

Installation Instructions TCT

CONTENTS: See Component List

The ELASTIMOLD TCT is an outdoor transmission cable termination with a rated voltage as indicated on the housing and with a continuous operating current rating equal to that of the cable on which it is installed.

DANGER

All apparatus must be de-energized during installation or removal of part(s).

All apparatus must be installed and operated in accordance with individual user, local, and national work rules. These instructions do not attempt to provide for every possible contingency.

Do not touch or move energized products.

Excess distortion of the assembled product may result in its failure.

Inspect parts for damage, rating and compatibility with mating parts.

This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices.

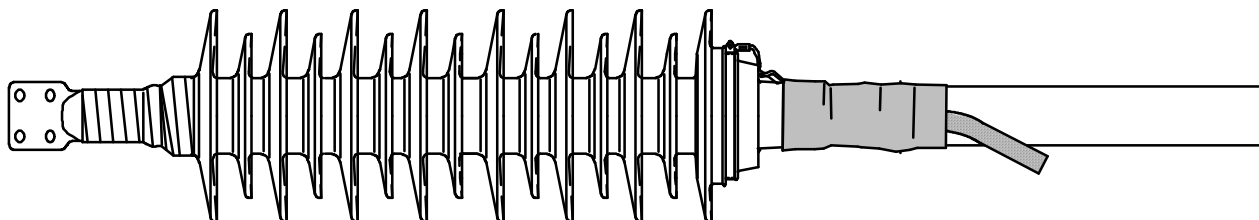
Failure to follow these instructions will result in damage to the product and serious or fatal injury.

If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ELASTIMOLD OFFICE.

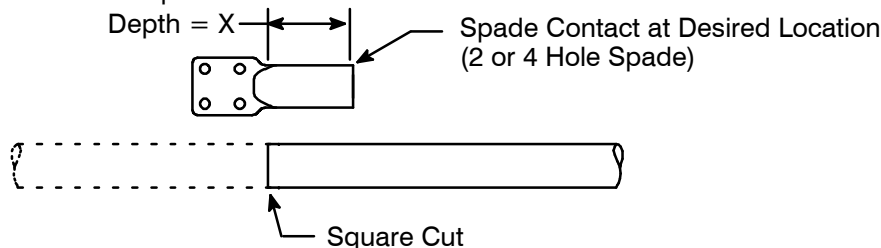
IMPORTANT

1. Check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.



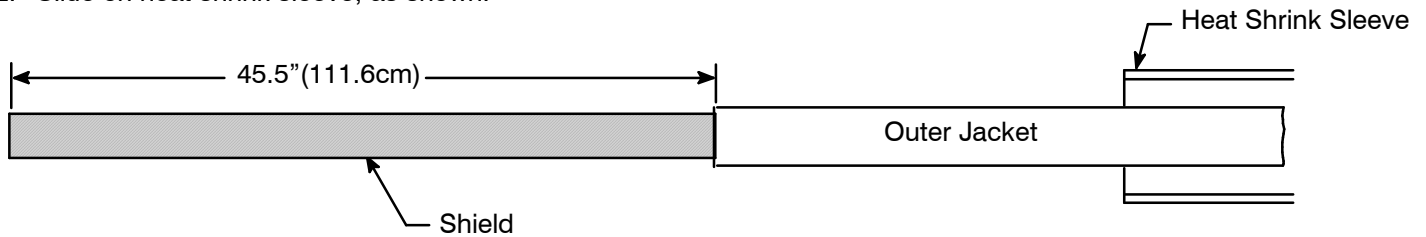
STEP A

1. Straighten cable and place in **FINAL** position using spade contact as guide as shown.
2. **SQUARE CUT CABLE** as shown.
3. Note the depth of the hole of the spade contact.



