

## WIRE TERMINALS MULTIPLE LINE WIRES

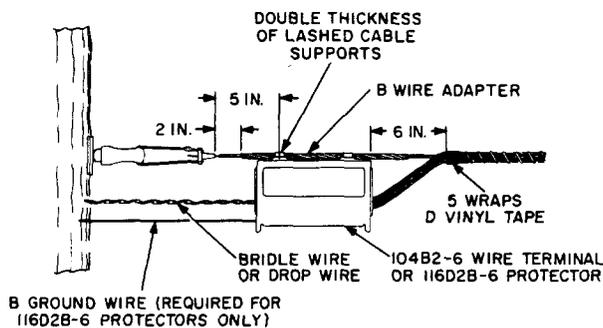
### 1. GENERAL

**1.01** Where a wire terminal or protector is to be installed on new wire, leave sufficient slack in the conductors at the time the new wire is being placed for proper installation of the terminal. Slack is provided by cutting out a section of the support wire and splicing the remaining ends of the support wire together. A wire terminal is installed on *existing* multiple line wire by splicing slack into the conductors. Be sure to maintain the color of conductors when providing slack. Cut only the conductors being terminated; the others can be placed in a B Cable Guard through the B Wire Bracket or behind the terminal.

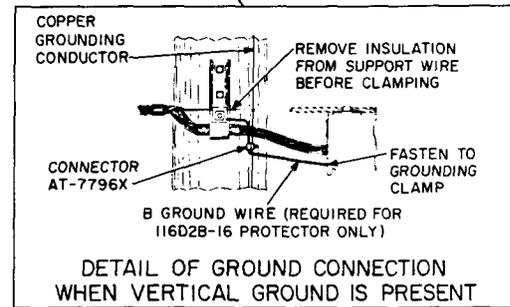
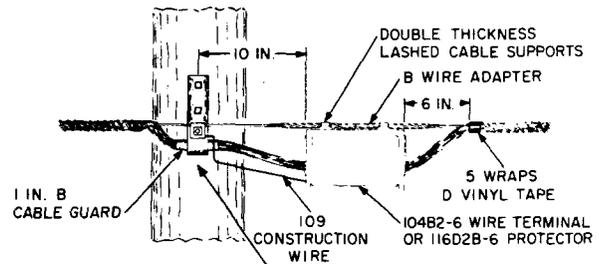
**1.02** A 116-type protector should be grounded as follows:

- (a) To a cable strand or power multigrounded neutral wire with B Ground Wire.
- (b) To the support wire of multiple line wire with a 109 Construction Wire or 109 Steel Line Wire.

### 2. LOCATING ON SUPPORT WIRE OF MULTIPLE LINE WIRE



**Fig. 1—Multiple Line Wire Deadend**



**Fig. 8 - At Multiple Line Wire Intermediate Pole**

### Fig. 2—At Multiple Line Wire Intermediate Pole

#### 2.01 Installation of 104B2-6 Wire Terminal or 116D2B-6 Protector

(a) Place a B Wire Adapter about 5 inches from the end of the wirewise or sleeve deadending the support wire. **Do not remove the insulation from the support wire** before placing the wire adapter. The wire adapter is installed as follows:

- (1) Place the 3-wire set first, starting at the center which is marked by paint, as shown in Fig. 3. Place the 3-wire set (gauge by eye) on the support wire so that it is centered at the terminal clamp nearest the pole (Fig. 1). Wrap the set so it is spiraled around the support wire from the center out to the ends in each direction at once using the thumb

and forefinger of each hand. Be sure that the ends are snapped into place over the support wire.

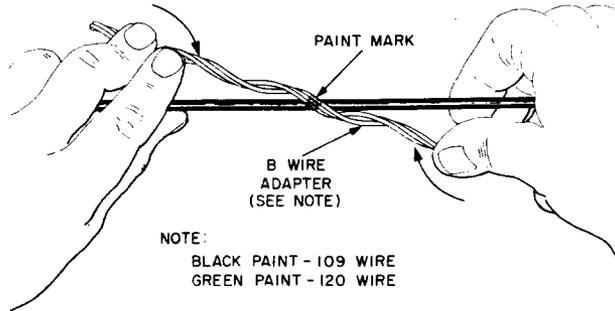


Fig. 3—Installation of B Wire Adapter

(2) Place the second 3-wire set for 120 size or first 2-wire set for 109 size next to the first 3-wire set, being sure to match the paint marks at the center so the ends will be approximately even. It is installed in a similar manner to the 3-wire set.

