

104- AND 105-TYPE CABLE TERMINALS DESCRIPTION AND INSTALLATION

	CONTENTS	PAGE	
			• Include information on replacement parts
			• Revise text and format.
1.	GENERAL	1	
2.	DESCRIPTION	2	1.03 The 104- and 105-type cable terminals are nonprotected weatherproof strand mounted cable terminals primarily for outside use on nonpressurized polyethylene-insulated conductor (PIC) cables. These terminals are not for use as splice closures.
3.	CABLE TERMINAL LOCATION	7	
4.	INSTALLING CABLE TERMINAL	10	
1.	GENERAL		1.04 The 104A2-12 cable terminal is the preferred count version with twelve pairs of binding posts furnished as an integral part of the cable terminal.
1.01	This section covers the description and installation of the 104- and 105-type cable terminals.		
1.02	This section is reissued to:		1.05 The 105A2-12 and 105A2-25 cable terminals are the twelve and twenty-five pair fixed count versions, respectively. The binding posts of these terminals are also furnished as integral parts of the cable terminals.
	• Include the 104A2- and 105A2-type cable terminals		

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

SECTION 631-250-100

1.06 The 104A1- and 105A1-type cable terminals are rated manufacture discontinued (MD) and are superseded by the 104A2- and 105A2-type cable terminals, respectively. General information on the 104A1- and 105A1- is included in this issue for reference purposes.

1.07 For additional information on the 104- and 105-type cable terminals refer to the following sections:

SECTION	TITLE
631-020-200	Brackets—51B and 38-Y-3913—Description and Use
644-200-071	Replacement of 49-Type Cable Terminals with 104- or 105-Type Cable Terminals

2. DESCRIPTION

2.01 Figures 1, 2, and 3 illustrate the 104A2-12, 105A2-25, and 105A1-25 cable terminals, respectively. Table A lists the 104- and 105-type cable terminals and their features.

