

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G61.104.3
Issue 2, November, 1949
AT&T Co Standard

TERMINALS
SHEATH-MOUNTED DISTRIBUTION
CABLE TERMINALS—
INSTALLING

Contents	Page
1. General	1
2. Installing Sheath-Mounted Terminals on Lashed Cable	1
3. Installing Sheath-Mounted Terminals on Ring Supported Cable	6

1. GENERAL

1.01 This section covers the installation of sheath-mounted distribution cable terminals on aerial and block cables which are either lashed or ring supported from cable suspension stand. It replaces Issue 1.

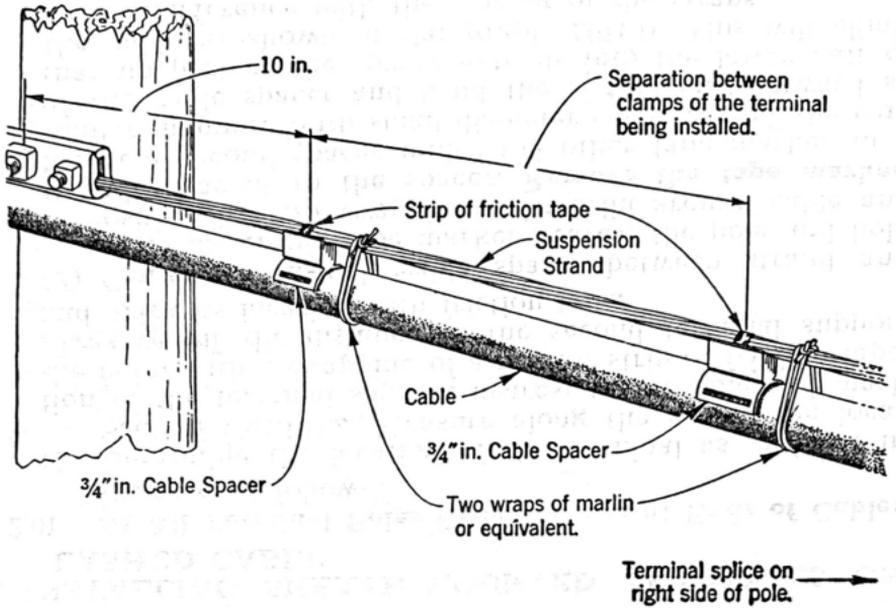
1.02 The description of the terminals and their positioning with respect to pole supports are covered in Sections G61.104.1 and G61.104.2, respectively.

2. INSTALLING SHEATH-MOUNTED TERMINALS ON LASHED CABLE

2.01 At All Terminal Poles Except Those at Ends of Cable:
Proceed as follows:

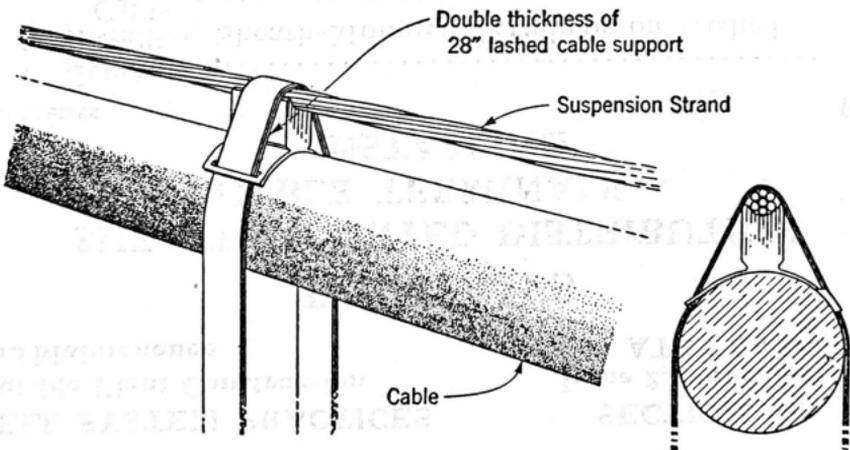
(1) Determine the location of the terminal as outlined in Section G61.104.2. Measure along the strand the location of the terminal support nearest to the pole and mark the point with a wrapping of a narrow strip of friction tape. Measure off the distance to the second terminal support and mark its location with friction tape.

