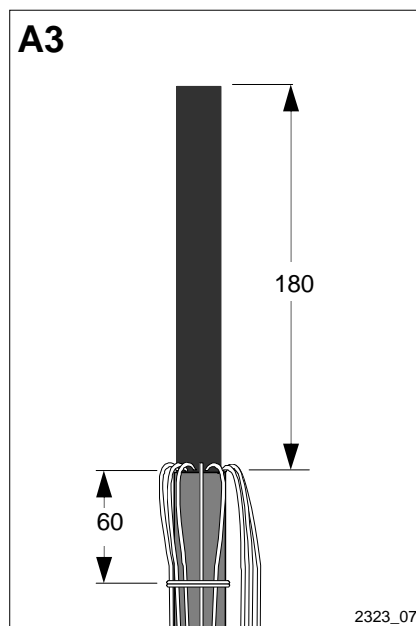
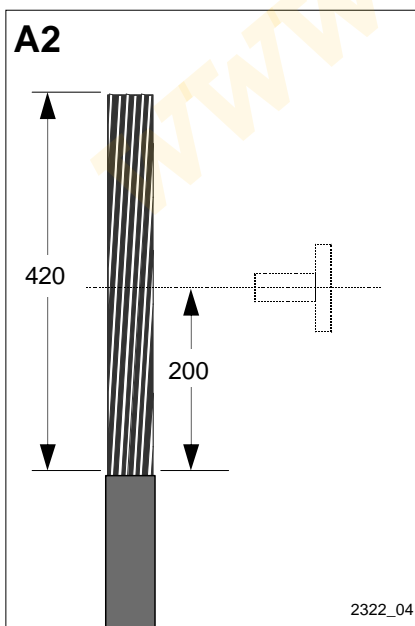
Clean and degrease the end of the overshath for a length of 1 metre with solvent wipe.

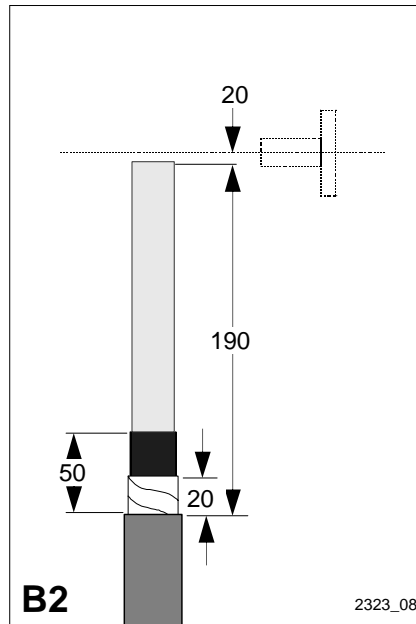
### A. Cable with Wire Shield

Position the cable.  
Mark the overshath 200 mm below the bushing centre.  
Cut the cable 420 mm above the mark and remove the overshath over this distance.

Bend the shielding wires back onto the overshath. With the exception of 3 strands, fix the shielding wires in place 60 mm below the overshath cut. Cut the cable 180 mm above the overshath cut.

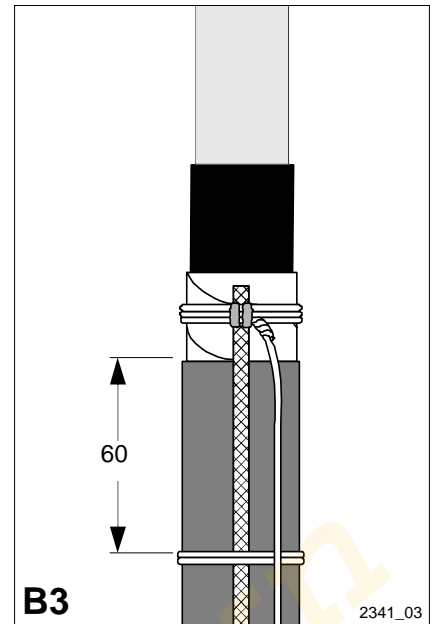
Remove the core screen according to the drawing. The surface of the insulation should be free from all traces of conductive material.  
**Note:** Do not nick the insulation. Smooth out any irregularities.





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**B. Cable with Tape Shield**

Cut the core according to the drawing. Remove the overshath for a distance of 190 mm. Remove the metal tape shield to within 20 mm of the overshath cut. Remove the core screen to within 50 mm of the overshath cut. The surface of the insulation should be free from all traces of conductive material.

**Note:** Do not nick the insulation. Smooth out any

Fix the earth lead to the metal tape shield, so that approximately 300 mm is left over. Fix the earth lead to the overshath 60 mm below the overshath cut.

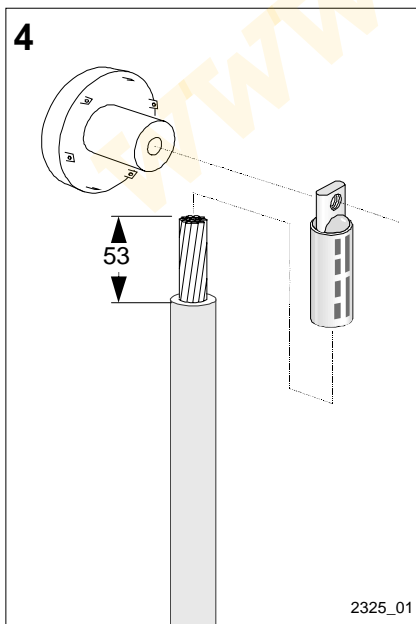
Cut back the insulation as shown in the drawing. Position the cable lug over the conductor so that the thread in the cable lug and the bushing are lined up with each other. Install the cable lug using crimping tools for aluminium according to the correct size as shown on the cable lug.  
**Note:** Use compression dies with a min. compression width of 7 mm only.

