

N-TYPE CABLE TERMINALS

DESCRIPTION AND INSTALLATION

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1. GENERAL

1.01 This practice covers the description and installation of the N-type cable terminals with raised binding posts.

1.02 This practice is reissued to include information on:

- Ground screw on NCP-10 cable terminals
- Use of P-wire guard on stub cables
- Cable terminals equipped with binding post caps.

Revision arrows are used to denote significant changes.

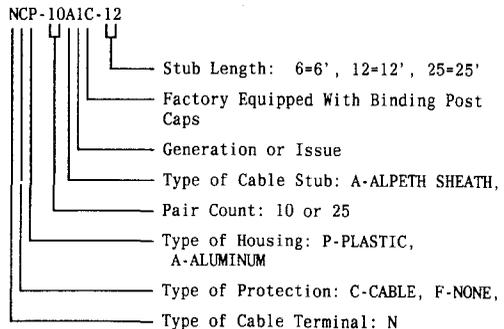
1.03 The N-type cable terminals with plastic housings are corrosion resistant. They are suitable for use at industrial and seacoast locations. The 10- and 16-pair terminals with die-cast aluminum housings should **not** be used in corrosive areas. The 25-pair terminals which have a formed aluminum housing **are** suitable for use in corrosive areas.

1.04 For additional information on N-type terminals and related material, refer to the following practices:

| PRACTICE | TITLE |
|-------------|---|
| 462-260-201 | Wiring at Aerial Cable Terminals |
| 462-450-100 | Drop and Block Wire—Wire Guard |
| 631-210-101 | N-Type and 53-Type Cable Terminals—Description and Installation |
| 632-600-200 | N-Type Cable Terminals—Strand Mounted—Splicing. |

2. DESCRIPTION

2.01 The N-type cable terminals are coded as follows:



2.02 The N-type cable terminals are shown in Fig. 1 through 7. Table A lists the features of these cable terminals.

2.03 The terminal blocks have raised binding posts. The binding posts are equipped with two washers and a top nut for the termination of drop or

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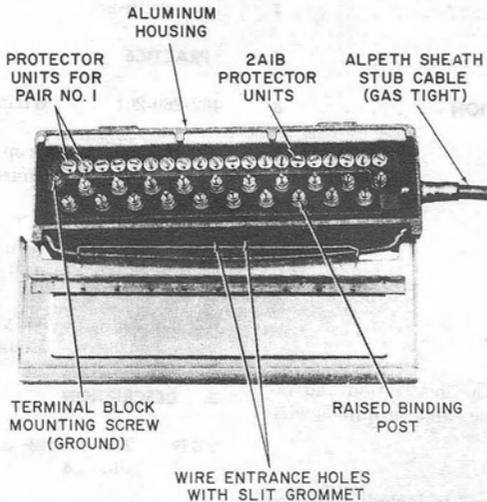


