

INSTALLATION INSTRUCTIONS

Lower Termination Instructions for LTERMKIT-Mk3 for *HVSC Plus*.

Note: This Document is to be used in conjunction with the LTERMKIT-MK3 on *HVSC Plus* cable only. Using the following guide, check the cable first prior to performing the termination to ensure the use of the correct lower termination kit.

HVSC Plus cable has an outer diameter of approximately 35 mm and has an aluminum stranded centre conductor and copper tape screen (this can be easily seen from the end of the cable).

This termination kit will not work with any other type of cable.

Tools and parts required for the completion of *HVSC Plus* lower termination include:

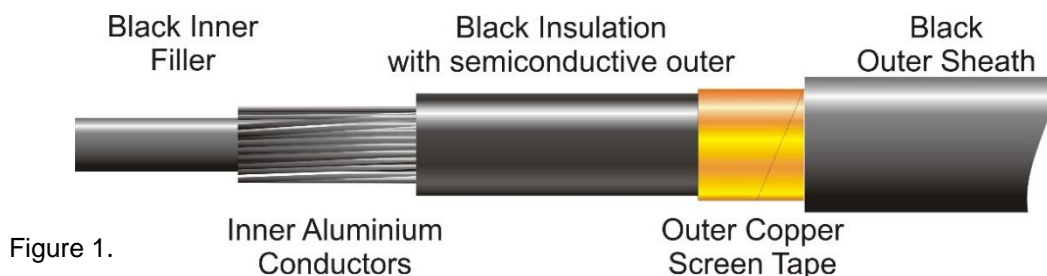
- Compression or mechanical crimping tool (for 95 mm² crimp lug)
- Sharp knife
- Shifting spanner (or 17 mm A.F. spanner/socket)
- Rubber gloves
- Tape measure (metric)

Lower Termination Kit consists of:

- Instructions
- 1 x roll of waterproof tape
- 1 x 95 mm² Crimp lug
- 2 x Warning labels
- U-Bolt earth clamp
- 1 x tube of conductive paste

Lower Termination Instructions

The diagram below shows the different layers of the *HVSC Plus* cable and indicates their names as referred to in the following instructions:



INSTALLATION INSTRUCTIONS

1. First, remove the black outer sheath for a length of 15 cm by cutting radially round the HVSC Plus cable with a sharp knife. The lengthwise cut can also be completed with a knife, but take great care not to score or damage the copper tape. Cut and remove the material lining over the copper tape. (Fig 2)

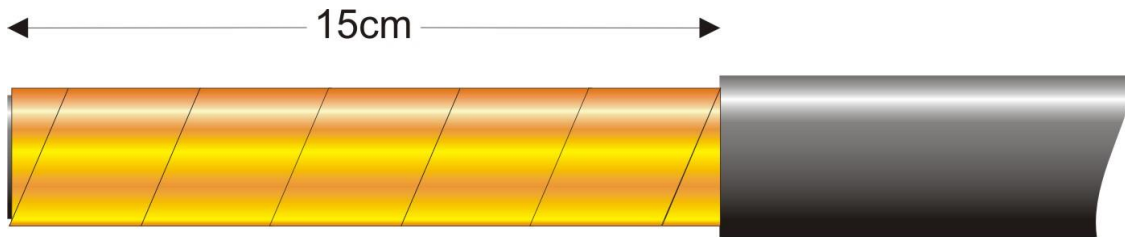


Figure 2.

2. Carefully unwind the copper tape to expose about 7 cm of the sheath underneath. Again, be careful not to damage the copper tape during this process. Measure 5 cm from the end of the cable and remove the Black insulated section of the sheath over the aluminium conductors (Fig 3). Note: There are many valid ways of removing this layer, but it is very important that the aluminium conductor strands are not scored or damaged in any way as this will decrease their strength and may lead to breakage when bending them for insertion into the crimp lug.
3. Cut and remove the black binding tape from over the aluminium strands. Remove at least 3 cm of the black inner filler core under the inner aluminium conductors by carefully bending back the conductor strands to expose the filler core then cut and remove the core with a knife. Carefully bend the conductors back to allow them to be fed into the lug. (Fig 3).