(3) Place the last 2-wire set in the gap left between the other sets and match the paint marks so the ends will be about even. Install as described in (1).

(b) Start the second B Wire Adapter on the support wire with the paint mark about 3 inches from the end of the first B Wire Adapter so that it is centered at the far terminal clamp. (Fig. 1).

(c) Cut off the buckles from a pair of lashed cable supports and fold in half to obtain double thickness. Bend straps over the wire adapter on support wire with ends pointing down (Fig. 4).

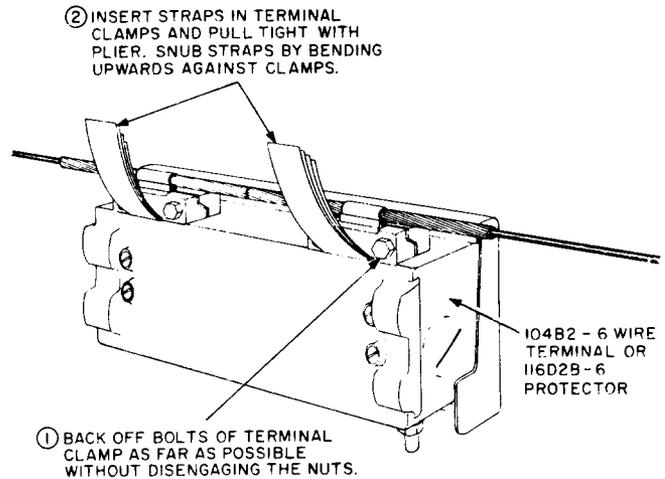


Fig. 4—Inserting Cable Supports in Terminal Clamps

(d) Hold the terminal in proper alignment with support wire, and tighten the bolts of the terminal clamps with the C Socket Wrench or N Cable Terminal Wrench. Take up alternately on the two bolts of each clamp.

(e) Terminate straps as shown in Fig. 5.