Fig. 1—NCA-10A1 Cable Terminal

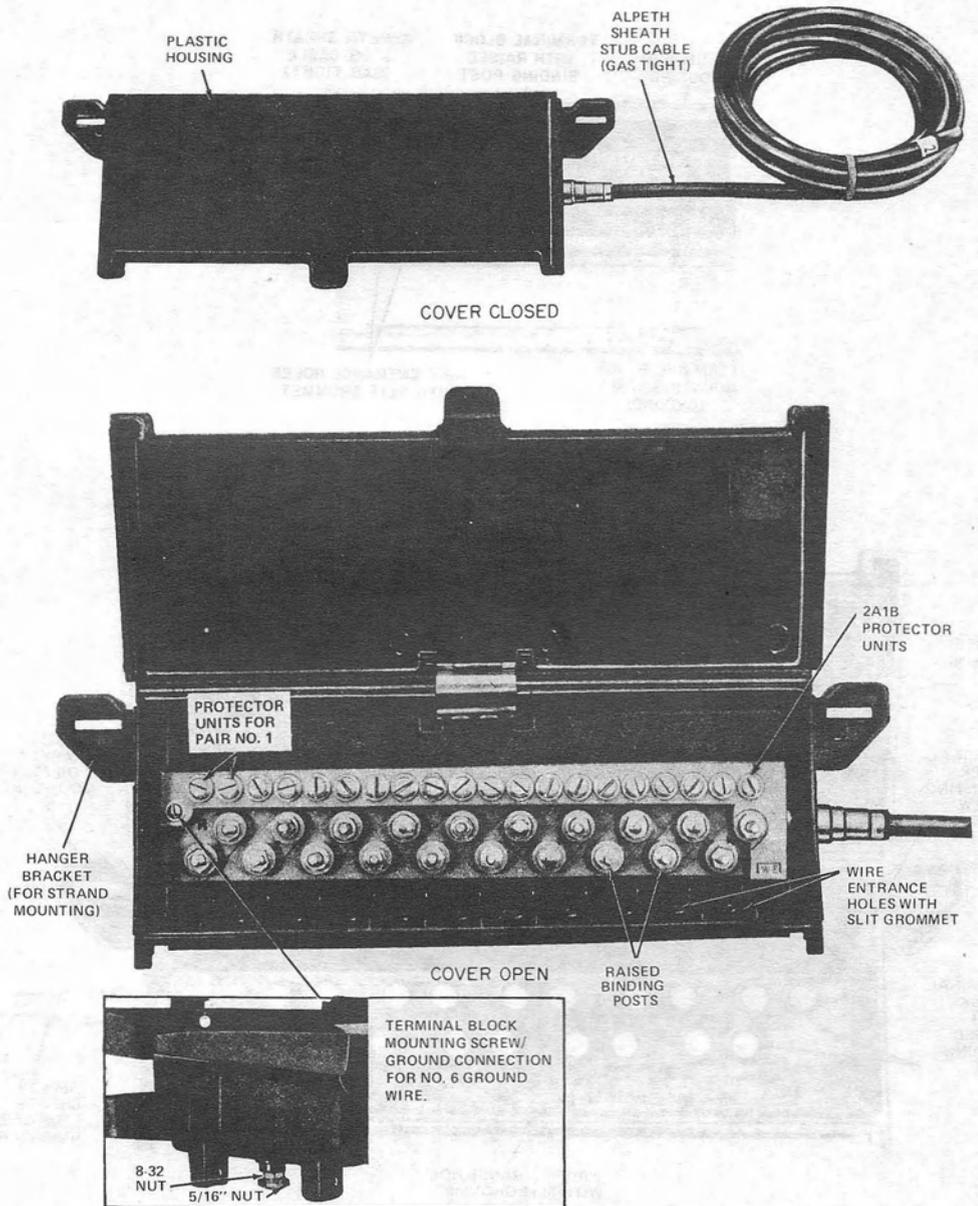


Fig. 2—NCP-10A1 Cable Terminal

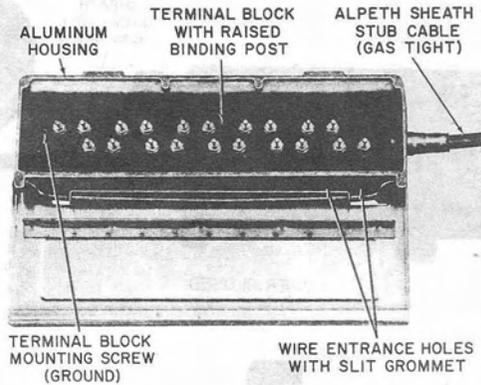


Fig. 3—NFA-10A1 Cable Terminal

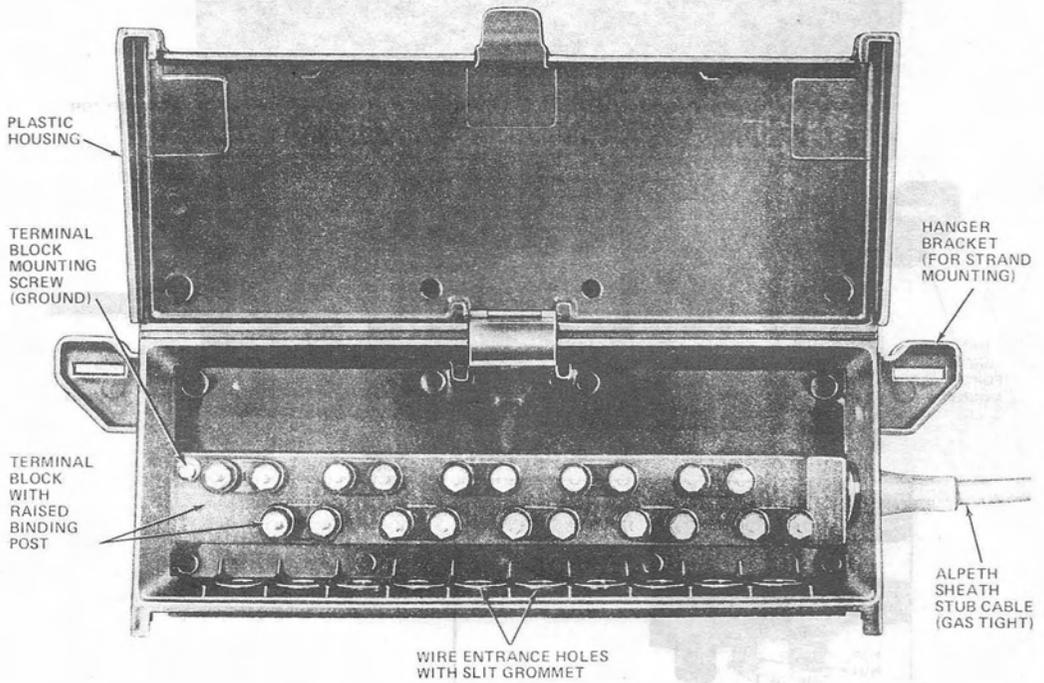


Fig. 4—NFP-10A1 Cable Terminal

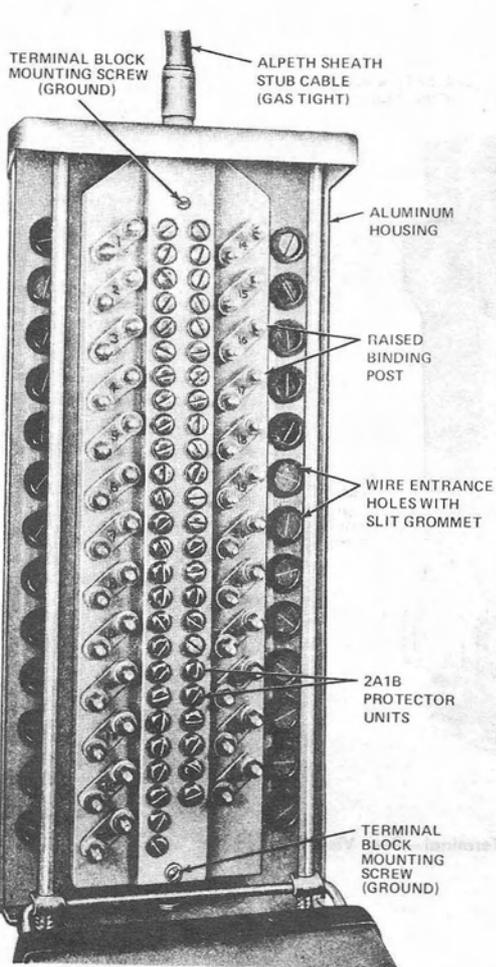


Fig. 5—NCA-25A1 Cable Terminal

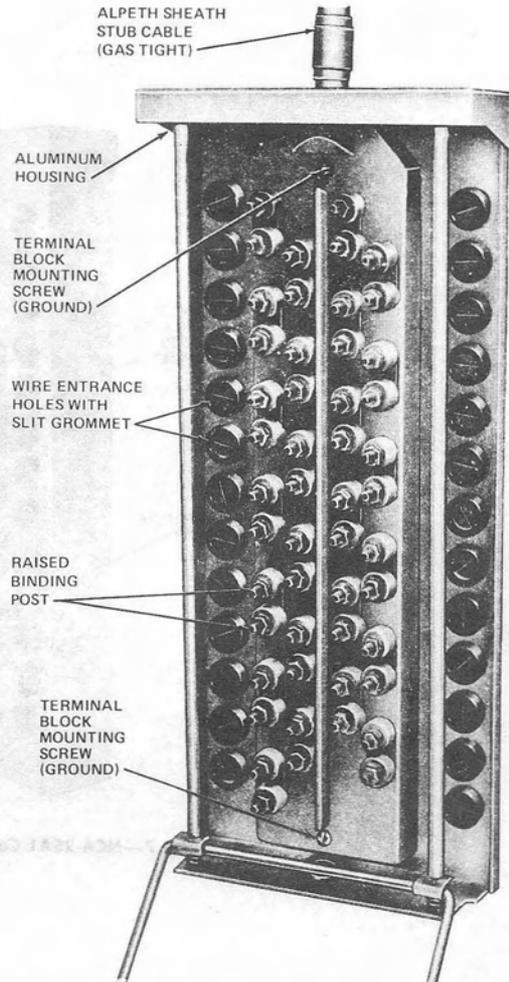


Fig. 6—NFA-25A1 Cable Terminal

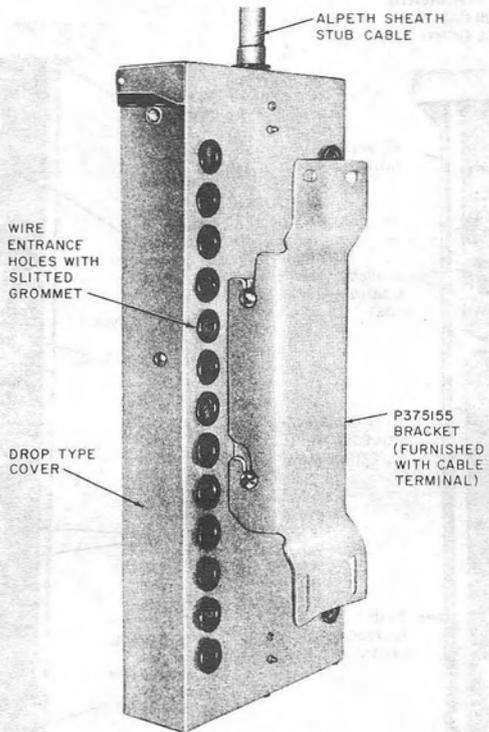


Fig. 7—NCA-25A1 Cable Terminal—Rear View

♦TABLE A♦

N-TYPE CABLE TERMINALS

| TERMINAL CODE | REPLACES | PAIR SIZE | STUB CABLE | STD STUB LENGTH (FEET) | HOUSING | CORROSION RESISTANT | TYPE PROTECTOR | MOUNTING | | |
|---------------|----------|-----------|------------|------------------------|----------|---------------------|----------------|----------|------|------|
| | | | | | | | | STRAND | POLE | WALL |
| NCA-10A1 | NC-10P | 10 | Alpeth | 6,12,25 | Aluminum | No | 2A1B | X | * | * |
| NCP-10A1 | — | 10 | Alpeth | 6,12,25 | Plastic | Yes | 2A1B | X | * | * |
| NCP-10A1C† | — | 10 | Alpeth | 12 | Plastic | Yes | 2A1B | X | * | * |