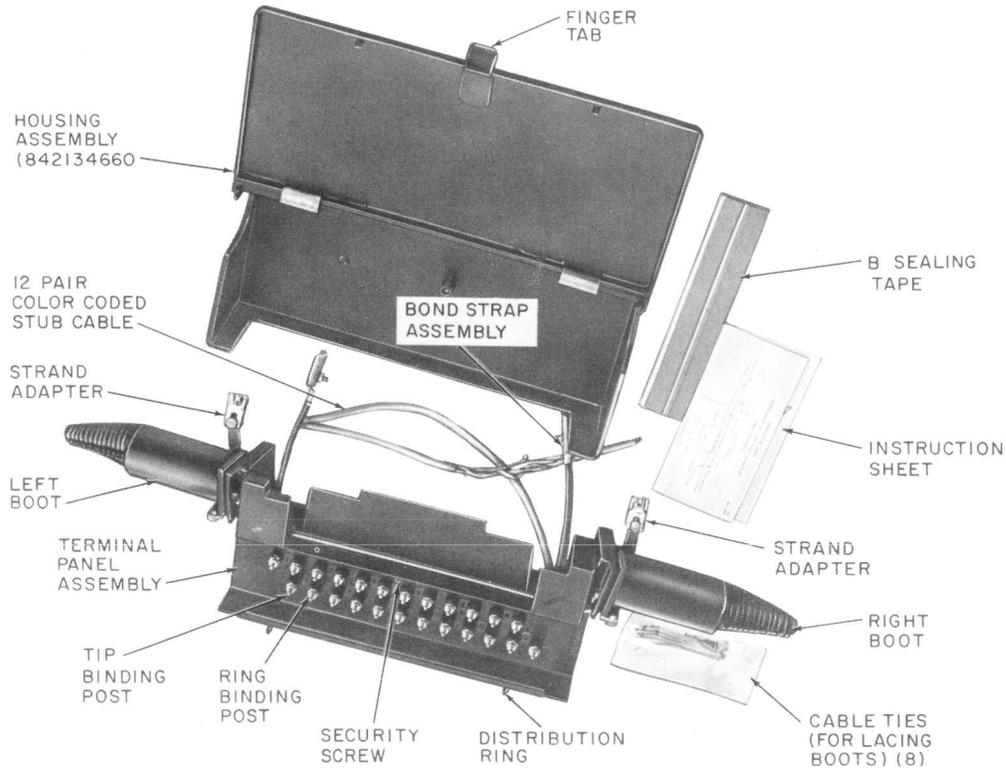


Fig. 1—104A2-12 Cable Terminal

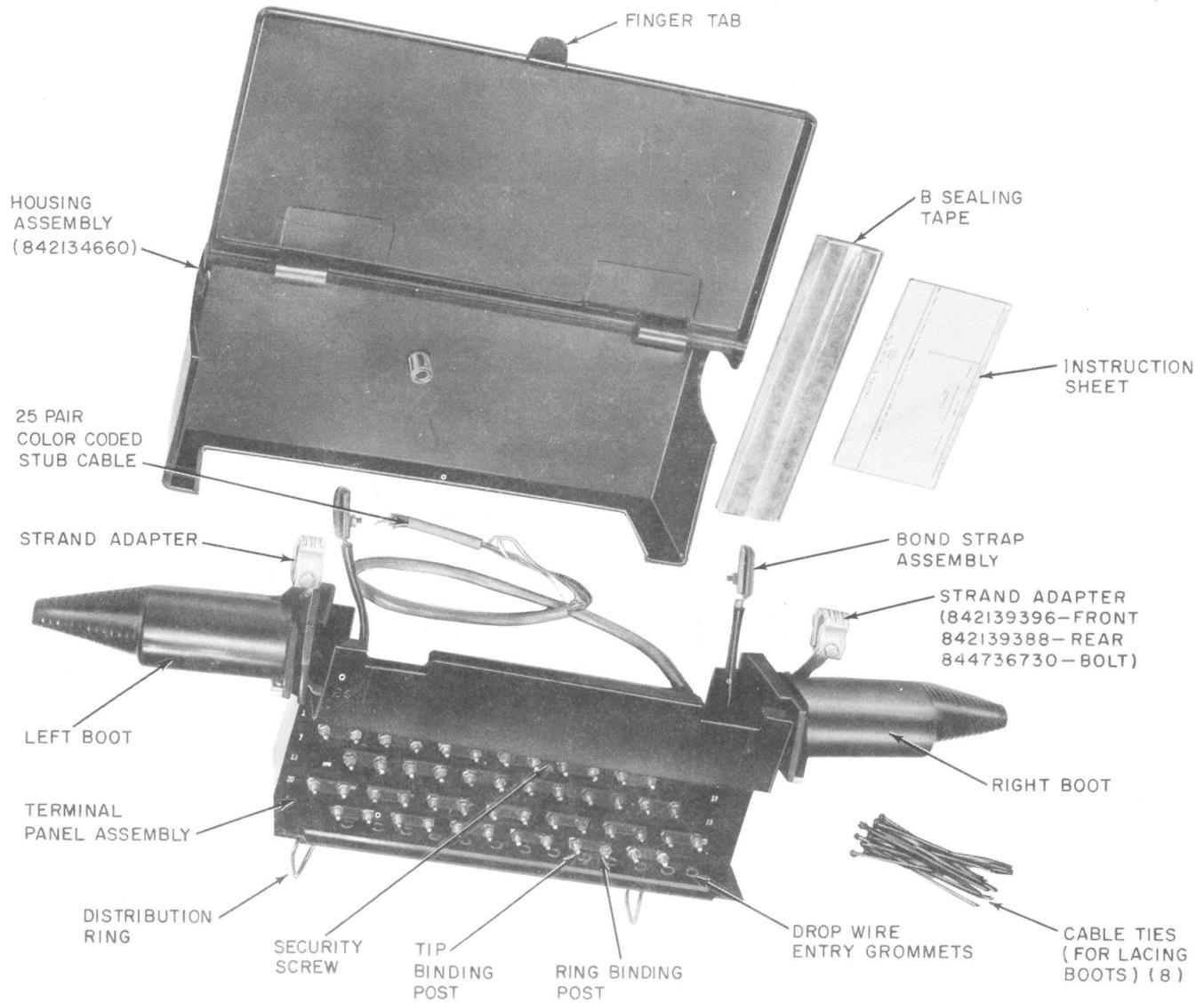


Fig. 2—105A2-25 Cable Terminal

SECTION 631-250-100

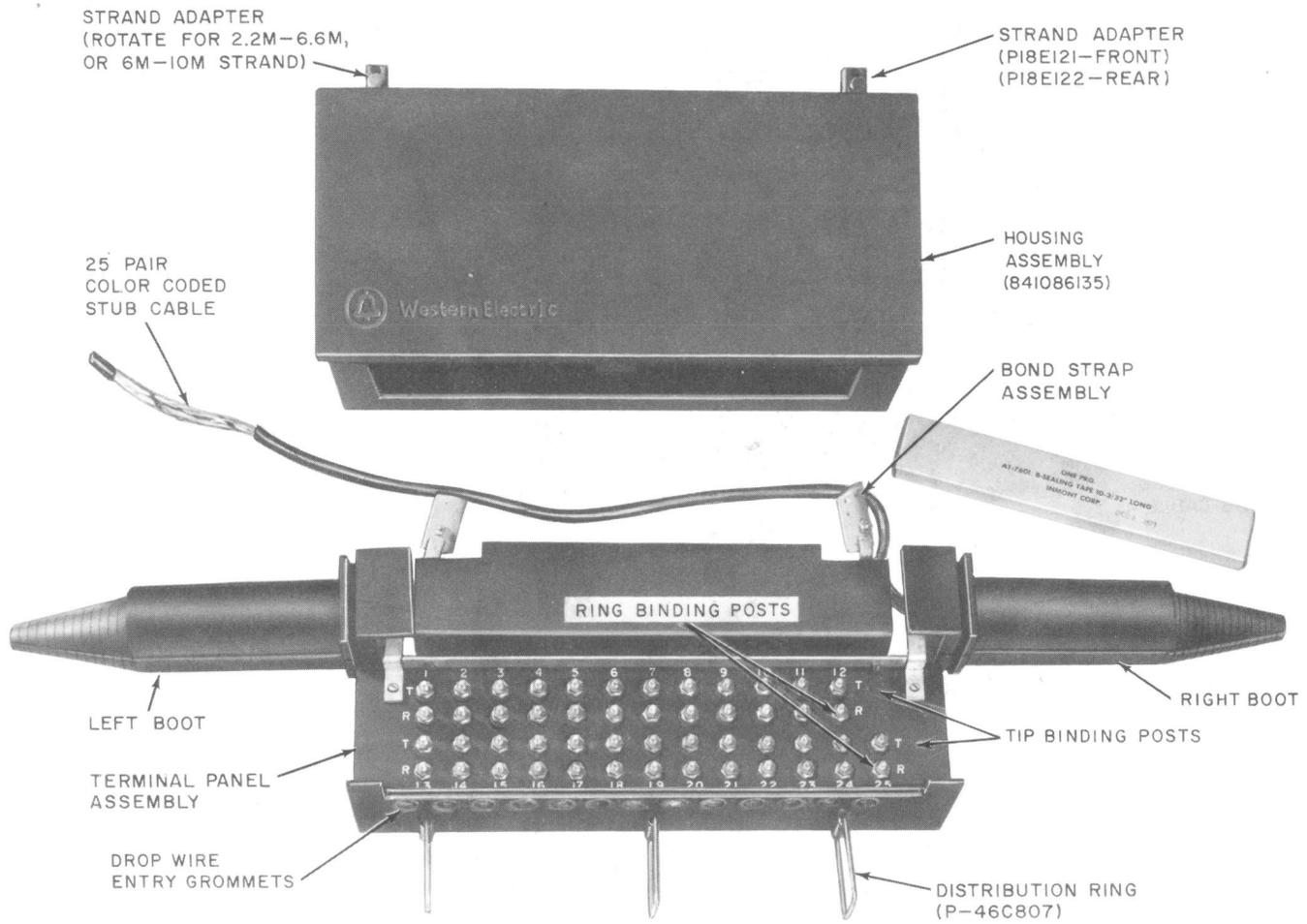


Fig. 3—105A1-25 Cable Terminal (MD)

TABLE A

104- and 105- TYPE CABLE TERMINALS

CABLE TERMINAL	RATING	MAXIMUM* CABLE DIAMETER (INCHES)	NO. OF PAIRS IN STUB CABLE	NO. OF BINDING POST (PAIRS)
104A2-12	STD	1.8	12	12
105A2-12	STD	1.8	12	12
105A2-25	STD	1.8	25	25
104A1-12	MD	1.8	12	12
105A1-12	MD	1.8	12	12
105A1-25	MD	1.8	25	25

* When these terminals are to be used with cables larger than 1.8 inches od, 1A1 or 1B1 terminal stubs must be used in conjunction with the terminal as covered in Section 631-240-211.

2.02 The terminal panel assembly of the 104A2 and 105A2 cable terminals snaps in place in the housing assembly. A security screw (Fig. 4)

which requires a KS-19192 L1 wrench is provided for use where additional security is desired.

