

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G50.705.3
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AT&T Co Standard

SPLICE CASE AND T TYPE CABLE TERMINALS SHEATH PREPARATION

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1. GENERAL

1.01 This section describes the cable sheath preparation required for the installation of Splice Cases and T Type Cable Terminals on aerial alpeth, stalpeth or lead sheath cable. It includes changes brought about by the addition of the 1B and 2A Splice Cases and the TC, TD, TE, and TF Cable Terminals to the splice and terminal case group. It also includes a change in the sheath preparation that simplifies the work, since a different clamp is used.

1.02 This section replaces Section G52.621.1.

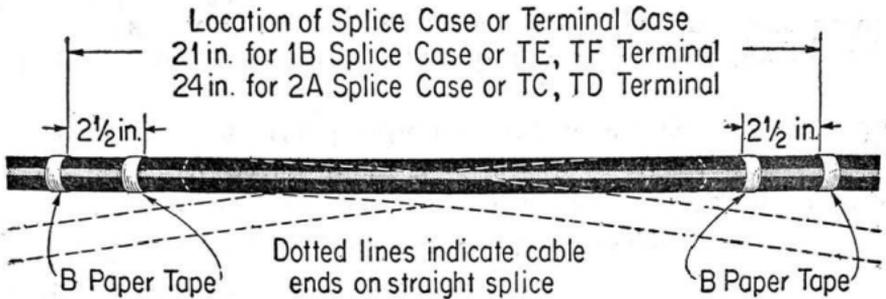
1.03 Refer to other sections of the Practices for the rest of the installation method.

1.04 Determine the location of the splice case or terminal case.

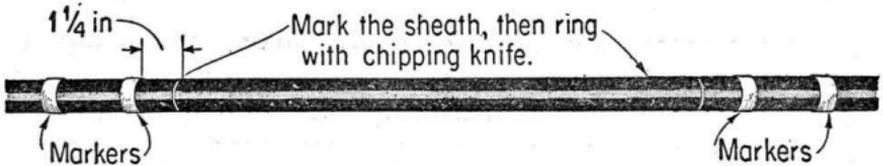
1.05 In using the slack puller follow the instructions covering its use in another section of the Practices before marking the sheath.

2. POLYETHYLENE SHEATH PREPARATION

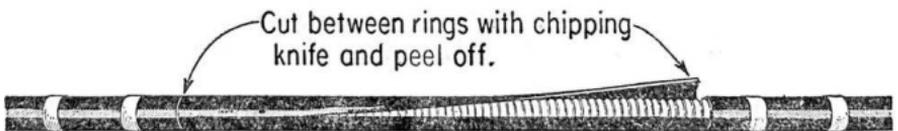
2.01 Place B Paper Tape (No. 3 Scotch Tape) markers on the sheath to mark the location. Then place an inner set of B Paper Tape markers, as shown.



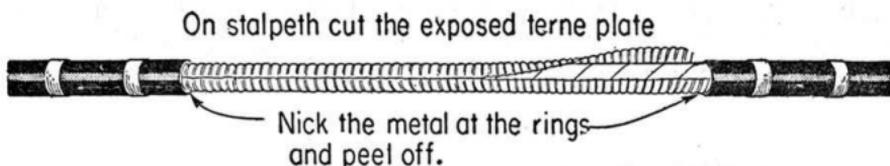
2.02 Mark the sheath inside the inner set of markers, as shown. Then ring the sheath at these marks with the chipping knife, scoring completely around and half-way through the polyethylene.



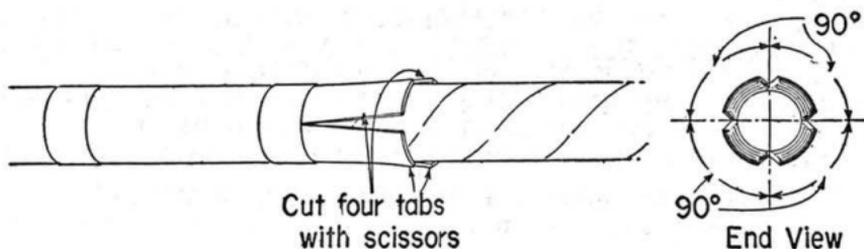
2.03 Cut the polyethylene with the chipping knife along the length of the cable up to the scored rings and peel off the polyethylene as shown, tearing off around the ring in the direction of the overlap of the underlying metal.