| NFA-10A1 | NF-10P | 10 | Alpeth | 6,12,25 | Aluminum | No | None | X | * | * |
| NFP-10A1 | — | 10 | Alpeth | 6,12,25 | Plastic | Yes | None | X | * | * |
| NFP-10A1C‡ | — | 10 | Alpeth | 12 | Plastic | Yes | None | X | * | * |
| NCA-25A1 | NC-25P | 25 | Alpeth | 12,25 | Aluminum | Yes | 2A1B | — | X | X |
| NCA-25A1C† | — | 25 | Alpeth | 25 | Aluminum | Yes | 2A1B | — | X | X |
| NFA-25A1 | NF-25P | 25 | Alpeth | 12,25 | Aluminum | Yes | None | — | X | X |
| NFA-25A1C† | — | 26 | Alpeth | 25 | Aluminum | Yes | None | — | X | X |

* These terminals may be adapted for mounting on poles or walls using a 45A bracket.

† These terminals are factory equipped with black C binding post caps.

‡ These terminals are factory equipped with black C binding post caps except on the RING binding post of pair No. 10 which is equipped with an H binding post cap.

block wires. The terminal blocks are cast resin and are gastight.

2.04 Binding post caps are available to reduce binding post corrosion. As indicated in Table A, black binding post caps (Fig. 8) are factory equipped on the NCP-10A1C-12, NCA-25A1C-25, and NFA-25A1C-25 cable terminals. The NFP-10A1C-12 cable terminal is factory equipped with C binding post caps except on the RING binding post of pair No. 10 which has an H binding post cap. Binding post caps are also available (ordered separately) for other N-type terminals. Use red caps when SSM (special safeguard measures) or SSP (special service protection) is required.

2.05 Figure 9 illustrates the 2A1B protector unit furnished with the cable protected versions of the terminals. The 2A1B protector unit provides cable protection.

2.06 Where mechanical protection is required for the stub cable of the N-type cable terminals, P-wire guard may be installed. Section 462-450-100 covers the installation of P-wire guard.

3. PLACING AND INSTALLATION

10-PAIR TERMINALS

3.01 When placing the 10-pair N-type cable terminals on a cable suspension strand, the stub should be to the right of the housing when viewed with the cover facing the technician.

3.02 When possible, the 10-pair terminals should be placed as shown in Fig. 10.

Note: The C lashed cable supports should not be used on cable larger than 2-1/2 inches in diameter or heavier than 8 pounds per foot (Section 627-340-101).

