

## **49 TYPE CABLE TERMINAL**

### **SHEATH PREPARATION**

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#### **1. GENERAL**

1.01 This section is reissued to describe the cable sheath<sup>4</sup> preparation required for installation of the 49 Type Cable Terminal on aerial polyethylene insulated conductor cable. The 49A1 Cable Terminal replaces the 49A Cable Terminal and may be used on cable up to 1.0 inch outside diameter. The 49B1 Cable Terminal may be used on cable from 1.1 to 2.2 inch outside diameter.

1.02 Refer to Section G61.622.3 for the installation of the terminal.

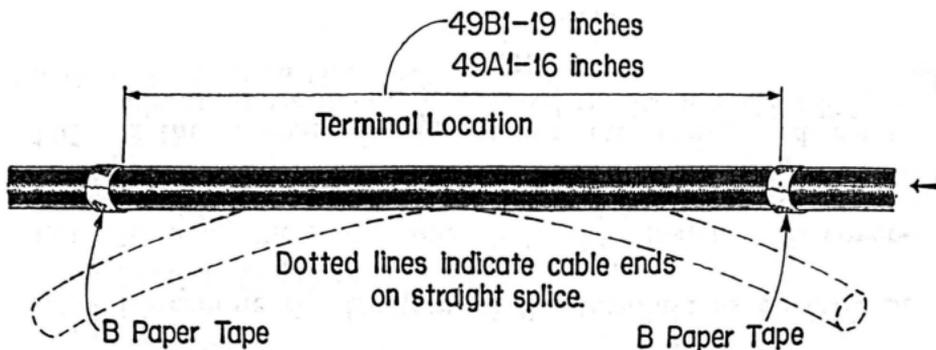
1.03 Determine the location of the terminal as covered in Section G61.620.1.

1.04 In using the slack puller follow the instructions covering its use in another section of the practices before marking the sheath.

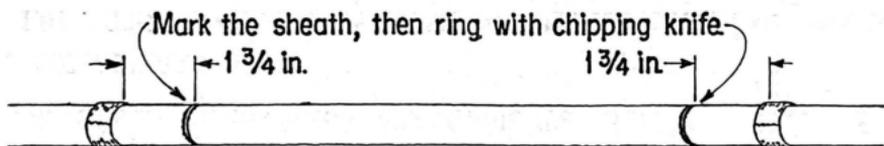
1.05 If the lashing wire is not correctly terminated, reterminate at the location covered in Section G61.620.1, as described in Section G52.125.8. ↴

## 2. SHEATH PREPARATION, ALPETH OR STALPETH

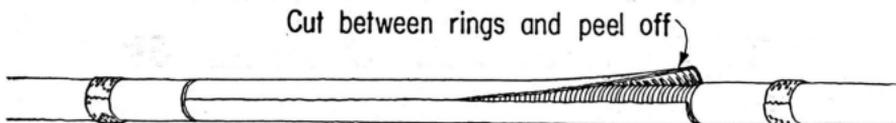
2.01 Place B Paper Tape collars on the sheath to mark the location.



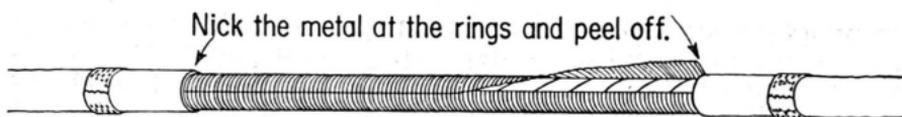
2.02 Mark the sheath inside the collars, as shown, then ring the sheath at these marks, scoring completely around and half-way through the polyethylene.



2.03 Cut the polyethylene along the length of the cable up to the scored rings and peel off the polyethylene as shown; tearing off around the ring in the direction of the overlap of the underlying metal.

