



Member of DEHN group

# DESItem end termination for 3-core XLPE cables 12-17,5 kV type EMI/EMU 17\_3

## ASSEMBLING INSTRUCTIONS

### Important!

Installation is only allowed for skilled personnel with the necessary education and knowledge of relevant safety instructions. Read through instructions before starting the installation. Use only approved dedicated special tools for removal of cable sheath, easy-strip layer and XLPE insulation. Avoid excess use of liquid cleansers.

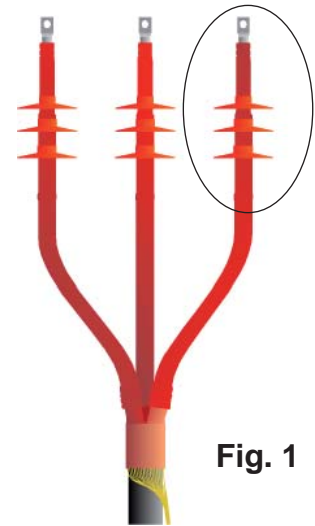


Fig. 1

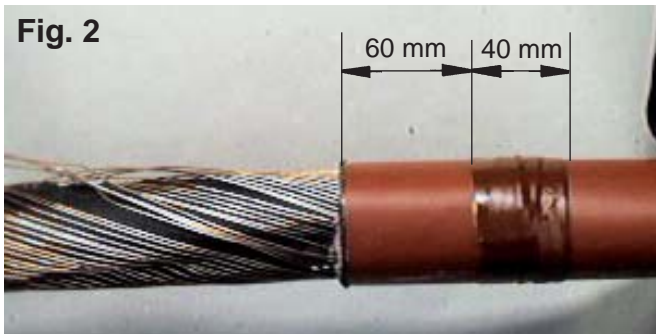


Fig. 2

- 1) Remove cable sheath on length in accordance with the position of the cable breakout, minimum 400 mm for indoor installation. Apply 2 turns of red sealing mastic as indicated in fig. 2.

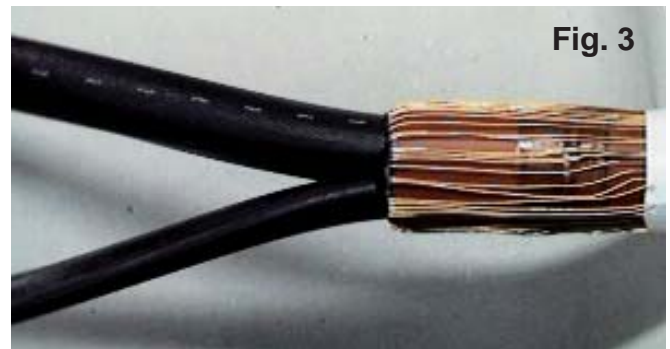


Fig. 3

- 2) Bend the screen wires backwards along the cable sheath, distribute then uniformly in the mastic and fix them with tape approximately 150 mm from the edge of the cable sheath.



Fig. 4

- 3) Remove the protection foil from the inside of the cable breakout and push it onto the cable. Start shrinking on the 3-core and subsequently on the single cores. Wind 2 Cu-wires around the 3-core at the edge of the cable breakout.

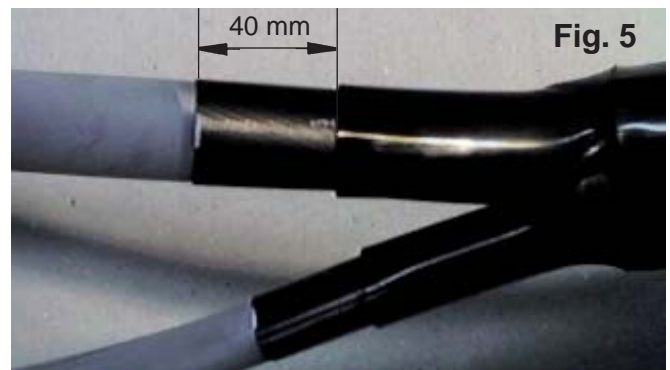
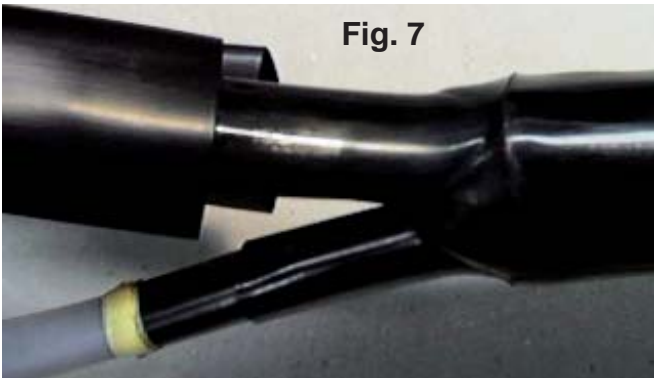


Fig. 5

- 4) Remove the conductive easy-strip layer to 40 mm from the edge of the cable breakout according to fig. 5. Clean the XLPE with a dry and clean cloth.



- 5) The yellow stress grading mastic is stretched to 10 times original length. Apply it onto approximately 3 mm of the easy-strip conductive layer and max. 10 mm of the XLPE-insulation. It should be homogenous and shaped like a cone.



- 6) Align the 3 black stress control tubes with the edge of the cable breakout as shown in fig. 7 and shrink.



- 7) Remove the XLPE insulation on the required length of the phase cores and assemble the cable lugs.



- 8) On each phase, apply 1 turn of red sealing mastic onto the assembly of cable breakout and stress control tube as shown in fig. 9.



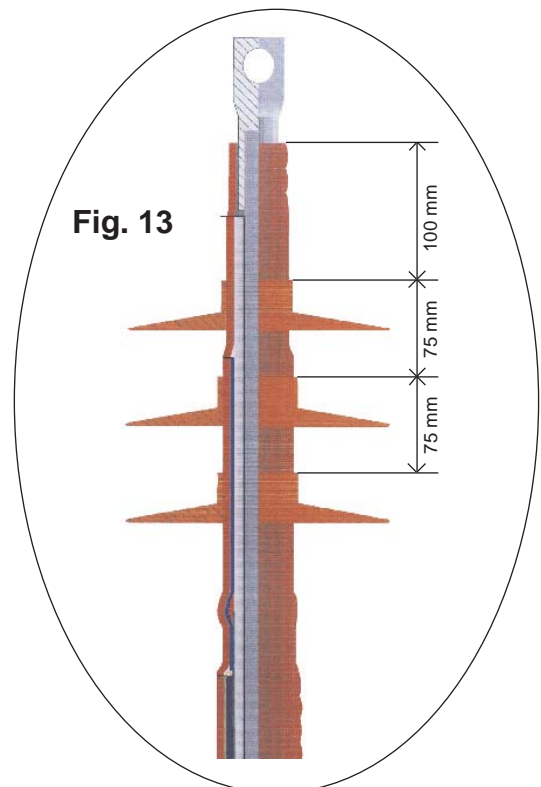
- 9) Remove burrs, excess grease etc. from the cable lug. Apply red sealing mastic with a minor overlap onto the cable lug and 20 mm of the XLPE insulation.



- 10) Adapt the length of the antitrack tube in accordance with fig. 11 so that it covers the cable breakout and the cable lug. Observe the phase sequence/designation



- 11) Shrink the red antitrack tubes and connect the end termination. At the edge of the easy-strip conductive layer the distances between the phase cores must be minimum 30 mm.



- 12) For **outdoor** application, 3 pcs. of creepage extension sheds should be applied onto each end termination as shown in fig. 13.