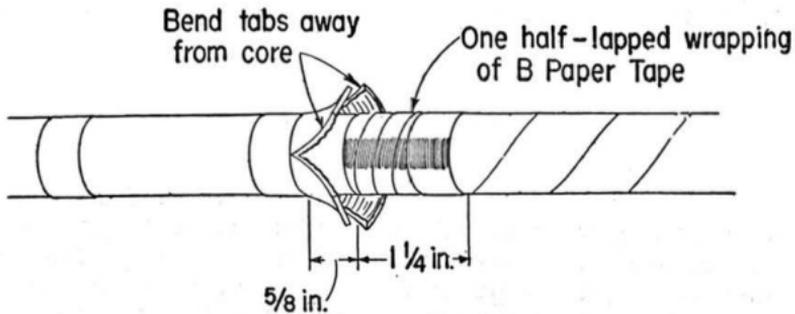
2.04 On stalpeth, cut the exposed terne plate lengthwise between the marks with the chipping knife. Then, on both alpeth and stalpeth, nick the metal at the edges of the marks and tear off.



2.05 Form four tabs with the scissors by making four longitudinal cuts through the polyethylene and metal layers to the edge of the inner marker. With small cables, the cuts may extend an extra 1/4-inch past the inner edge of the marker. This will help when the clamp is placed under the tabs. Avoid injuring the core wrapper. If temporary bonding is required across the sheath opening, use the methods covered in the section of Practices dealing with temporary bonds.

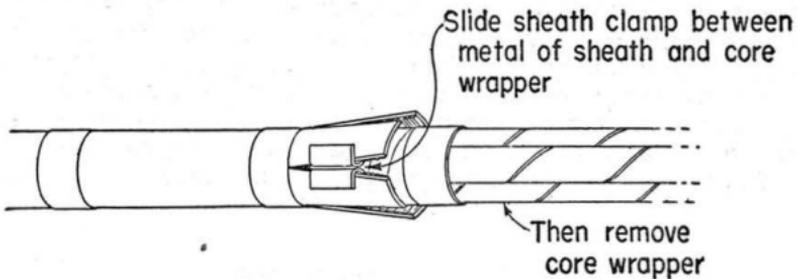


2.06 Carefully bend the tabs away from the core. DO NOT bend the tabs sharply as the aluminum may tear across the base of the tabs. Then scrape off or cut away any sharp projecting slivers of metal to prevent puncturing the core wrapper. Place a half-lapped wrapping of B Paper Tape over the core wrap as shown.

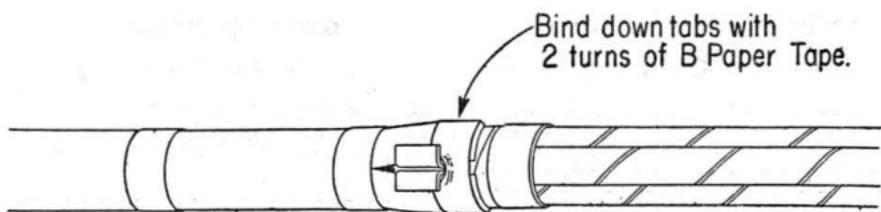


2.07 At a straight splice, place the sheath clamp over the cable core. Where the cable is not cut, spread the clamp apart to place it over the core, then close the clamp by pressing it together, making sure that the edges interlock.

2.08 Make sure that the metal tabs are bent away from the core, then slip the sheath clamp between the sheath metal and the core wrapper, as shown, with the projecting ears of the clamp extending through the side slit in the sheath, SO THAT BOTH EARS WILL TOUCH THE SECOND HALF OF THE SPLICE OR TERMINAL CASE. Make sure that the clamp does NOT catch any of the metal tabs and fold them back. Then remove the core wrapper.

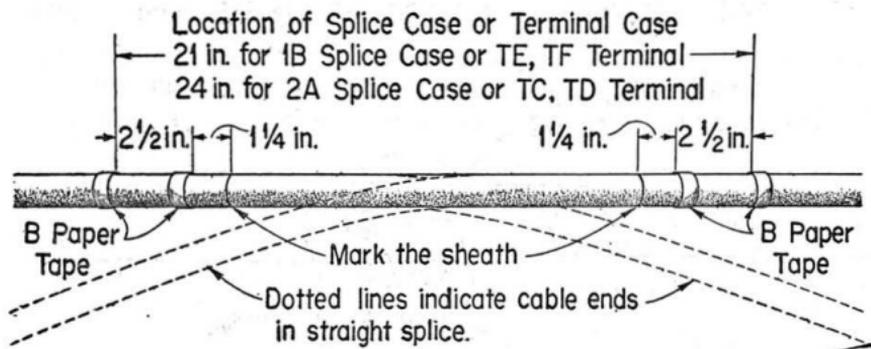


2.09 Bind down the tabs with two turns of B Paper Tape to hold the sheath clamp firmly in place. DO NOT COVER THE PROJECTING EARS OF THE CLAMP as these ears provide the sheath to case bond when the second half of the case is added.

