

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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LASHED AERIAL CABLE

ARRANGEMENT OF SUPPORTS

WHERE SPLICE IS PRESENT

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1. GENERAL

1.01 This section covers the temporary and permanent arrangement of supports for lashed cable where a splice is present.

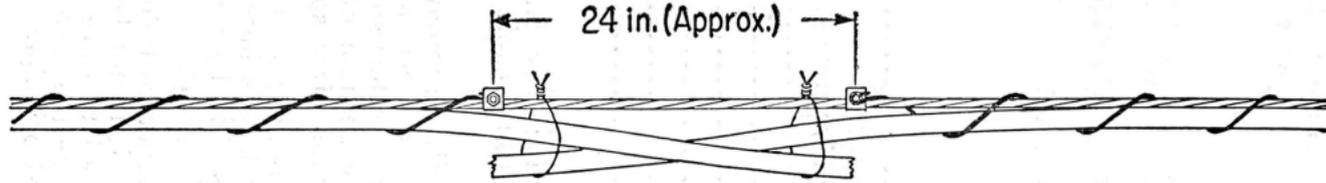
1.02 At splice locations temporarily terminate the lashing wire and support the unlashd portion of the cable with loops of lashing wire, houseline or other suitable material at hand after placing. The necessary permanent supports and lashing wire terminations may be made after splicing.

1.03 If, in completing the job, it is necessary to cut lashing wire that has been terminated, it is important that the lashing wire first be secured to the strand by means of lashing wire grips to insure against its slacking off.

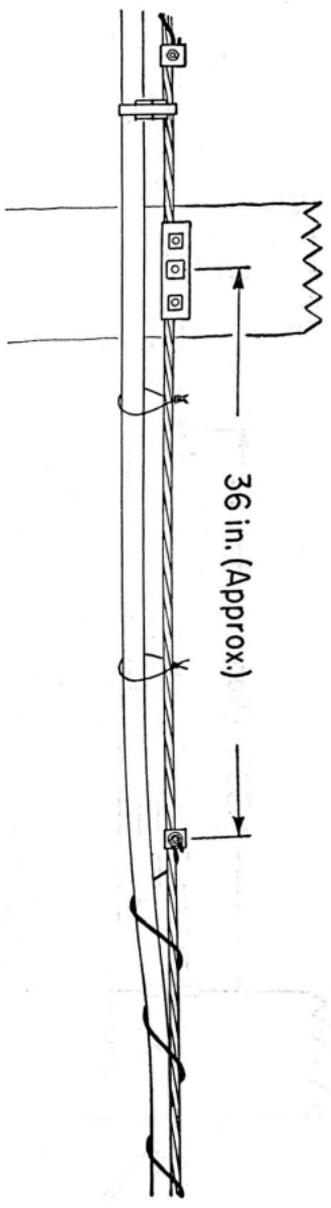
1.04 These arrangements are designed to hold the cable in a long smooth curve, wherever it is not lashed snugly to the strand, free from contact with any hardware or other points of interference. Should conditions arise that are not covered in these arrangements, the same general principles as herein illustrated should be followed.

2. TEMPORARY SUPPORT ARRANGEMENTS

- 2.01 The following illustrations indicate the general supporting arrangements to be followed at cable splice locations.
- 2.02 At mid-span cable splice locations.