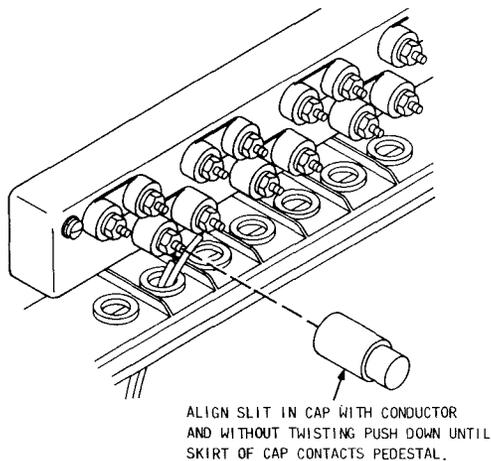


Fig. 8—C Binding Post Caps

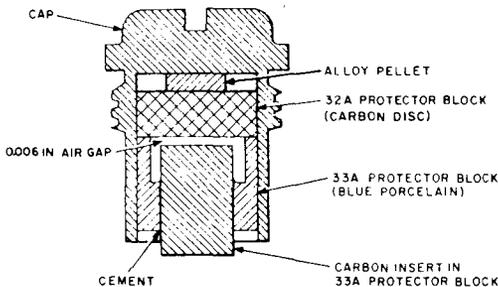


Fig. 9—2A1B Protector Unit

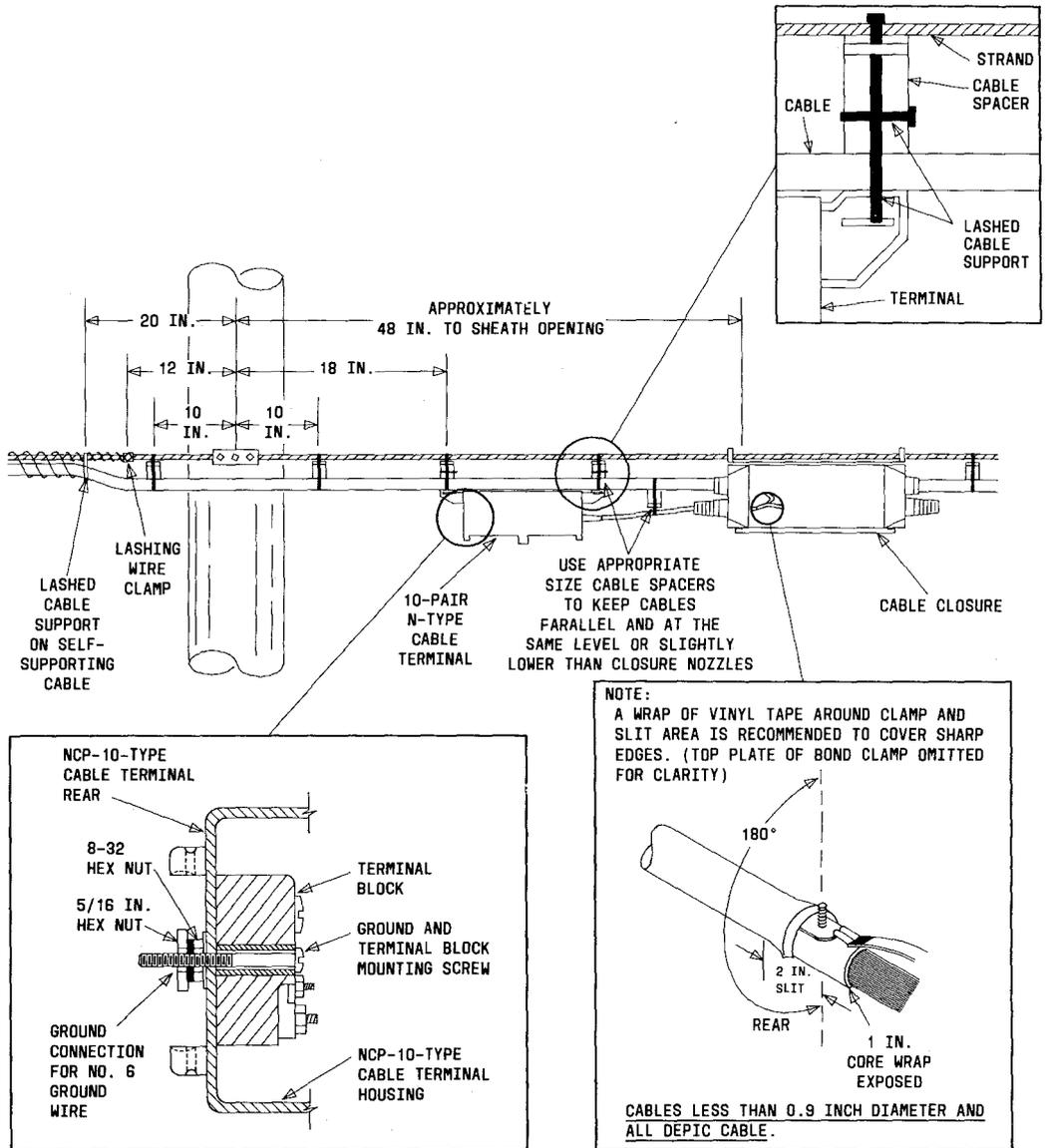


Fig. 10—Placing Strand-Mounted Cable Terminal

3.03 Where terminals are to be pole or wall mounted, a 45A mounting bracket (Fig. 11) is required and must be ordered separately. Place the mounting bracket on poles as shown in Fig. 12. Place the terminal as shown in Fig. 13. Figures 14 and 15

show wall mounting of the 45A bracket. Select anchoring hardware in accordance with Table B. Figures 16 through 19 show the placement of wall-mounted 10-pair terminals.

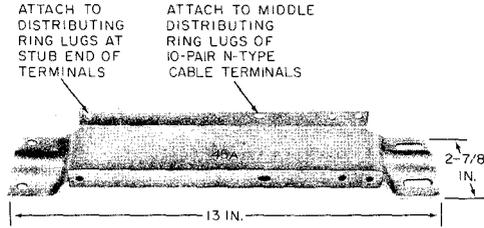
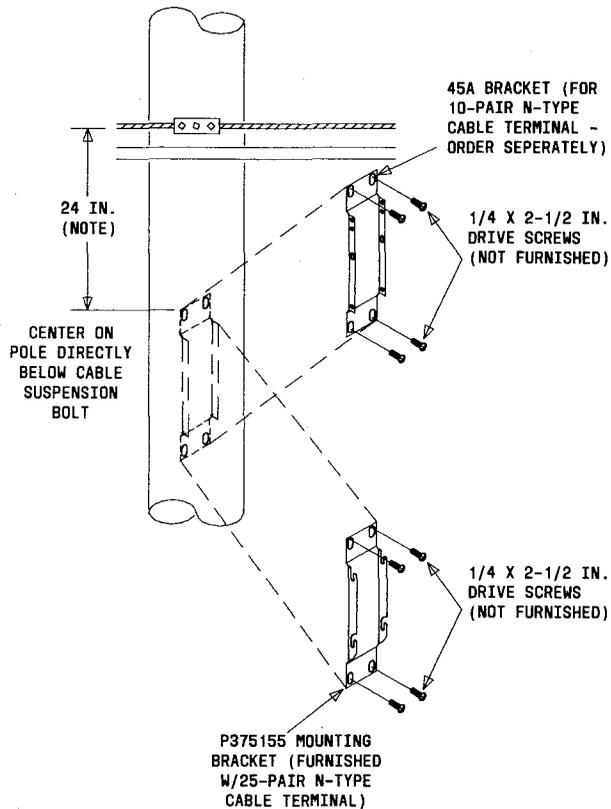


