

**BELL SYSTEM PRACTICES**  
**Outside Plant Construction**  
**and Maintenance**

**SECTION G61.622.3**  
**Issue 2, December, 1959**  
**AT&TCo Standard**

## **49 TYPE CABLE TERMINAL INSTALLATION**

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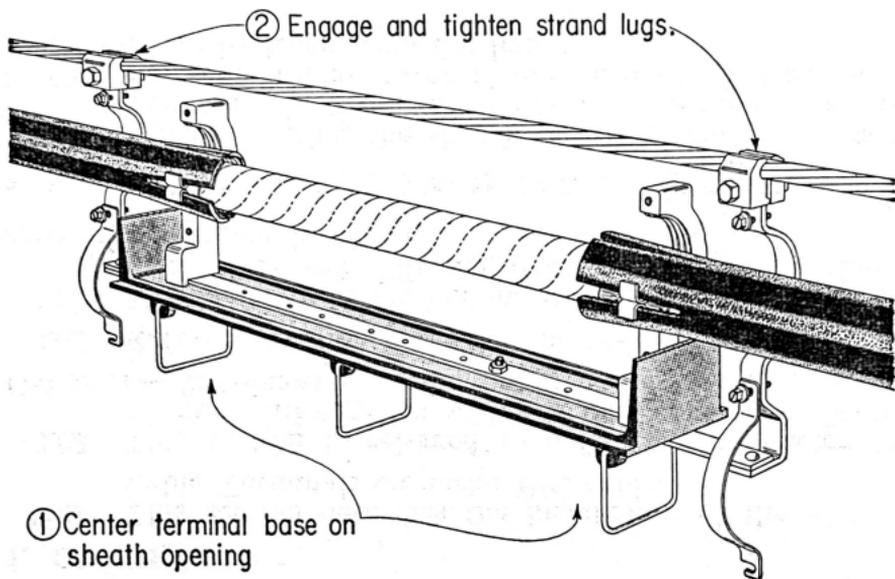
### **1. GENERAL**

- 1.01 This section describes the installation of the 49 Type Cable Terminals on aerial PIC cable.
- 1.02 This section is reissued to delete the conductor terminating information which is now covered in Section G61.622.4—Terminating Conductors.
- 1.03 Refer to Section G61.621.1 for the sheath preparation.
- 1.04 The installation method used for the superseded 49A Cable Terminal differing from that outlined below is covered in Section G61.622.1.

### **2. MOUNTING 49A1 AND 49B1 TERMINALS**

- 2.01 After preparing the sheath opening, remove the cover from the 49 Type Terminal by loosening the bolts holding the semicircular cover clamp until the slotted end of the clamp can be freed from the hanger.

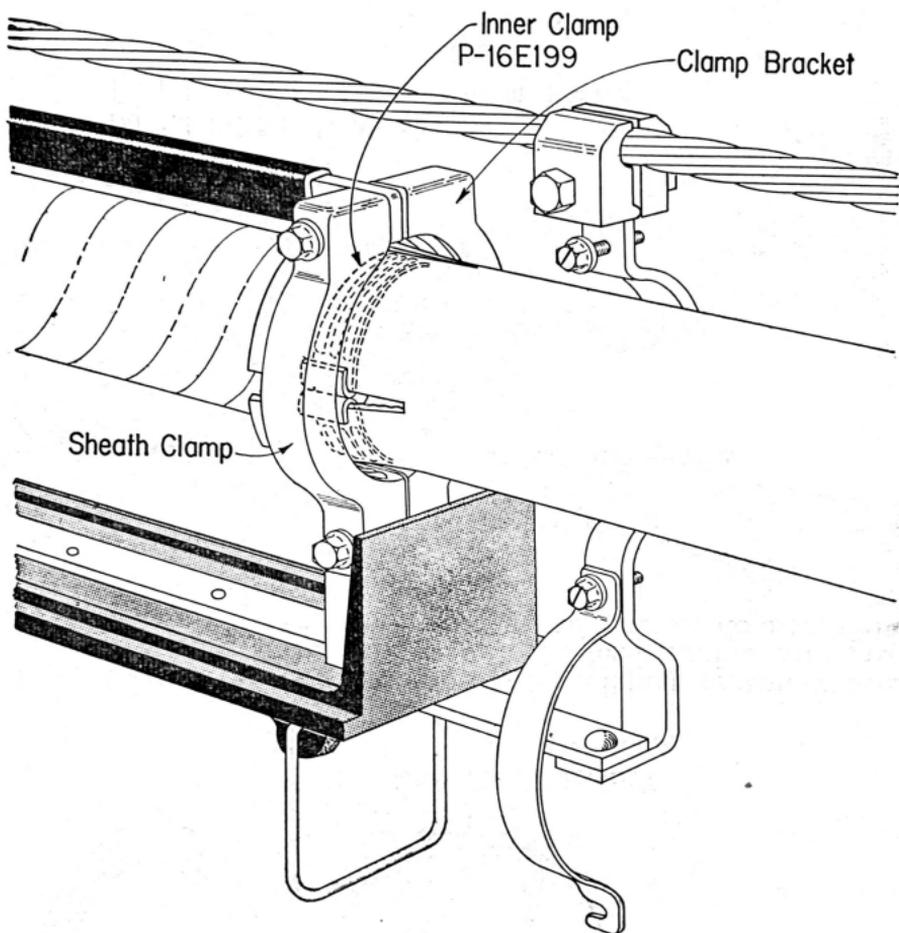
2.02 Center the base assembly on the sheath opening with the embossed numbers on the neoprene base progressing from left to right, odd numbers on the side of the cable facing away from the pole. Engage and tighten the strand lugs on the suspension strand.