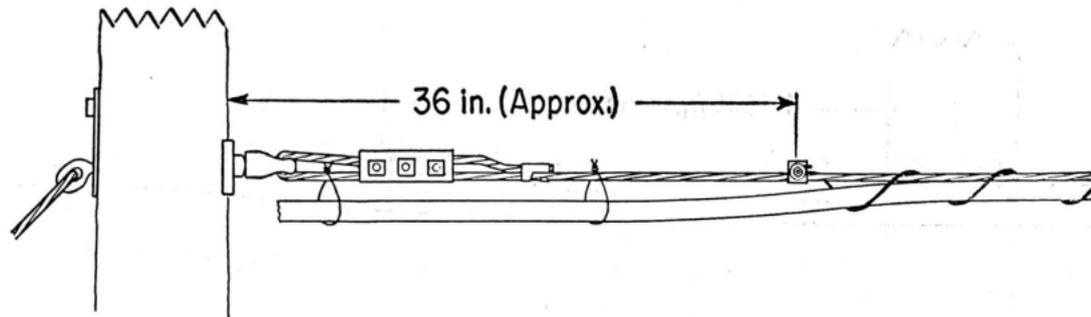


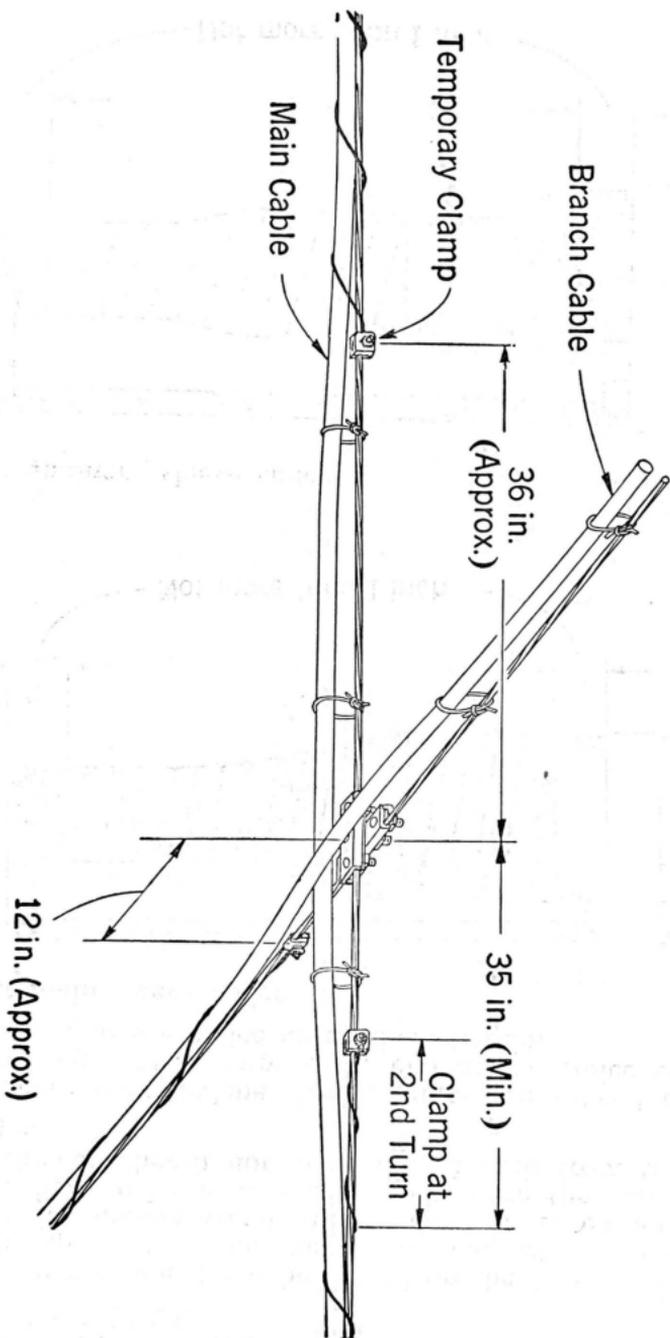
2.03 Terminal splice locations at straight line poles and corner poles where the strand is continuous.



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2.04 At splices at cable end poles or heavy corners where the strand is not continuous, temporarily support cable as shown.



