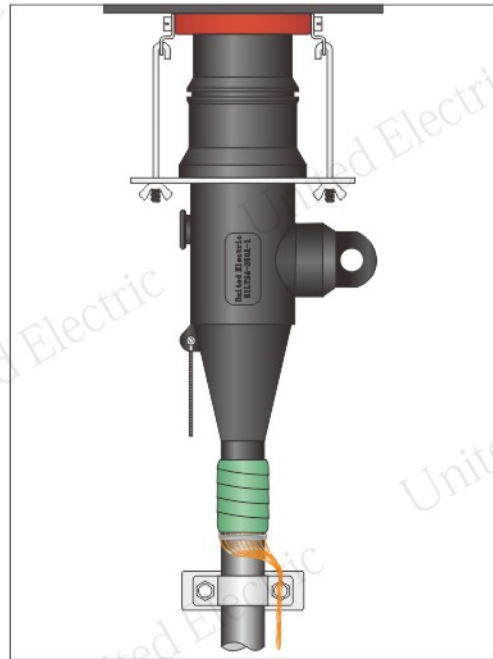


United Electric

Installation Instruction

EILT24-250

24kV 250A Screened In-line
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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E-mail: export@ueaccessory.com

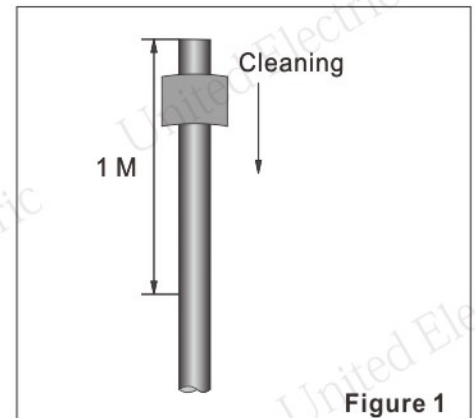
Web: www.ueaccessory.com

1. Product selection guide:

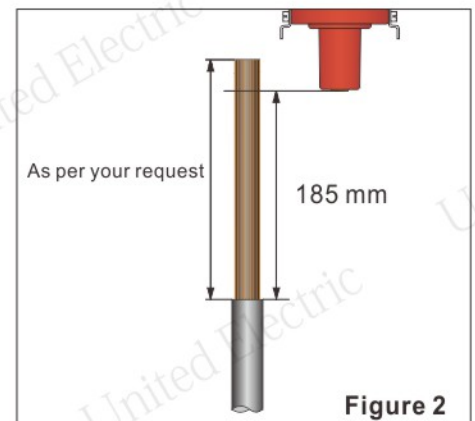
Type	12/20 (24) kV	Outer diameter of insulation Ø (mm)
EILT24-250A-1-35	35 mm ²	16.8-19.2
EILT24-250A-1-50	50 mm ²	19.7-22.5
EILT24-250A-1-70	70 mm ²	21.5-24.6
EILT24-250A-1-95	95 mm ²	21.5-24.6
EILT24-250A-1-120	120 mm ²	23.9-27.3
EILT24-250A-1-150	150 mm ²	26.2-28.1

2. Cable preparation

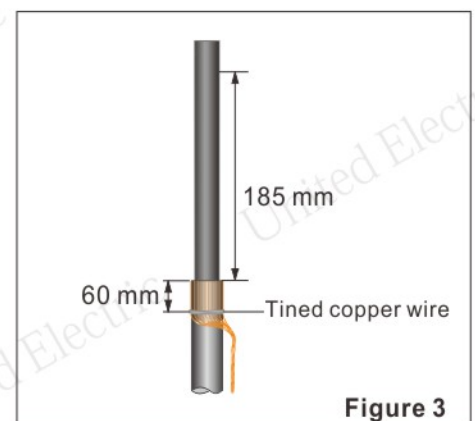
- Cut the cables to the corresponding length, leave enough length for copper wires connection down to the earthing busbar.
- Clean the cable sheath approx. 1 m length.



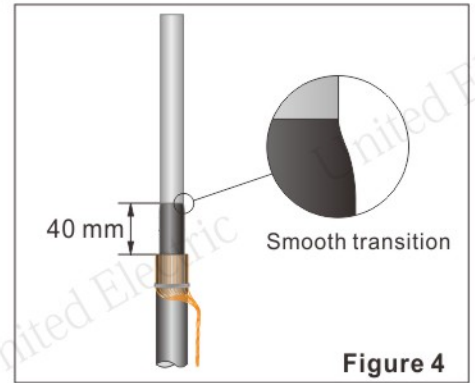
- Remove the cable sheath for the length requested.
- Align cable with switch gear bushing, measure 185 mm from the cut end of cable sheath to the bushing, mark a reference line over cable sheath level with the bottom of bushing.
- Check the length of copper wires, leave enough length of copper wire to connect to the earthing busbar. Cut the cable at the reference line.



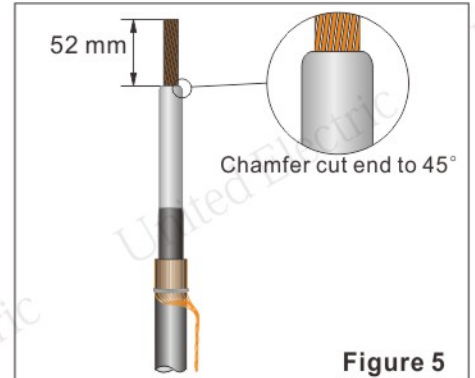
- Fold back copper wires down to the cable sheath and fix them over the cable sheath so that copper wires are not crisscross.
- Fix copper wires over cable sheath with tinned copper wire approximate 60 mm from the end of cable sheath.