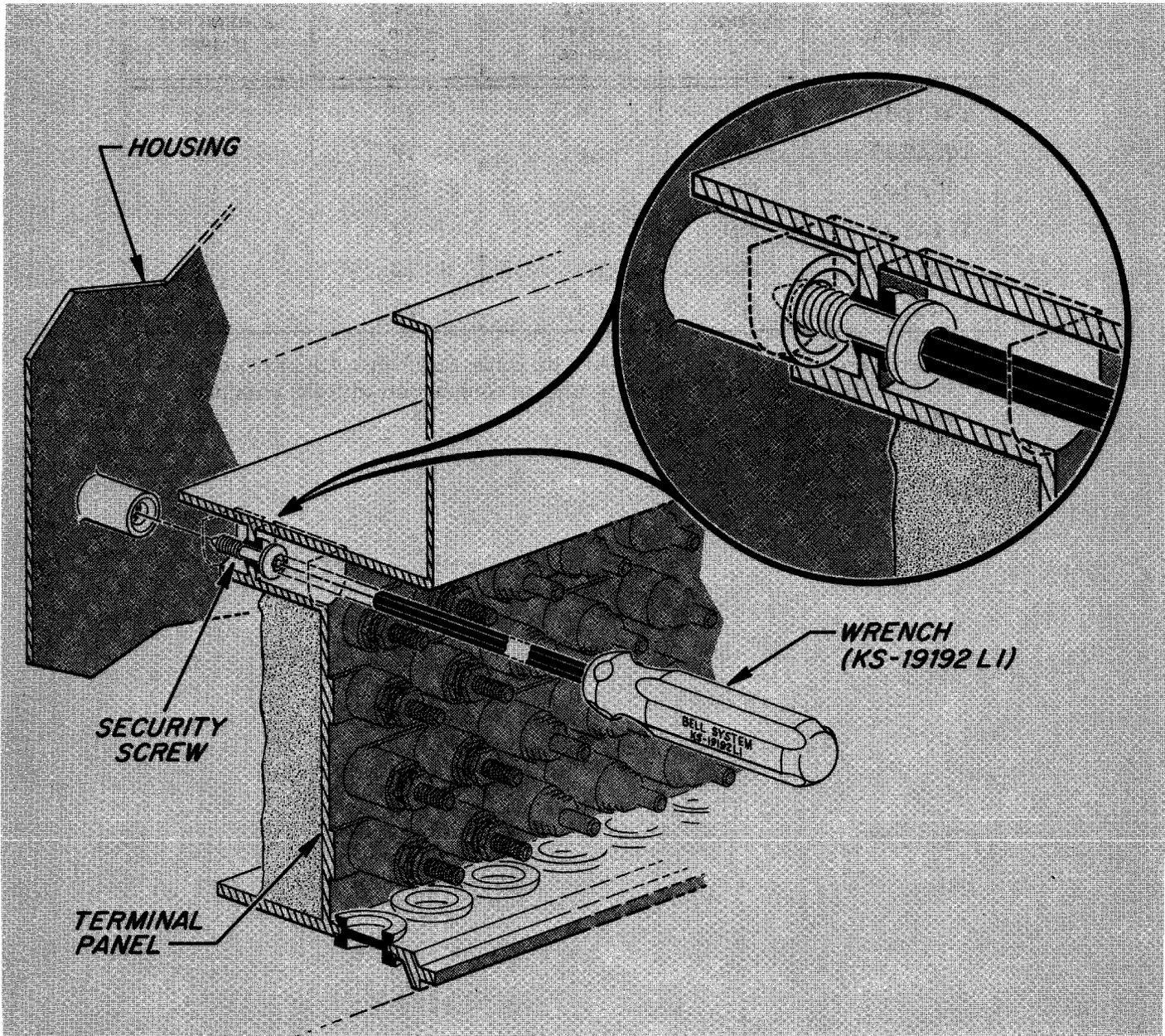


Fig. 4—Security Screw (104A2- and 105A2-Type Cable Terminals)

3 CABLE TERMINAL LOCATION

- 3.01 Figures 5 through 12 show the location of the 104- and 105-type cable terminals.
- 3.02 The 104- and 105-type cable terminals **SHALL NOT** be used at a junction splice

between paper insulated and PIC cables. It may be used at a minimum distance of 7 feet from this splice provided an air plug is made in the PIC cable between the terminal and the splice case as covered in Section 637-242-201.

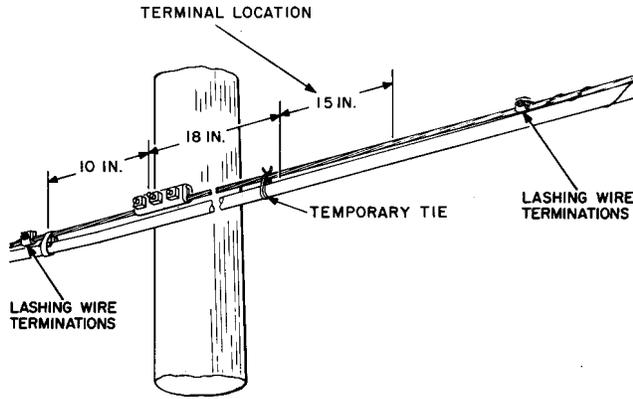


Fig. 5—Preferred Location at Right Side of Pole (Viewed from Cable Side)