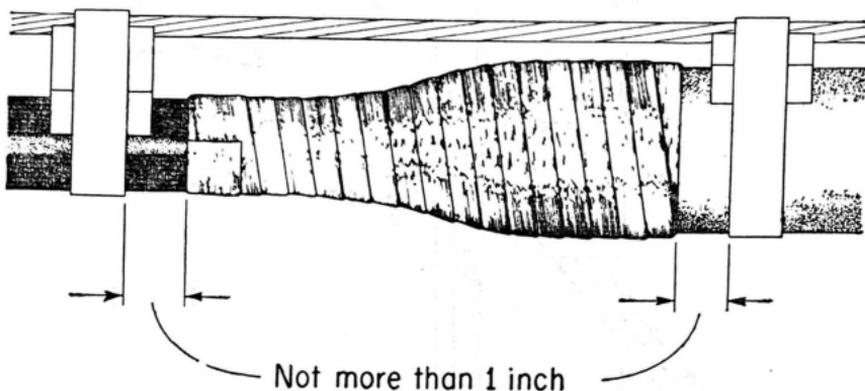


3. ARRANGEMENTS AT SPLICES IN POLYETHYLENE SHEATH CABLES

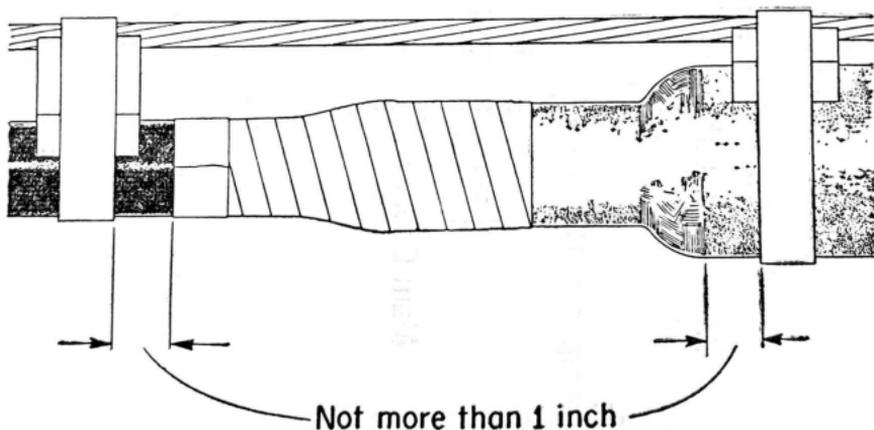
3.01 Supports should **not** be placed on the taped portion of the splice. If in measuring for support locations it is found that the support would be located on the taped portion of the splice, disregard the dimension and locate the support on the polyethylene sheath not more than 1 inch from the edge of the tape.

3.02 Where polyethylene sheath cables are spliced to lead covered cables, support the end of the splice and the cable adjacent to the splice as outlined herein.