(2) Center a 3/4-inch cable spacer between strand and cable under the tape marker nearest the pole and hold in position by two wrappings of marlin around cable and strand adjacent to the spacer. **Remove the tape marker.** Insert a second spacer under the other tape marker in a similar manner. With small diameter cable, cut off the ears of the cable spacer and bend the slotted end outward so that no part of the spacer extends into the lower half of the cable as shown in Paragraph 2.01(3). This will eliminate interference with the placing of the straps.

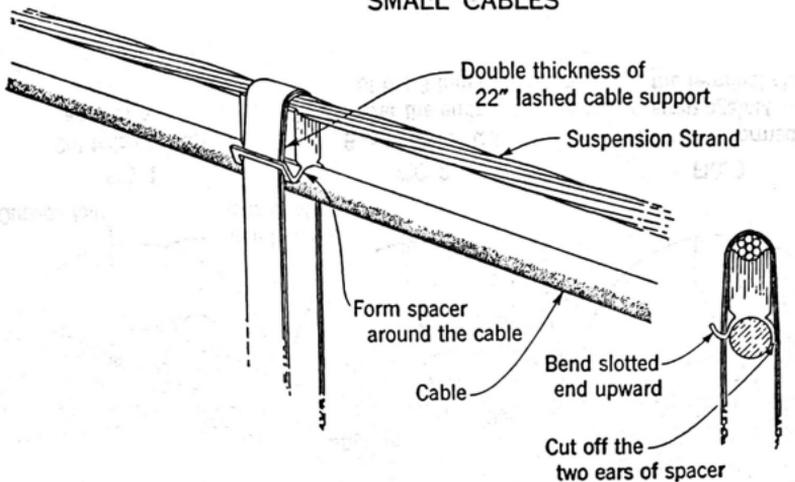


(3) Cut off the buckles from a pair of lashed cable supports (28 inch supports for the larger size cables and 22 inch for the smaller cables). Fold the straps in half so as to obtain double thickness. Pinch the closed ends of the folded straps with pliers and thread them through the slots of the cable spacers. Bend the straps over the strand pointing the ends downward as indicated below.

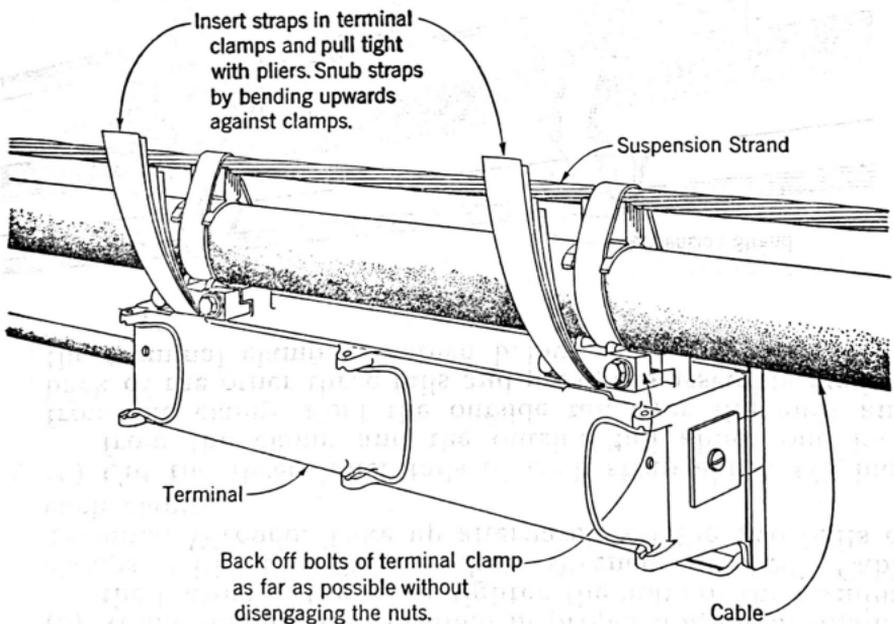
LARGE CABLES



SMALL CABLES



(4) Back off the bolts of the two terminal clamps as far as possible without disengaging their associated nuts. (Either the "C" Socket Wrench or the "N" Cable Terminal Wrench are suitable for this purpose.) Draw the ends of the straps together under the cable, insert into the slots of the terminal clamps and pull up as tight as possible with pliers. Snub the straps in position by bending them upwards against the terminal clamps as shown in the illustration.