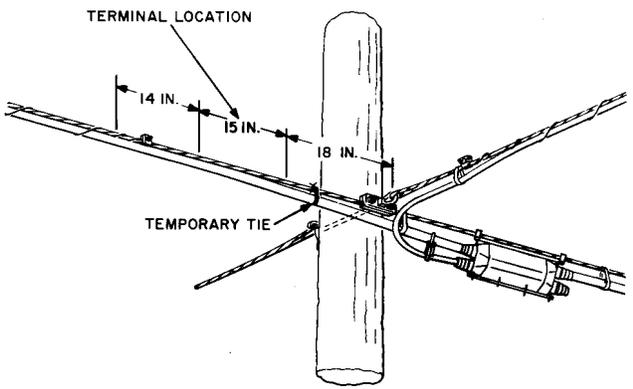


Fig. 6—Terminal Location at Left Side of Pole

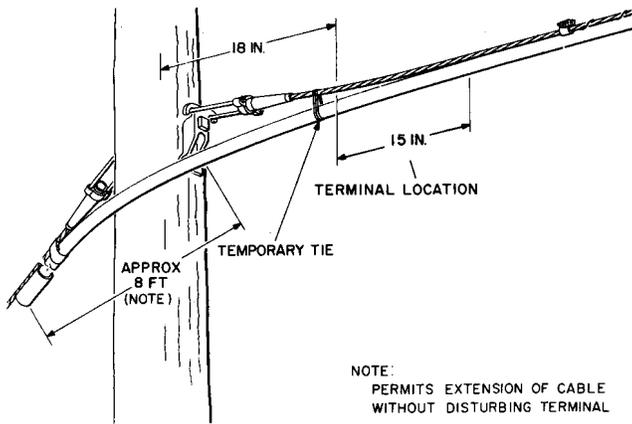


Fig. 7—Terminal Location at Dead-End Pole

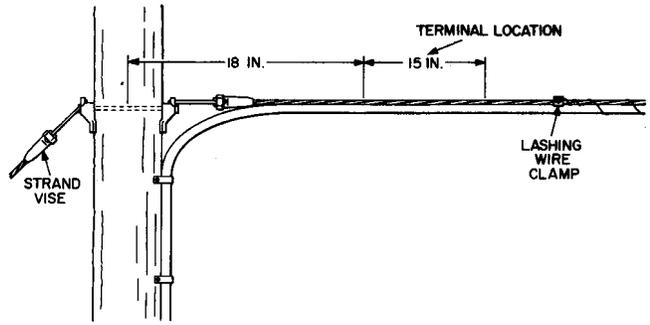


Fig. 9—Terminal Location at Junction of Aerial and Underground Cable

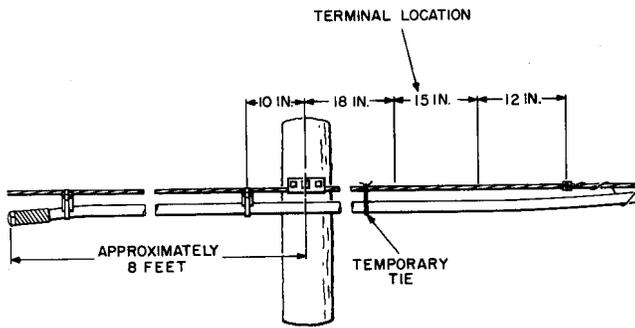


Fig. 8—Terminal Location at Cable Dead End

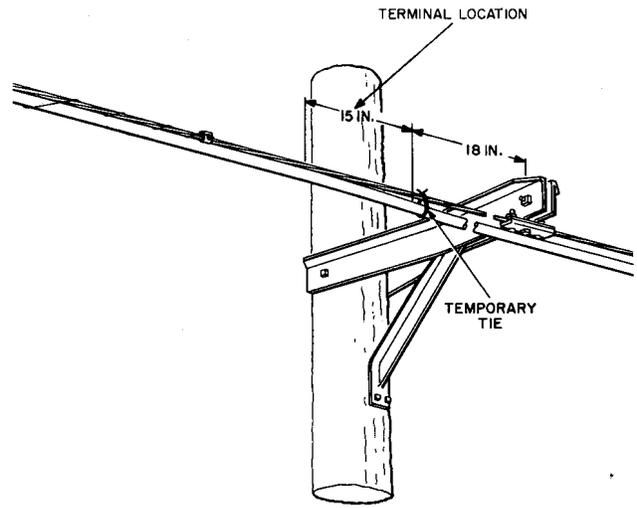


