RC4/72 CABLE CLOSURE

DESCRIPTION AND INSTALLATION

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1. GENERAL

1.01 This section covers the description and installation of the RC4/72 cable closure. This closure is used to:

- Provide fixed count or preferred count access facilities for terminating buried service wires.
- Enclose aboveground splices in small buried PIC cables.

1.02 Whenever this section is reissued the reason for reissue will be listed in this paragraph.

1.03 The splicing capacity of the cable closure is listed in Table A. Maximum cable diameter is 1 inch.

TABLE A

MAXIMUM SPLICE OR LOOP CAPACITY OF RC4/72 CABLE CLOSURES

GAUGE	CAPACITY PAIRS
26	100
24	100
22	50
19	25

1.04 The procedure for preparation and termination of service wire in these closures is outlined in Section 462-260-202.

1.05 The cable closures shall be located where they are protected from damage by motor vehicles and other machinery. They should also be located at least 1 foot from metallic fences or similar lightning attractors.

2. DESCRIPTION

2.01 The RC4/72 cable closure is illustrated in Fig. 1. It can be mounted either free standing or on the base of a pole or wall.

2.02 The exposed metal parts of these closures are galvanized and have a gray-green baked enamel finish. The brackets are galvanized steel.

2.03 An F warning decal is placed on the exterior surface of the cap cover assembly.

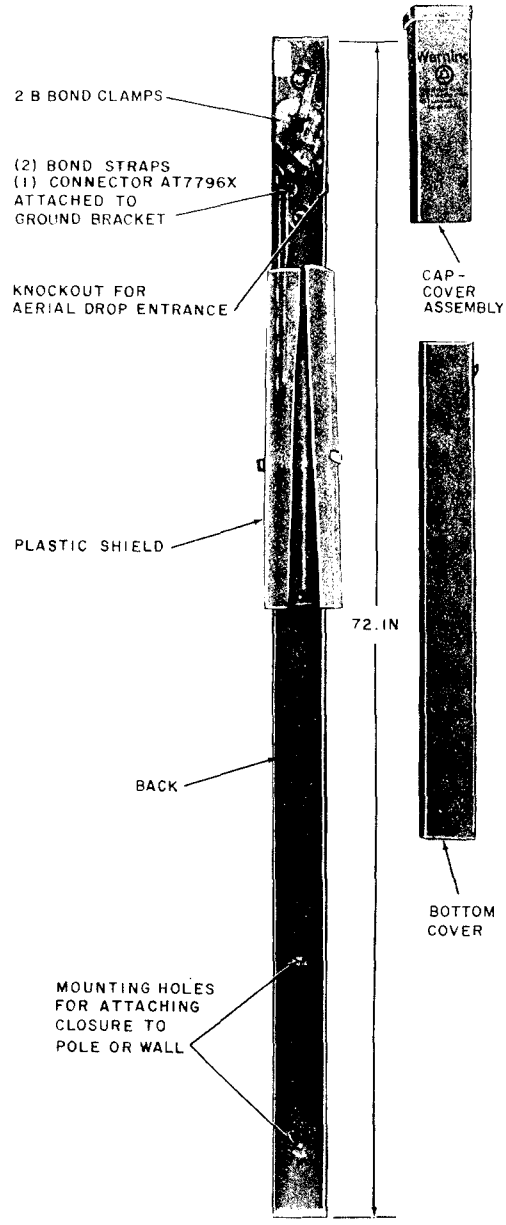


Fig. 1—RC4/72 Cable Closure

2.04 Parts associated with the cable closure that must be ordered separately as required are as follows.

(a) ***9A1-5 Terminal Block***(Fig. 2)—a 5-pair nonprotected terminal block equipped with a 4-foot plastic insulated 24-gauge stub cable.

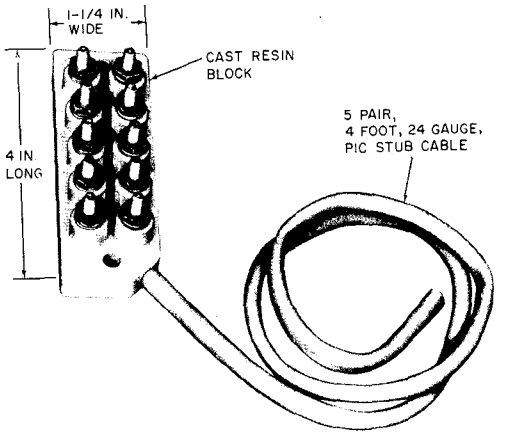


Fig. 2—9A1-5 Terminal Block

(b) ***9A1-10 Terminal Block***(Fig. 3)—a 10-pair nonprotected terminal block equipped with a 4-foot plastic insulated 24-gauge stub cable.