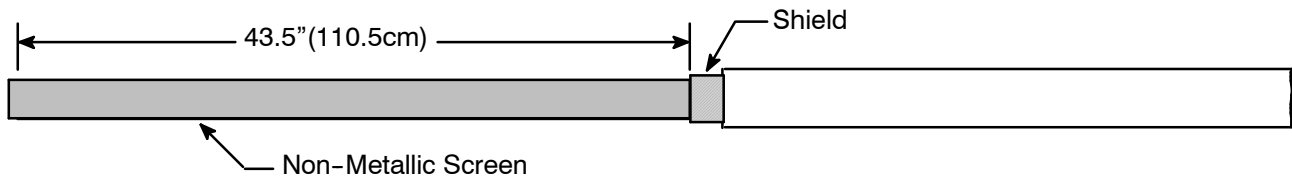
STEP B

1. Carefully remove outer jacket material to distance shown, to expose shield of cable.
2. Slide on heat shrink sleeve, as shown.



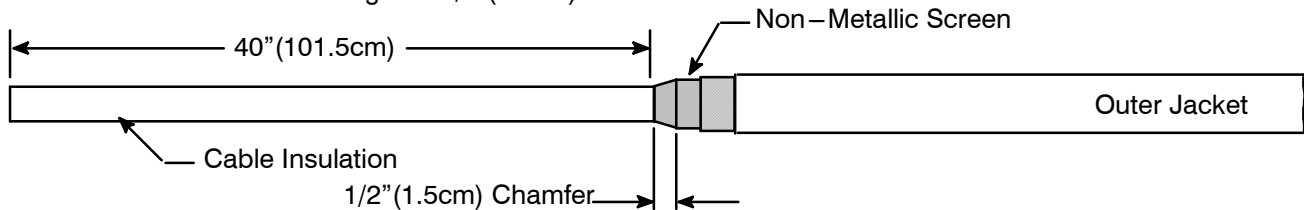
STEP C

Remove shield to the distance shown.



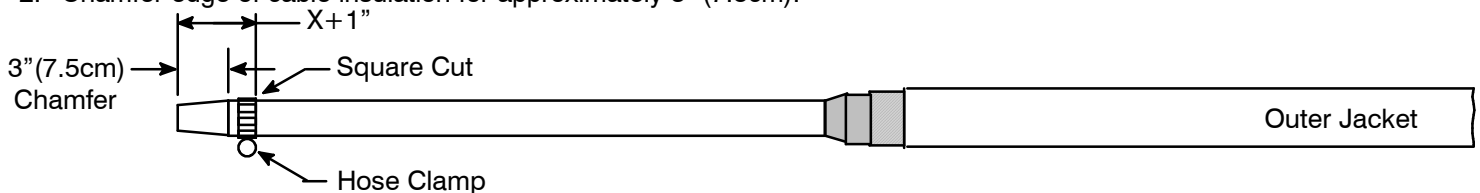
STEP D

1. Remove non-metallic screen as shown. **BE SURE TO MEASURE FROM THE END OF CONDUCTOR AND NOT FROM END OF INSULATION. DO NOT CUT OR NICK THE EXPOSED INSULATION.** This could result in failure of the cable.
2. Chamfer non-metallic screen edge for 1/2" (1.5cm) minimum.



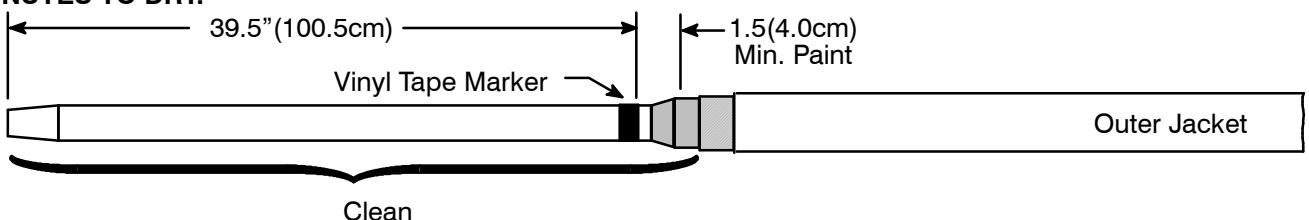
STEP E

1. Using a hose clamp as a guide, square cut the cable insulation as shown being careful not to nick the conductor. (See STEP A for X measurement) **BE SURE TO MEASURE FROM END OF CONDUCTOR AND NOT FROM END OF INSULATION.** Remove hose clamp. Leave insulation on cables. Sand out all nicks and abrasions on extruded non-metallic screen chamfer and cable insulation.
2. Chamfer edge of cable insulation for approximately 3" (7.5cm).