Fig. 10—Terminal Location at Extension Arm

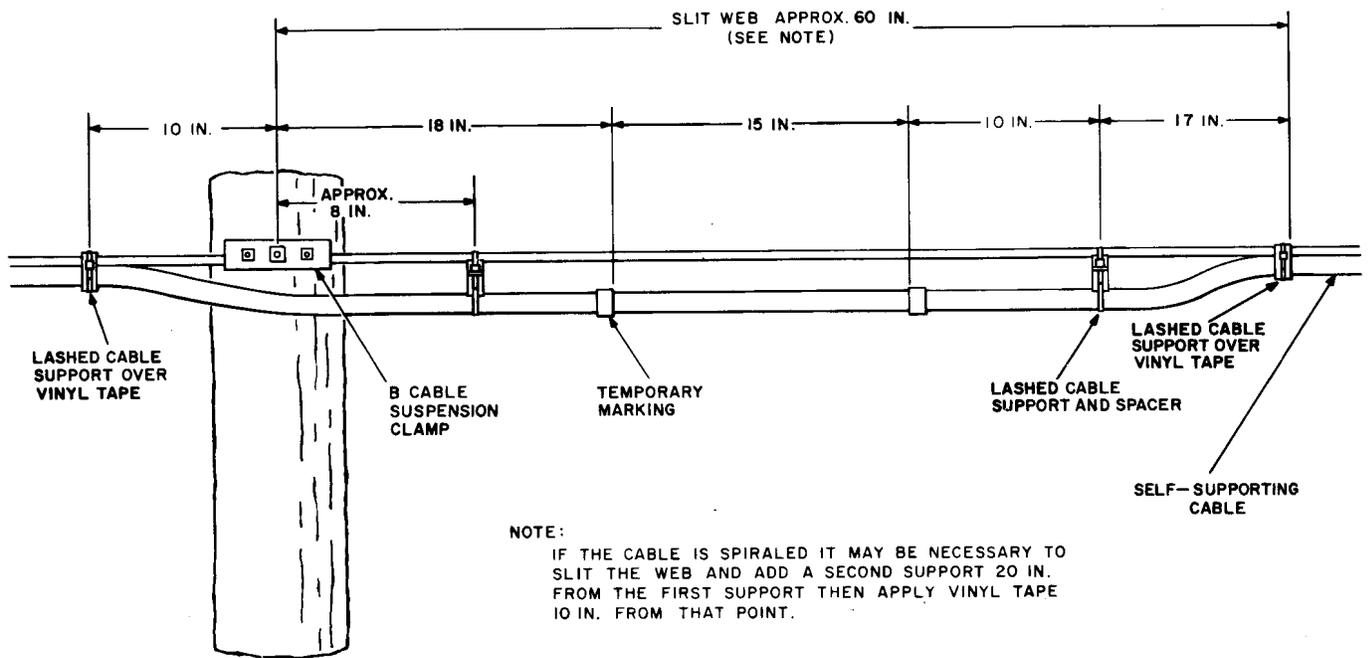


Fig. 11—Terminal Location on Self-Supporting Cable at Intermediate Pole

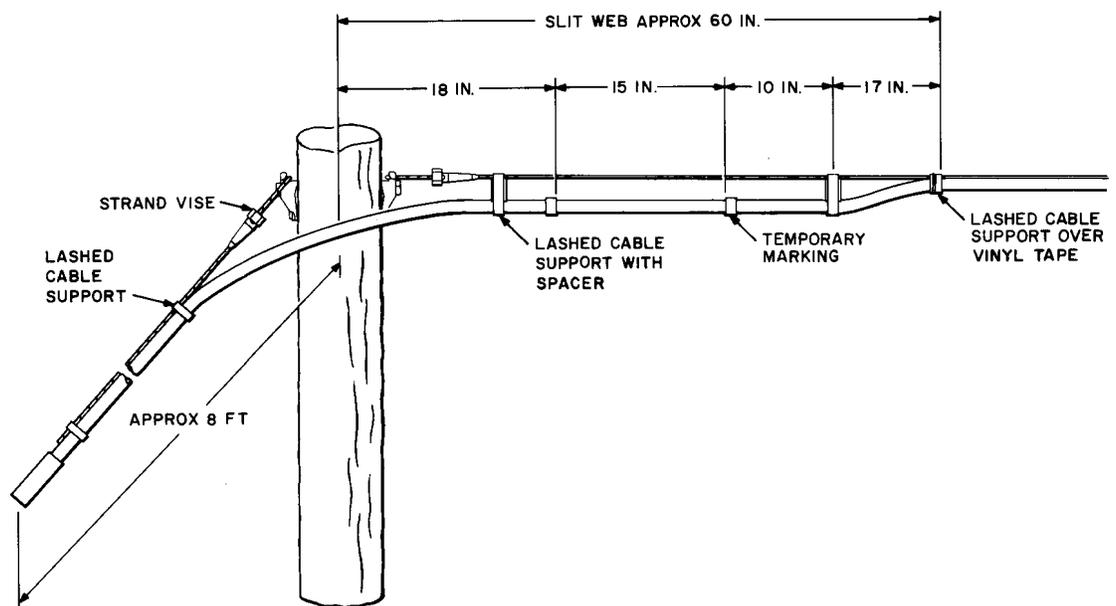


Fig. 12—Terminal Location on Self-Supporting Cable at Dead-End Pole

4. INSTALLING CABLE TERMINAL

4.01 Figures 13 through 17 illustrate the installation of the 104- and 105-type cable terminal.

