

## **1A1 AND 1B1 CLOSURES**

### **INSTALLATION**

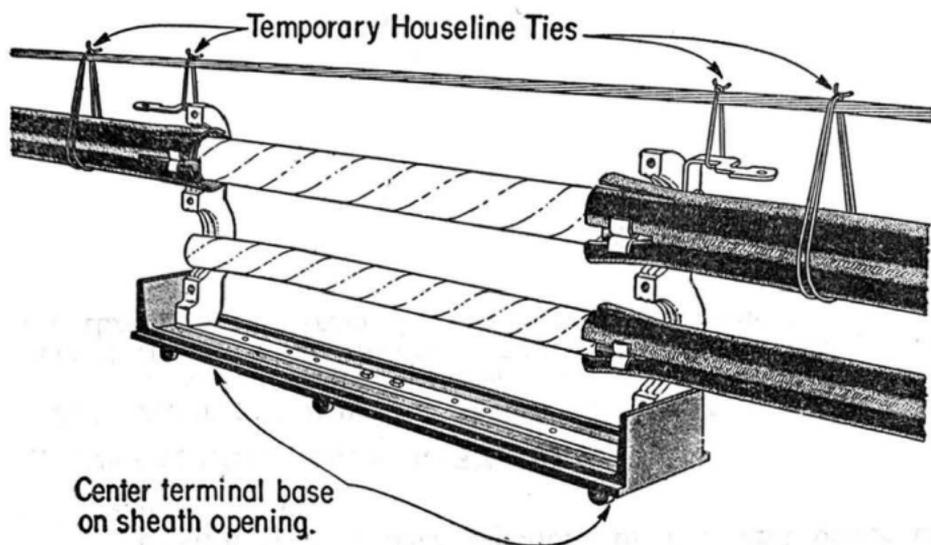
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#### **1. GENERAL**

- 1.01 This section describes the installation of the "Ready-Access" 1A1 and 1B1 Closures on aerial PIC Cable.
- 1.02 Refer to Section G50.730.3 for the sheath preparation. Refer to Section G50.699.1 for information on joining conductors.
- 1.03 Refer to Section G50.699.1 for pressure plugs when the closure is used near junctions of PIC and paper or pulp cables.

#### **2. INSTALLING BASE ASSEMBLY**

- 2.01 After preparing the sheath opening, center the base assembly on the sheath opening with the clamp brackets behind the cable as shown. Support the base assembly and the through cable from the strand with houseline ties.



2.02 No adapter assemblies are required for cables of the following sizes used with the inner clamp listed below.

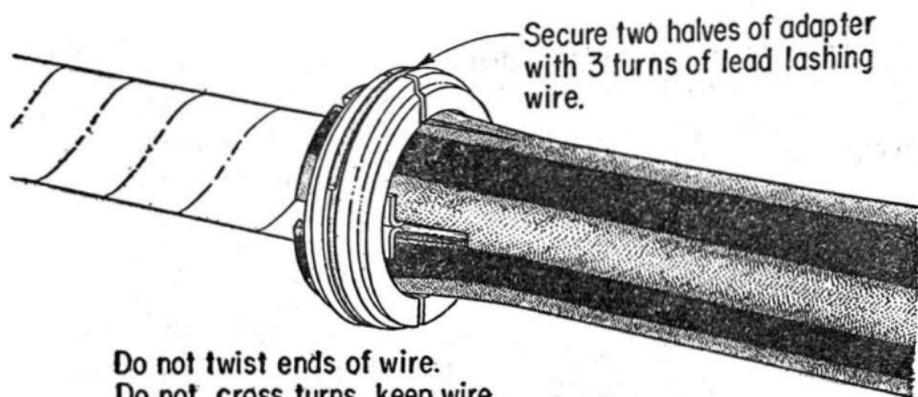
<u>Closure</u>	<u>Cable Size</u>	<u>Inner Clamp</u>
1A1	0 to 1.0 in.	P16E198
1B1	1.6 in. to 2.2 in.	P16E199

2.03 Cable ends in the above range of sizes are clamped directly between the sheath clamp and the clamp bracket. See illustration in Paragraph 2.06.

2.04 Adapter assemblies are required for cables of the following sizes. The inner clamp listed is part of the adapter assembly.