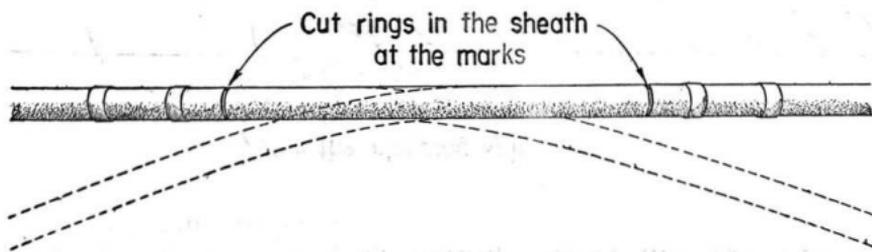


3. LEAD SHEATH PREPARATION

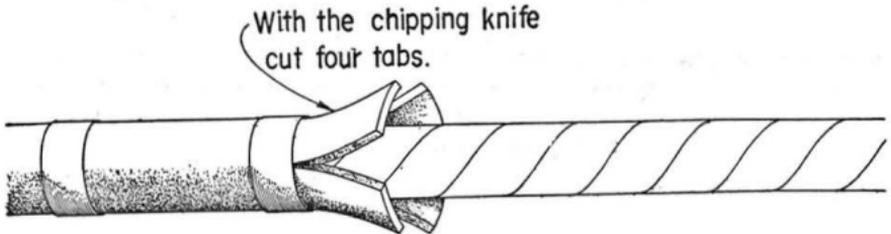
3.01 Place B Paper Tape (No. 3 Scotch Tape) markers on the sheath to mark the location of the splice case or terminal case. Then place an inner set of B Paper Tape markers. Mark the sheath inside the inner collar, as shown.



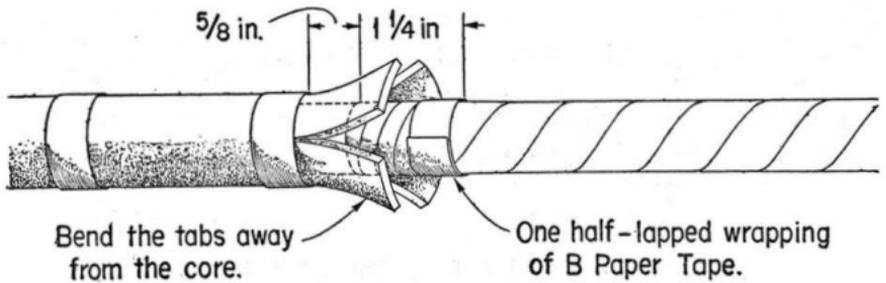
3.02 With the chipping knife cut a ring in the cable sheath at the marks for the sheath opening, as shown. The cut should go completely around the cable and should extend about half-way through the sheath. Then remove the sheath between cuts in the usual manner.



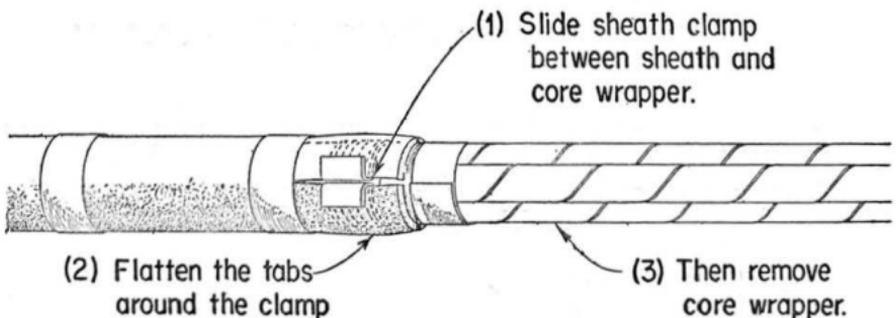
3.03 Form four tabs, as shown, cutting the lead with the chipping knife.



3.04 Bend the tabs away from the core. Then scrape off or cut away any sharp projecting slivers of lead to prevent puncturing the core wrapper. Place a half-lapped wrapping of B Paper Tape over the core wrap, as shown.



3.05 Place the sheath clamp under the tabs but with the ears on the outside of lead tabs and projecting through the side slit SO THAT BOTH EARS WILL TOUCH THE SECOND HALF OF THE SPLICE OR TERMINAL CASE. Bend the lead tabs if necessary to hold the clamp in place.



