Quick Term II™

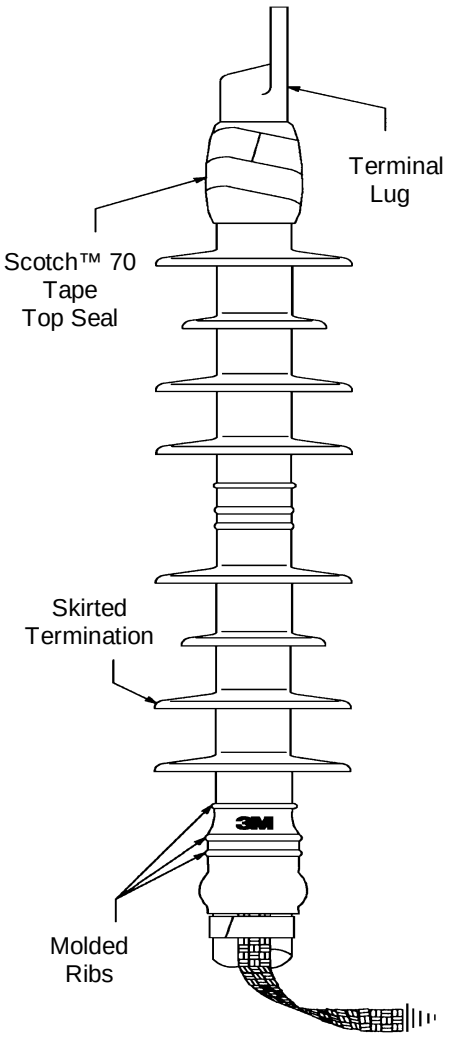
Silicone Rubber Termination Kit, up to 35 kV

Instruction Sheet

IEEE Std. No. 48, 1975

Class 1 Termination

35 kV Class



Kit Contents:

3 Molded silicone rubber terminations

3 Packets of silicone grease

3 Strip of Scotch ™ Brand 70 Silicone Rubber Tape

6 Strips of Scotch ™ Brand Vinyl Mastic

1 Illustrated Instruction Sheet

Each kit contains enough materials to complete three terminations.

Technical Information:

For use on up to 35 kV Tape or Ribbon Shielded Cables
Class 1, IEEE 48

Conductor Size Range:

15 kV: 1500 -2000 kcmil
25/28 kV: 1250 - 1750 kcmil
35 kV: 1000 - 1500 kcmil

Jacket O.D. Range:

2.10” - 2.75” (53,3 - 70,0 mm)

Silicone Rubber Termination Kits for use on Shielded Cables

35 kV Class

5649

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A. Prepare Cable

1. Train cable into position. Field determine exposed conductor length for terminal lug installation.
2. Remove cable jacket, tape shield, and semi-con layer as dimensioned (***Figure 1***).
   NOTE: If cable has a tape wrapped semi-con layer, it is recommended that two lapped layers of Scotch™ 13 Semi-conductive Tape be applied over the cable semi-con end to provide a straight edge at the cable semi-con end and to hold the cable shield in place.

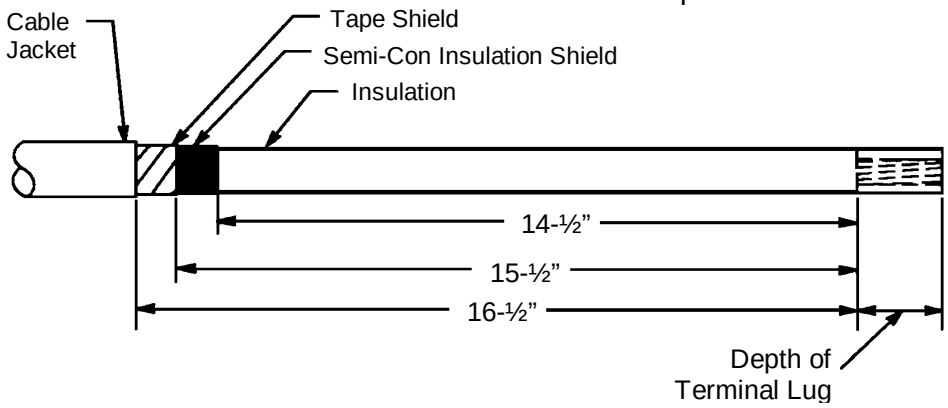

Figure 1

3. Attach a shield ground braid to the cable metallic tape shield per Utility instruction. At a point ¾" from the cable jacket end, install a 1 inch wide solder block in the ground braid (***Figure 2***).
4. Install <u>black</u> sealing mastic strip (contained in kit) around the shield ground braid at the solder block

