

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G55.603.2
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CABLE SPLICING—UNDERGROUND

SETTING UP LEAD SHEATH CABLE

TWO MEN IN HOLE

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1. PREPARATION

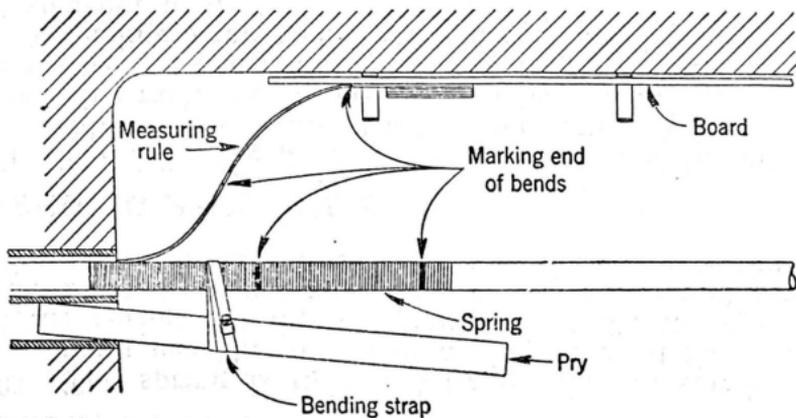
1.01 If cable bending springs are used care should be exercised in placing them; two strands of houseline tied in the ring and wrapped three or four times around the cable will serve to hold the spring in place while twisting. When the spring is tight the tie should be wrapped around the cable a few more times to secure the spring. This method will be found to facilitate the tightening operation.

1.02 In using the bender in square bore duct, it is advisable to slide the end of the spring into the duct about three or four inches; the eye on the end of the spring will keep it from turning. If the duct has a round bore, the spring should be attached to the cable near the duct. Care should be taken in bending the cable to see that it does not kink at the duct.

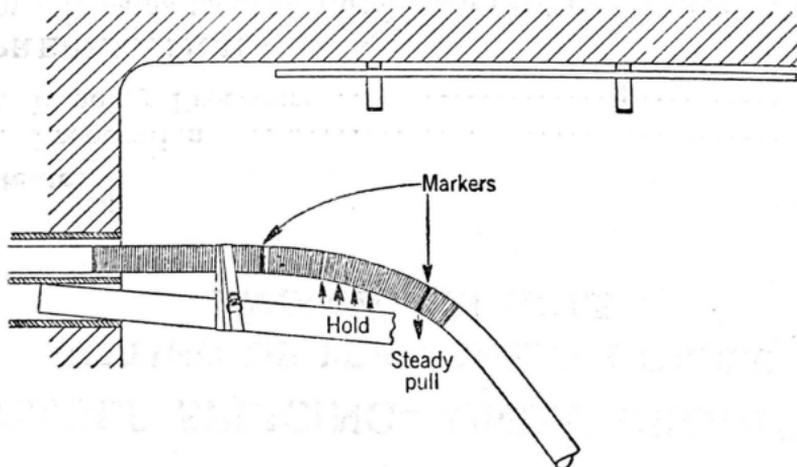
1.03 The spring is tightened by twisting it, starting at a point near the duct and working toward the free end, until the spring fits tightly around the cable throughout its length. Then dress out any slack in the spring and continue twisting until it is tight. Lash the end of the spring to the cable.

2. BENDING PROCEDURE

2.01 The following procedure can be followed in setting up cable with or without a bending spring. A board placed on the cable rack hooks as shown on page 2 will be useful in aligning the end and maintaining the proper distance from the wall. A bending strap and a pry will be helpful in making the bend adjacent to duct.

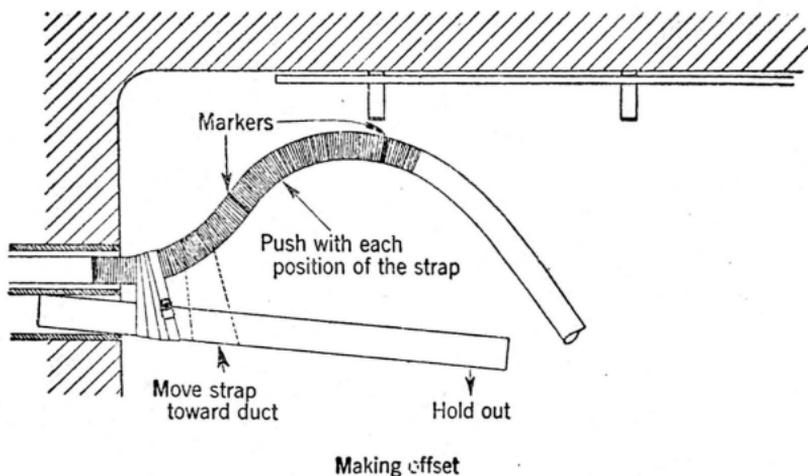


2.02 The first bend is started as shown below. The splicer holds the cable with his foot, or cable racking jack while the helper pulls out on the free end of the cable. The pull should be near the end of the spring to avoid kinks and the splicer should move his position toward the duct to make the bend uniform.



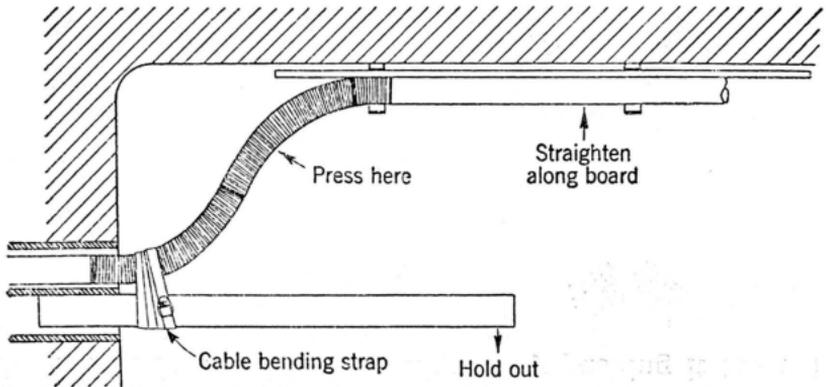
Starting first bend

2.03 The splicer then places the strap, as shown below, and pushes on the cable to make the offset toward the wall. The strap is moved toward the duct, gradually pushing the cable toward the wall. The helper should support the end of the cable to facilitate bending, but the push should be concentrated at the center of the first bend to avoid straightening the cable.



2.04 The bends are finished to the desired shape by alternating the procedures indicated in Paragraphs 2.02 and 2.03.

2.05 In order to align the cable with the wall without disturbing the bends, the splicer should proceed as shown on following page. The bend at the duct is held in place by means of the pry and strap while the other is kept in place by pressing against the bend in the direction of the corner of the manhole. The free end is then aligned by pushing it toward the wall.



Aligning cable without disturbing bends

2.06 When the bends are satisfactory and the free end is properly aligned, loosen the houseline tie and allow the spring to release itself slowly. Other methods of removing the spring are dangerous and should be avoided. Remove the spring from the duct by turning it from side to side at the duct and applying an easy pull; attempting to remove the spring by merely pulling distorts the end and is not as effective.