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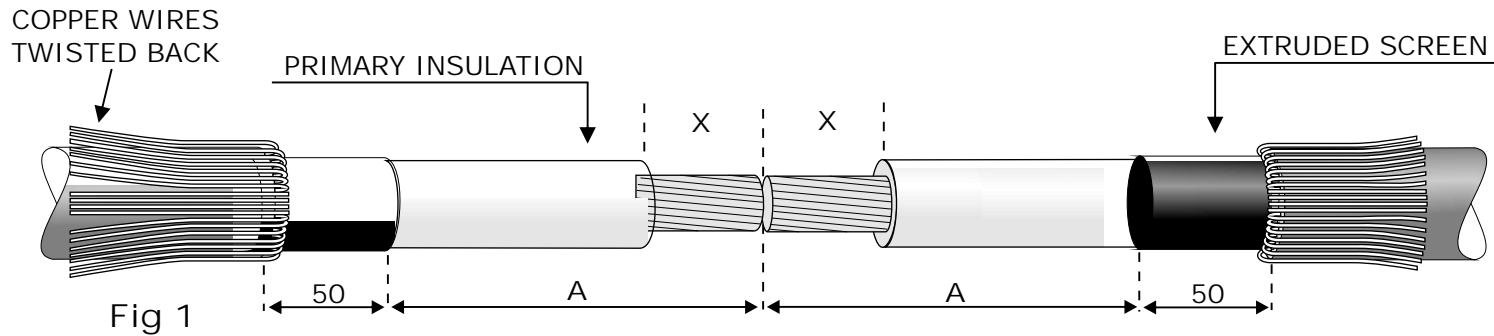
INSTALLATION INSTRUCTION HEATSHRINK JOINT TO SUIT SINGLE CORE 12kV TRIPLEX CABLE REFERENCE TYPE SPJ 12TX



- THESE INSTRUCTIONS SHOULD BE FOLLOWED BY A TRAINED COMPETENT FITTER
- 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 THORNE & DERRICK FOR ANY ADVICE



CABLE PREPARATION



1. Ensure that the Cables overlap before proceeding.
2. Bend back the Wires onto the Outer Cable Sheath, these will be bonded at a later stage. Expose the Black Semi-Conductive Screen by 50mm (See Fig 1 and Table 1 for dimension A).

Black Extruded Semi-Conductive Screen Removal

3. Remove the Black Screen layer using a suitable Tool. Avoid scoring and damage to the Primary Insulation beneath. Note: - The Screen should be completely removed leaving a cleanly cut end. Do not roughen the Primary Insulation with Emery cloth.

Screen removal Tools can be provided for both 'Peelable' and 'Bonded' Screen layers, ask Thorne & Derrick for more details.

SIZE (mm ²)	DIMENSION A	DIMENSION X	MAX CONNECTOR LENGTH
25-70	170mm	HALF LENGTH CONNECTOR + 5mm	110mm
95-185	190mm		150mm
185-300	200mm		160mm
400-630	220mm		200mm

Table 1

Important:- If you have a Cable size 95mm² and your kit ranges from 25-95mm², prepare the Cable to the 25-95mm² dimensions not the 95-185mm² dimensions. The same applies for the 95-185mm² and 185-300mm² range

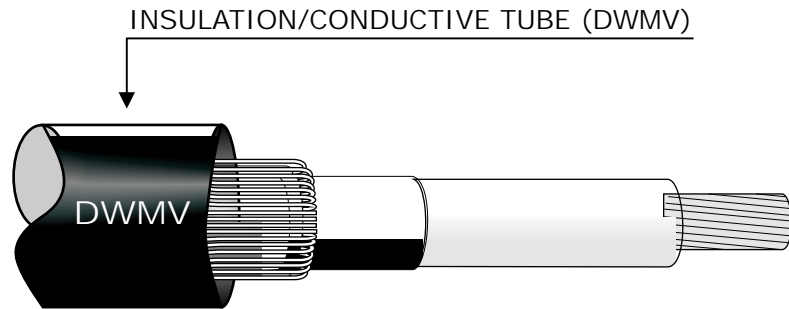


Fig 2

4. Before proceeding, position the Insulation/Conductive Connector Insulation Tube down one of the Cables ends as shown in Fig2.

5. Stretch the Yellow TS31785Y Stress Relief Tape and apply with ½ width overlap around each Semi-Conductive Screen edge so that it overlaps for a distance of 10mm onto the Primary Insulation and 10mm onto the Conductive Screen.