<u>Closure</u>	<u>Cable Size</u>	<u>Inner Clamp</u>	<u>Adapter Assembly</u>
1B1	0 to 1.0 in.	P16E198	138B
1B1	1.0 in. to 1.6 in.	P16E200	138A

2.05 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. DO NOT TWIST ENDS OF WIRE.

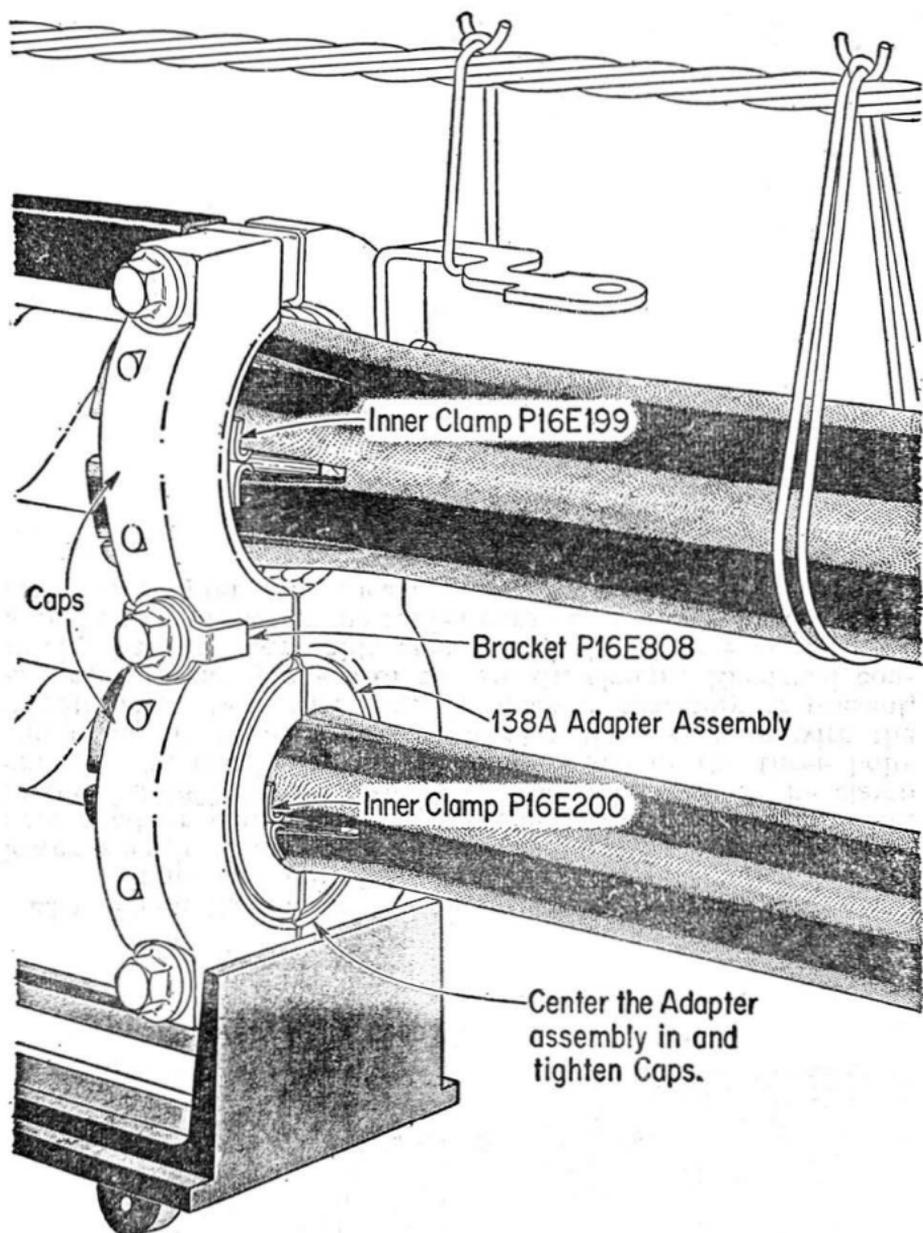


Secure two halves of adapter  
with 3 turns of lead lashing  
wire.