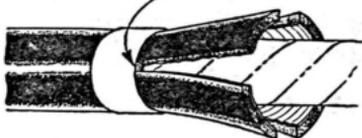


2.04 Nick the metal at the rings and peel off.

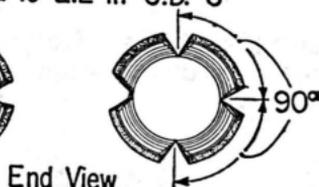


2.05 At each end of the sheath opening, form three tabs for cable less than .6 inch diameter, four tabs for cables .6 inch to 1.6 inch diameter and six tabs for cables larger than 1.6 inch diameter. Cut through the polyethylene to the edge of the B Paper Tape marker. Take care not to injure the core wrapper. Enlarge the side opening facing the workman to 1/8 inch by making an additional cut. If temporary bonding is required across the sheath opening, use the methods covered in the section of the practices dealing with temporary bonds.

Enlarge side opening to 1/8 inch by making additional cut.



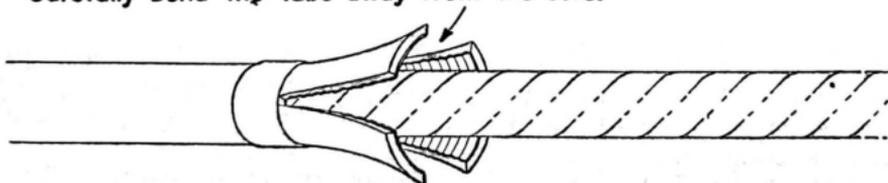
Number of Tabs	Cable Size
To .6 in. O.D.	-3
.6 in. to 1.6 in. O.D.	-4
1.6 in. to 2.2 in O.D.	-6



End View

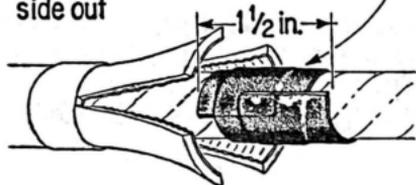
2.06 Carefully bend the tabs away from the core. DO NOT bend the tabs sharply as the aluminum may tear across the base of the tabs. Then scrape or cut away any sharp projecting slivers of metal to prevent puncturing the core wrapper.

Carefully bend the tabs away from the core.

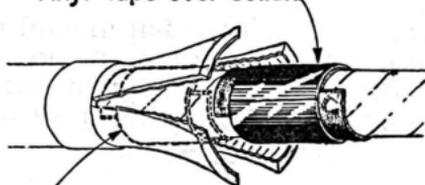


2.07 Form a collar around the core wrap of 2 turns of D Vinyl Tape with adhesive side out. Place a single turn of D Vinyl Tape over the collar with adhesive side in. Carefully slide completed collar under the tabs as far as it will go.

① Form collar of 2 turns of D Vinyl Tape, placed with adhesive side out



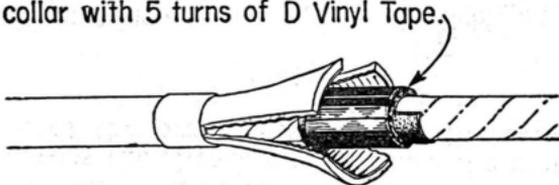
② Place a single turn of D Vinyl Tape over collar.



③ Slide collar under tabs

2.08 On cables less than 0.6 inch diameter wrap the vinyl tape collar with five turns of D Vinyl Tape, as shown.

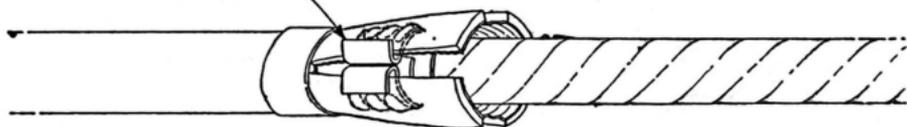
On cables less than .6 in. diameter, wrap the vinyl tape collar with 5 turns of D Vinyl Tape.