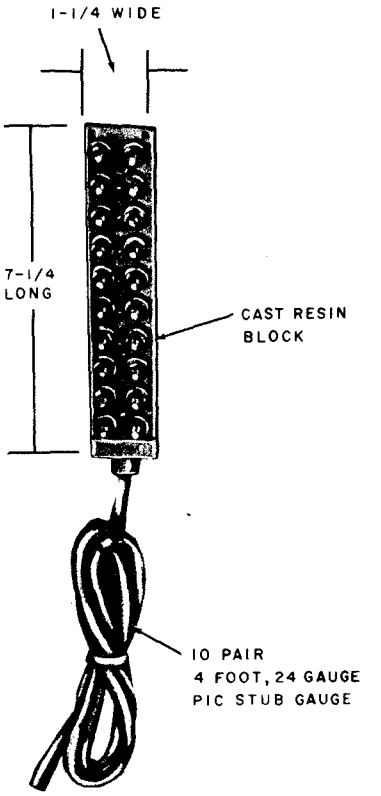


Fig. 3—9A1-10 Terminal Block

(c) ***6A3A-3 Terminal Block***(Fig. 4)—a 3 pair station protector for use when station protection is required. The block is equipped with six color-coded 24-gauge leads (white-blue, white-orange, white-green), one to each binding post and 2A1A protector unit. An optional bracket is required for mounting terminal block in closure.

(d) ***6A4B-3 Terminal Block*** (Fig. 5)—a 3-pair cable protector for use when cable protection is required. The block is equipped with twelve color-coded 24-gauge leads two to each bindng post and 2A1B protector unit. An optional bracket is required for mounting terminal block in closure.

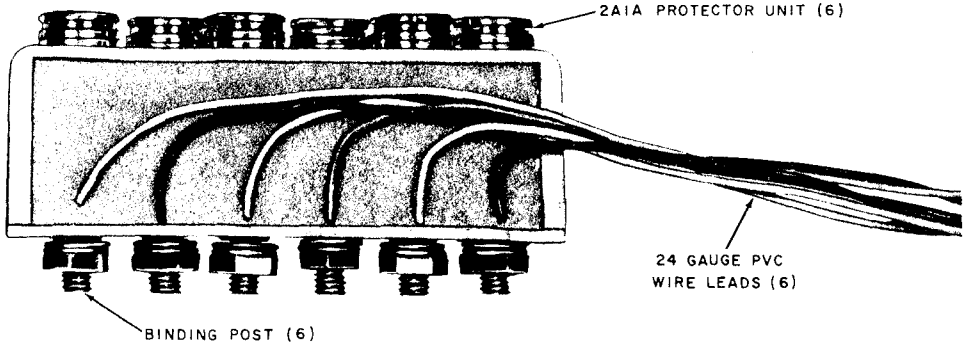


Fig. 4—6A3A-3 Terminal Block

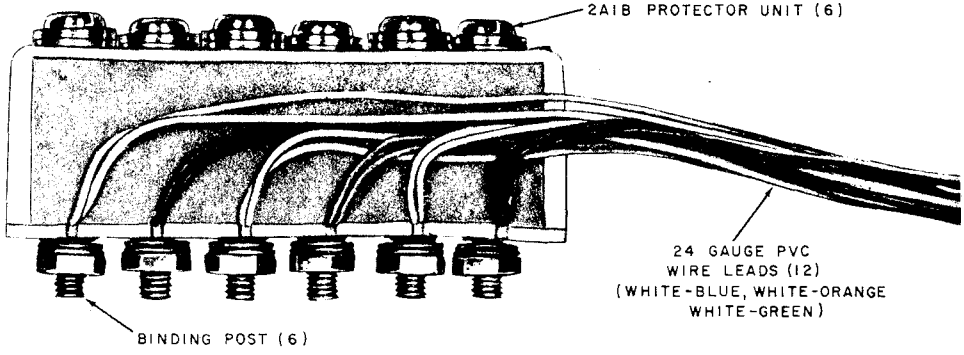


Fig. 5—6A4B-3 Terminal Block

(e) ***G Warning Decal*** (Fig. 6)—used in rural areas where high visibility is required. It is yellow plastic, 1-inch wide by 22-inches long (cut to required length). It is placed on the closure on the perimeter of the cap.