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

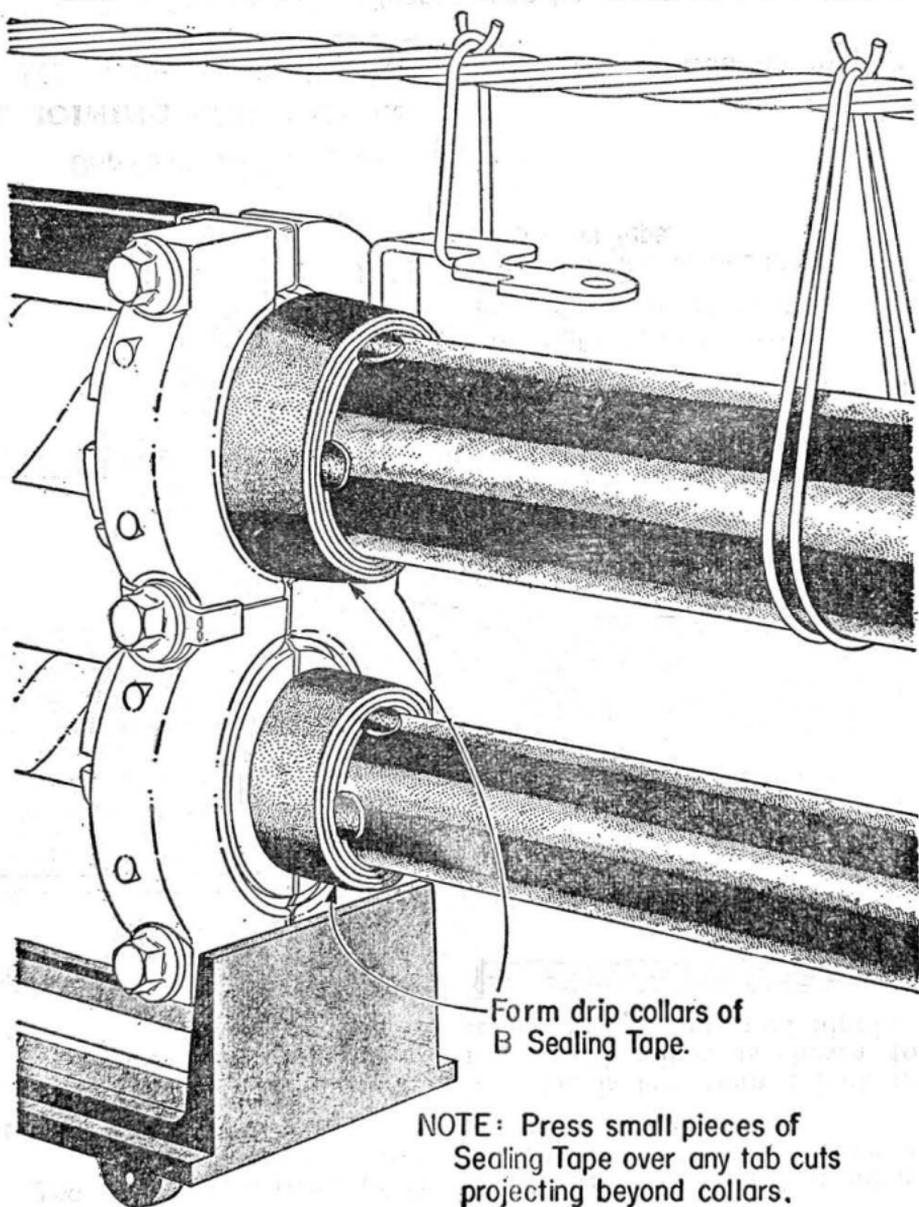
2.06 Then fasten the adapter assembly between the sheath clamp and the clamp bracket. Both the upper and the lower sheath clamps and the tie rod have to be in position before either clamp can be tightened. Insert the middle bolt in the P16E808 Bracket and place the bracket over the clamp ends at the middle of the assembly. Each of the three bolts should be tightened a few turns at a time, starting with the middle bolt. Make sure that the adapter assembly, if present, is seated in the grooves of the sheath clamps. Electrical continuity between the cable sheath and the closure depends on good contact between the folded ears of the inner sheath clamp and the adapter and sheath clamp assembly.

