

## 3A1 CLOSURE

### DESCRIPTION AND INSTALLATION

CONTENTS	PAGE
1. GENERAL . . . . .	1
2. DESCRIPTION . . . . .	1
3. PLACING . . . . .	2
4. PREPARATION OF SHEATH OPENING . . . . .	3
5. INSTALLATION OF CABLE, PROTECTORS, AND WIRES . . . . .	4

#### 1. GENERAL

**1.01** This section covers the description and installation of the 3A1 Closure in buried distribution systems.

**1.02** This section is revised to eliminate the requirement that the 3A1 Closure be installed only on fireproof walls.

**1.03** This closure can effectively contain any internal fire that might develop from fusing

24- or 26-gauge conductors. Therefore, the closure may be used to terminate 24- or 26-gauge PIC cables up to 1 inch in diameter on any exterior building wall.

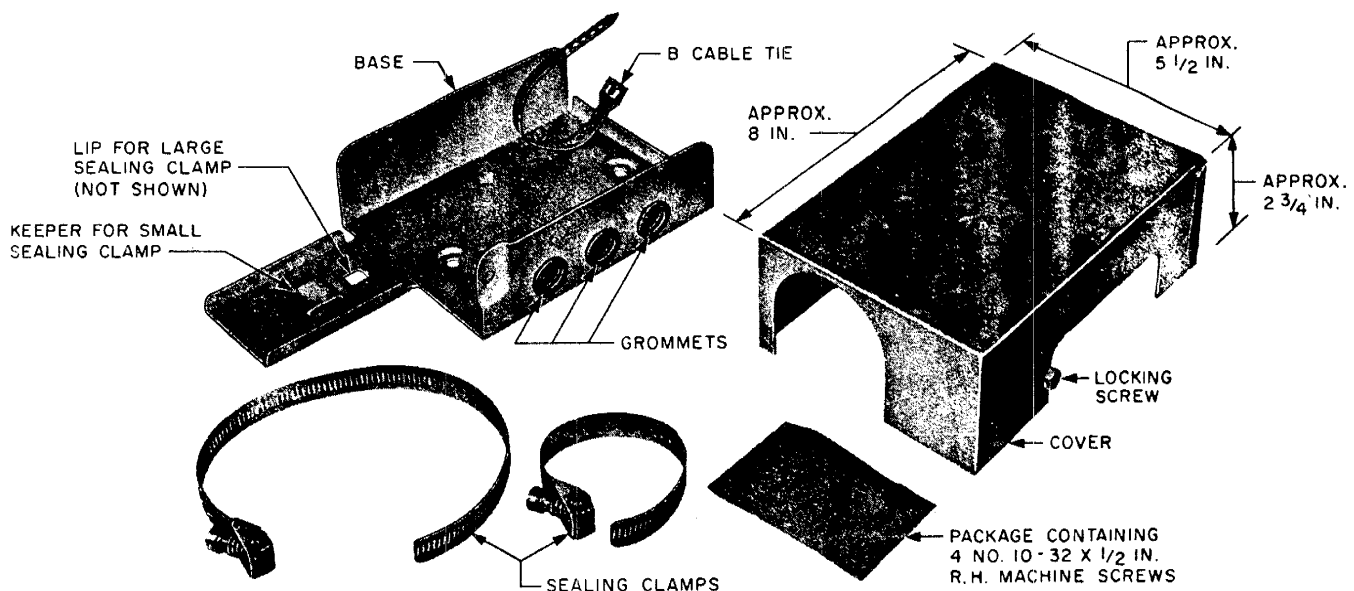
**1.04** *Do not store or leave any combustible material inside the closure.*

#### 2. DESCRIPTION

**2.01** The 3A1 Closure, illustrated in Fig. 1, consists of a base provided with a B Cable Tie, three grommets, and a cover. The cover has a locking screw for securing it to the base. Two sealing clamps and four No. 10-32 by 1/2-inch machine screws (packaged) are provided with each closure.

**2.02** Optional parts, which are not furnished with the closure and must be ordered separately as required, are as follows:

- (a) No. 2 U-Guard—For protecting the cable above ground level.
- (b) 123A1A Station Protector—One-pair station protector.