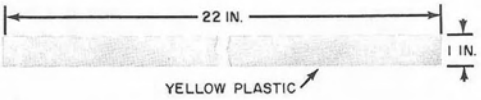


Fig. 6—G Warning Decal

3. CABLE PLACING

3.01 When possible the plowing or trenching of cable should be completed before closure is placed. A cable loop of 78 inches above final grade is required at each closure location (Fig. 7). This dimension is based on the top of the closure being 41 inches above final grade. If closure is placed at any other depth the measurement will have to be adjusted accordingly.

4. INSTALLATION

4.01 Place the closure into the ground until a maximum of 41 inches remain above the estimated final grade (Fig. 7).

> ***Note:*** Determine the depth of the buried cables then carefully place the post to assure cables are not damaged.

When a joint trench is provided for power and telephone cables, the closure should be placed a minimum of 6 inches off the trench line as outlined in Section 629-020-100.

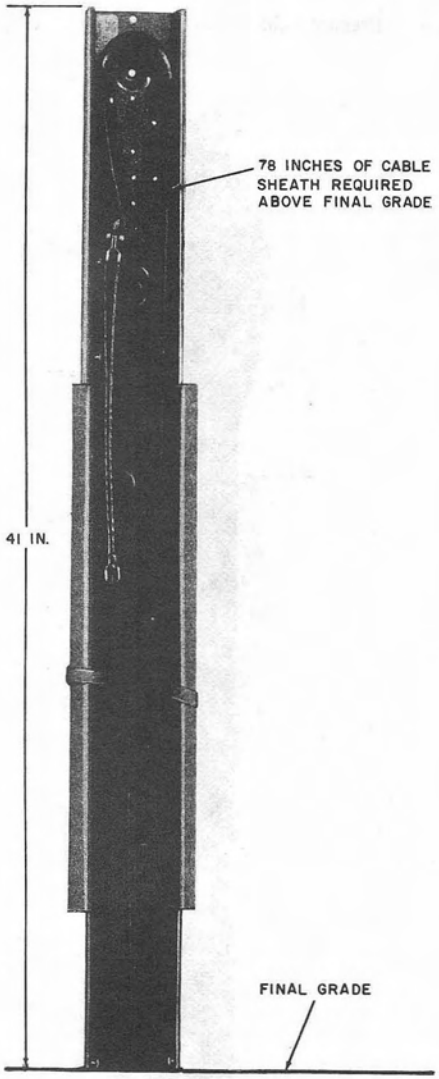
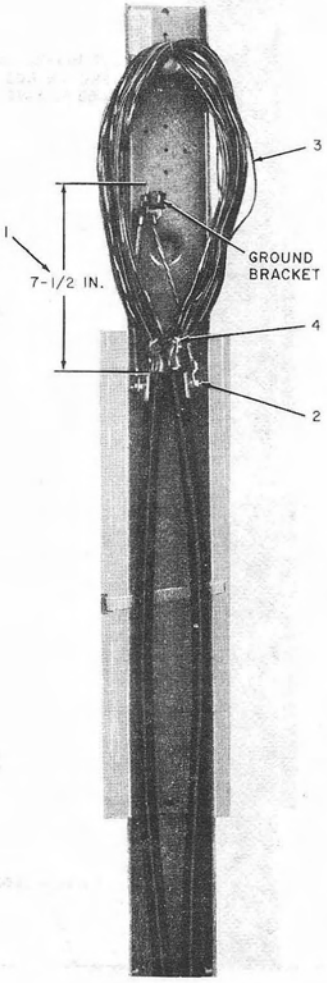


Fig. 7—Cable Loop Placed in Closure

5. CABLE SHEATH PREPARATION

5.01 Prepare cable sheath as shown in Step 1.



Step 1—Prepared Cable Sheath

1 Mark cable sheaths 7-1/2 inches from top of ground bracket, then remove cable sheath between marks.

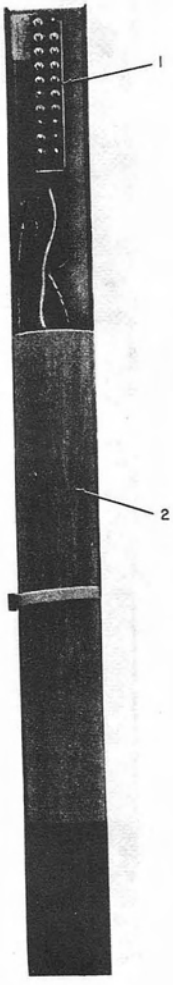
2 Install B bond clamps on cable sheaths as outlined in Section 081-852-118, then attach bond strap to stud of bond clamp.