2.03 No Adapter Assemblies are required for cables of the following sizes used with the inner clamp shown.

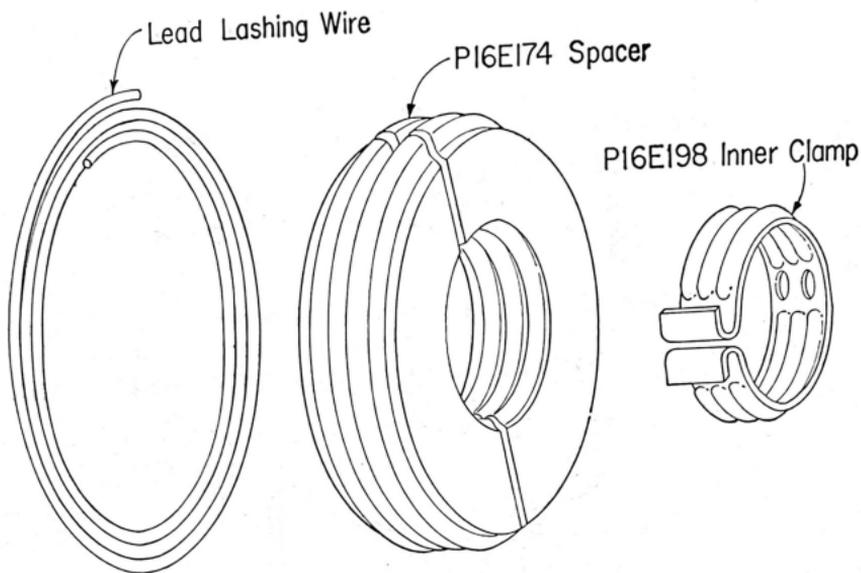
<u>Terminal</u>	<u>Cable Size</u>	<u>Inner Clamp</u>
49A1	0 to 1.0 in.	P16E198
49B1	from 1.6 in. to 2.2 in.	P16E199

2.04 The ends of cables in the above range of sizes are clamped directly between the sheath clamp and the clamp bracket. The end of the tie bar is held firmly between the top portion of the clamp bracket and the sheath clamp.



2.05 When using 49B1 Cable Terminals on cables of the following sizes, Adapter Assemblies are required. The inner clamp shown is part of the adapter assembly.

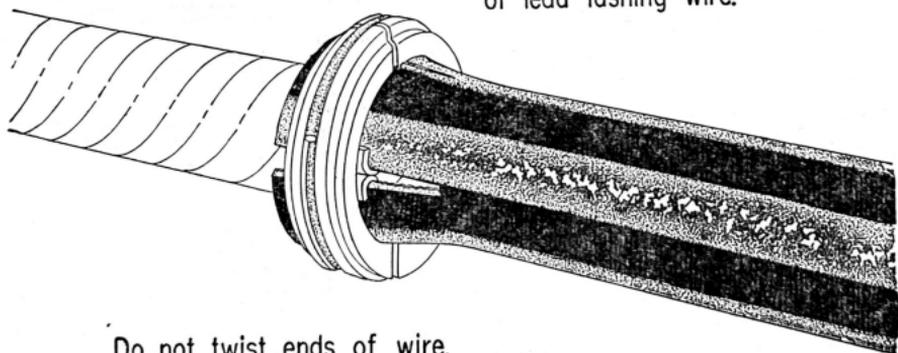
<u>Terminal</u>	<u>Cable Size</u>	<u>Inner Clamp</u>	<u>Adapter Assembly</u>
49B1	0 to 1.0 in.	P16E198	138B
49B1	from 1.0 to 1.6 in.	P16E200	138A