3.03 At main sleeve splice.

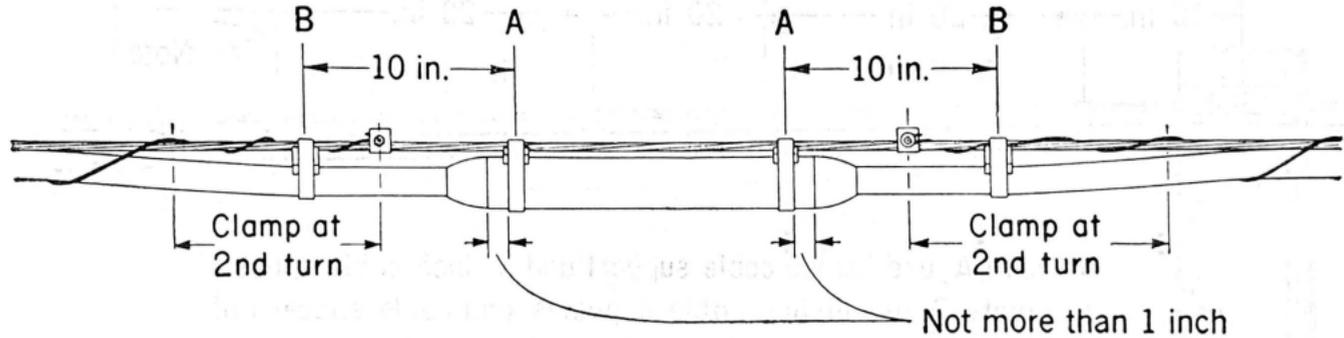


3.04 At auxiliary sleeve splice.



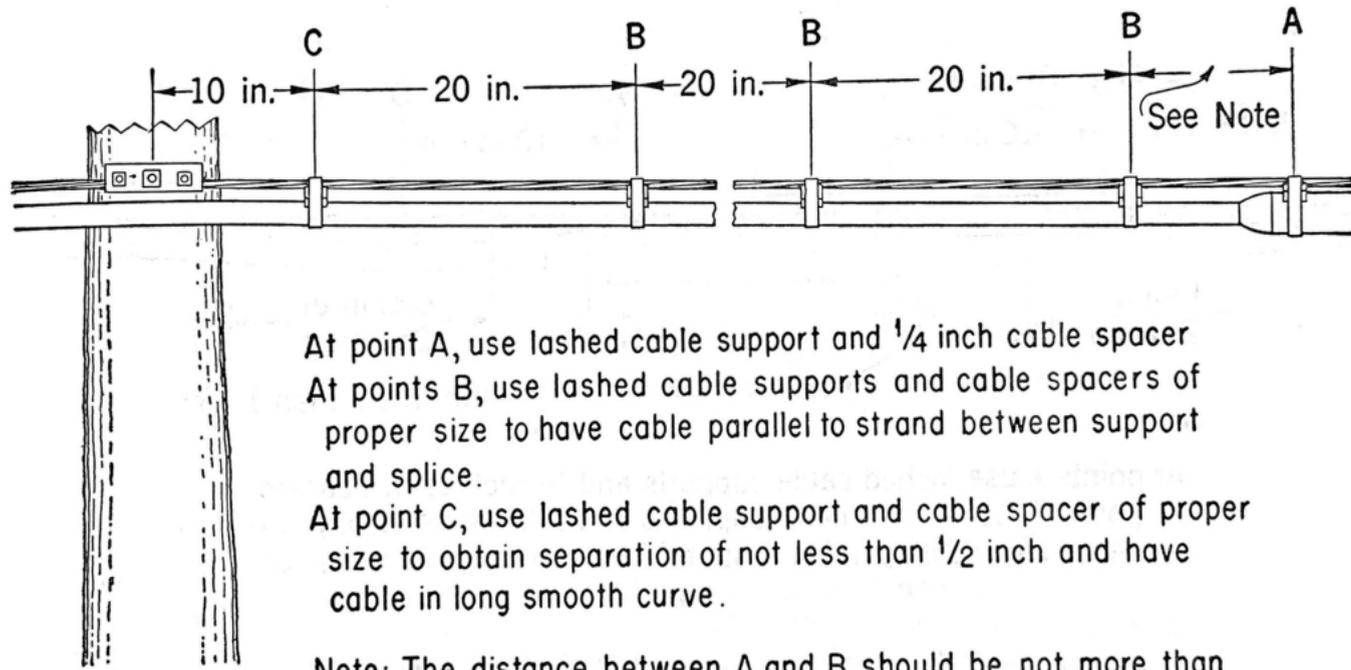
4. SPLICE IN SPAN

4.01 At splices in the span 10 feet or more from a pole or a strand crossover, arrange the supports as shown.



At points A use lashed cable supports and $\frac{1}{4}$ inch cable spacers.
At points B use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice

4.02 At splices in the span less than 10 feet from a pole or strand crossover, arrange the supports as shown.



At point A, use lashed cable support and $\frac{1}{4}$ inch cable spacer
At points B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.