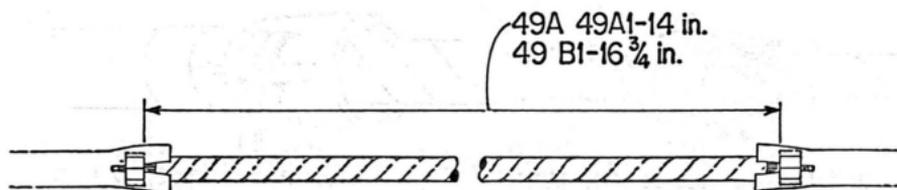
2.09 The inner clamp and the Adapter Assembly, if used, is selected on the basis of cable size as covered in G61.025.2.

2.10 At a straight splice place the inner clamp over the cable core. Where the cable is not cut, as at a terminal location, spread the clamp apart to place it over the core, then close the clamp by pressing it together. Slide the clamp under the tabs, between the metal portion of the tabs and the core wrap. The folded ears of the clamp are placed in the wide cut facing the workman, with the ears above the polyethylene tabs.

Place Clamp (PI6EI98, PI6EI99 or PI6E200) under tabs, over collar and core wrap with erids projecting out to make contact with Clamp on Base Assembly.



2.11 The distance between the inner clamps is shown. Work the clamp back under the tabs until this measurement is obtained. The ears of the clamp will hold it in place.



2.12 The sheath opening is now ready for the installation of the 49A1 or 49B1 terminal, as covered in Section G61.622.3.

### 3. SHEATH PREPARATION, PAP

3.01 Polyethylene, aluminum, polyethylene cable sheath (PAP) is prepared in the manner outlined in Part 2 up to and including Paragraph 2.04.

3.02 Then on PAP ring the remaining polyethylene layer, and remove it in the usual manner.

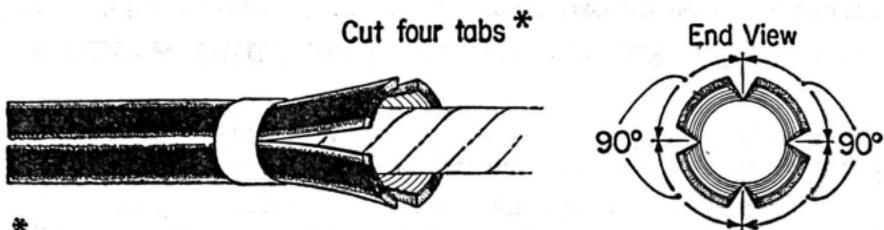
3.03 In cutting the tabs DO NOT include the inner polyethylene layer. This layer should be left intact.

3.04 The remainder of the preparation is the same as in Part 2, except that the core wrap of vinyl tape is omitted.

### 4. SHEATH PREPARATION, 49A CABLE TERMINAL

4.01 The previous information may also be used on existing 49A Cable Terminals, if the following differences in procedure are taken into account.

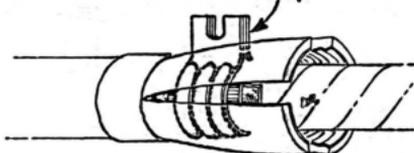
4.02 In Paragraph 2.05 the extra cut on the side opening is not made as the clamp projects through the top. Make tabs as follows:



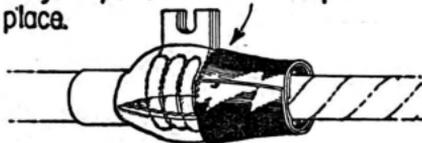
\* On cables less than .6 inch diameter cut only three tabs.

4.03 At a straight splice place the P18A794 Sheath Clamp (for cable up to 1.0 inch O.D.) or the P18A995 Sheath Clamp (for cable from 1.0 inch to 1.2 inch O.D.) over the cable core. Where the cable is not cut, spread the clamp apart to place it over the core, then close the clamp by pressing it together. Slide the clamp under the tabs, between the metal portion of the tabs and the core wrap.

Place Sheath Clamp under tabs, over collar and core wrap.



On small cable place 2 turns of D Vinyl Tape to hold the clamp in place.



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