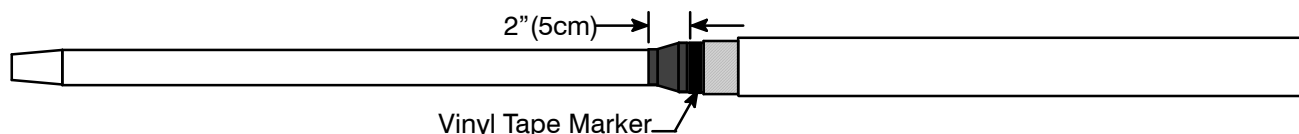
STEP F

1. Using cable cleaner, clean cable insulation and extruded non-metallic screen. Clean cable toward the outer jacket to prevent semi-conductive particles from contaminating the insulation.
2. Place vinyl tape marker on cable insulation surface to distance shown, stir paint well. Paint exposed insulation and 1" (2.5 cm) min. of extruded non-metallic screen with semi-conductive paint (supplied). **REMOVE VINYL TAPE WITHIN 5 TO 15 MINUTES. BE SURE EDGE OF PAINT IS SMOOTH AND SQUARE AFTER REMOVING TAPE. ALLOW PAINT 60 MINUTES TO DRY.**



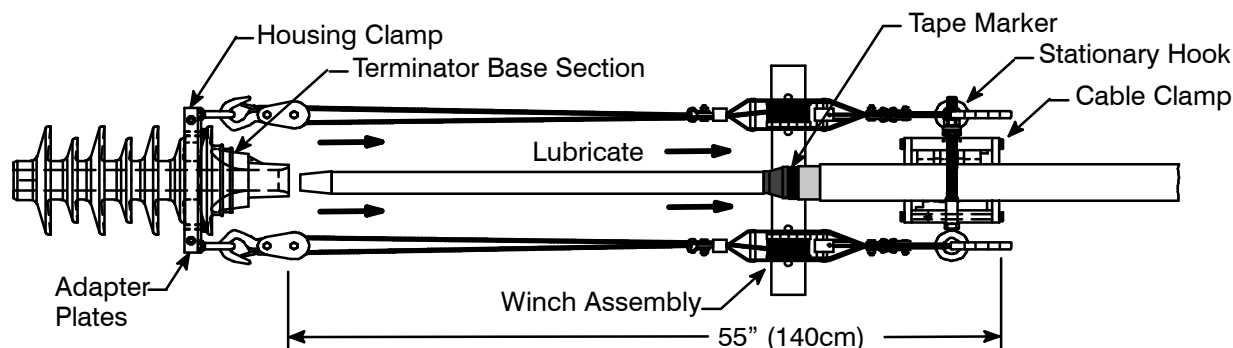
STEP G

Place vinyl tape marker onto cable non-metallic shield 2"(5cm) from edge of paint as shown.



