THORNE & DERRICK INTERNATIONAL
Thorne & Derrick
+44 (0) 191 410 4292
www.powerandcables.com

Shrink Polymer Systems

Cable Installation Materials – 24 volts to 36 kV

INSTALLATION INSTRUCTION
ABANDONMENT KITS FOR 0.6-33kV 3-5 CORE XLPE OR EPR ARMOURED ARMOURED CABLES

- THESE INSTRUCTIONS SHOULD BE FOLLOWED BY A TRAINED COMPETENT JOINTER
- A PROPANE GAS TORCH IS THE PREFERRED METHOD FOR SHRINKING THESE MATERIALS
- ENSURE THAT THE MATERIALS ARE KEPT CLEAN AND DRY AND ARE FREE FROM DUST, SAND AND GREASE
- PLEASE CALL SHRINK POLYMER SYSTEMS FOR ANY ADVICE

DATE OF ISSUE: 23.11.12

Abandonment kits

If cables are left in the ground and must be sealed but not energised, abandonment kits can be supplied. From the outside, they look similar to live pot end kits, but internally, the phase/s are connected to earth so that if a voltage is applied to the cables by mistake, an immediate earth fault occurs which trips the circuit breaker.

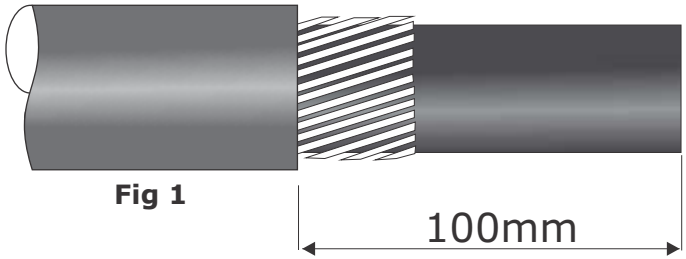

Fig 1

1. Remove the outer cable jacket and expose approximately 100mm of the inner cable bedding with the cores beneath.

2. If cable is armoured or has a braid screen, expose the armour wires or screen to the length of the armour support ring. Fit the support ring as shown in Fig 2.

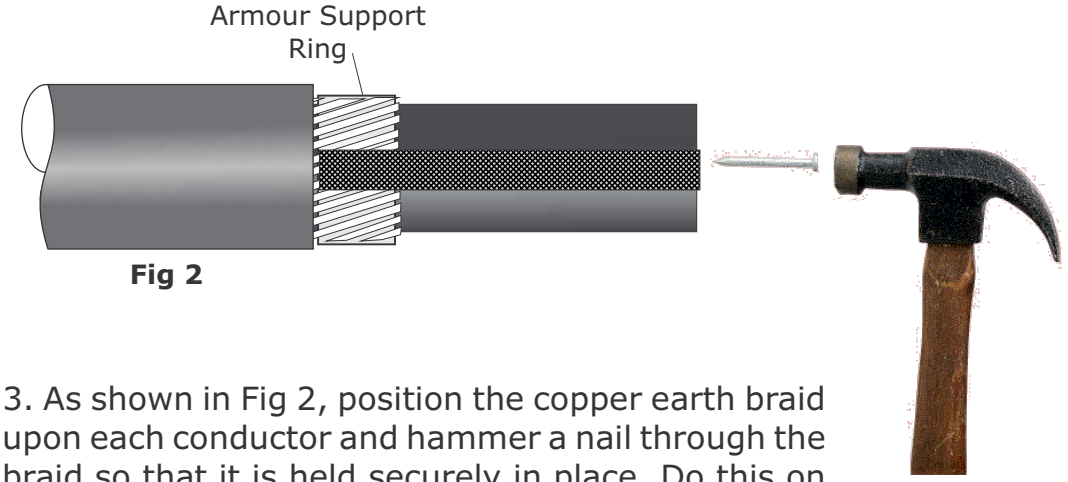

Fig 2

3. As shown in Fig 2, position the copper earth braid upon each conductor and hammer a nail through the braid so that it is held securely in place. Do this on each core with the same earth braid.