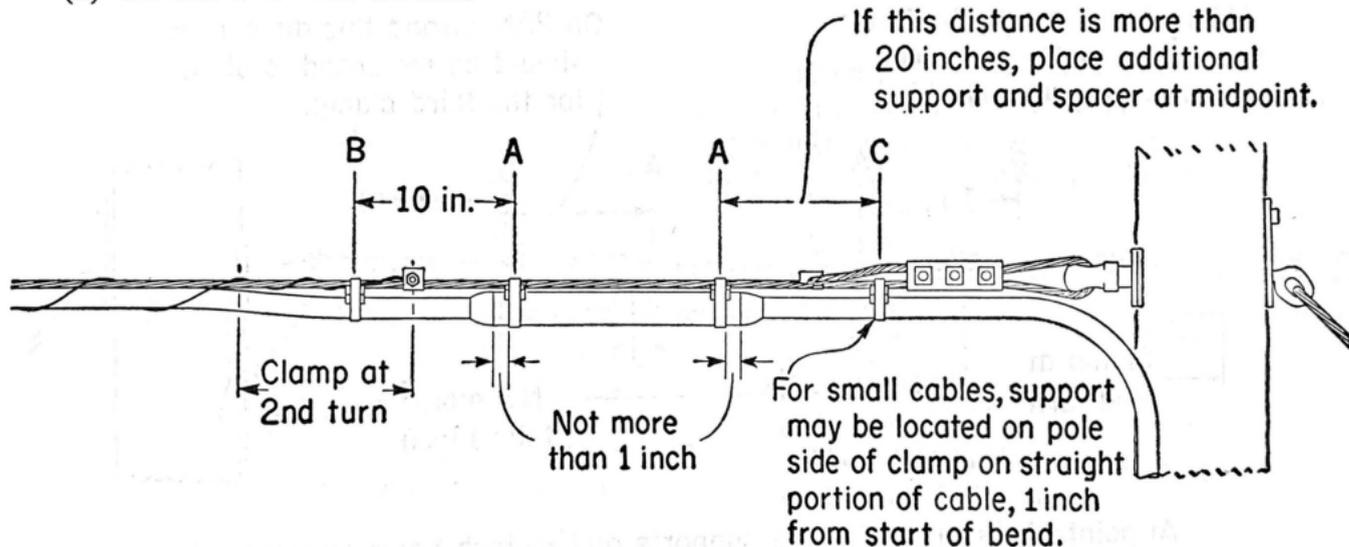
At point C, use lashed cable support and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.

Note: The distance between A and B should be not more than 20 inches, nor less than 10 inches.

5. SPLICE AT CABLE END POLES

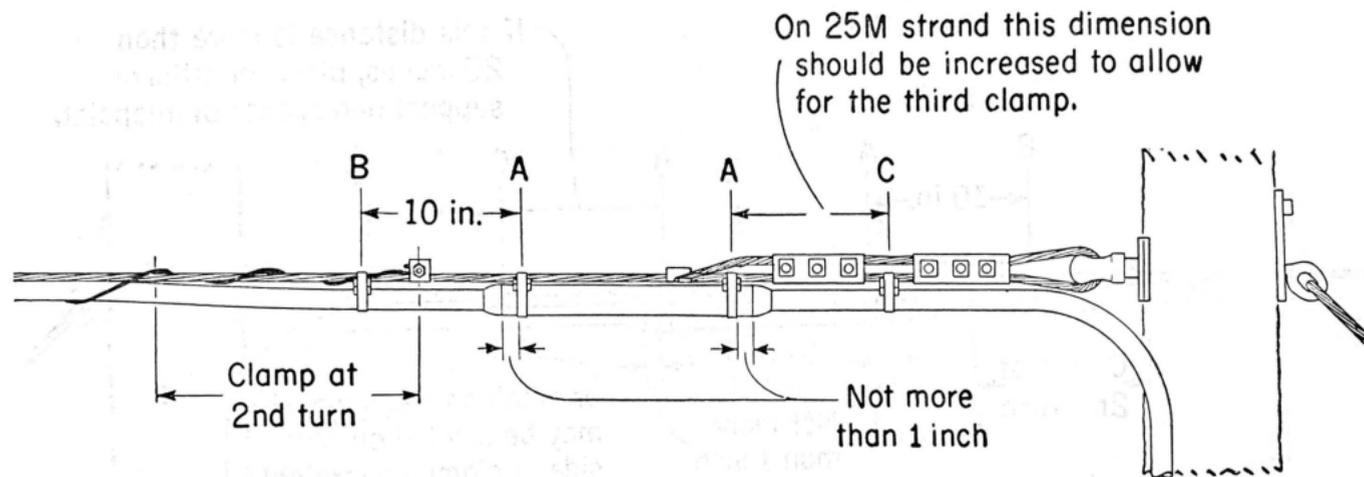
5.01 At splices at cable end poles arrange the supports as shown.

