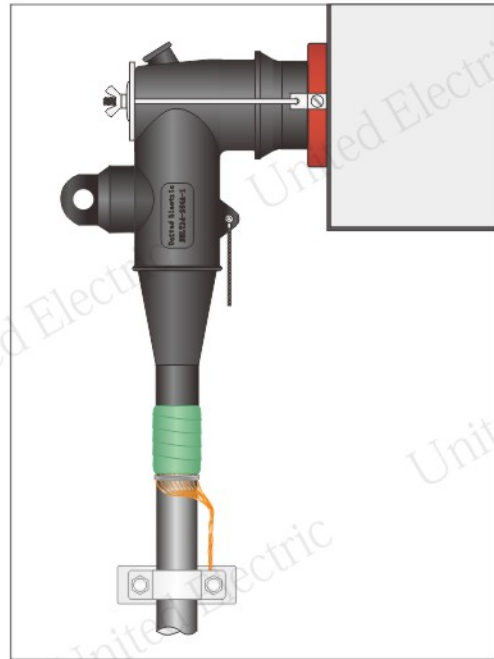


# United Electric

## Installation Instruction

### EELT24-250

24kV 250A Screened Elbow Connector, for 1- core, copper wire screened, XLPE cables



#### Generals

- Check and ensure the cable against any damage, water or moisture corrosion.
- The cable must be fixed right under the bushing without any distortion.
- Carefully read and follow the steps in the installation instruction. We are not responsible for any fault from incorrect installation.
- Do not nick the connector body during all the procedure of operation.

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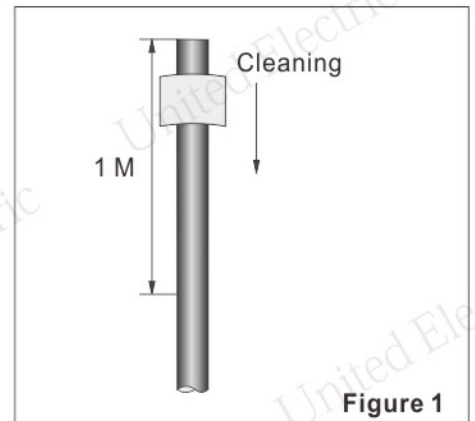
**1. Product selection guide:**

**Table 1**

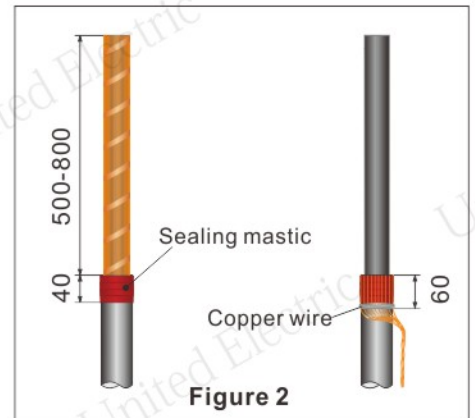
Size	Suit for outer diameter of cable insulation Ø (mm)	Suit for cable conductor size (sq.mm)
		$U_m=24kV$
1 #	16.8~19.2	35
2 #	19.7~22.5	50
3 #	21.5~24.6	70, 95
4 #	23.9~27.3	120

**2. Cable preparation**

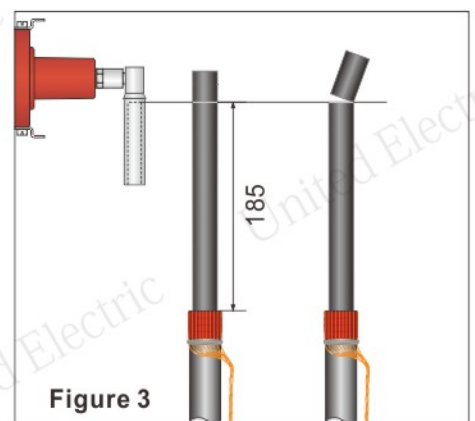
- Cut the cables to the corresponding length, leave enough length for copper wires connection down to the earthing busbar.
- Clean the cable sheath approx. 1 m length.



