

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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CABLE SPLICING—UNDERGROUND

SETTING UP CABLE

PULL THROUGH MANHOLES

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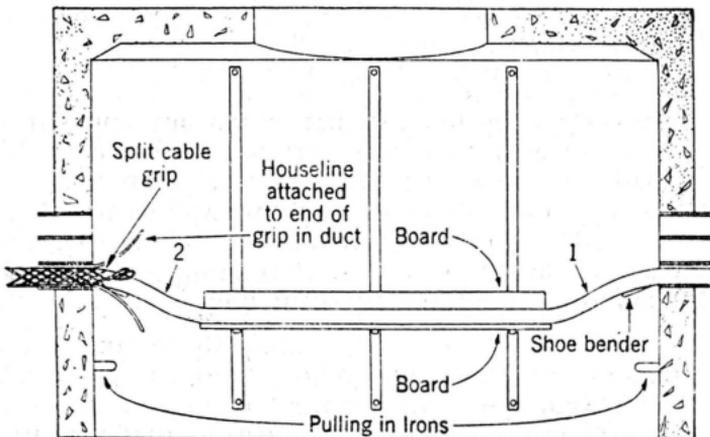
1. GENERAL

1.01 It is essential that cables are set up in pull through manholes before the splices in the adjacent manholes are made.

2. SPLIT GRIP METHOD

2.01 Place a split cable grip on the cable at the end of the manhole from which slack is to be pulled. The cable grip should be laced and then worked into the duct as far as desired. Before the cable grip is inserted in the duct, it is advisable to tie two or three double strands of houseline to the rear end of the grip in order to facilitate its removal after the necessary slack has been pulled. The slack may be pulled by means of a capstan block, a block and tackle, a tension splicing jack, a pump bar, or by hand.

2.02 As slack is pulled into the manhole, apply pressure at point 1, as indicated in the following diagram, being careful not to damage the sheath. A screw type or hydraulic jack can be used to advantage in pushing the cable to the manhole wall. Then dress the cable at the bend and proceed with the pulling and racking. After this end is racked, it may be necessary to slide the cable grip farther into the duct.



2.03 To form the second bend, pull slack and apply pressure at 2, dressing the cable as needed.

2.04 Bending the cable is simplified by placing a board on the cable hooks which will keep the cable straight. A second board may be placed in back of the cable to act as a protection for the sheath and also to allow the proper clearance between the cable and the manhole wall.

3. CABLE RACKING JACK METHOD

3.01 If the pull is being made from a short conduit section and cable racking jacks are available, it may be possible to set up the cable without placing the split grip. The procedure is as follows:

- (1) Place boards on the racks and bending shoes in the duct at each end of the manhole as illustrated in Paragraph 2.02.
- (2) Carefully apply pressure with the jack at points 1 and 2. If the cable is free in the duct, it will move into the manhole without seriously flattening the shoe at the end of the jack. In other respects the method of setting up the cable is the same as that described in Paragraph 2.01.
- (3) If the cable does not move readily when pushed with the jacks the split grip method should be used.