138B ADAPTER ASSEMBLY

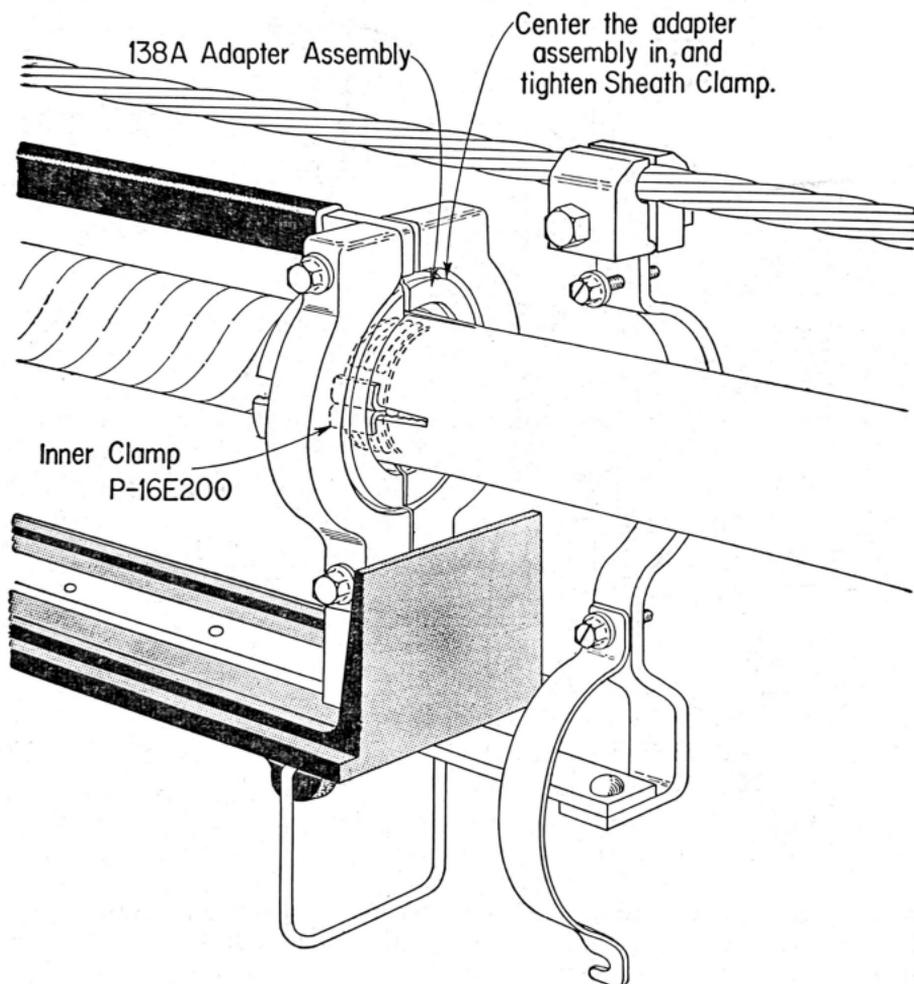
2.06 Fasten the two spacers of the adapter assembly over the inner sheath clamp with the lead lashing wire provided. Use only three turns and cut off excess, do not allow turns to cross each other.

Secure two halves of adapter with 3 turns of lead lashing wire.