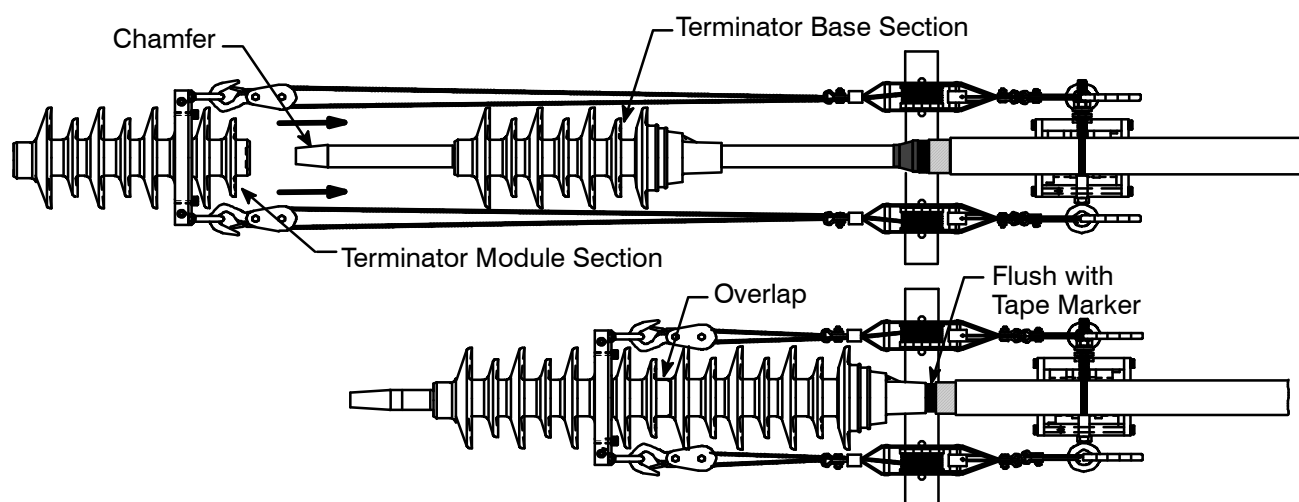
STEP H

1. Assemble Cable Clamp at least 55" (140cm) back from conductor. Tighten clamp securely.
2. Place Winch Assembly in front of Cable Clamp and attach stationary hooks to Cable Clamp.
3. Attach Adapter Plates to the Housing Clamp with bolts supplied. Assemble Housing Clamp around Terminator Base Section.
4. Extend steel cable(s) on Winch Assembly until hooks reach Housing Clamp. Hook cables to Housing Clamp.
5. **Thoroughly** lubricate cable in the area and direction shown with supplied lubricant (DO NOT SUBSTITUTE).