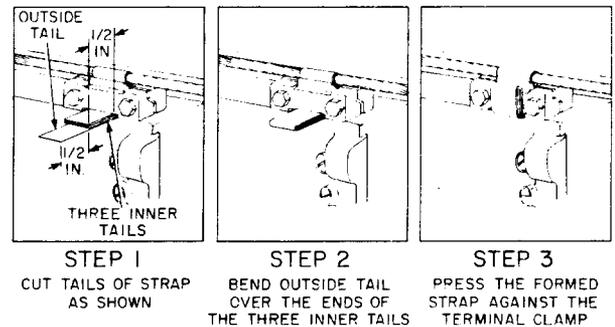


Fig. 5—Terminating Cable Supports

3. LOCATING ON MULTIPLE LINE WIRE POLES

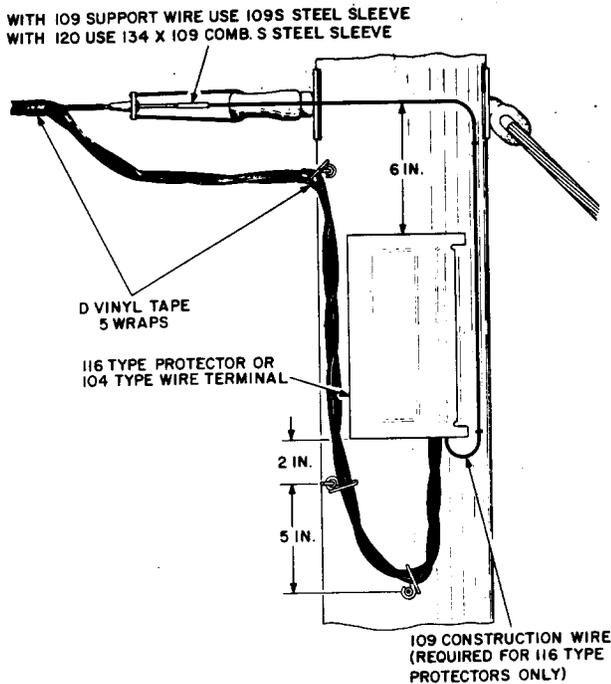


Fig. 6—At Wire Dead End Pole

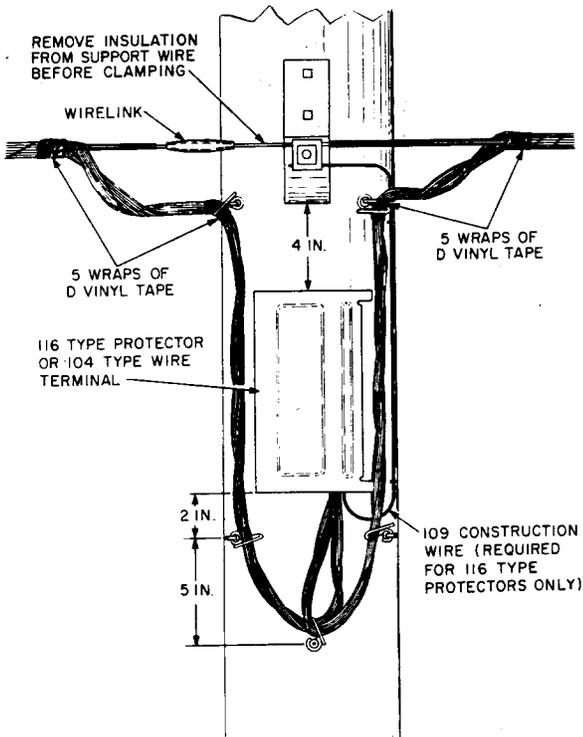


Fig. 7—Intermediate Pole

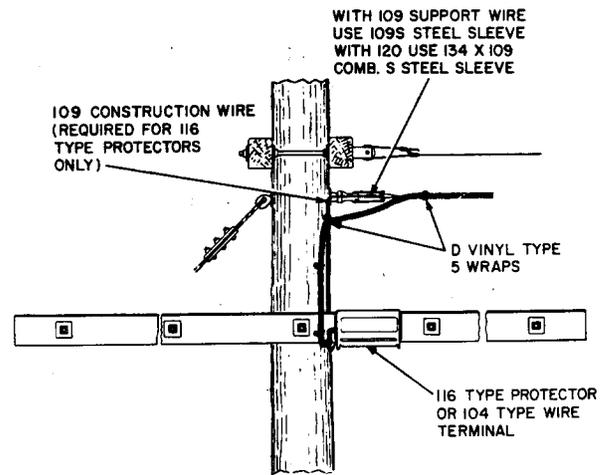


Fig. 8—Crossarm or Wire Dead End Pole

4. LOCATING ON CABLE POLES

4.01 Wire terminals and protectors should be placed on the cable suspension strand in such a location that they do not interfere with climbing space, existing aerial splices, or terminals.

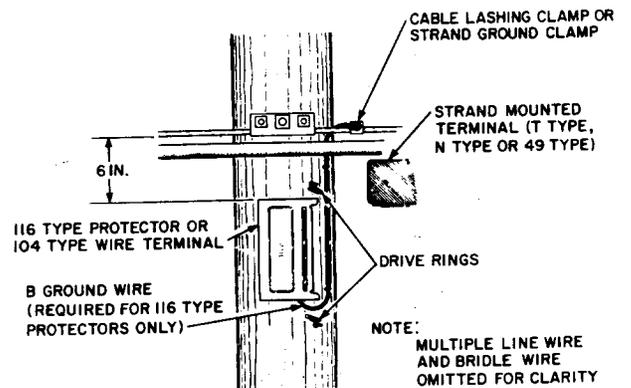


Fig. 9—Pole With Strand-Mounted Cable Terminal (multiple line wire and bridle wire omitted for clarity)

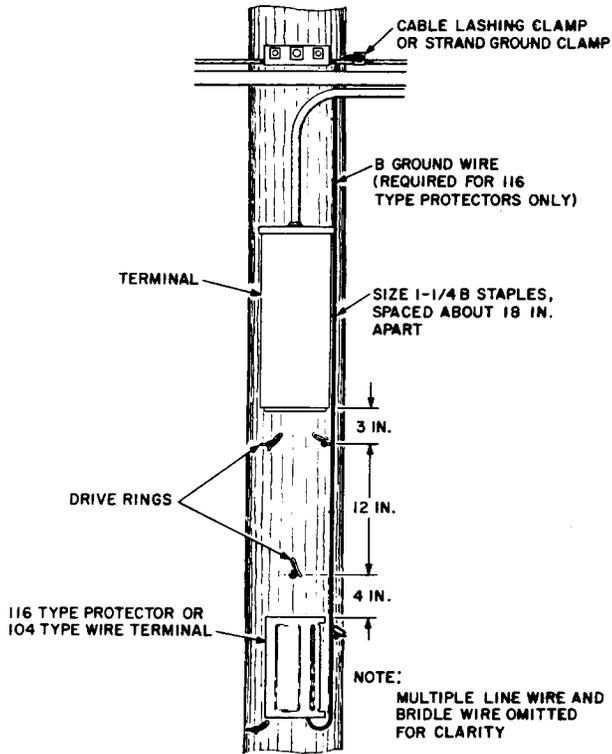


Fig. 10—Pole With Pole-Mounted Cable Terminal (multiple line wire and bridle wire omitted for clarity)