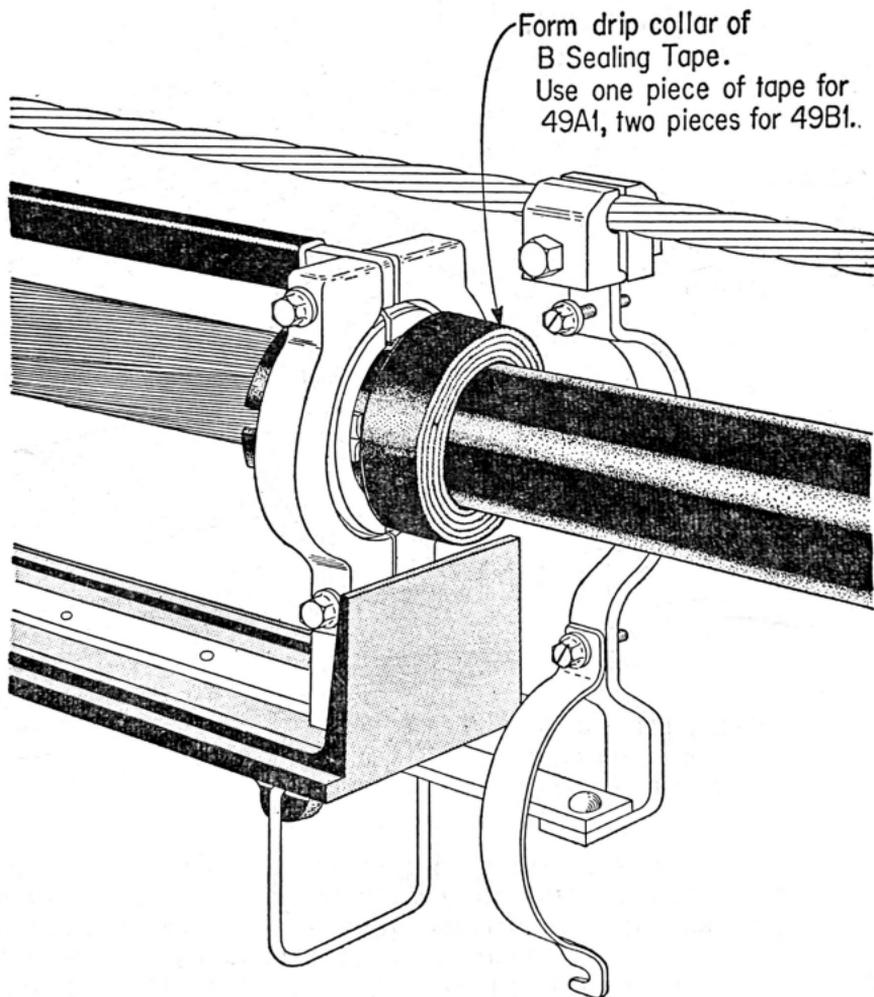
Do not twist ends of wire.  
Do not cross turns, keep wire in groove.

2.07 Then fasten the assembly between the sheath clamp and the clamp bracket. Make a visual inspection to ensure that the adapter assembly is seated in the grooves of the sheath clamps and to ensure that electrical continuity between the metallic portion of the cable sheath and the clamp bracket is maintained by the folded ears of the inner sheath clamp pressing solidly against the inside of the adapter assembly.



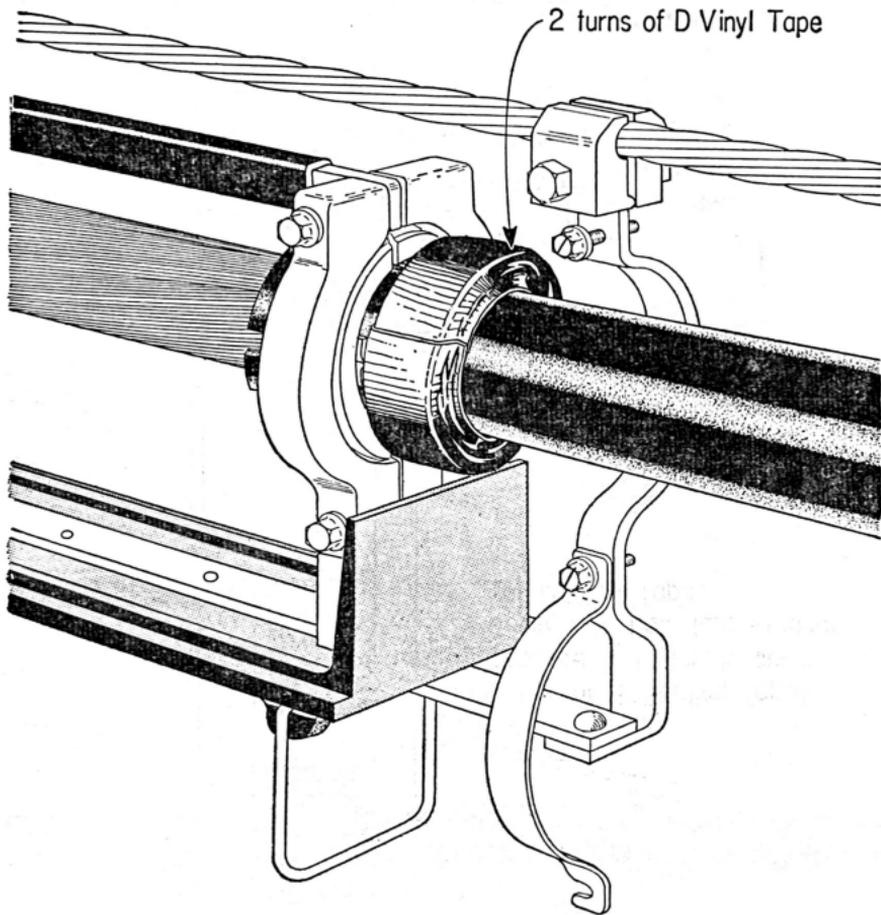
2.08 Remove the temporary bonding across the sheath opening. Remove the B Paper Tape markers.