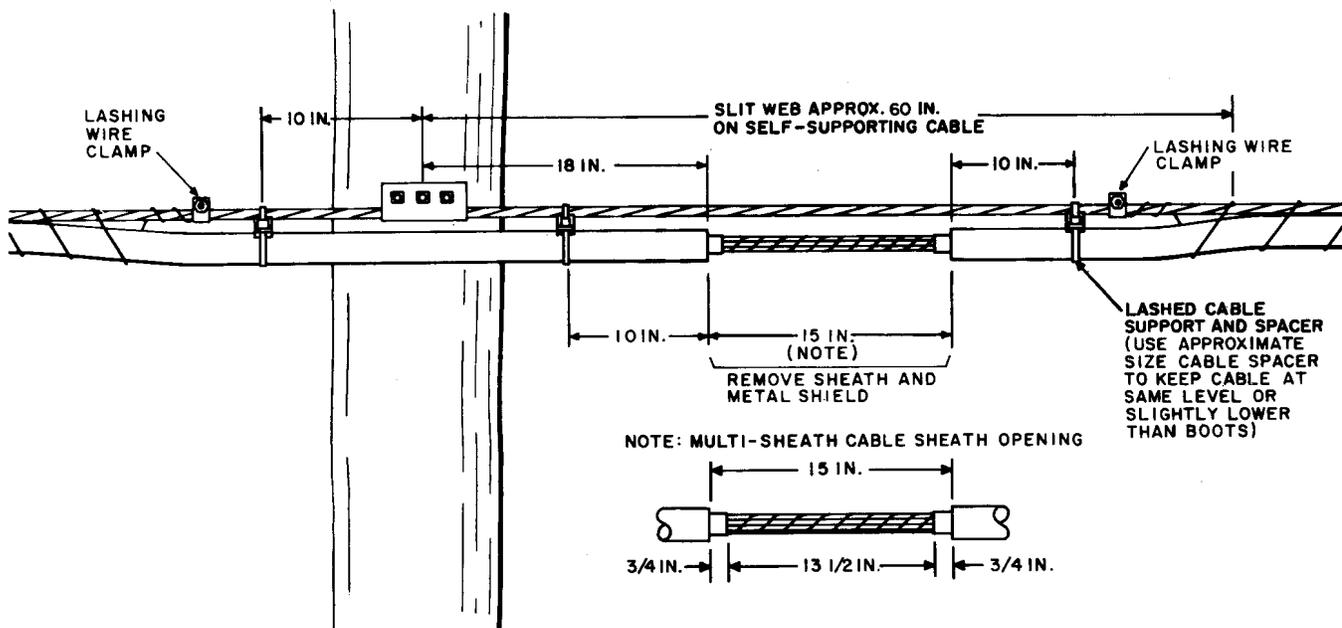
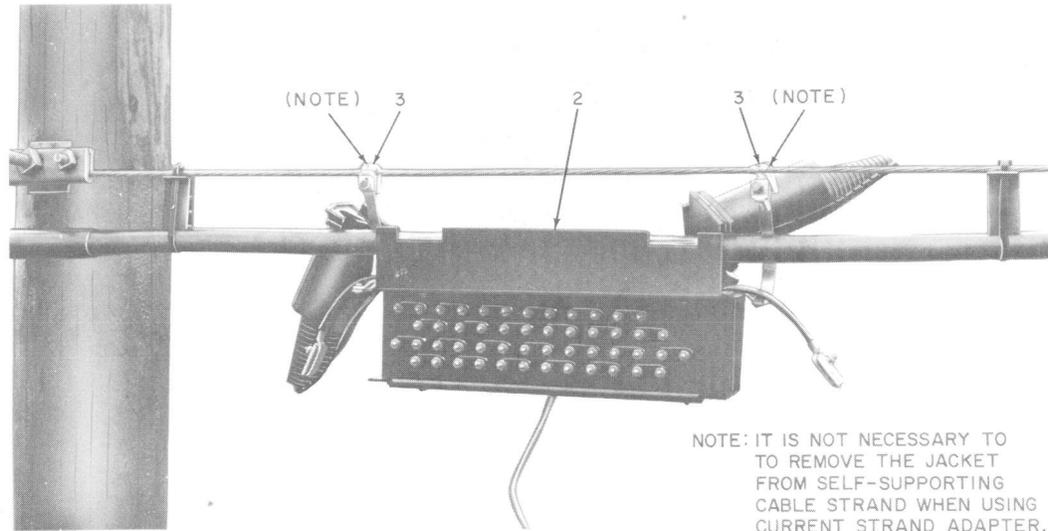
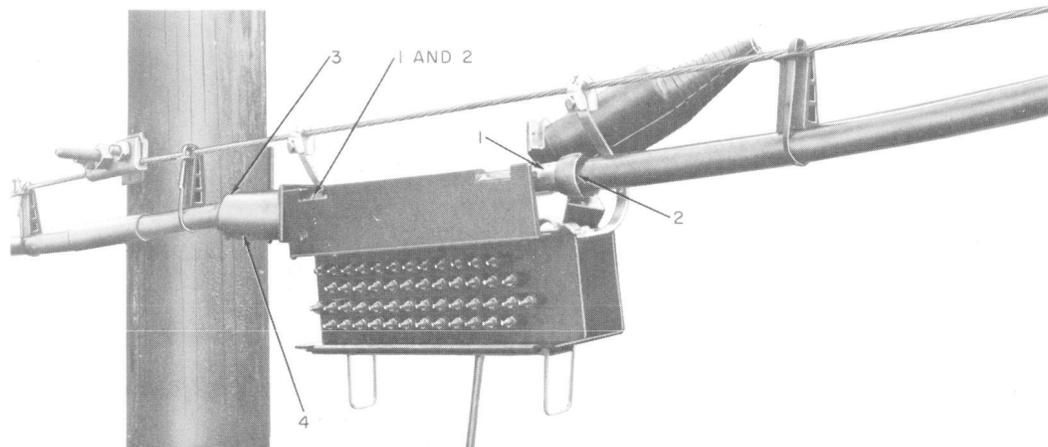


Fig. 13—Step 1—Preparing Cable



- 1—PULL ON FINGER TAB TO OPEN THE COVER. SEPARATE THE TERMINAL PANEL ASSEMBLY FROM THE HOUSING ASSEMBLY BY PRYING APART AT THE BOTTOM EDGE.
- 2—CENTER TERMINAL PANEL ASSEMBLY OVER SHEATH OPENING.
- 3—TORQUE STRAND ADAPTER BOLT TO 75 INCH-POUNDS. DO NOT EXCEED 100 INCH-POUNDS.