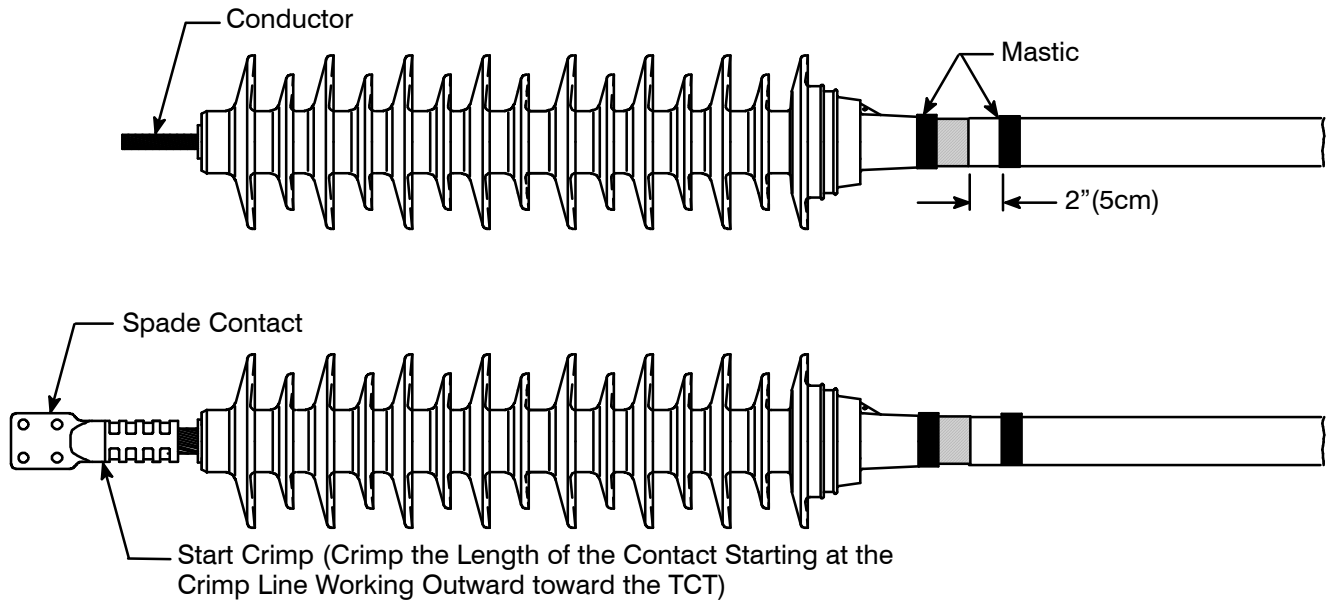
STEP I

1. Assemble Terminator Base Section on cable approximately 12", as shown below.
2. Release tension on each steel cable. Extend steel cables and Housing Clamp.
3. Position Terminator Module Section in Housing Clamp as shown.
4. Install until units overlap and continue assembling mated units until Terminator Base Section is flush with tape marker.
5. Remove Winch Assembly, Housing Clamp, Adapter Plate and Cable Clamp.



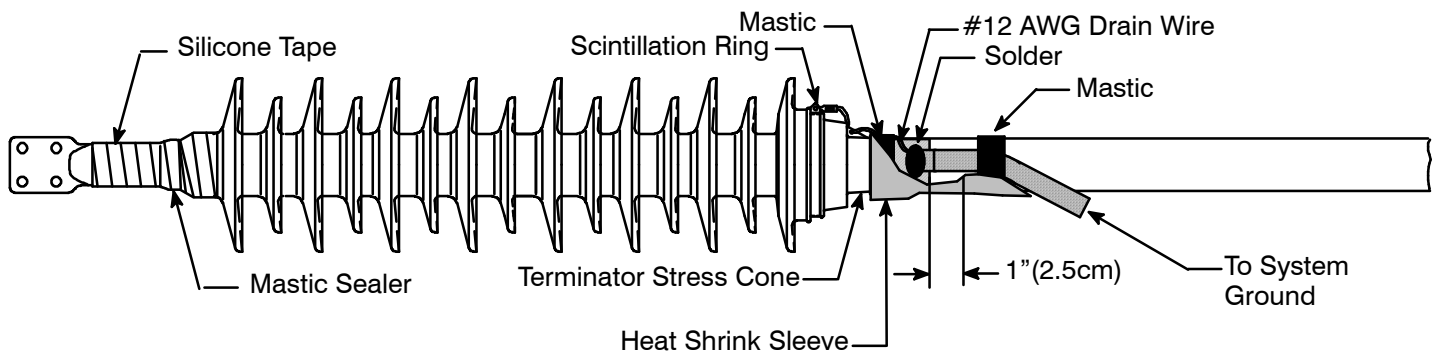
STEP J

1. Remove tape marker on insulation shield.
2. Remove cut section of insulation on cable to expose the conductor. Wirebrush the conductor of the cable and **immediately** insert into spade contact.
3. Crimp connector according to inclosed crimping instructions.
4. Remove any excess inhibitor where applicable.
5. Apply 2 layers of mastic one at end of stress cone and one 2" back from the end of cable jacket, as shown.