3 Remove mylar core wrap.

4 Install binder group identification ties on each binder group, then remove binders.

6. FIXED COUNT

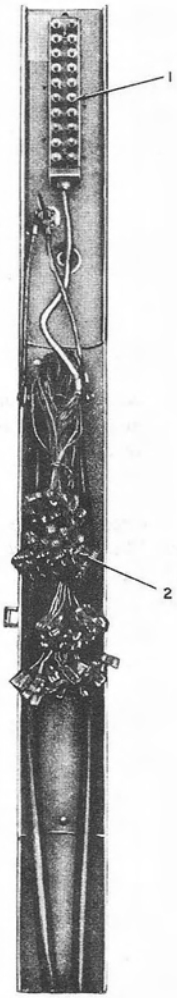
6.01 Procedures for preparing closure for fixed count are shown in Steps 2 or 3.



Step 2—Fixed Count at Loop Through Location

1 Install 9A1-type terminal block in closure and secure with nuts and screws provided with the terminal block.

2 Using 700-type connectors splice stub cable pairs of terminal block to assigned pairs of cable, then fold the splice down, wrap and secure with plastic shield.



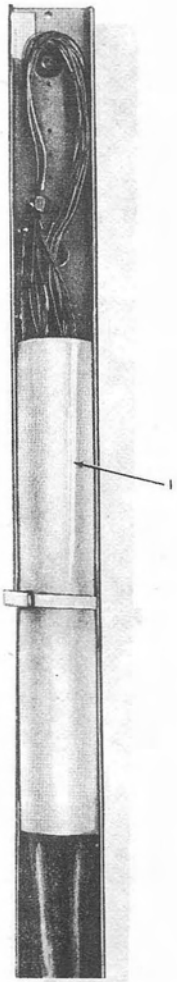
Step 3—Fixed Count at Splice Location

1 Install 9A1-type terminal block in closure and secure with nuts and screws provided with terminal blocks.

2 Using 700-type connectors splice stub cable pairs of terminal block to assigned pairs of cable. Stagger the 25 pair groups. Wrap splice with plastic shield and secure.

7. PREFERRED COUNT

7.01 Completed wire work for preferred count access is shown in Step 4.



Step 4—Completed Wire Work for Preferred Count

1 Wrap and secure plastic shield around cable.

8. SPLICING

8.01 Using 700-type connectors, splice the cables staggering the 25-pair groups as shown in Step 3. Table A lists maximum size cables that can be spliced.

8.02 Wrap splice with plastic shield and secure.

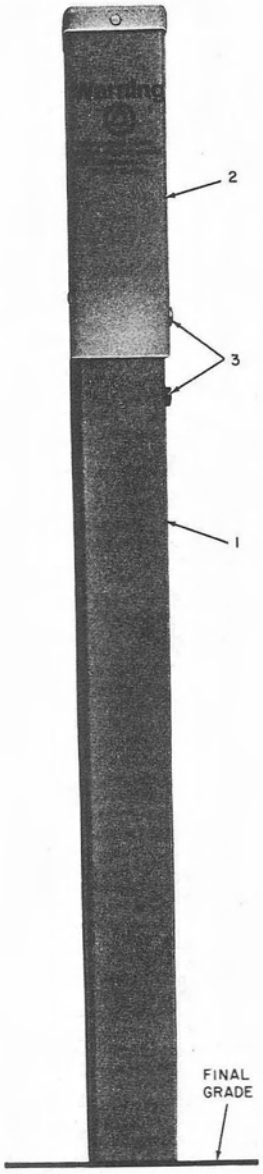
9. COMPLETED INSTALLATION

9.01 A completed installation is shown in Step 5.

1 Install bottom cover.

2 Install cap-cover assembly.

3 Using 216-type tool, secure covers.



Step 5—Completed Installation