Fig. 11—45A Mounting Bracket



NOTE:
SEPARATION MAY BE VARIED BETWEEN 12 IN. AND 48 IN. WHEN
NECESSARY TO OBTAIN REQUIRED SEPARATION FROM ELECTRIC
COMPANY ATTACHMENTS.

Fig. 12—Locating Mounting Bracket

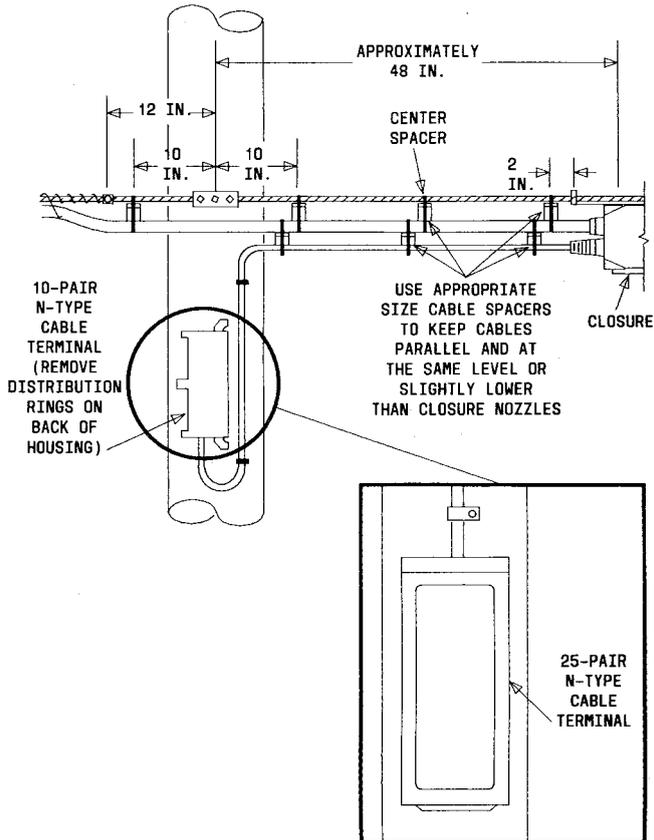


Fig. 13—Placing Pole-Mounted Cable Terminal

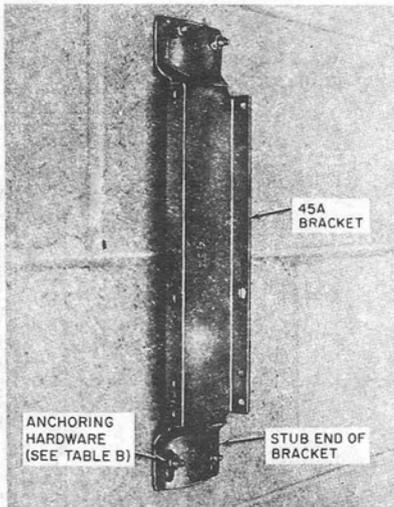


Fig. 14—45A Mounting Bracket Mounted Vertically on Wall

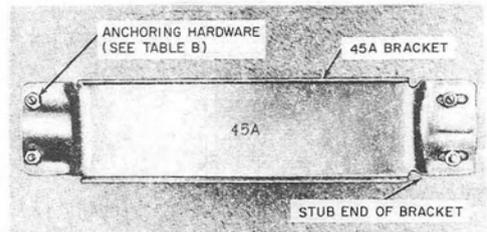


Fig. 15—45A Mounting Bracket Mounted Horizontally on Wall

TABLE B

ANCHORING DEVICES

| TYPE OF WALL | ANCHORING DEVICE TO BE USED | |
|--------------|---|---|
| | FOR MOUNTING BRACKET | TO SECURE STUB CABLE |
| Masonry | 4 — 1/4 in. x 1-1/4 in. Hammer Drive Anchors | No. 9 cable clamp with 1/4 in. x 1 in. hammer drive anchor. |
| Hollow Tile | 4 — 1/4 in. x 4 in. Toggle Bolts | Two strands of lashing wire or 049 steel construction wire anchored by means of 1-1/2 in. No. 8 RH galvanized wood screw used as a toggle or 1/8 in. x 4 in. toggle bolt. |
| Wood | 4 — 1-1/2 in. No. 14 RH Galvanized Wood Screws | No. 9 cable clamp with 1 in. No. 14 RH galvanized wood screw. 1-1/2 in. strap nails may be used if mounting surface is substantial. |