(a) On 6M and 10M Strand.



At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.
At point B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.
At point C, use lashed cable support and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.

(b) On 16M and 25M Strand.

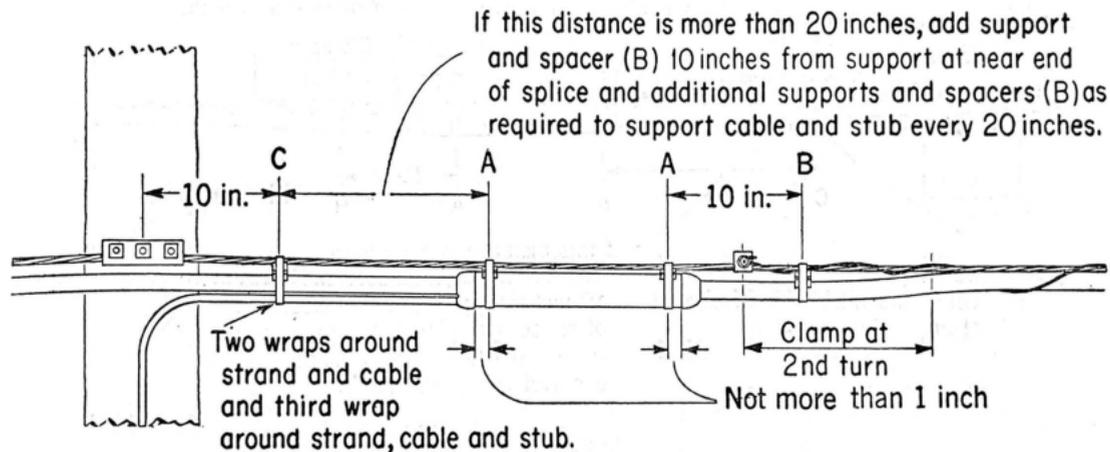


At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.
At point B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.
At point C, use lashed cable support and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.

6. TERMINAL SPLICES

6.01 At pole mounted terminals arrange the supports as shown.

(a) Line pole.



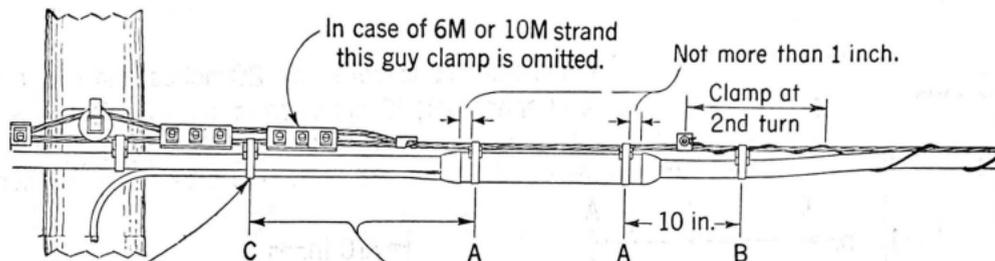
At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.

At point B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.

At point C, use lashed cable support and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.

Note: The opposite side of the pole is treated as a straight line pole.

- (b) At pole mounted terminals where a pole strand connector is used arrange the supports as shown. For 6M, 10M and 16M Strand:



Two wraps around strand and cable and third wrap around strand, cable and stub.

If this distance is more than 20 inches, add lashed cable support and spacer (B) 10 inches from support at near end of splice and additional supports and spacers (B) as required to support cable and stub every 20 inches.