2.09 On the cable sheath at each end, just outside the sheath clamp brackets, form drip collars. Remove a strip of sealing tape from the treated paper which encloses it, and form the collar starting at the top of the cable by building up layers of the tape one on top of the other, using the entire length of tape.

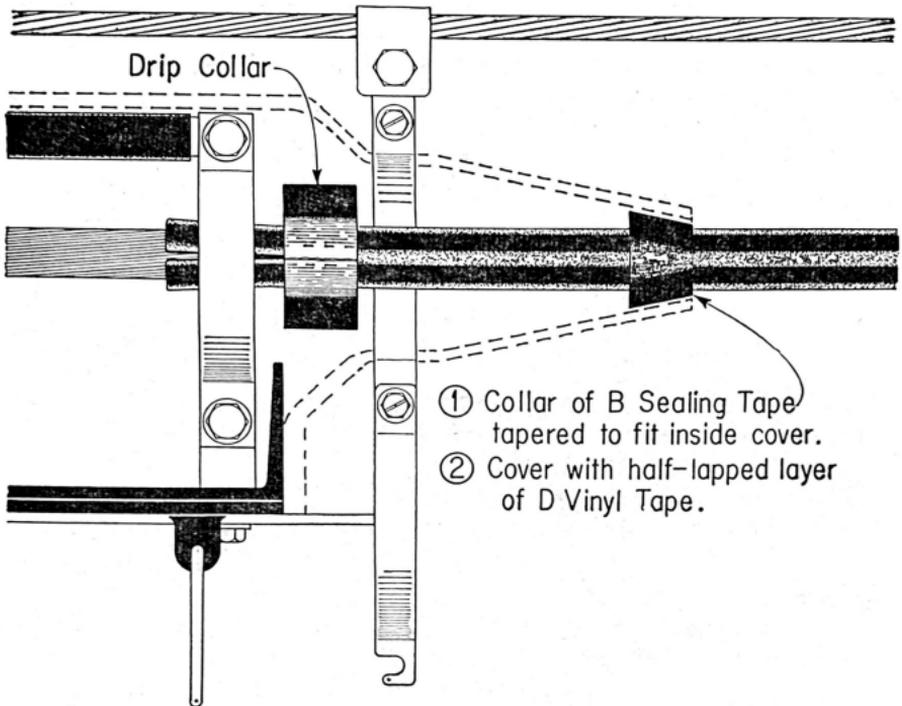


Form drip collar of  
B Sealing Tape.  
Use one piece of tape for  
49A1, two pieces for 49B1.

- 2.10 Place two turns of D Vinyl Tape over drip collars to prevent the cover from adhering to the sealing tape.