**Fig. 1—3A1 Closure and Furnished Parts**

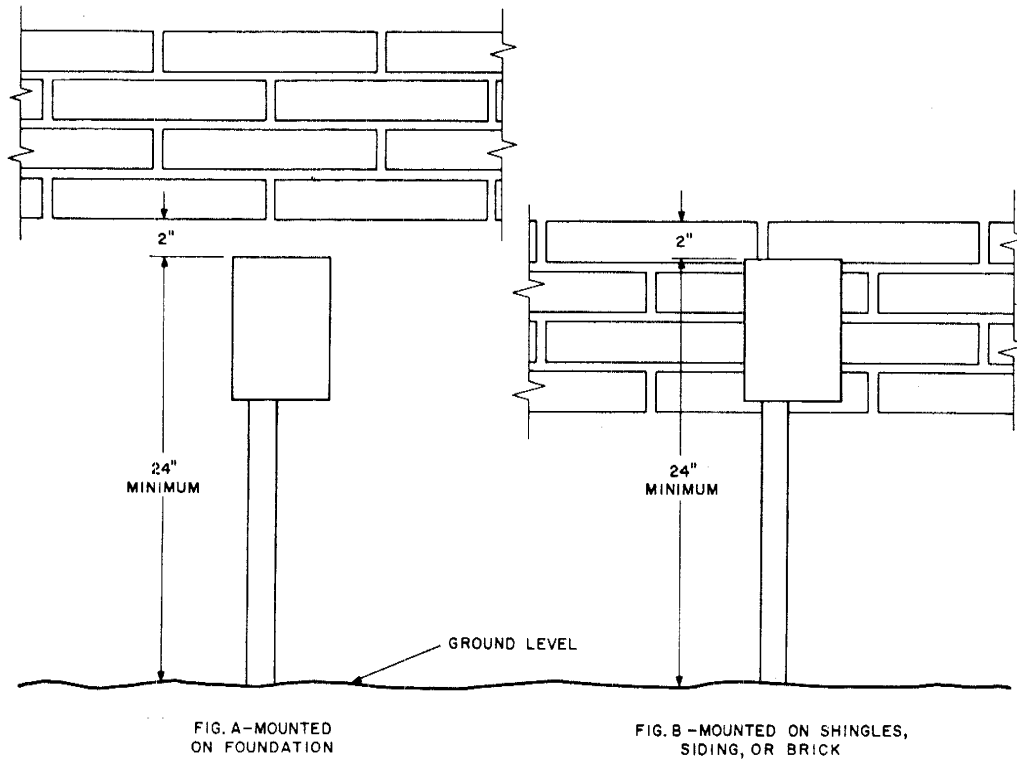
- (c) 128A1A Station Protector—Two-pair station protector.

### 3. PLACING

**3.01** The 3A1 Closure should be mounted as illustrated in Fig. 2. Note that the closure should be placed with the top a minimum of 24 inches above ground level.

**3.02** Attachments should be made as follows:

- (a) Shingles or Siding - Use 2-inch No. 14 rh galvanized wood screws. Drill a 1/8-inch lead hole to prevent splitting of shingles or siding.
- (b) Foundation or Brick - Use 1/4- by 1-inch hammer drive anchors or equivalent.



**Fig. 2—Mounting 3A1 Closure**

#### 4. PREPARATION OF SHEATH OPENING

4.01 Remove the cable sheath and prepare the tabs as follows:

- (a) Place the B Paper Tape Markers on the sheath as illustrated in Fig. 3. *These dimensions must be measured accurately. A good housekeeping job cannot be done if the sheath opening is too long or too short.*