- 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.

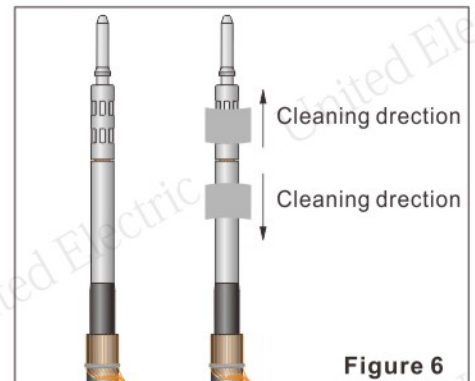


- Remove 52mm cable insulation from cut end of cable conductor.
- Chamfer the cable insulation cut to 45°.

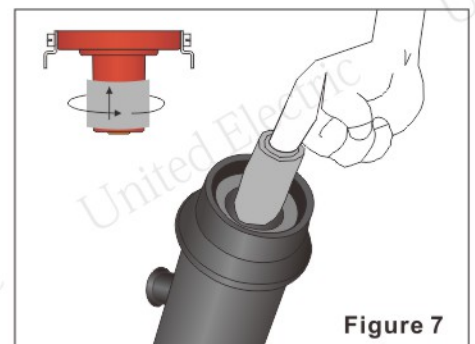


2. Complete Installation

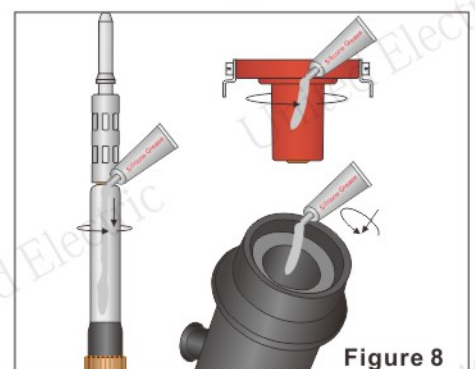
- Place cable lug onto cable conductor, compress the lug with compress tool.
- Remove any sharp edges from compressed lug.
- Clean the cable insulation from the cut end downwards with cleaning tissue, do not reuse the tissue on cable insulation. Clean the compressed lug very carefully.



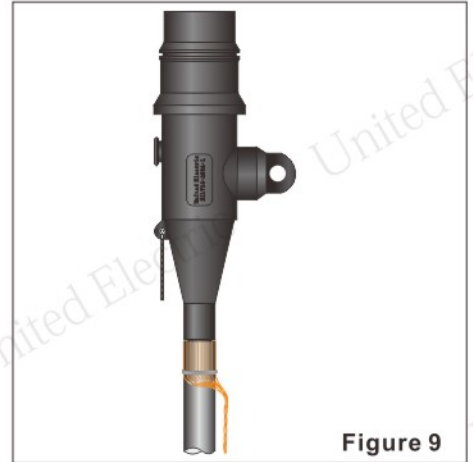
- Clean inner surface of the straight body eye with cleaning tissue.
- Clean outer surface of connecting bushing with cleaning tissue.



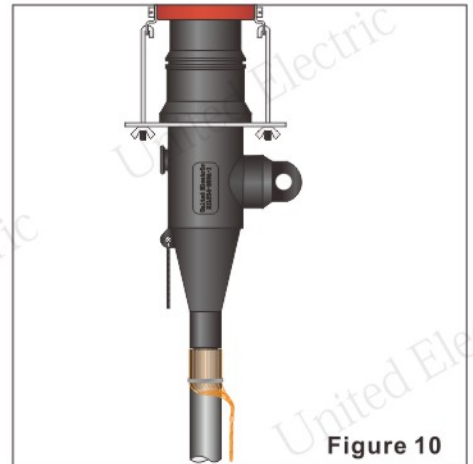
- Coat silicone grease onto the surface of straight body eye.
- Coat silicone grease onto the surface of cable insulation.
- Coat silicone grease onto the outer surface of connecting bushing



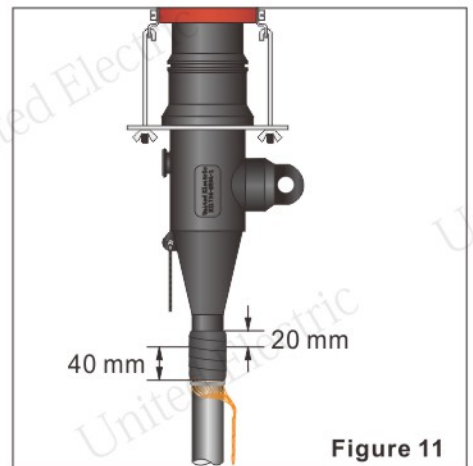
- Align straight body eye with cable insulation. Slip on the straight body over cable insulation.



- Align straight body eye with connecting bushing, push straight body onto connecting bushing.
- Assemble the holding bails to the bushing and straight connector
- Make sure that the straight body is installed well onto the bushing



- Wrap around 4 layer of semi-conductive tape with 50% overlapping (half stretching) over the copper wire screen for 40 mm, and fill the gap between the tail of straight body and copper screen wire, and overlap the tail of straight connector for 20mm.



- Wrap around PVC tape over the semi-conductive tape.
Note: Use the red, green, yellow PVC tape to mark different phases.
- Connect screen copper wires and tinned copper grounding wire to the earthing point