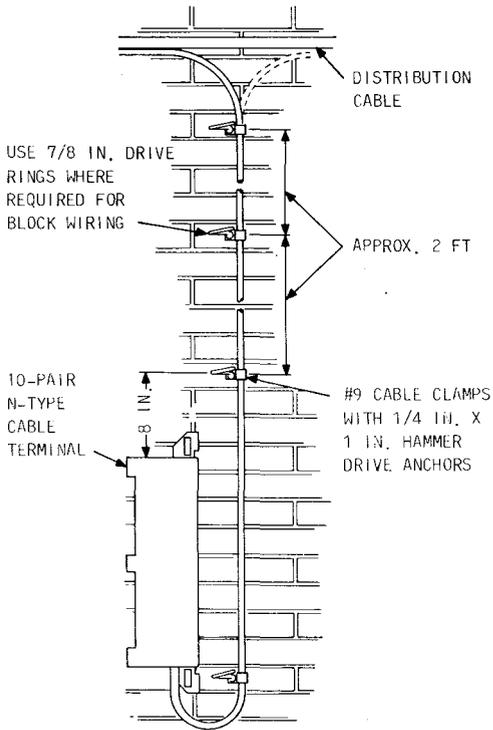


Fig. 16—Vertical-Mounted Terminal Below a Horizontal Cable Run

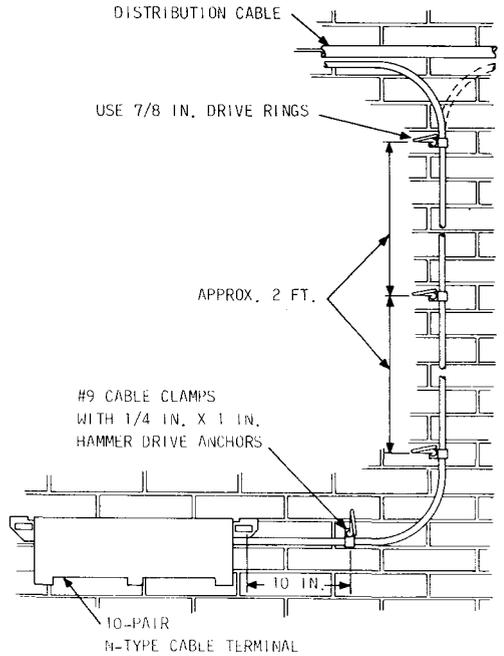


Fig. 17—Horizontal-Mounted Terminal Below a Horizontal Cable Run

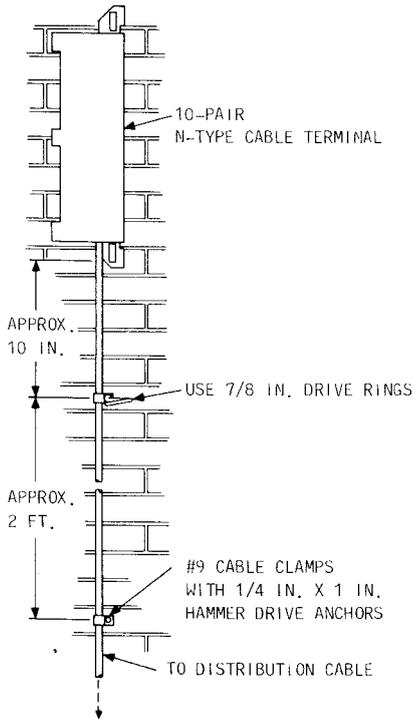


Fig. 18—Vertical-Mounted Terminal Above a Horizontal Cable Run

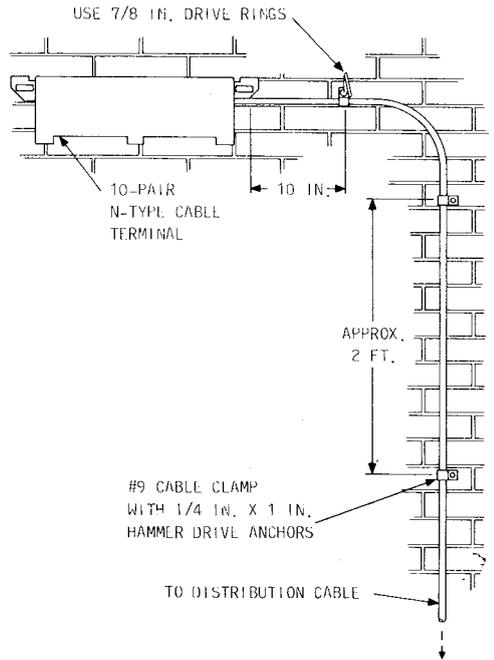


Fig. 19—Horizontal-Mounted Terminal Above a Horizontal Cable Run

25-PAIR TERMINALS

3.04 The 25-pair N-type cable terminals are designed for vertical mounting on poles or walls. A P-375155 mounting bracket is supplied with each terminal.