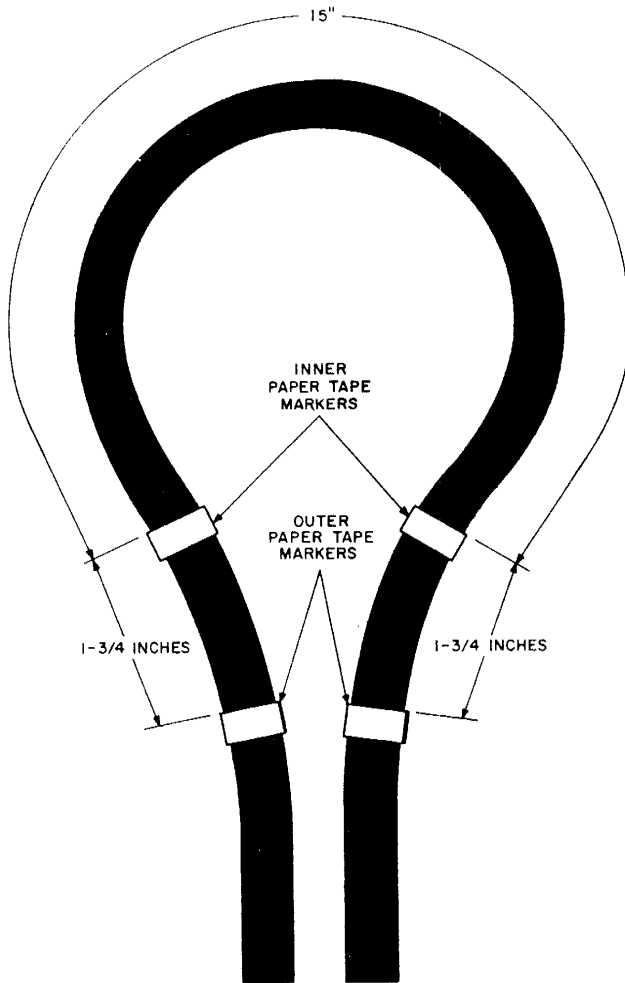


Fig. 3—Paper Tape Marker Installed

- (b) Remove the sheath between the inner tape markers. Remove the inner tape markers.

- (c) Prepare four tabs of approximately equal width by making longitudinal cuts through the polyethylene and metal layers to the edge of the outer tape markers, as illustrated in Fig. 4. *To avoid damage to the core, first tab the polyethylene and then tab the underlying metal layer.* Remove the outer tape markers. On the PAP sheath cable, tab only the aluminum and the outer polyethylene covering.

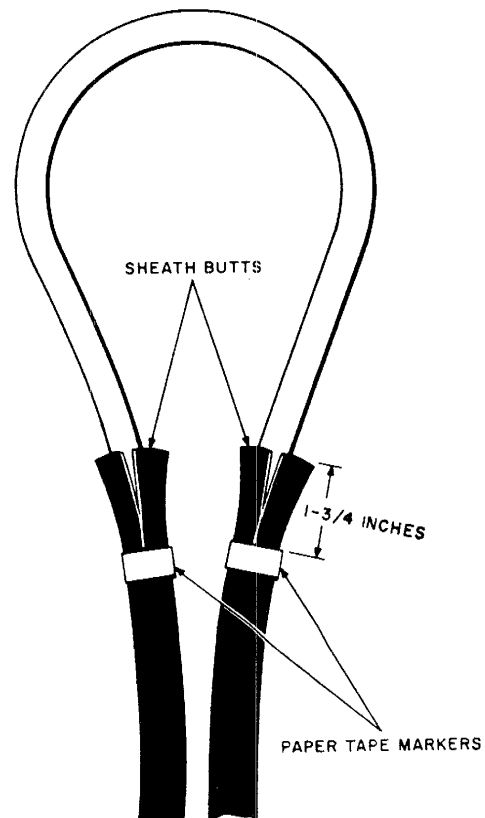
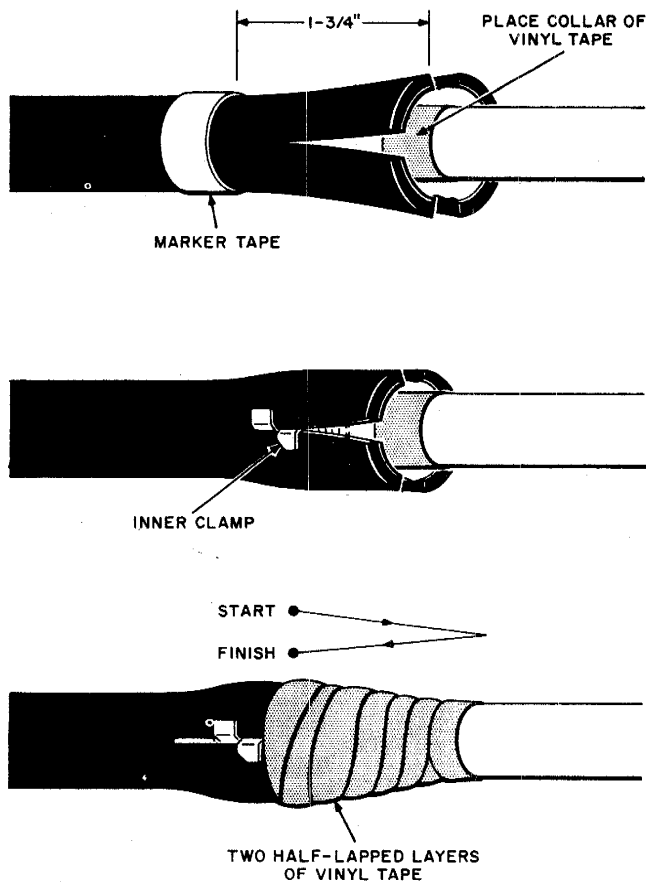