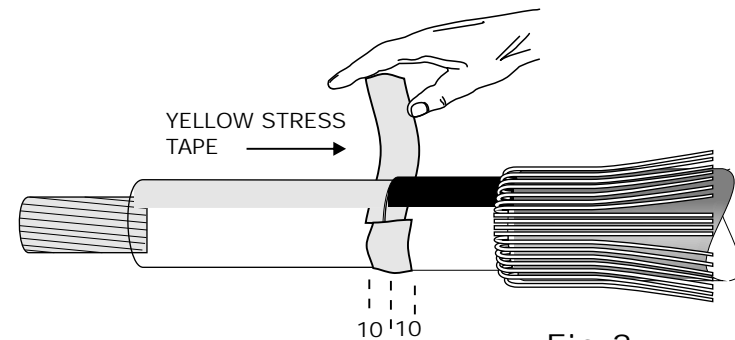


Fig 3

6. Apply a piece of the Red Sealing Mastic behind the Yellow Stress Tape which will help to improve the moisture seal (see Fig 4).

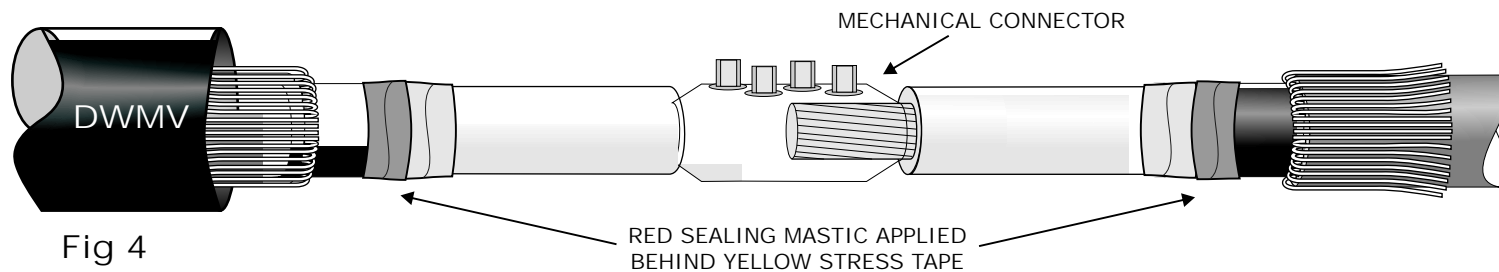


Fig 4

7. After stripping the Primary Insulation to half the length of the Connector + 5mm, fit the Mechanical Shearbolt Connectors and using a Socket or wrench, tighten the bolts until they shear. De-grease Connectors and check for any sharp points which should be removed before proceeding.

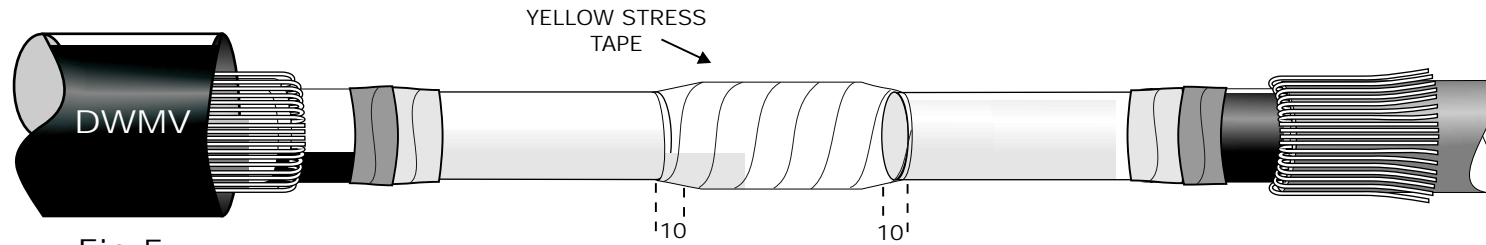


Fig 5

8. Wrap the Yellow Stress Tape (TS 31785Y) around the Connector area with stretch and ½ width overlap. Extend the Tape onto the Primary Insulation by 10mm either side as shown in Fig 5.

Important:- Fill in the gap between Primary Insulation and Connector. Also fill any voids that the Bolts leave after they have been sheared.

