

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G50.730.3
Issue 1, January, 1959
AT&T Co Standard

1A1 AND 1B1 CLOSURES

SHEATH PREPARATION

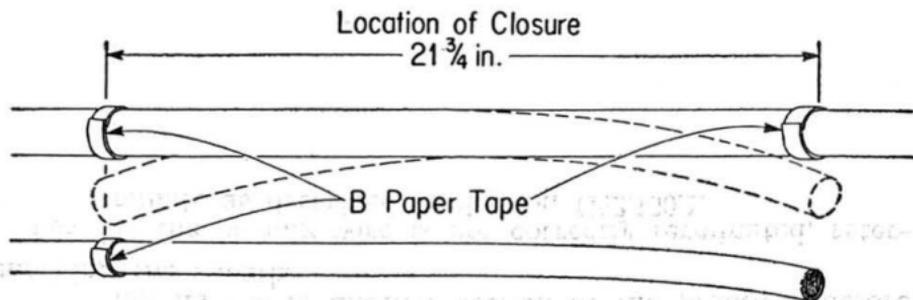
Contents	Page
1. General	1
2. Sheath Preparation	2
3. Sheath Preparation, PAP	5

1. GENERAL

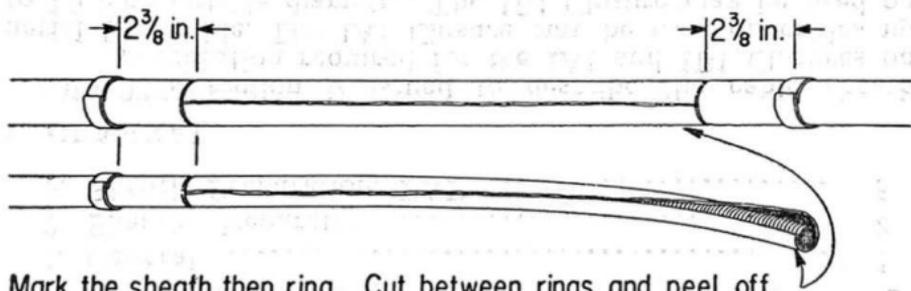
- 1.01 This section is issued to describe the cable sheath preparation required for the 1A1 and 1B1 Closures on aerial PIC cable. The 1A1 Closure may be used on cables up to 1.0 inch outside diameter. The 1B1 Closure may be used on cables from 1.1 inch to 2.2 inch outside diameter.
- 1.02 Determine the location of the closure as covered in Section G50.730.2.
- 1.03 Refer to Section G50.730.4 for the installation of the closures.
- 1.04 In using the slack puller, follow the instructions covering its use in another section of the practices before marking the sheath.
- 1.05 If the lashing wire is not correctly terminated, reterminate as described in Section G52.130.1.

2. SHEATH PREPARATION

- 2.01 Place B Paper Tape collars on the sheath to mark the location of the closure.

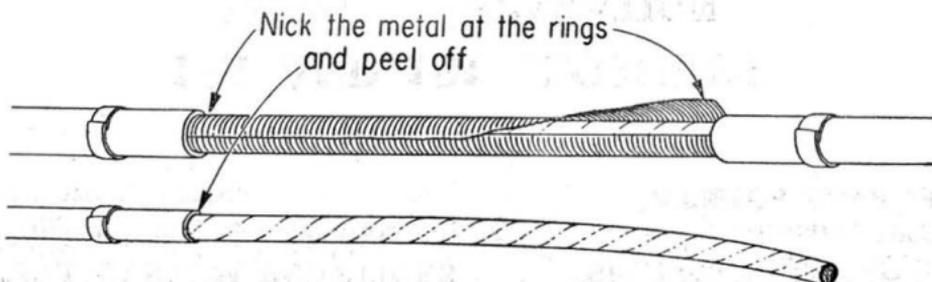


- 2.02 Mark the sheath inside the collars as shown, then ring the sheath at these marks, scoring completely around and half-way through the polyethylene. Cut the polyethylene along the length of the cable up to the scored rings and peel off the polyethylene as shown, tearing off around the ring in the direction of the overlap of the underlying metal.



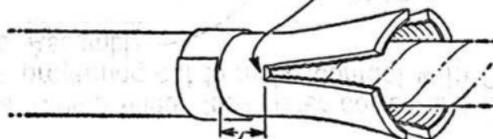
Mark the sheath, then ring. Cut between rings and peel off.

- 2.03 Nick the metal at the rings and peel off.



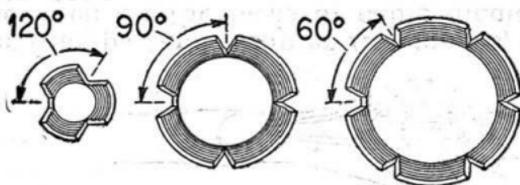
2.04 At each end of the sheath opening form 1-3/4-inch long tabs as shown below. Stop short of the B Paper Tape Marker. **Take care not to injure the core wrapper.** Enlarge the side opening facing the workman to 1/8 inch for the inner clamp by making an additional cut. Place temporary bond across the sheath opening, in accordance with Section G50.610.1.