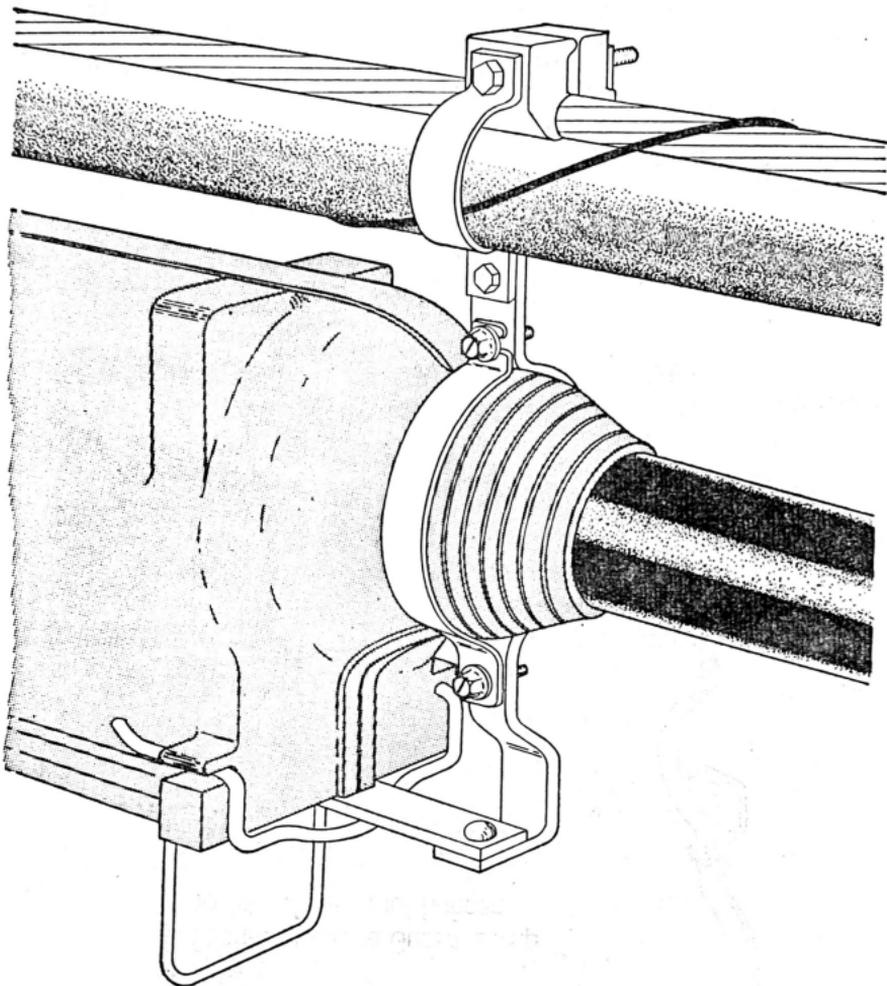
2.11 On the 49B1 Cable Terminal, if the cable is less than 1 inch in diameter, build up a cone shaped collar, as shown, to seal off the space between the cable and the terminal cover.



2.12 If two cables are lashed to the same strand the 49 Type Cable Terminal can be attached to the strand in the following manner. If upper cable is more than 1-3/8 inches in diameter use a larger U Cable Guard Strap.

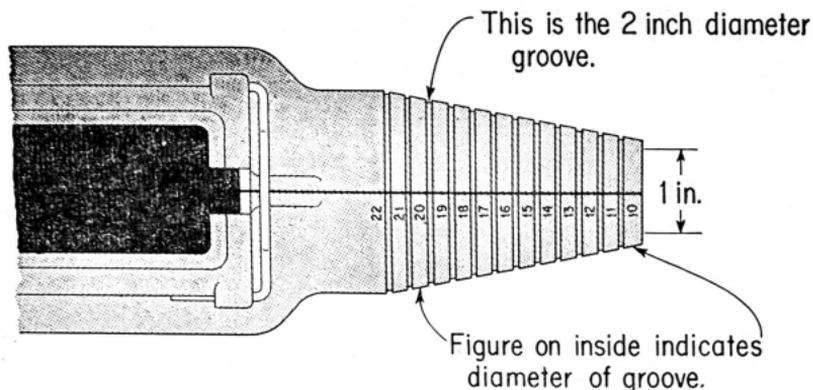
1. Remove strand lug from terminal
2. Fasten strand lug in upside down position to No.1 U Cable Guard Strap.
3. Fasten U Cable Guard Strap to top of terminal hanger.





### 3. FITTING THE COVER

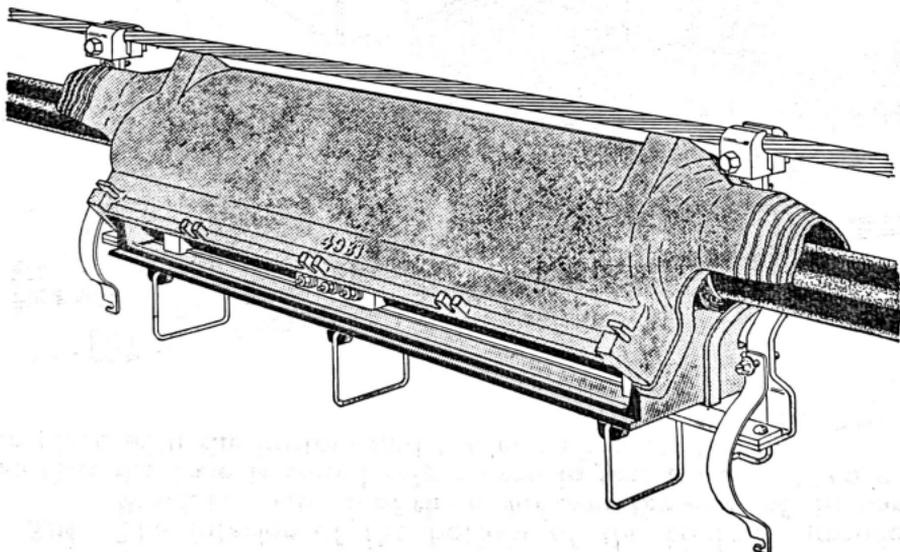
3.01 The tapered ends of the cover are grooved and the diameter of the grooves are marked alongside, as shown.