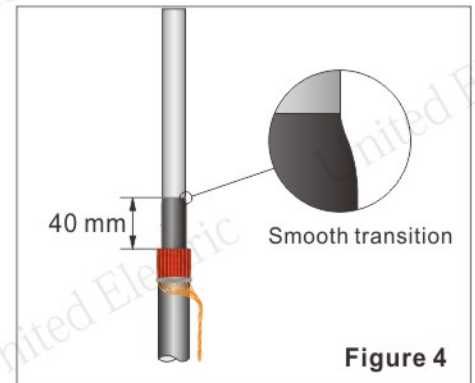
- Remove the cable outer sheath for the length of 500-800mm as request on site.
- Wrap around one layer sealing mastic over the cable sheath with 50% overlapping (half stretching) for 40 mm from the cable sheath end.



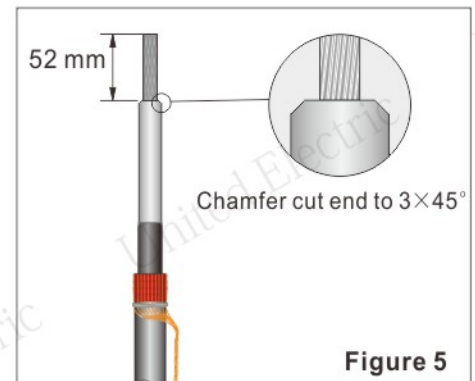
- Measure 185 mm from the cut end of cable sheath, mark a reference line over cable insulation screen.
- Cut the cable at the reference line.



- Remove the cable screen to 40mm.  
**Note: Do not nick the cable insulation.**
- The cable insulation surface should be smooth and free from any conductive material.
- The cable screen cut should be smooth transition, without any turnup and sharp-angle.

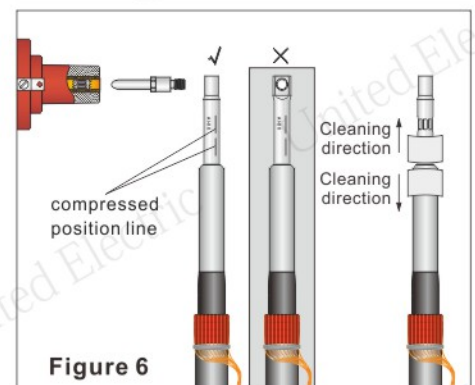


- Remove 52mm cable insulation from cut end of cable conductor.
- Chamfer the cable insulation cut to 3x45°.

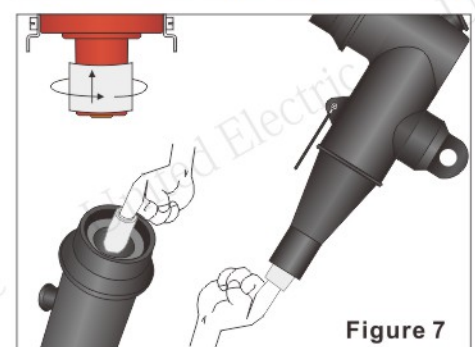


### 3. Complete Installation

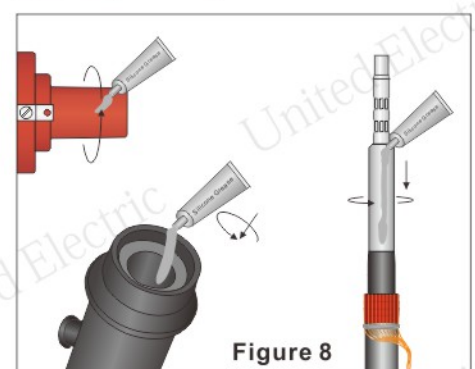
- Place cable lug onto cable conductor, compress the lug with compress tool.
- Remove any sharp edges from compressed lug.
- Clean the cable insulation from the cut end downwards with cleaning tissue, do not reuse the tissue on cable insulation. Clean the compressed lug very carefully.