Note: if solid aluminium conductor, remove some insulation on each core and use the copper mesh supplied to wrap around the conductors before taking this back to the armour wires.

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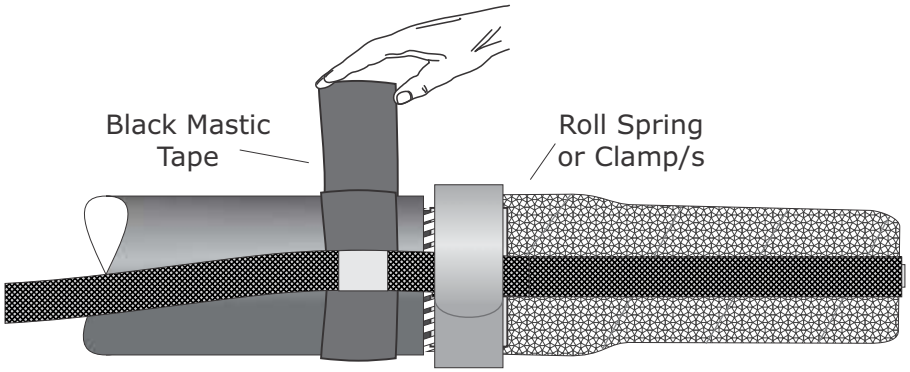

Fig 3

4. Wrap copper mesh all around the cable and secure along with the earth braid to the armour wires/braid screen with the worm drive clamp or roll spring supplied as shown above in Fig 3. Apply black mastic tape over any sharp points.

Note: if non armoured cable and if specified, the kit can be supplied with a copper strap to bond to earth externally. Position the solder block on a turn of mastic tape and apply a further turn of tape as shown above in Fig 3.

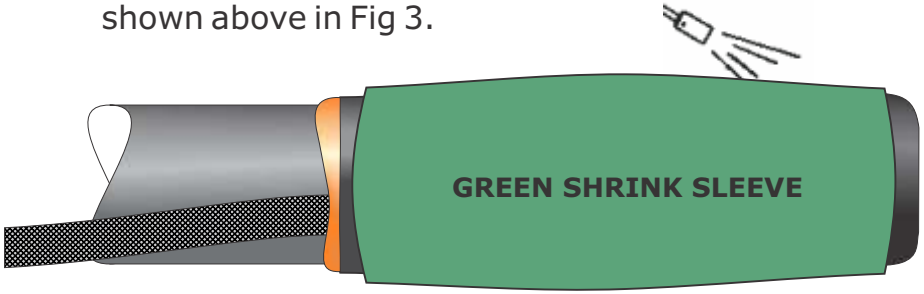

Fig 5

6. Additional green heatshrink sleeve can be supplied to fit onto the outside of the abandonment kit to comply with DNO specifications. Trim before fitting if necessary.

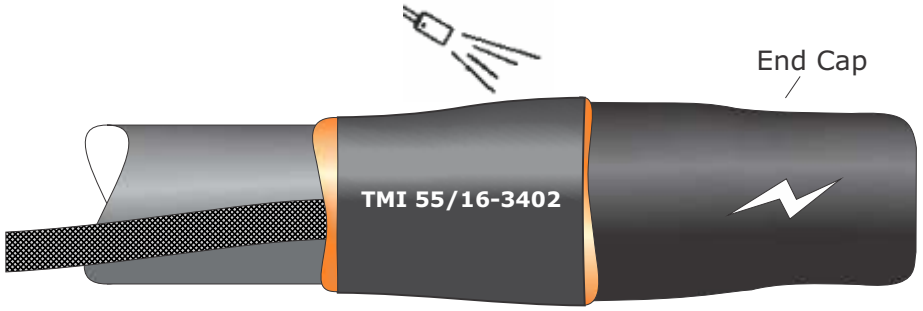

Fig 4

5.Position the heatshrink end cap over the cable and using a suitable heat source, shrink the cap into position.

If the cap does not cover the exposed earthing, position the additional tube and shrink so that it overlaps onto the outer cable sheath and onto the cap. **Note:** clean and abrade the outer cable jacket before fitting.