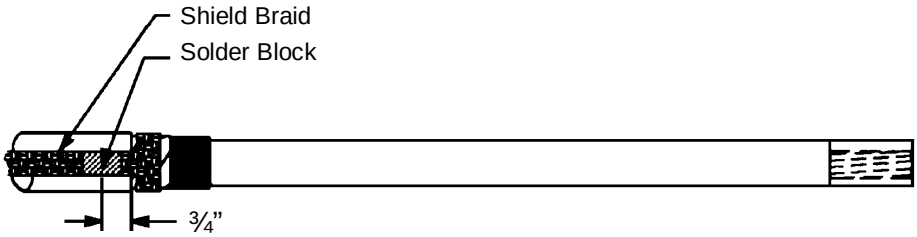

Figure 2

(***Figure 3***). **NOTE: Stretch the mastic slightly to remove the paper liner. Discard excess.**

5. Band the ground braid tightly to the cable jacket with vinyl tape. Completely cover the mastic seal area

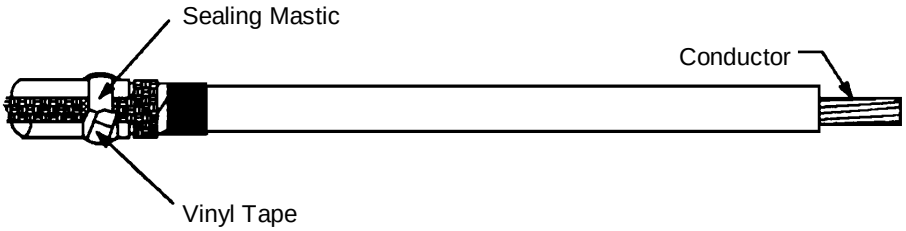

Figure 3

(***Figure 3***).

6. Remove cable insulation from end of cable for length previously determined for lug (***Figure 3***).
7. CLEAN CABLE USING STANDARD PRACTICE.
   a. Wipe the cable insulation with an approved solvent such as that found in the Scotch™ A-2 Cable Prep Kit. **Do not allow solvent to touch semi-con!**
   b. If abrasive must be used:
      1) use on insulation only. DO NOT USE ON SEMI-CON MATERIAL.
      2) Use only 120 grit aluminum oxide such as in A-2 Cable Prep Kit or Scotch™ A-3 Electrician's Abrasive Roll.
      3) be careful not to reduce the cable insulation diameter below that allowed by the kit.

B. Install Lug or Connector

1. These units were designed to fit over common lugs. If lug being used will not fit through the core of the termination, slide termination on cable before installing lug. (DO NOT REMOVE CORE AT THIS TIME).
2. Install lug or connector. Crimp according to manufacturer's directions.
3. REMOVE EXCESS CONTACT AID AND SHARP CRIMP FLASH.

C. Install Termination

1. Cover the edge of the semi-conducting material with a liberal coating of silicone grease (***Figure 4***). **NOTE**: ON THIS PRODUCT THE SILICONE GREASE DOES NOT SERVE AS A LUBRICANT. IT MUST BE USED TO FILL THE STEP AT THE SEMI-CON CUTOFF. Spread excess silicone grease

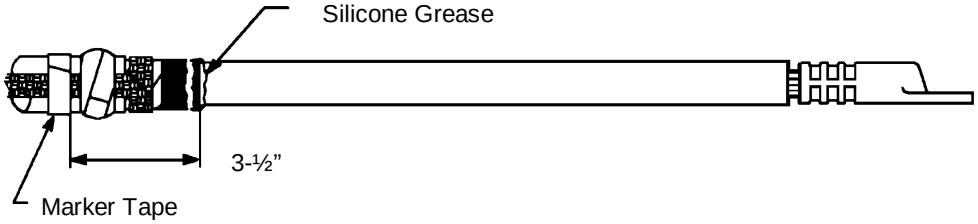

Figure 4

over entire exposed primary insulation.

2. Place a marker tape 3-½" back from the end of the semi-con material (***Figure 4***).
3. Slide the termination body onto the cable. Align the rubber base of the unit with the previously applied marker tape.

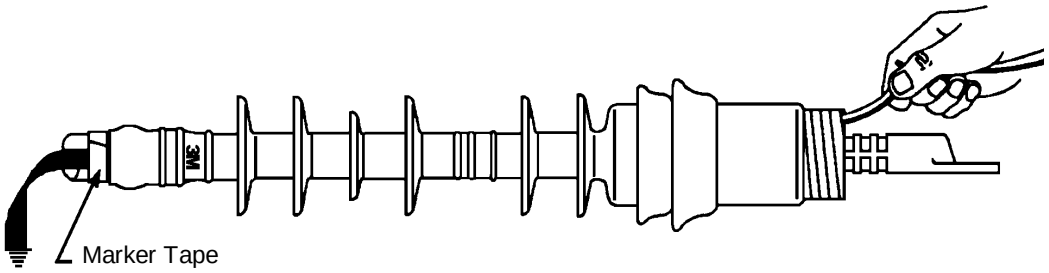

Figure 5

4. Remove termination core by unwinding counter-clockwise starting with the loose core end. Make sure the termination body is butted up to the edge of the marker tape (***Figure 5***).
5. Seal between the lug and insulator by over-wrapping insulator end and lug portion using gray Scotch™ 70 Silicone Rubber Electrical Tape (contained in kit) (See Main Illustration, page 1).

3M

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