TERMINALS SHEATH-
MOUNTED
DISTRIBUTION
CABLE TER-
MINALS—
INSTALLING

(5) While holding the terminal in proper alignment against the bottom of the cable, tighten the bolts of the terminal clamps with the "C" Socket Wrench or "N" Cable Terminal Wrench. Take up alternately on the two bolts of each clamp.

(6) Cut the three inner tails of each strap about 1/2 inch from the clamp and the outside tail about one inch from the clamp. Fold the outside tail over the ends and back of the other three tails and press the assembly against the terminal clamp as shown below.

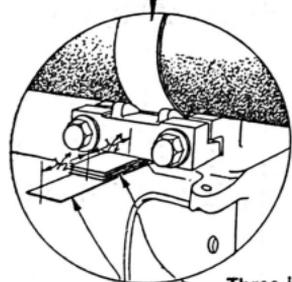
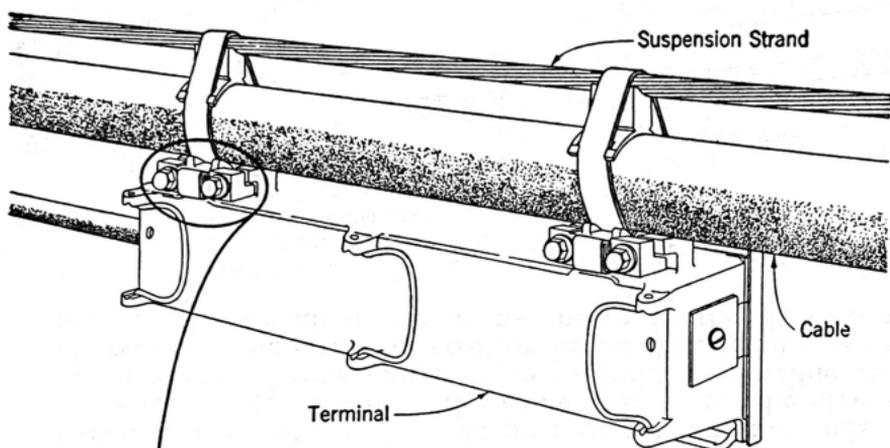


FIG. 1
Cut tails of strap
as shown

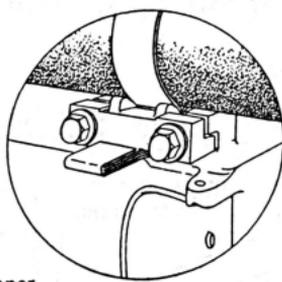


FIG. 2
Bend outside tail
over the ends
of the 3 inner tails.

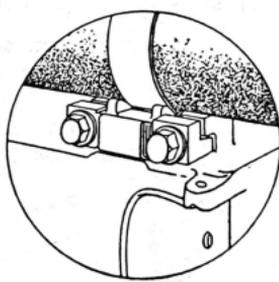
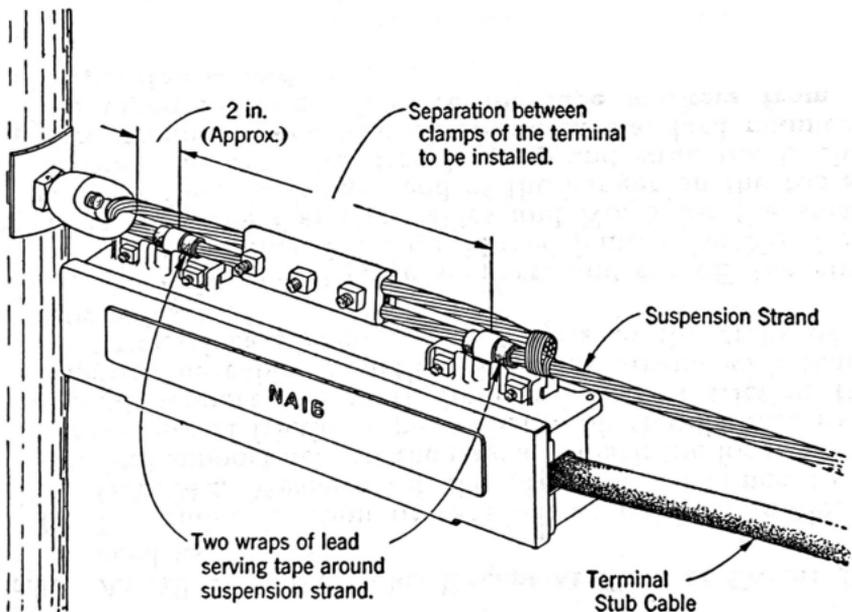


FIG. 3
Press the formed
strap against
the terminal clamp.