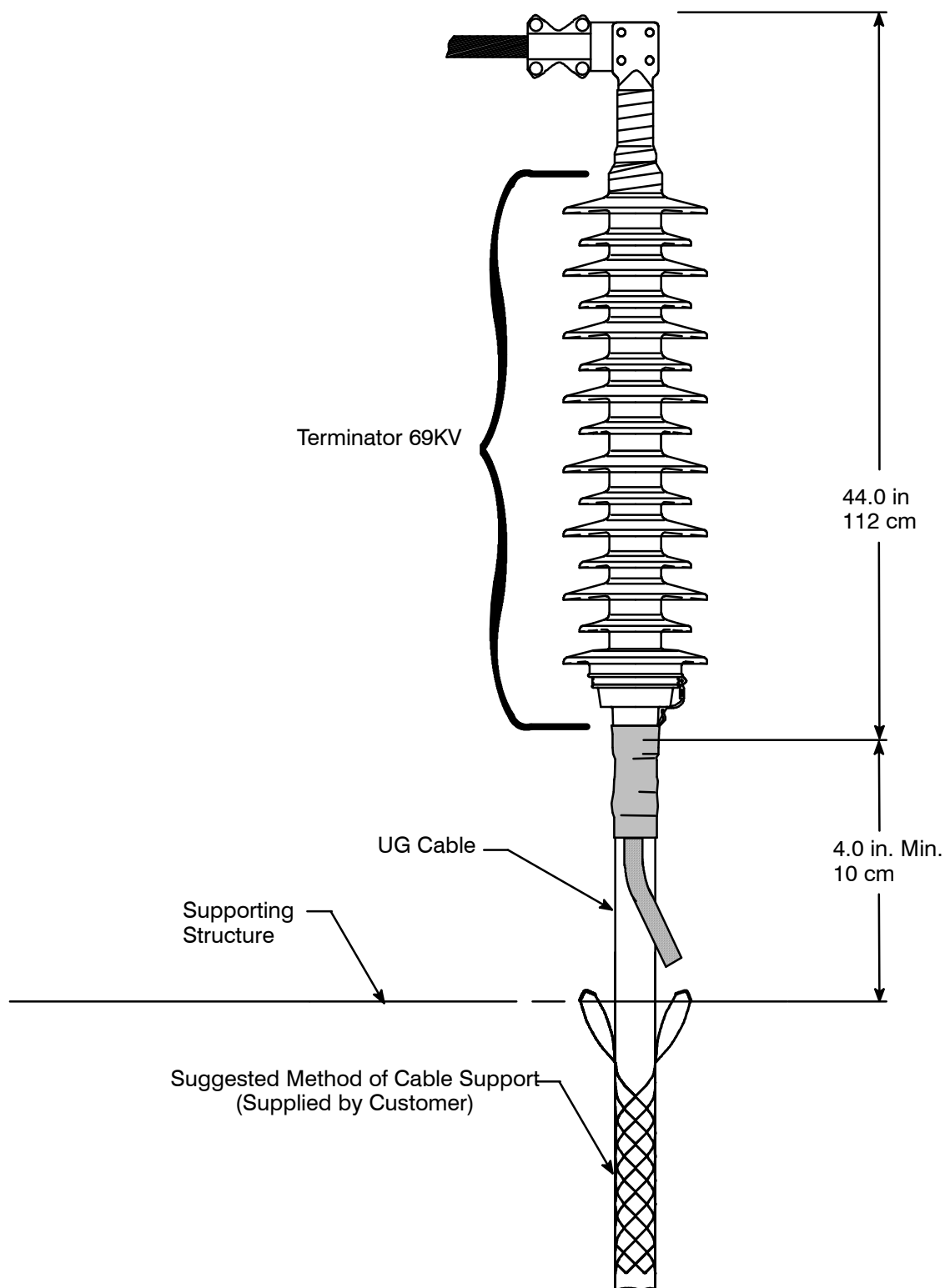
STEP K

1. Install scintillation ring and #12 AWG copper drain wire as shown.
2. Solder the flat braid and the #12 drain wire to the shield.
3. Apply second layer of mastic, over the drain wire, on top of the previously applied mastic around base of stress cone where shown.
4. Apply second layer of mastic, over flat braid, on top of the previously applied mastic on the cable jacket.
5. Slide heat shrink sleeve up to grounding eye of base of terminator.
6. Apply heat to sleeve starting in middle and continue toward each end of tube until mastic sealer squeezes from ends.
7. Connect flat braid to system ground.
8. Seal cable end with mastic tape between the contact and cable insulation.
9. Apply two half lapped layers of silicone tape covering the crimp connector, mastic tape, and upper portion of terminator skirt as shown.



STEP L

Mount terminated cables to supporting structure ensuring that a sufficient clearance is maintained between the terminator stress cone base and the supporting structure. All apparatus must be installed and operated in accordance with individual user, local, and national work rules. These instructions do not attempt to provide for every possible contingency.



Thomas & Betts

8155 T&B Boulevard, Memphis, Tennessee 38125
(800) 888-0211 Fax: (800) 888-0690