



# Shrink Polymer Systems

Cable Installation Materials – 24 volts to 36 kV

## SUPPLEMENT I INSTRUCTION SHEET ADDING STAINLESS STEEL TERMINATION PROTECTION MESH LAYER TO HEATSHRINK CABLE JOINT KITS

In locations where the possibility of termites exist, assuming that the electrical cables used are specified to be termite resistant, it is therefore logical and very important that any cable joints installed are also resistant to the potential damage that can be inflicted by termite attack.

One of the most successful methods of providing protection to a cable joint, is the application of a flexible stainless steel mesh which is tightly wrapped and secured to the termite proof layer incorporated within the cable. The mesh must have a weave small enough so that the head of the termite cannot penetrate between the gaps.

### Method of Installation

1. Generally, the length and width of the stainless steel mesh sheet will be pre-determined and supplied within the joint kit. If bulk supplied, unroll the mesh, measure and carefully cut a sheet using the following formula: -

Length = the length should be from one end of the exposed nylon layer to the other dependant upon cable size

Width = circumference of joint (at the largest point) + 100mm



Fig 1

### Important

Before fitting the outer shrink tube on the joint, the stainless steel mesh (termite proof layer) must be installed.

2. After following the main instruction sheet and installing the inner shrink tube that partially covers the exposed nylon bedding at each side of the joint, wrap the mesh around the joint so that it overlaps equally at both sides.

Note: it is advisable to use gloves when fitting the mesh to avoid injury to hands.



Fig 2



Fig 3



Fig 4

3. Pinch the two flaps of mesh together as shown in Fig 2, then holding approximately 12mm of mesh, fold the mesh along the length of the joint and squeeze together as shown in Fig 3.

Make 3 x folds like this all the same way.



Fig 5



Fig 6



Fig 7

4. Now turn the folded mesh back on itself as in Fig 5 and using a hammer/mallet, flatten the folded section of mesh along the length of the joint as shown in Fig 6. User may wish to use a backing board whilst doing this. Be careful not to damage the cable joint beneath.

5. To ensure a tight seal at each end, form a pleat with the excess mesh as shown in Fig 7.



Fig 8



Fig 9

6. Using the stainless steel worm drive clamps, position them a few mm from the end of the mesh as in Fig 8 and 9 and ensure the pleats are clamped within.

Important: there must be no gaps in the central seam or the end pleats.

7. Refer back to the main instruction sheet. The final step is to position the long outer shrink tube over the applied mesh so that it overlaps equally at both ends. Shrink as before until fully recovered. Note: this tube is sacrificial in the event of a termite attack, however the joint will still be sealed beneath the mesh by the previously fitted tube shown in the main joint instruction sheet.



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