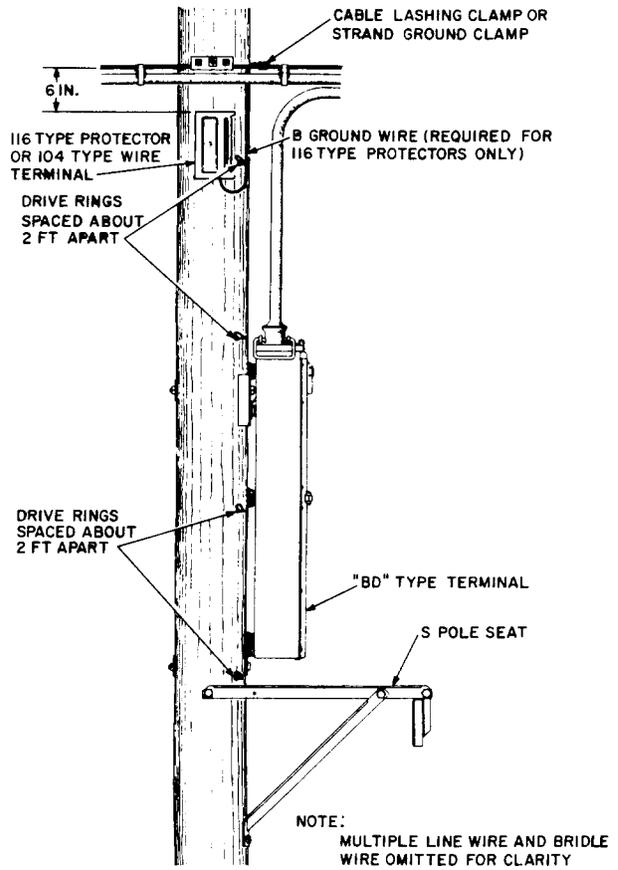


Fig. 11—Pole With Pole-Mounted Cross-Connecting Terminal (multiple line wire and bridle wire omitted for clarity)

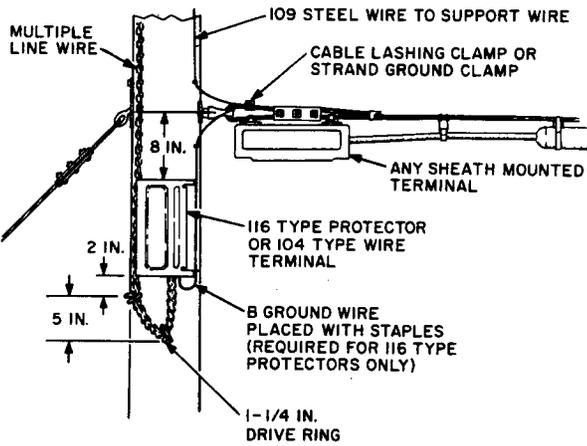


Fig. 12—Deadend Pole With Strand-Mounted Cable Terminal

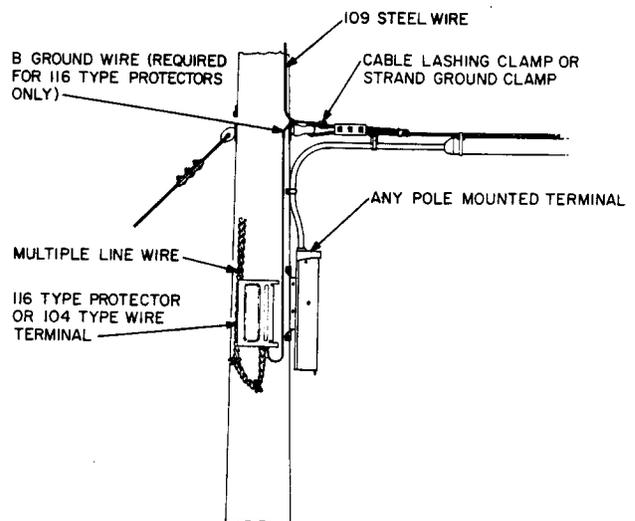


Fig. 13—Deadend Pole With Pole-Mounted Cable Terminal