- Clean inner surface of the elbow body with cleaning tissue.
- Clean outer surface of connecting bushing with cleaning tissue.



- Coat silicone grease onto the surface of elbow body eye.
- Coat silicone grease onto the surface of cable insulation.
- Coat silicone grease onto the outer surface of connecting bushing



- Align connector body with cable lug, push the connector body onto cable insulation layer until the cable lug located at the channel of connector body, and the threaded hole of cable lug is align with the pin hole of elbow connector body.

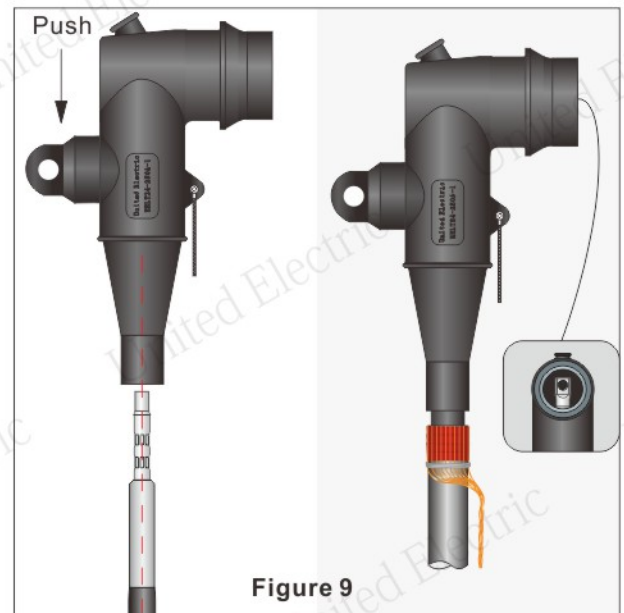


Figure 9

- Align the contact pin with the eye of cable lug, connect contact pin with cable lug by socket wrench.
- Align the contact pin with the contact hole of bushing, insert the contact pin into the contact hole of bushing.

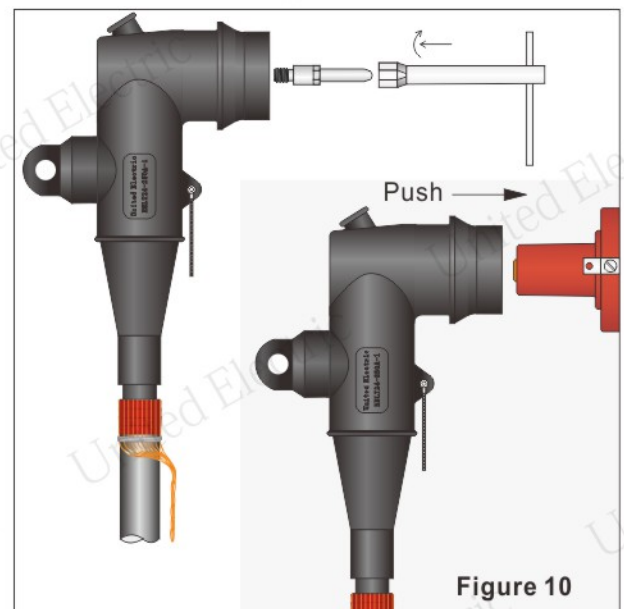


Figure 10

- Assemble the holding bails to the bushing and connector body. Make sure that the connector body is installed well onto the bushing.
- Half-overlapping wrap semi-conductive tape with half stretching over the tail of elbow connector (cover 20mm), and fill the gap between the tail of elbow body and cable outer sheath as shown in figure 11.
- Wrap around PVC tape cover the semi-conductive tape.  
**Note:** Use the red, blue, yellow PVC tape to mark different phases.
- Connect copper wires earth lead and tinned copper grounding wire to the earthing point. Installation complete.