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- 2.07 Remove the temporary bonding across the sheath opening. Remove the B Paper Tape Markers.
- 2.08 On the cable sheath at each end close to the sheath clamp brackets form drip collars of sealing tape, as follows :

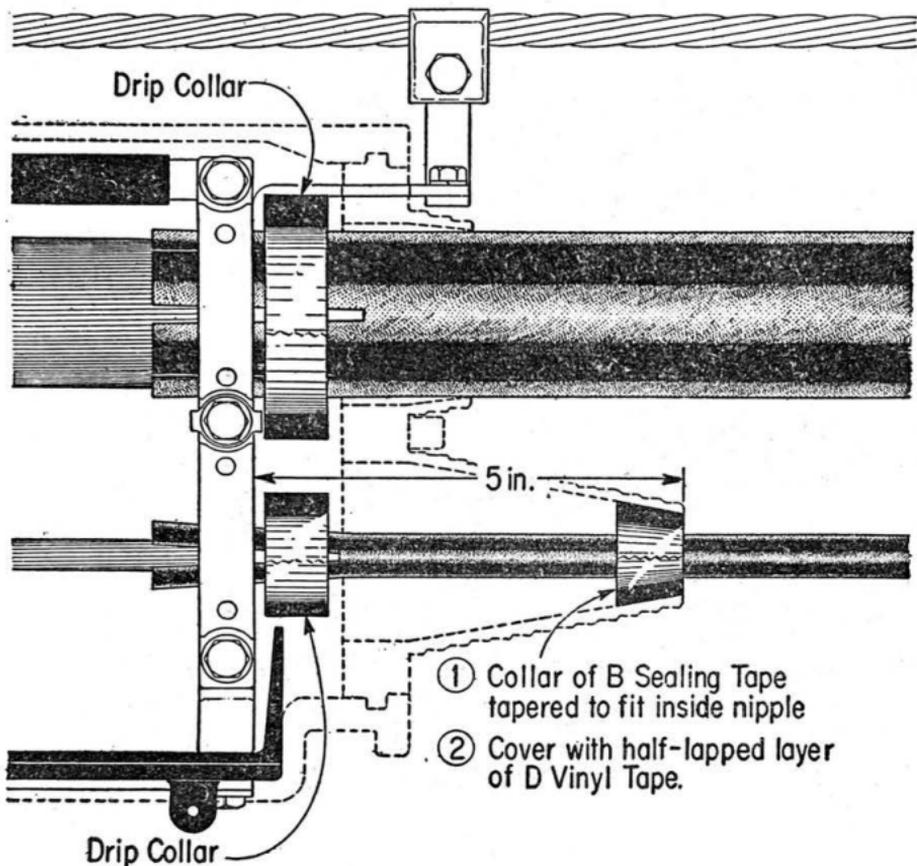
Closure	Number of Strips of Tape	Cable Diameter		
		up to 1.0 in.	1.0 in. to 1.6 in.	1.6 in. to 2.2 in.
1A1		1	—	—
1B1		3	2	1



NOTE: Press small pieces of Sealing Tape over any tab cuts projecting beyond collars.