3.05 Attach the mounting bracket to the pole as indicated in Fig. 12. Figure 20 shows the mounting bracket attached to a wall using the anchoring hardware listed in Table B.

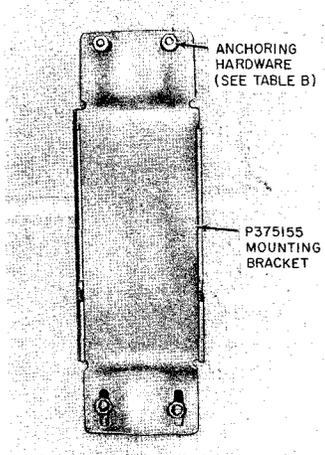


Fig. 20—P-375155 Mounting Bracket Secured to Wall

3.06 Place the terminal on poles as shown in Fig. 13. Figures 21 and 22 show the placement of wall-mounted 25-pair terminals.

3.07 For information on running drop and block wire, see Section 462-260-201.

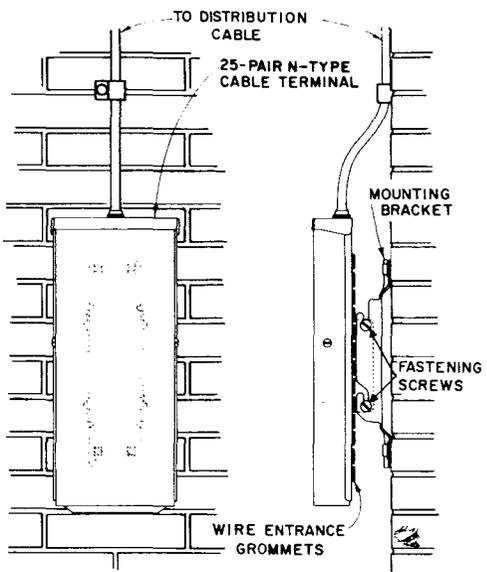


Fig. 21—Installing Terminal on Mounting Bracket

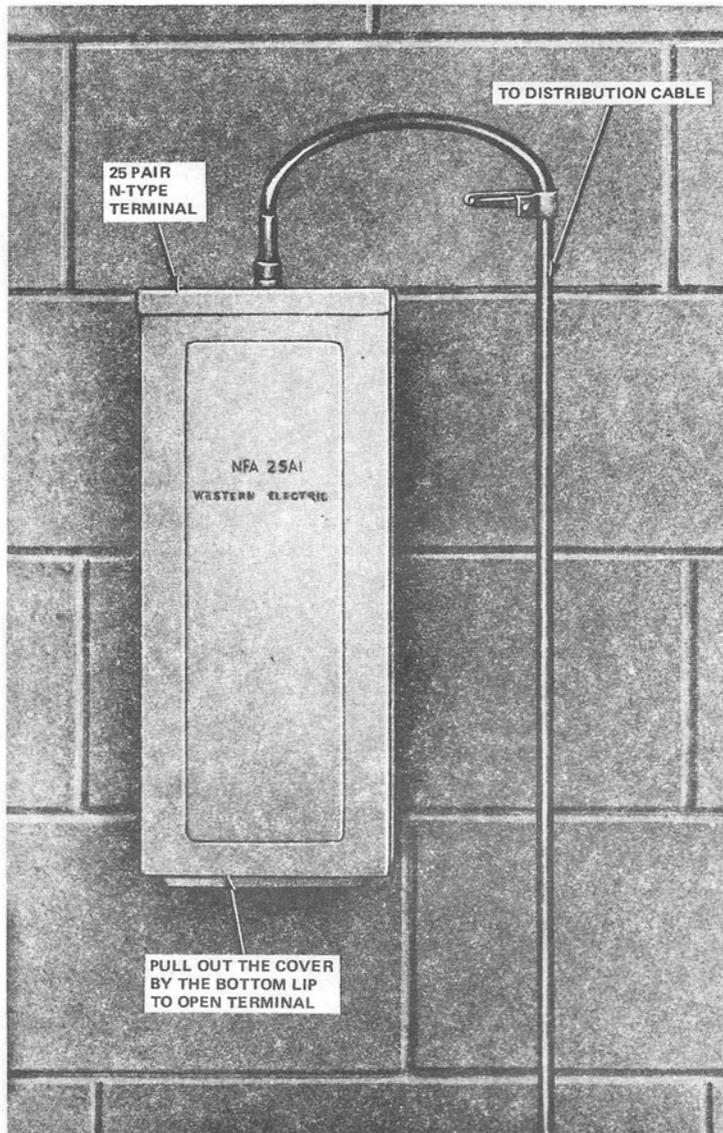


Fig. 22—Terminal Arranged for Splicing to Buried Cable