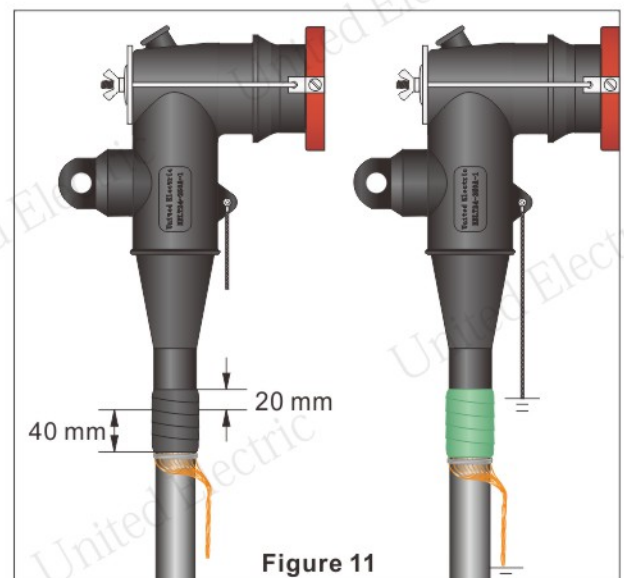
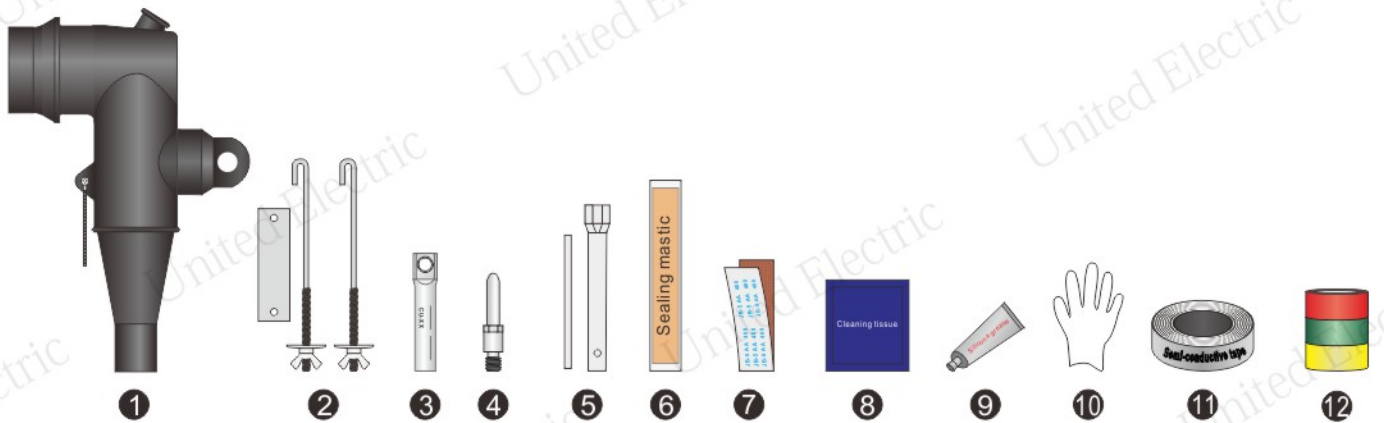


Figure 11

# Kit Contents

24kV 250A Screen elbow connector, for 1-core XLPE insulated cable,  
copper wire screen, no armored  
1set=3phase



① 3×Connector body	⑤ 1×Socket wrench	⑦ 2×Abrasive strap	⑩ 1×Plastic groove
② 3×Bail restraint kit	⑥ 1×Silicone grease	⑧ 6×Cleaning tissue	⑪ 1×Semi-conductive tape
③ 3×Cable lug	④ 3×Contact pin	⑨ 1×Silicone grease	⑫ 3×PVC tape