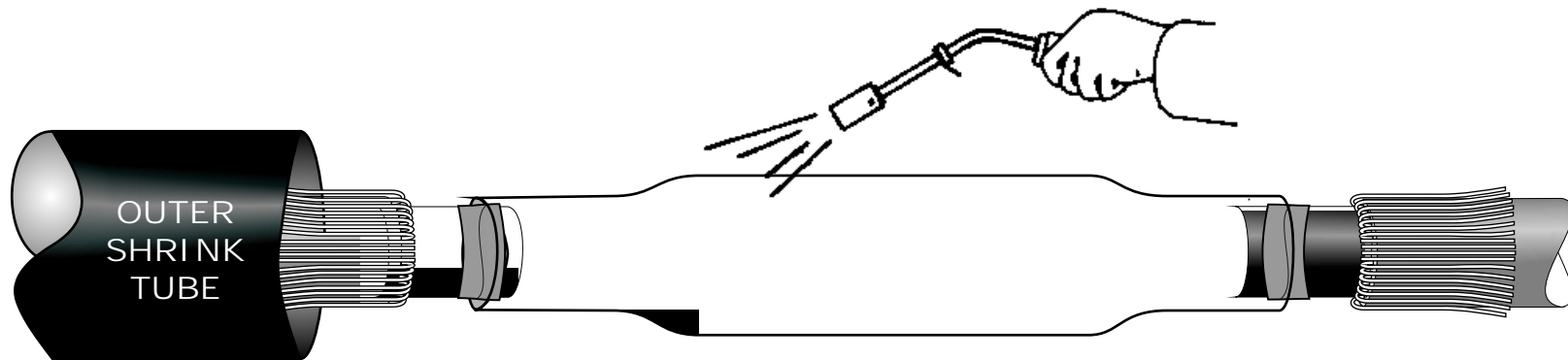


Fig 6

9. Position the Combined Insulation/Conductive Tube (DWMV) centrally so that it spans the Screen points equally both sides. With a suitable heat source, shrink from the centre of the Tube to one end at a time. Keep the flame on the move all around the Tube to ensure an even wall thickness.

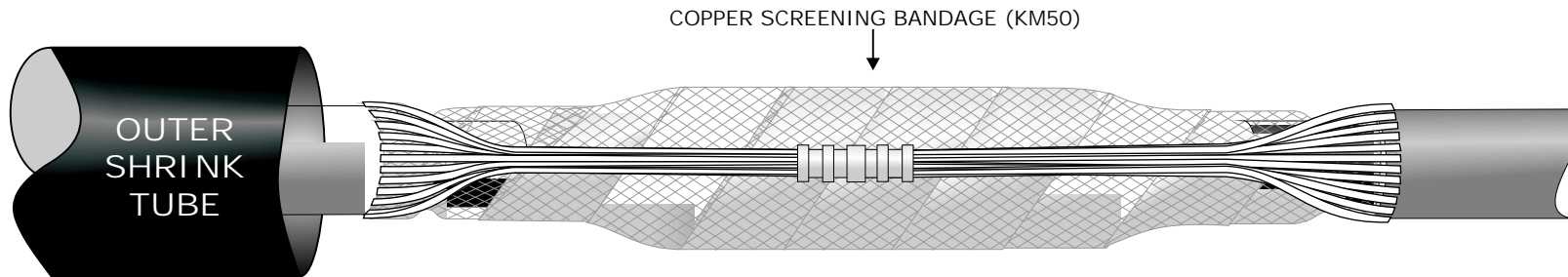


Fig 7

17. Wrap a layer of KM50 Copper Screening Bandage over the joint area and secure. Bend the Copper Wire Screen back over the Joint and twist the ends together to form a stranded Conductor. Join the two Wire Screens with a Crimp Ferrule as shown in Fig 7.

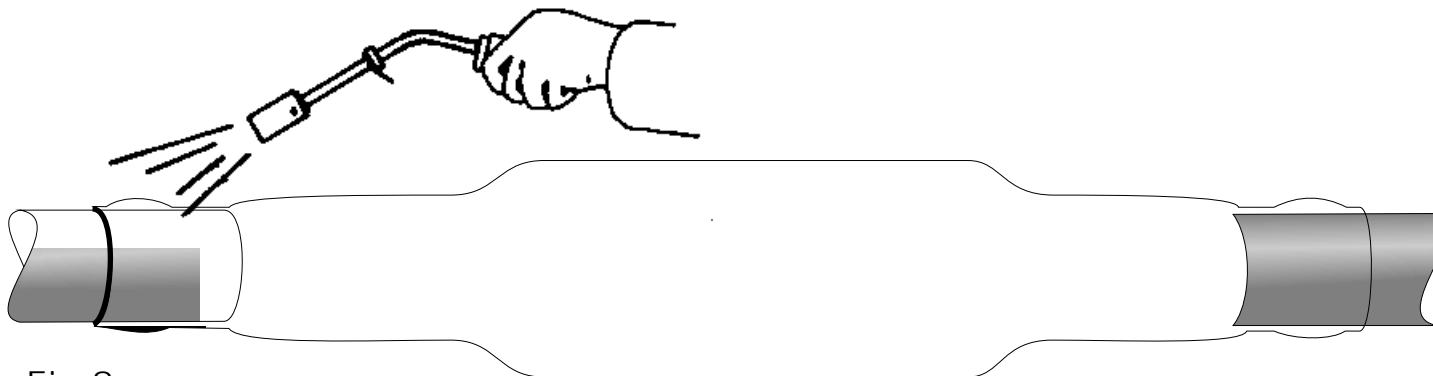


Fig 8

18. Clean and De-grease the outer Cable Sheaths. Position the Outer adhesive lined Shrink Tube centrally over the joint gap. Start shrinking from the centre to one end at a time. Keep the flame on the move to ensure an even wall thickness. The Tube should be wrinkle free and Sealants should be visible at Tube ends.

19. Allow the completed Joint to cool before applying any mechanical strain.

IMPORTANT NOTICE TO PURCHASER:- Sellers and Manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither the Seller nor Manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or inability to use the product. Before using, User shall determine the suitability of the product for his or her intended use and User assumes all risk and liability whatsoever in connection therewith.