2.09 Place two turns of D Vinyl Tape over each drip collar to prevent the cover from adhering to the sealing tape.

2.10 On the 1B1 Closure, if a 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 nipple.



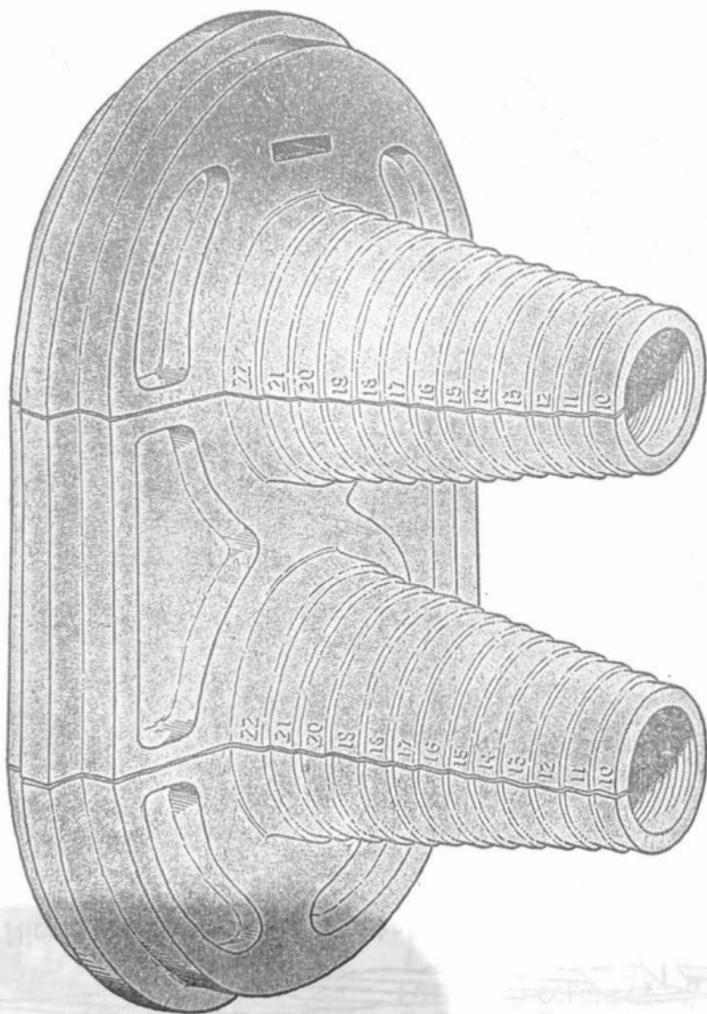
### 3. JOINING CONDUCTORS

3.01 Refer to Section G50.699.1 for information on joining PIC cable conductors.

3.02 The 1A1 and 1B1 Closures can be equipped for use as a ready-access terminal at a branch splice. P18A782 Terminal Blocks can be mounted as desired on the base assembly of the closure. Refer to Section G61.622.4 for the method of terminating. P18A786 Rings should be fitted to the base for the drop wire runs.

#### 4. FITTING THE COVER

4.01 The nipples used at the ends of the cover are grooved and the diameters of the grooves are marked alongside, as shown. The P16E522 Nipple for the 1B1 Closure is shown, the P16E502 Nipple for the 1A1 Closure is smaller.