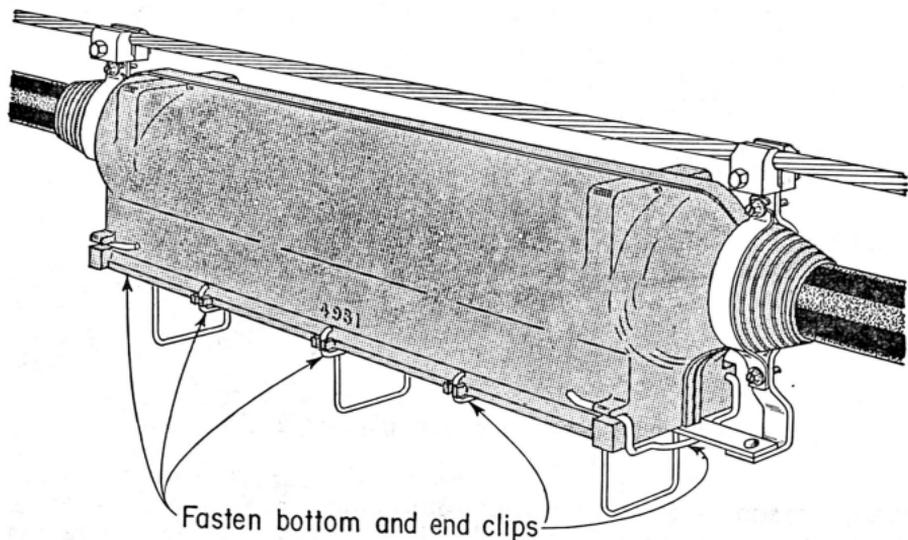
3.02 Select the groove for the diameter of cable and cut off the outside portion of the tapered ends.

3.03 The cover has **odd** and **even** embossed on its sides. Match the **odd** side of cover with the odd numbers on the base, then starting from the rear work the cover between the strand and the completed joint. Slide the cover down over the base assembly as shown.

Place cover between strand and conductor bundle.