Enlarge side opening to $\frac{1}{8}$ inch by making additional cut.



Cut tabs to within $\frac{1}{2}$ in. of marker

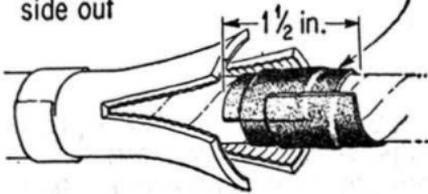
Cable Size O.D.	No. of Tabs
To .6 in.	3
.6 in. to 1.6 in.	4
1.6 in. to 2.2 in.	6



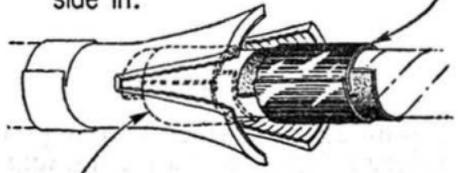
2.05 Carefully bend the tabs away from the core. **DO NOT BEND THE TABS SHARPLY** as the aluminum may tear at the base of the tabs. Remove all projecting slivers of metal to prevent puncturing the core wrapper.

2.06 On cables over 0.6 inch diameter form a collar around the core wrap as shown. Then slide the collar under the tabs as far as it will go.

① Form collar of 2 turns of D Vinyl Tape placed with adhesive side out



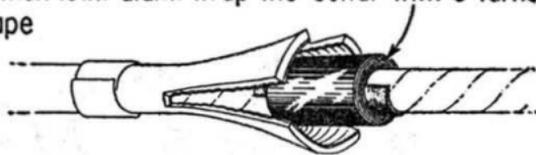
② Place a single turn of D Vinyl Tape over collar adhesive side in.



③ Slide collar under tabs

2.07 On cables less than 0.6 inch diameter wrap the collar with five turns of D Vinyl Tape, as shown.

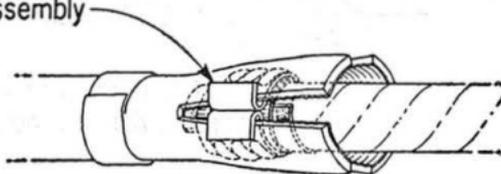
On cables less than .6in. diam. wrap the collar with 5 turns of D Vinyl Tape



2.08 Inner Clamps (and Adapter Assemblies, if used,) should be selected on the basis of cable diameter as covered in Section G50.730.1.

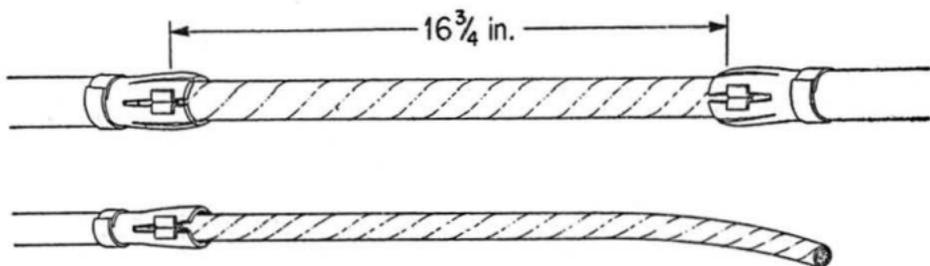
2.09 Slide the inner clamp over the end of the cable core, or, if the cable is not cut, spread the clamp apart before placing over the core, then close the clamp. Work the clamp under metal portion of the tabs carefully. The folded ears of the clamp are placed in the wide cut, the ears must project above the polyethylene tabs to form the electrical bond between the frame of the closure and the cable sheath.

Place Clamp under tabs, over collar and wrap, with ends projecting out to make contact with Clamp on Base Assembly



Cable Size	Inner Clamp No.
0 to 1.0 in.	P16E198
1.0 in. to 1.6 in.	P16E200
1.6 in. to 2.2 in.	P16E199

2.10 Work the clamps back under the tabs until the following measurement is obtained. The ears of the clamps will hold them in place.



2.11 The sheath opening is now ready for the installation of the closure, as covered in Section G50.730.4. **If for any reason the closure frame is not placed immediately, wrap cables securely to the strand with friction tape to prevent any longitudinal movement of the cables which is likely to increase the length of the sheath opening.**

3. SHEATH PREPARATION, PAP

3.01 Polyethylene, aluminum, polyethylene cable sheath (PAP) is prepared in the manner outlined in Part 2 up to and including Paragraph 2.03.

3.02 Then on PAP ring the remaining polyethylene layer and remove it in the usual manner.

3.03 In cutting the tabs DO NOT include the inner polyethylene layer. This should be left intact.

3.04 The remainder of the preparation is the same as in Part 2, except that the core wrap of vinyl tape is omitted.