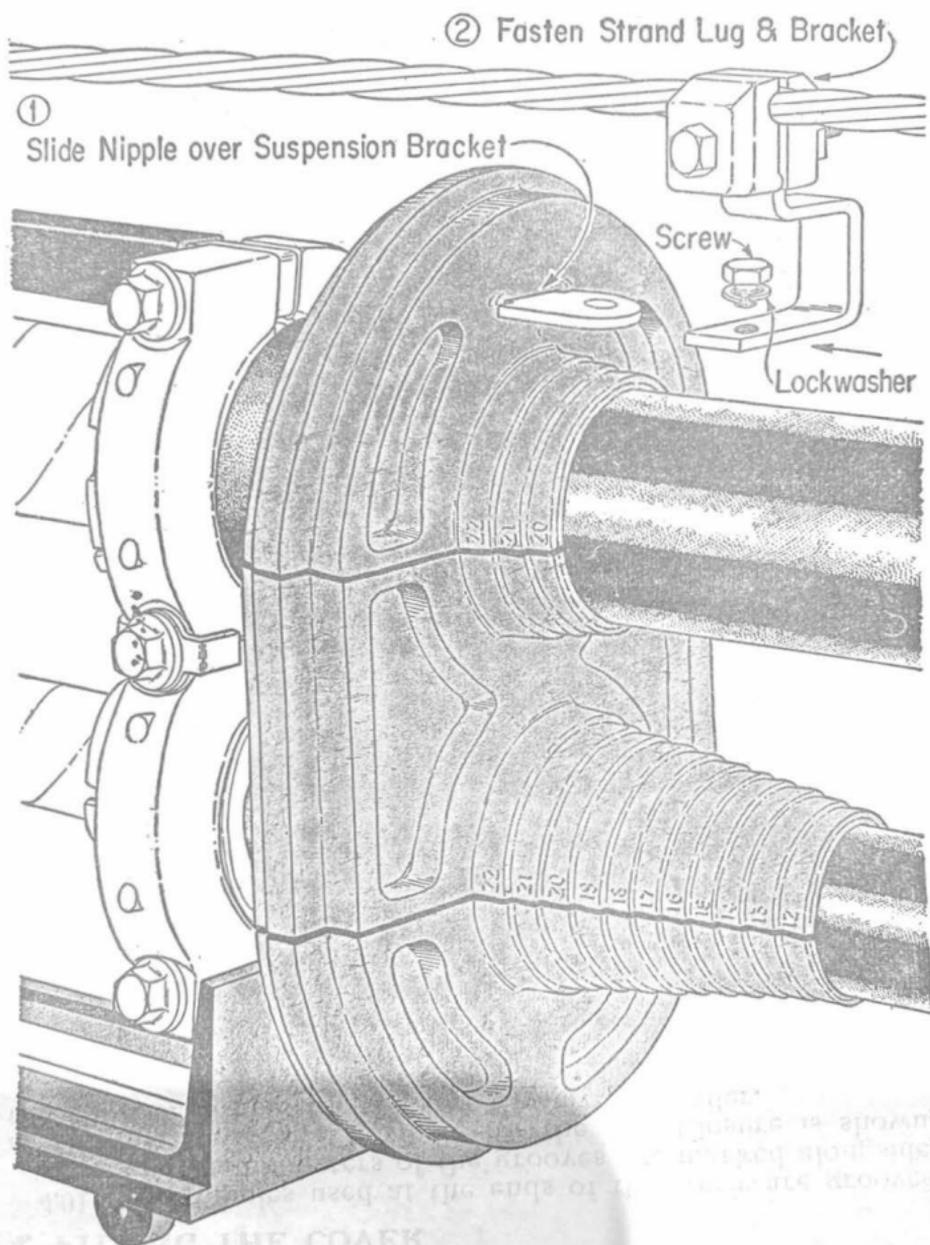


P16E522-NIPPLE

4.02 Select the proper groove for each cable and cut off the outside portions of the tapered ends.

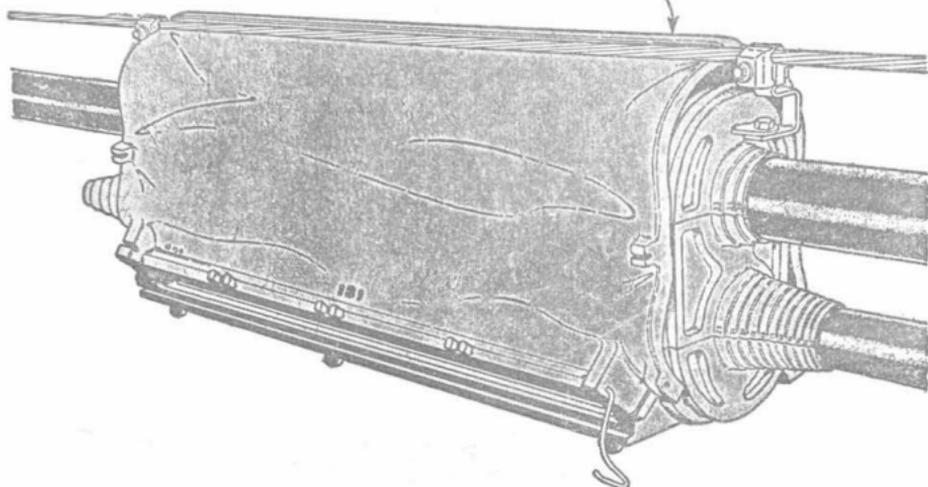
4.03 At each end fit the nipples around the cables, then slide the nipples over the suspension bracket until the projection on the side of the bracket clears the nipple.

4.04 Fasten the strand lug to the suspension bracket at each end and fasten the strand lug to the strand. The houseline ties can be removed now.

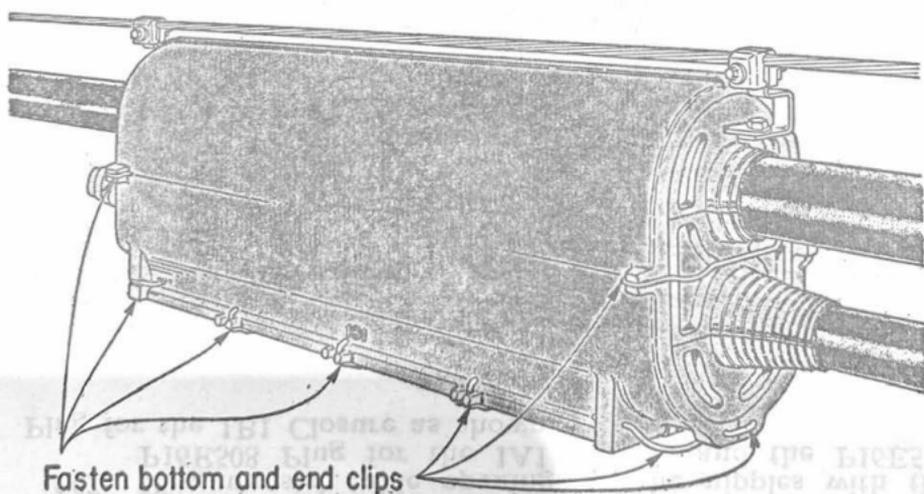


4.05 Place the cover by taking the side marked 1A1 or 1B1 and starting from the rear, work the cover between the strand and the sheath clamp details.