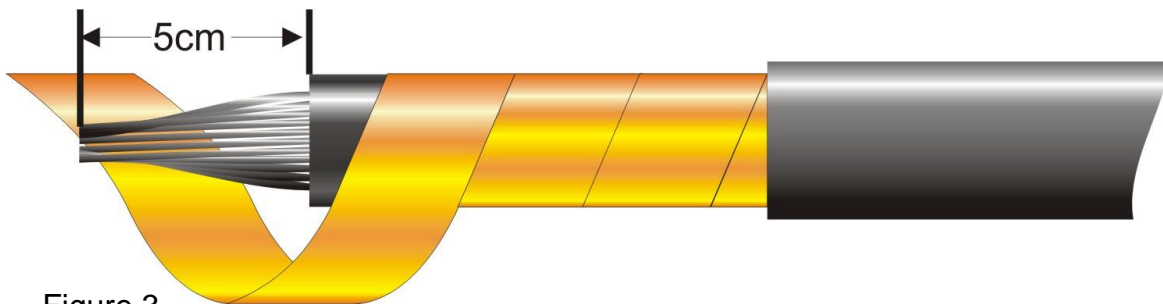


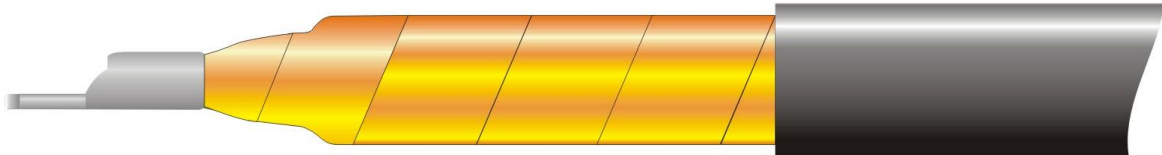
Figure 3.

4. Using a rubber glove, apply all conductive paste evenly over the 5 cm length of aluminium strands prior to re-wrapping the copper tape.

INSTALLATION INSTRUCTIONS

5. Re-wrap the copper tape back into its original position neatly over the aluminium conductors. Wrap the tape as tight as possible over the aluminium strands and place both the tape and strands into the supplied 95 mm² crimp lug and crimp securely using a suitable compression or mechanical crimping tool. (Fig 4). Note, this may require crimping at 95 mm² then again at 70 mm² to obtain a secure compression.

Figure 4.



6. Connect the crimp lug to the earthing system using the supplied U-bolt earth clamp if necessary (Fig 5). Ensure the connection is aligned correctly and tightly secured using a 17 mm spanner, socket or shifting spanner.

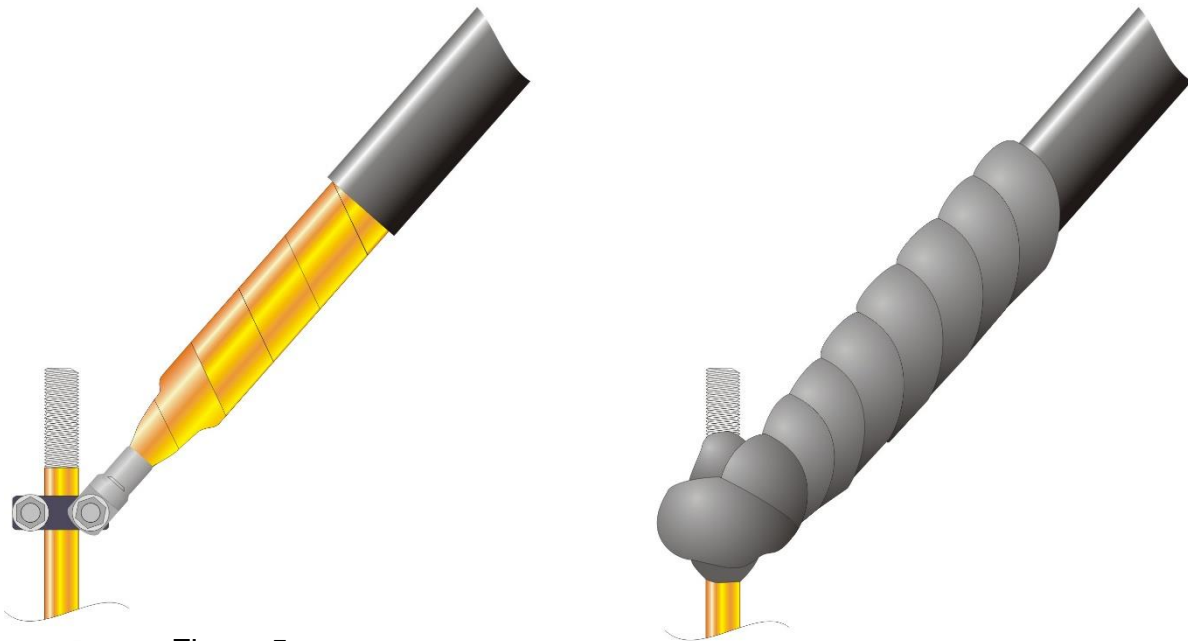


Figure 5.

7. Use the waterproofing mastic tape to completely cover all exposed conductive areas of the lower termination and to seal the termination from moisture ingress where it connects to the earthing system (Fig 5).
8. Place the warning labels on or next to the HVSC Plus Cable where they can be easily seen and read by anyone with access to that area.