

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G52.135.1
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AT&T Co Standard

AERIAL CABLE SUPPORTS INSTALLATION

Contents	Page
1. General	1
2. Description	1
3. Sizes of Supports	1
4. Method of Installation	2

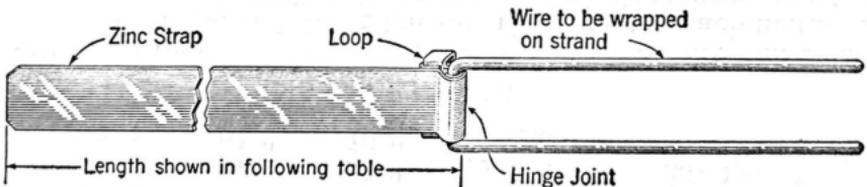
1. GENERAL

1.01 This section covers the use and method of installation of aerial cable supports. This section together with Section G52.135.2 replaces Section G52.135, Issue 2.

1.02 Aerial cable supports are for use in place of cable rings for supporting cable from strand near poles, at splices and at any locations where sheath damage due to ring cutting is being experienced. Aerial cable supports are also used in lashed cable construction as outlined in the Lashed Cable Practices.

2. DESCRIPTION

2.01 The aerial cable support consists of a U-shaped piece of galvanized wire to which is hinged a zinc strap of sufficient length to encircle the cable or sleeve three times.



3. SIZES OF SUPPORTS

3.01 The supports are furnished in eight sizes, designated as Nos. 1 to 8, inclusive. Each size may be used for a single cable or sleeve or any combination of cables having a combined circumference no greater than the maximum capacity listed in the following table. The No. 8 size support has a 10-inch wire hanger for those cases where additional spacing is required.

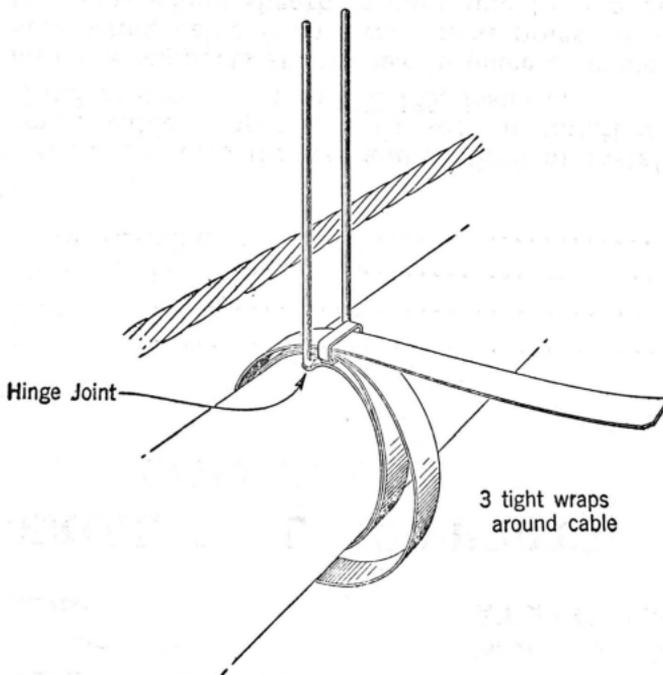
Size Designation of Support	Length of Strap	Length of Wire Hanger	Maximum Diameter of Cable or Sleeve	Maximum Circumference of Cable or Sleeve
No. 1	10 in.	5 in.	3/4 in.	2- 5/16 in.
No. 2	16 "	5 "	1-3/16 "	3- 5/8 "
No. 3	22 "	5 "	2 "	6- 5/16 "
No. 4	28 "	5 "	2-5/8 "	8- 5/16 "
No. 5	34 "	5 "	3-1/4 "	10- 1/4 "
No. 6	50 "	5 "	5 "	15-13/16 "
No. 7	64 "	5 "	6-7/16 "	20- 1/4 "
No. 8	64 "	10 "	6-7/16 "	20- 1/4 "

4. METHOD OF INSTALLATION

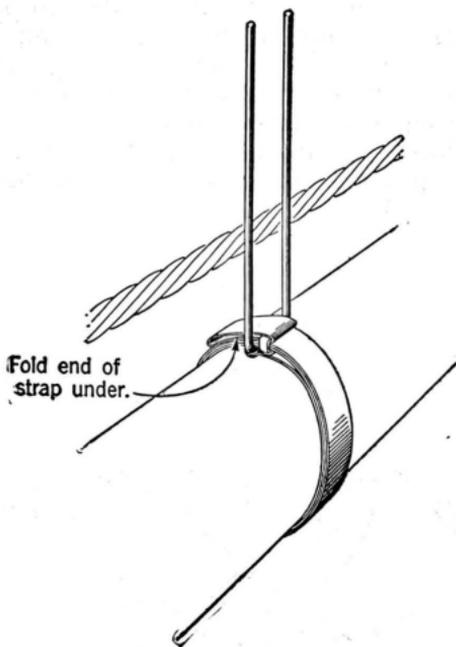
4.01 Arrange the cable under the strand at the same level as supported by adjacent rings and attachments. At pole, splice, and similar locations where clearances must be maintained, arrange the cable in a long smooth curve.

4.02 To install the strap of the aerial cable support on the cable proceed as follows:

- (1) Place the hinge joint directly under the suspension strand and place 3 wraps of the zinc strap around the cable or sleeve, passing the end of the strap through the retaining loop at the hinge joint when completing each wrap. Tighten each wrap as the band is placed.