Fig. 4—Preparing Tabs

**4.02** Install a P-18E113 Inner Sheath Clamp on cables up to 0.6 inch in diameter and a P-18E115 Clamp on cables 0.7 through 1 inch in diameter as shown in Fig. 5. *Do not apply tape over the ears of the inner sheath clamp. Do not substitute bonding ribbon or B Bond Clips for inner sheath clamp. They do not provide adequate mechanical strength, protective grounding, or inductive noise shielding.*

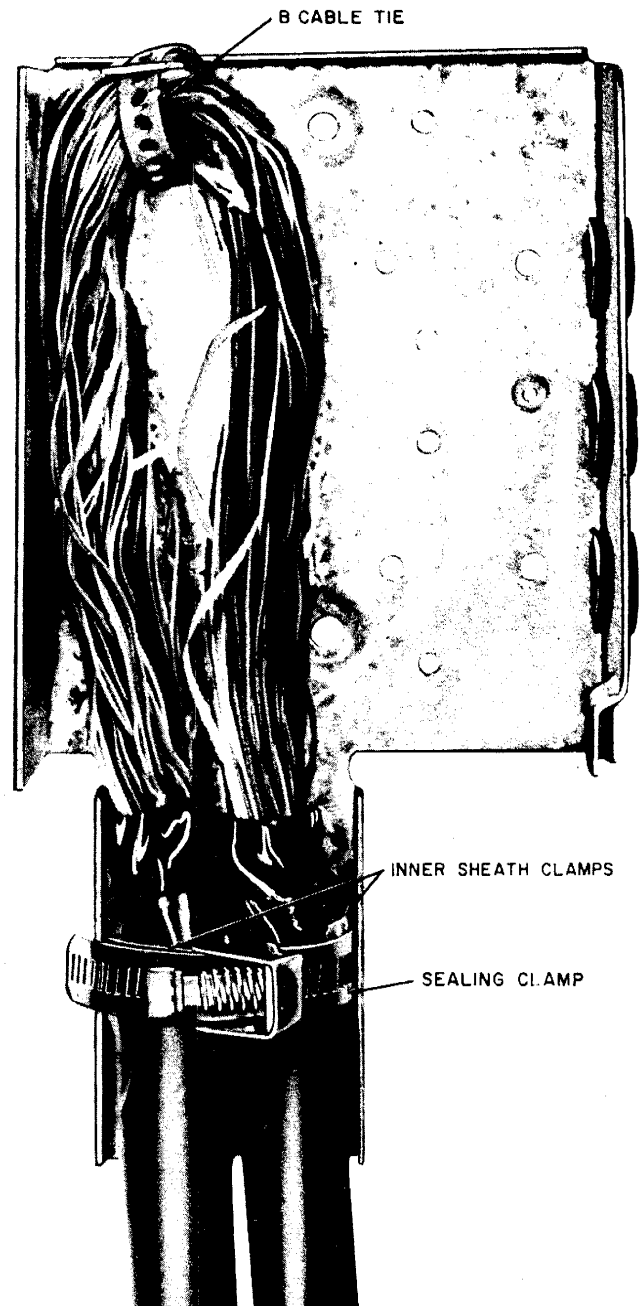


**Fig. 5—Installation of Inner Sheath Clamp**

## 5. INSTALLATION OF CABLE, PROTECTORS, AND WIRES

**5.01** Place the small sealing clamp through the keeper on the base (Fig. 1). Tighten the clamp on the cable butts and inner sheath clamps, as shown in Fig. 6. Make sure that the sealing clamp screw is centered on the cable loop, as illustrated in Fig. 6, to permit proper mounting

of the U-Guard. *Tighten the sealing clamp securely, making sure of metal-to-metal contact between the inner clamps and the sealing clamp. This ensures adequate mechanical strength, protective grounding, and inductive noise shielding.*



**Fig. 6—3A1 Closure in Place Without Cover and U-Guard**