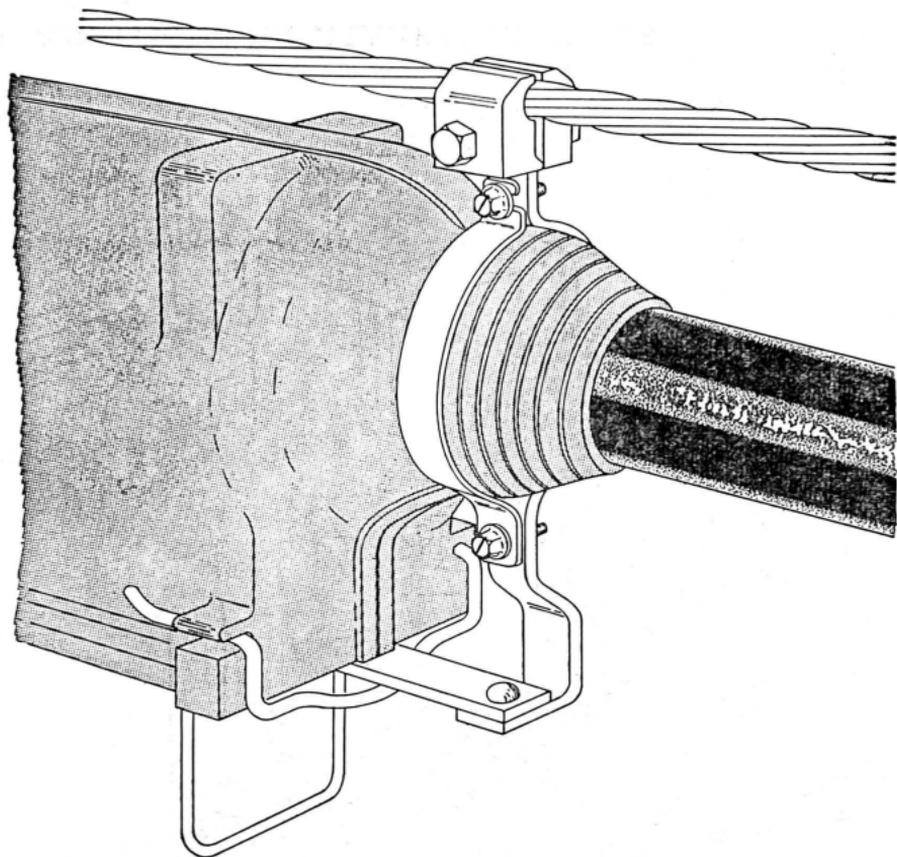


3.04 The interior of the bottom of the cover is grooved. **Work the bottom of the cover over the edge of the base, so that the base is completely seated in this groove.** Then clip in place with the bottom and the end clips as shown.



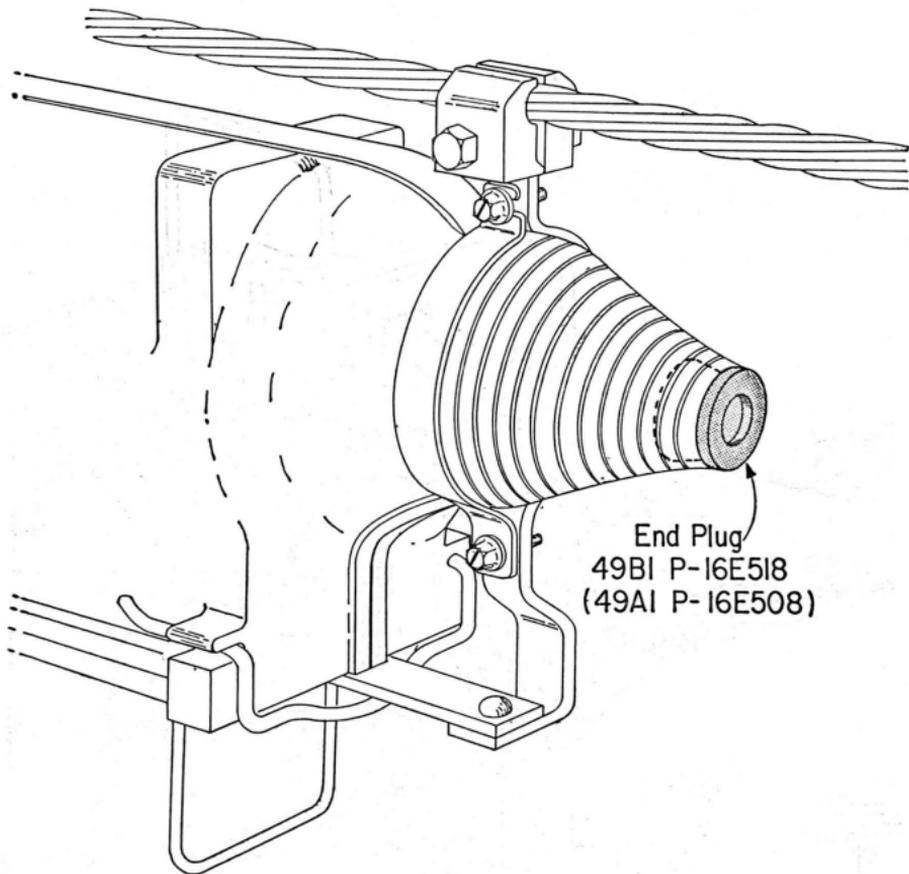
3.05 Ensure that the tapered ends of the cover fit snugly around the cable. **Work the end with the fingers until the slit in the cover is tightly closed.**

3.06 Swing the semicircular cover clamps into the vertical position, engage the slotted bolt hole and tighten upper and lower bolts to secure the cover.



#### 4. DEAD END

4.01 When the 49A1 or 49B1 Cable Terminal is used at the end of the cable, it is only necessary to close the opening at the unused end. This is done by inserting the P16E508 Plug in the end of the 49A1 or the P16E518 Plug in the end of the 49B1 Terminal as shown.



#### 5. ADDITIONS OR REARRANGEMENTS

5.01 When additions or rearrangements are necessary, remove the semicircular cover clamps, free the clips holding the cover to the base, and remove the cover.

5.02 Make the necessary additions or changes, replace the cover and tighten the cover clamps.