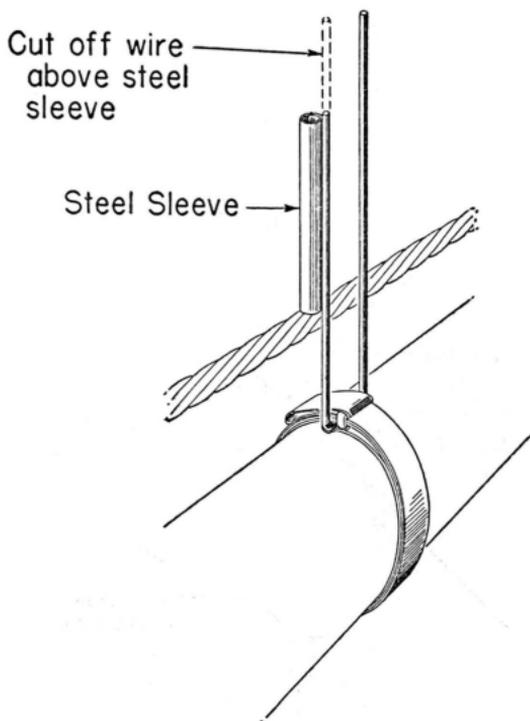


(2) After completing the three wraps, pull the last wrap tight, bend the strap back over the loop and fold the end under. Cut off any length of strap in excess of two inches before folding the end under.

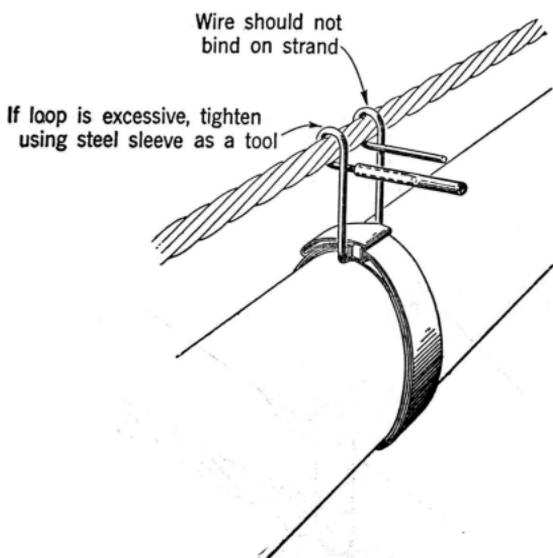


4.03 Complete the installation by attaching the wire hanger to the strand as follows:

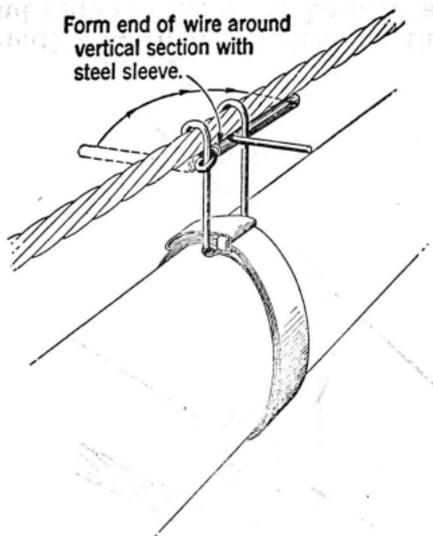
- (1) Place a 134-S steel sleeve on top of the strand against the hanger wire and cut off any excess wire even with the sleeve as shown or measure up from the top of the strand $2\text{-}5/16$ inches and cut off the excess wire.

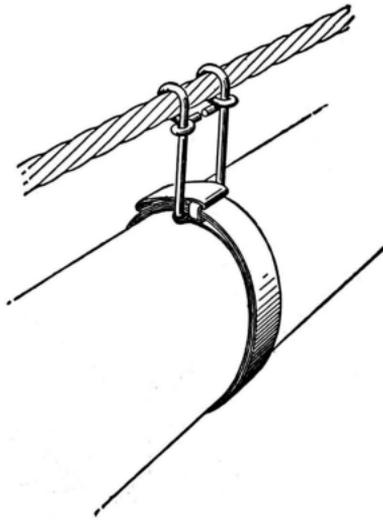


- (2) Bend the wires around the strand and inside the vertical portion of the wire and tighten the loop. The steel sleeve or a C socket wrench, the handle of which is drilled for this purpose, may be used to facilitate the bending operation. The wire loop should not bind on the strand. Care should be exercised in bending and forming the wire loop to avoid damage to the cable sheath.

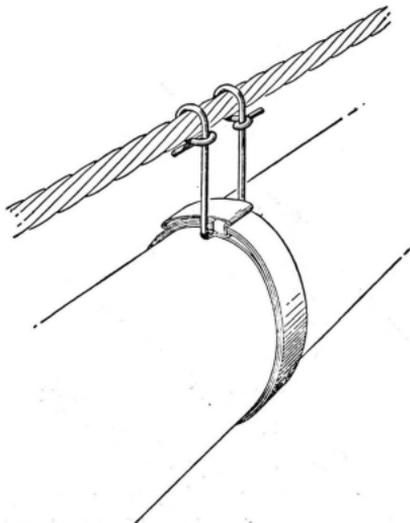


(3) Complete the installation by wrapping the wire around the vertical section as shown in the following figures:





4.04 An alternative method of attaching the wire hanger to the strand requires the wires be bent around the strand and outside of the vertical portion of the wires. The following figure shows the completed installation when this method is employed.



4.05 When the aerial cable support is used to support two or more cables, the installation is performed as described above with three wraps of the strap around the cables.