Fig. 14—Step 2—Installing Terminal Panel Assembly

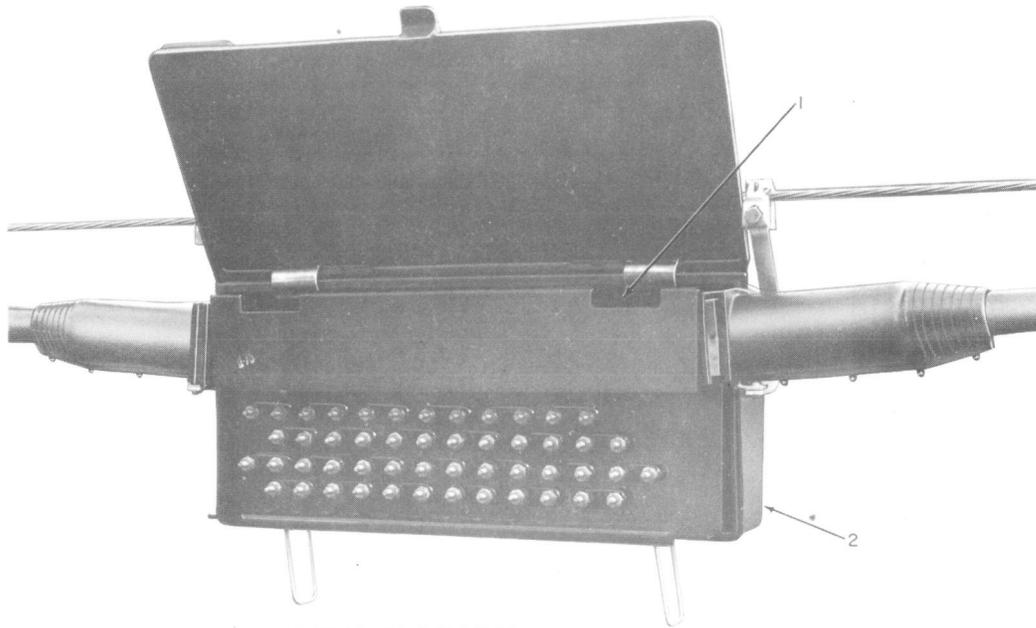


1. INSTALL BOND CLAMPS BY SLIDING INNER SHOE OF BOND CLAMP BETWEEN CORE WRAP AND METAL SHIELD UNTIL THREADED STUD HITS END OF SHEATH. (TO TIGHTEN, USE 216-TYPE TOOL ONLY)

NOTE:
ON CABLES LESS THAN 0.8-IN. IN DIAMETER, SLIT THE SHEATH APPROX. 2-IN. ON BACK SIDE TO ALLOW CLAMP TO SLIDE IN ON FRONT SIDE. WRAP CLAMP AND SLIT AREA WITH VINYL TAPE.

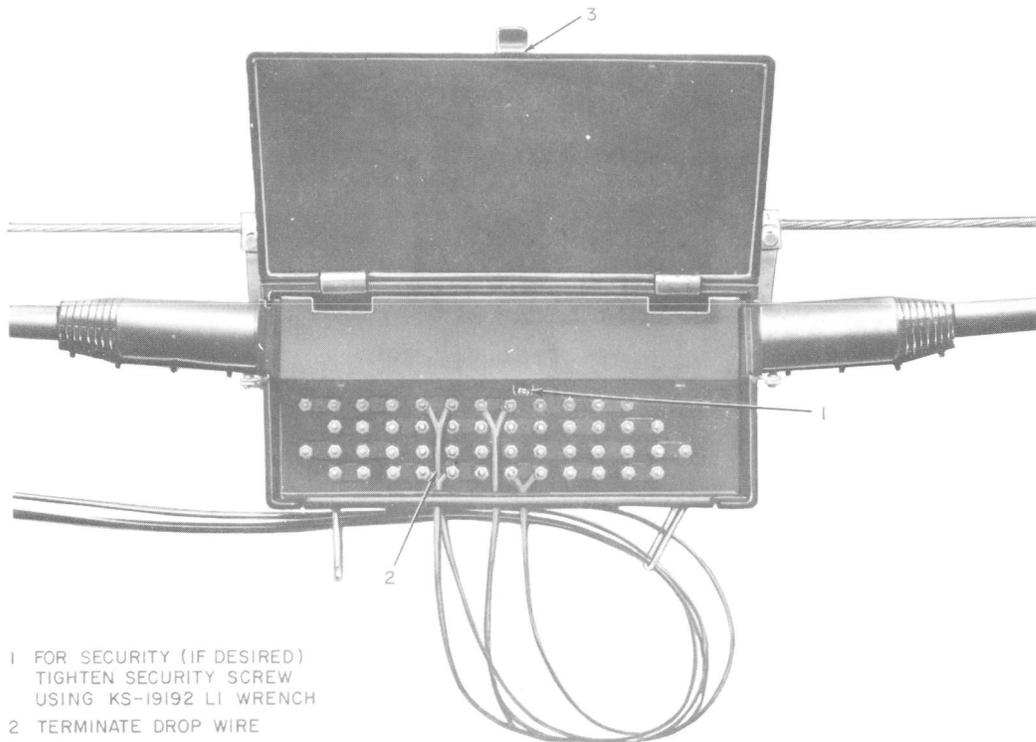
2. PLACE DRIP COLLARS:
(1) SCUFF SHEATH IN AREA WHERE DRIP COLLAR IS TO BE FORMED.
(2) PLACE 2 LAYERS OF B SEALING TAPE AROUND CABLE.
(3) WRAP B SEALING TAPE WITH 2 LAYERS OF VINYL TAPE.
3. CUT END OF BOOT TO MATCH CABLE DIAMETER AND PLACE BOOT OVER CABLE.
4. PLACE, TIGHTEN, AND TRIM CABLE TIES 3 ON FLAT, ONE ON TAPER (EACH BOOT).

Fig. 15—Step 3—Installing Bond Clamps and Drip Collars



1. PERFORM SPLICING OPERATION AS REQUIRED
NOTE:
WHEN USING THE 104-TYPE CABLE TERMINAL (PREFERRED COUNT),
BRING THE PREFERRED COUNT BINDER GROUP(S) AND TERMINAL STUB TO
THE FRONT SIDE OF THE TERMINAL PANEL PARTITION FOR SPLICING.
2. PLACE HOUSING ASSEMBLY (WHEN FULLY SEATED THERE IS AN AUDIBLE SNAP)

Fig. 16—Step 4—Installing Housing Assembly



- 1 FOR SECURITY (IF DESIRED)
TIGHTEN SECURITY SCREW
USING KS-19192 LI WRENCH
- 2 TERMINATE DROP WIRE
- 3 CLOSE COVER AND SECURE LATCH

Fig. 17—Step 5—Completed Installation