2.02 At Terminal Pole at End of Cable. Proceed as follows:

- (1) Measure along the strand the location of the terminal support nearest the pole. At this point wrap two layers of lead serving tape around the strand. Measure off the distance to the other support and repeat the lead tape wrappings around the strand.
- (2) Cut off the buckles from a pair of 22 inch lashed cable supports and fold in half to obtain double thickness. Bend the straps over the lead tape wrappings on the strand with the ends pointing down.
- (3) Back off the bolts of the terminal clamps as far as possible without disengaging the nuts. Draw the ends of each strap together under the strand, insert into the slots of the terminal clamps and pull up as tight as possible with pliers. Snub the straps in position by bending them upwards against the terminal clamps in the manner shown in the sketch of Paragraph 2.01(4).
- (4) Hold the terminal in proper alignment with the strand, and tighten the bolts of the terminal clamps. Trim and finish the tails of the straps in the manner shown in Paragraph 2.01(6).
- (5) The installed terminal is shown below:

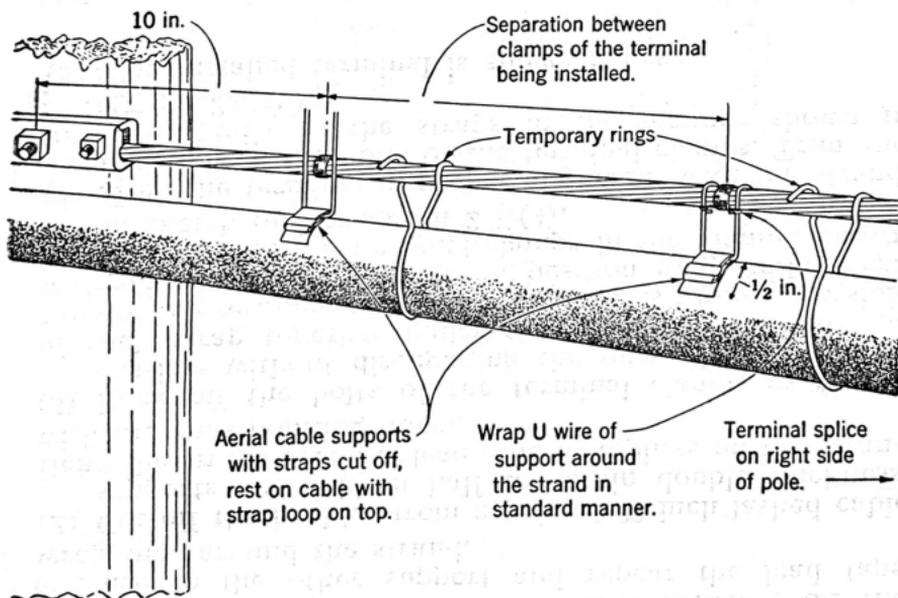


3. INSTALLING SHEATH-MOUNTED TERMINALS ON RING SUPPORTED CABLE

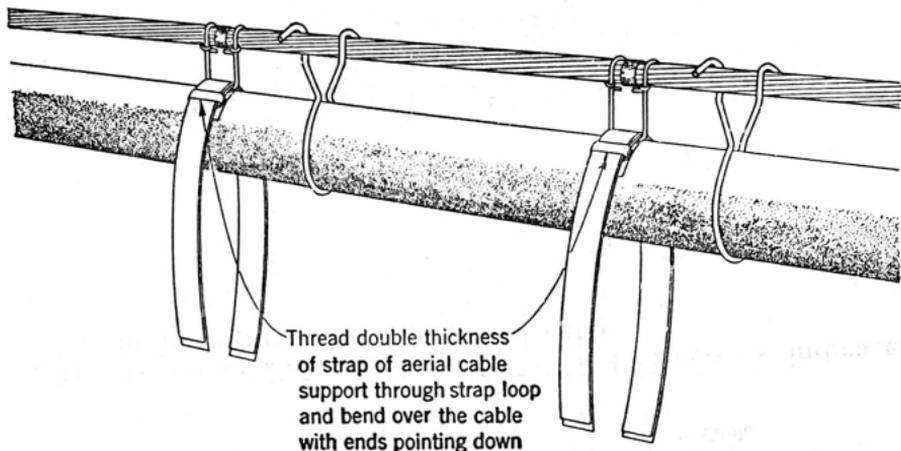
3.01 **At All Terminal Poles Except at Ends of Cable:** Proceed as follows:

(1) Determine location of terminal as outlined in Section G61.104.2. Measure off the prescribed distance to the terminal support nearest the pole and mark the location with a wrapping of friction tape. Measure off the distance to the second support and mark its location with friction tape. Support the cable from the suspension strand with temporary rings located about three inches to the right of the tape markers.

(2) Take two aerial cable supports and cut off the straps about 1/2 inch from the hinged joint. (Use No. 4 supports for large diameter cables and No. 3 for the smaller cables.) Rest the hinged end of the hanger on the top side of the cable with the strap loop up and wrap the U shape wire around the suspension strand in standard manner at the taped locations. **Remove the tape markers from the suspension strand.**



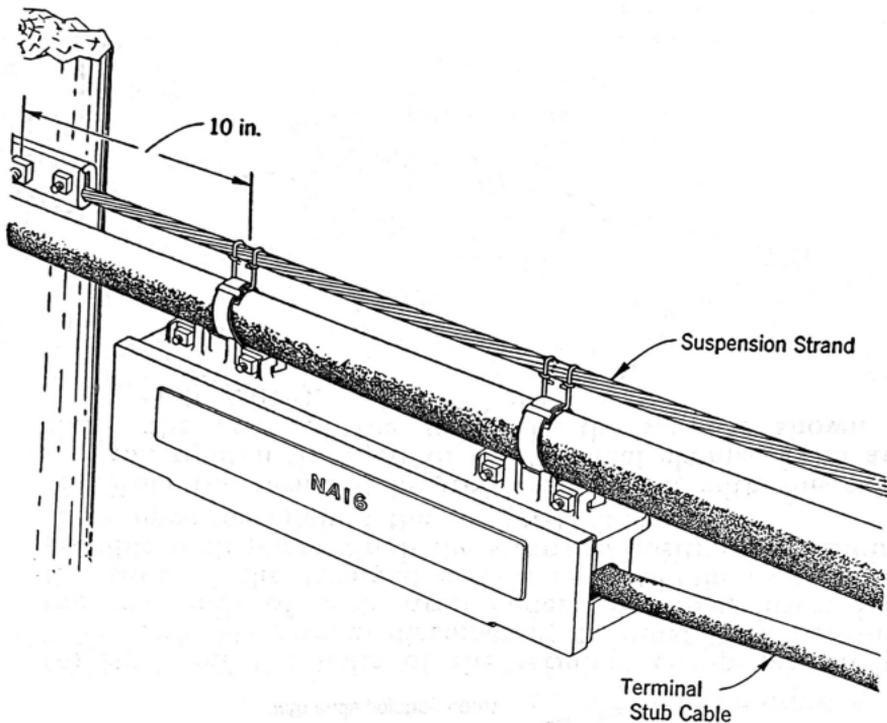
(3) Fold the hanger straps in half so as to get double thickness, thread them through the hanger loops and bend over the cable with the strap ends pointing down.



(4) Back off the bolts of the terminal clamps as far as practicable without disengaging the nuts. Draw together the two ends of each strap under the cable, insert into the slots of the terminal clamps and pull up as tight as possible with pliers. Snub the straps in position by bending them upwards against the terminal clamp.

(5) Hold the terminal in proper alignment with the cable and tighten the bolts of the terminal clamps. Trim and finish the ends of the straps in the manner shown in Paragraph 2.01(6).

(6) The completely installed terminal is shown below.



3.02 **Terminal Pole at End of Cable.** Proceed as indicated in Paragraph 2.02 for lashed cable.