4. SUPERSEDED TYPE, SHEATH PREPARATION

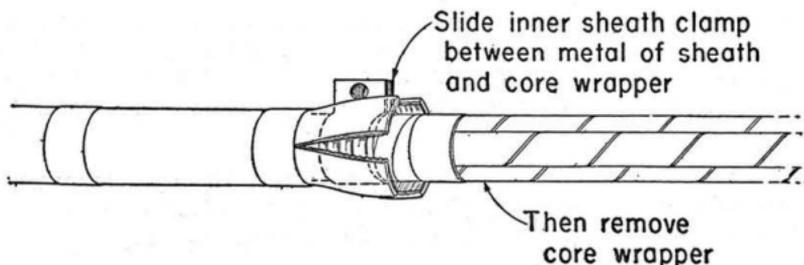
4.01 The previous sheath preparation left 1-1/2-inch tabs of exposed metal extending beyond the polyethylene and metal tabs. These exposed metal tabs were then bent back over the polyethylene tabs to give the sheath to case bond.

4.02 When this sheath preparation is encountered, on maintenance visits or additions or replacements, the bare 1-1/2-inch tabs may be removed, if the clamps of later design with projecting ears are substituted for the older clamps.

4.03 The sheath preparation for the superseded 1A Splice Case and TA and TB Cable Terminals are, in general, the same as covered in Part 2 of this section. The exceptions are shown in the following:

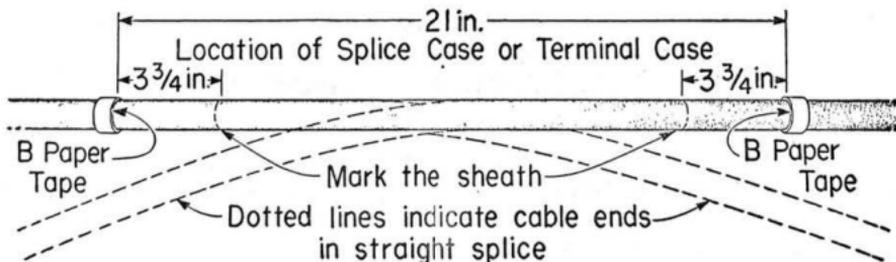
Polyethylene Sheath

4.04 Place the inner sheath clamp over the cable core, spreading the lugs apart if the cable is not cut and then closing them, as shown.

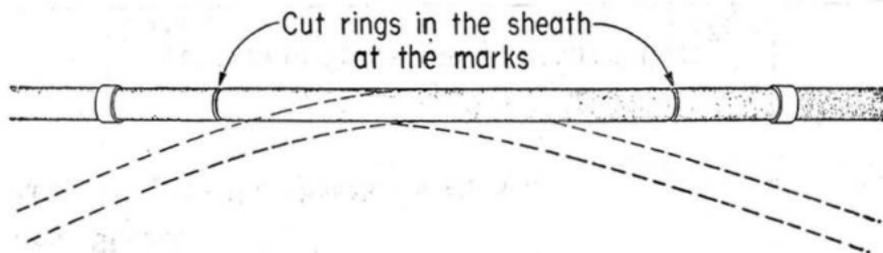


Lead Sheath

4.05 Prepare the sheath, as shown.

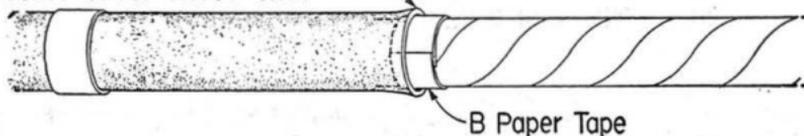


4.06 With the chipping knife cut a ring in the cable sheath at the marks for the sheath opening as shown. The cut should go completely around the cable and should extend about half-way through the sheath. Then remove the sheath between the cuts in the usual manner, leaving smooth flared ends.

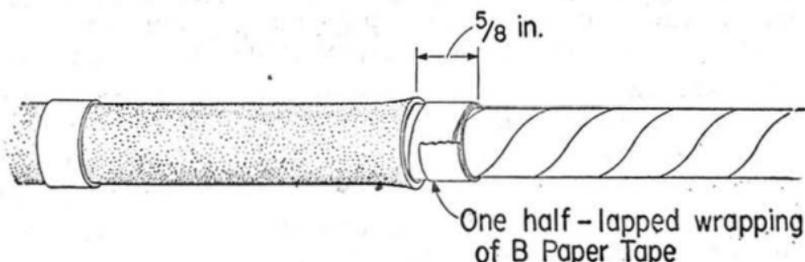


4.07 Under the flared end of the lead sheath, slide a collar, consisting of a single turn of B Paper Tape applied with the adhesive on the outside.

Form a collar around the core wrap of a single turn of B Paper Tape with adhesive side out. Carefully slide edge of collar under flared end.



4.08 Then place a half-lapped wrapping of B Paper Tape as shown. Then remove the core wrapper. The cable is now ready for splicing.



4.09 See another section of the Practices when any of these superseded units above are to be combined with the 1B Splice Case or the TE or TF Cable Terminals.