Clean the core insulation and the lug.

Apply silicone grease generously to the end of the insulation for a distance of approximately 50 mm.

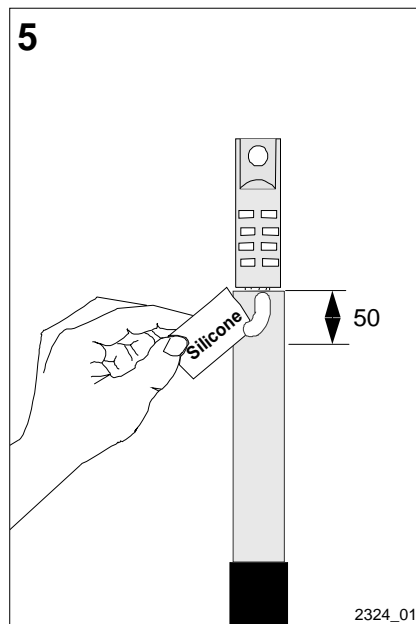
Push the elbow onto the termination. The front end of the adaptor should face the bushing. Line up the thread in the lug with the hole inside the adaptor.

**Note:** Do not touch the insulation surface of the cable.



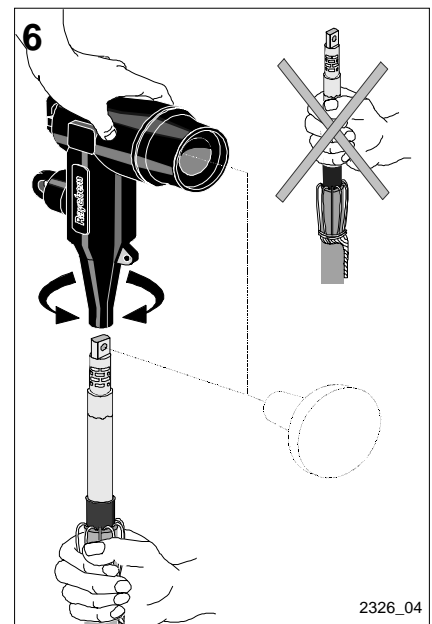
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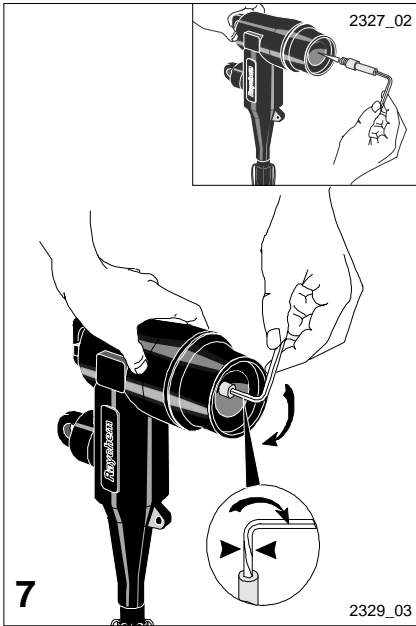
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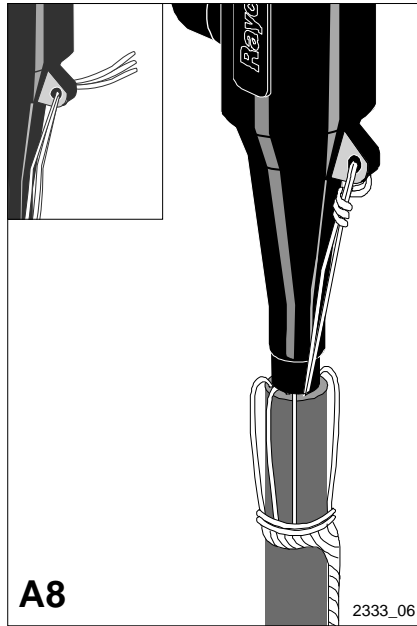


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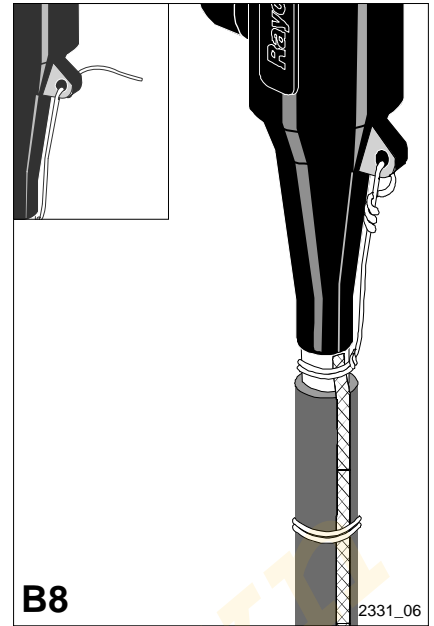
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**7**  
 Insert the connection pin into the elbow and fasten it with the allen key. Apply enough torque until the allen key is deformed.



**A. Cable with wire shield**  
 Pick up 3 strands of the shield wires. Feed them through the feed hole on the elbow and twist them together. Gather the shield wires together to form an earth lead.



**B. Cable with tape shield**  
 Pick up the end of the wire binder. Feed it through the hole of the elbow and twist it together.

Apply silicone grease generously to the bushing and the inside surface of the mating adapter.

Hook the wires of the clamping device into the bushing. Push the elbow onto the bushing.

Place the clamp over the centre of the elbow and fasten it. Installation completed.

Please dispose of all waste according to environmental regulations.