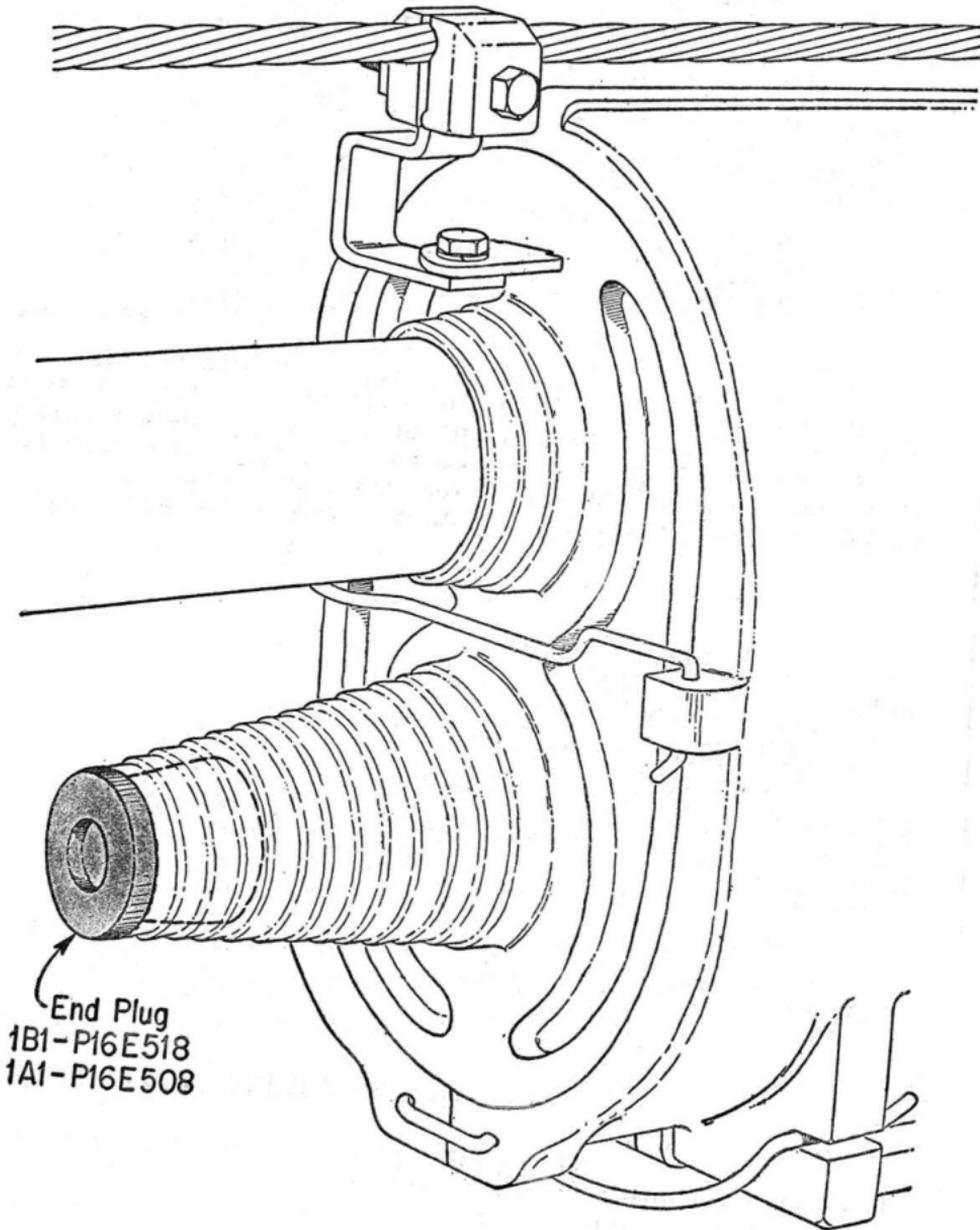
Place Cover between strand and tie rod



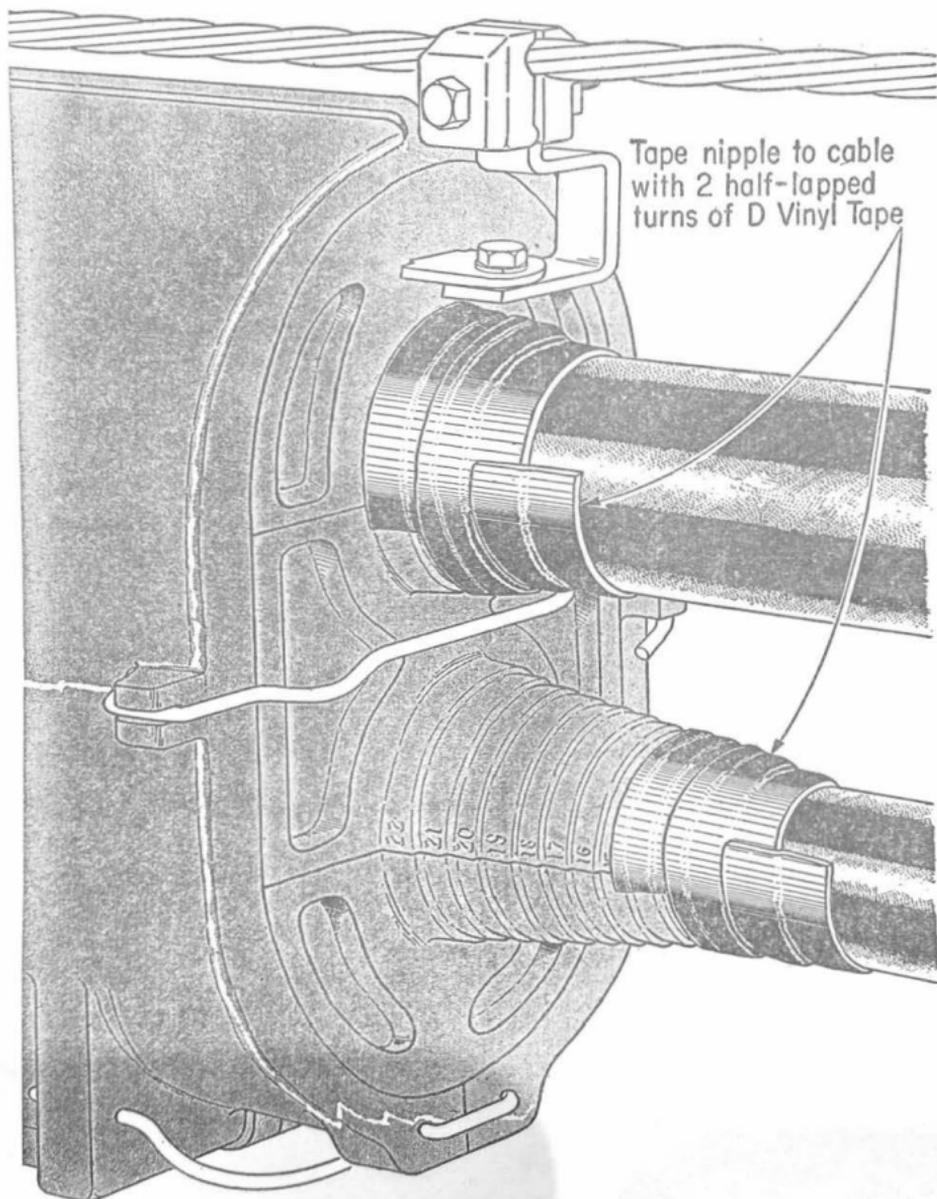
4.06 The sides and bottom of the cover are grooved to match up with grooves in the nipples and grooves in the base strip. **Work all cover edges so that all grooves are firmly seated.** Then clip in place with the bottom and end clips as shown. (End clips are not furnished at the middle, between the cables, on the 1A1 Closure.)



4.07 Plug unused cable openings in the nipples with the P16E508 Plug for the 1A1 Closure and the P16E518 Plug for the 1B1 Closure as shown.



- 4.08 Tape all nipples to the entering cables with two half-lapped turns of D Vinyl Tape as shown.



- 4.09 In removing the cover, unfasten the bottom and end clips. It is not necessary to remove the nipples at all.

**G50.730.4**

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