At points A, use lashed cable support and $\frac{1}{4}$ inch cable spacer.

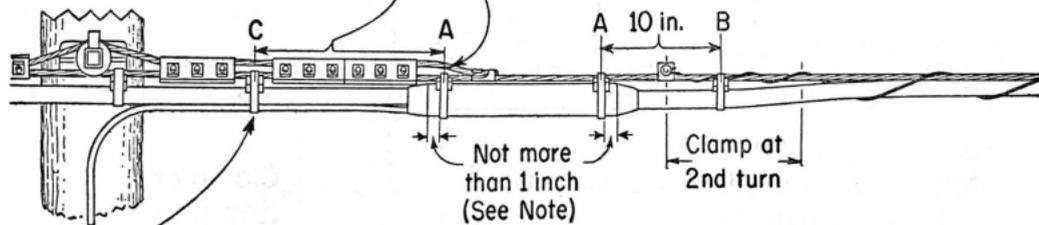
At point B, use lashed cable support and cable spacer of proper size to have cable parallel to strand between support and splice.

At point C, use lashed cable support and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.

(c) On 25M Strand.

If this distance is more than 20 inches, add lashed cable support and spacer (B) 10 inches from support at near end of splice and additional supports and spacers (B) as required to support cable and stub every 20 inches.

Note: This support may be moved toward center of splice to clear guy clamp. Use larger spacer if required.



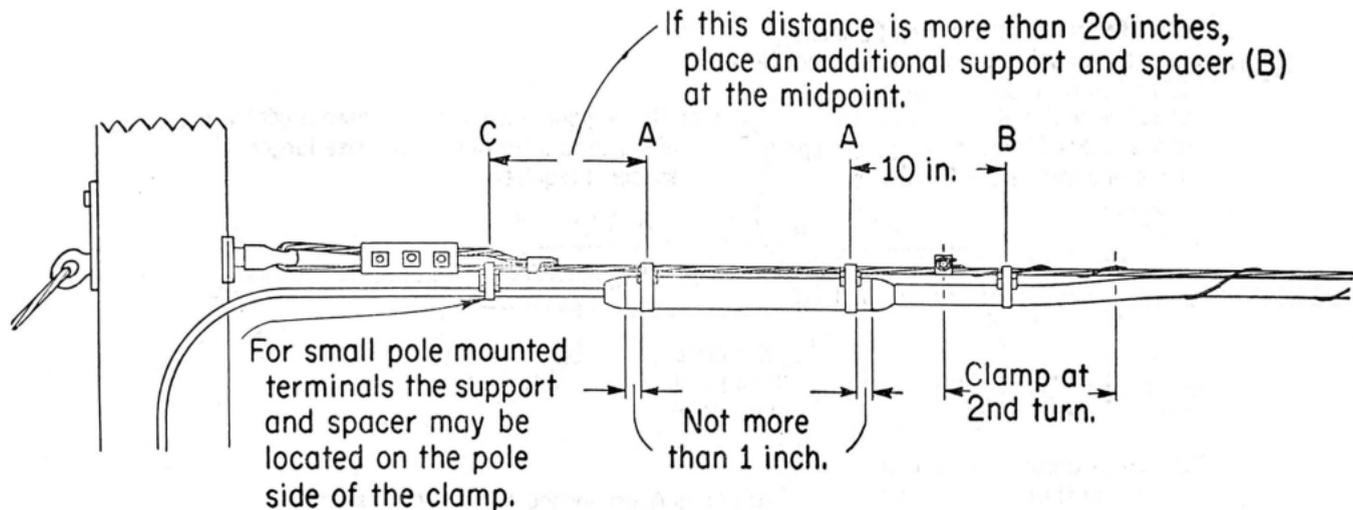
Two wraps around strand and cable and third wrap around strand, cable and stub.

At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers. (See Note.)

At point B, use lashed cable support and cable spacer of proper size to have cable parallel to strand between support and splice.

At point C, use lashed cable support and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.

(d) Dead-end pole.



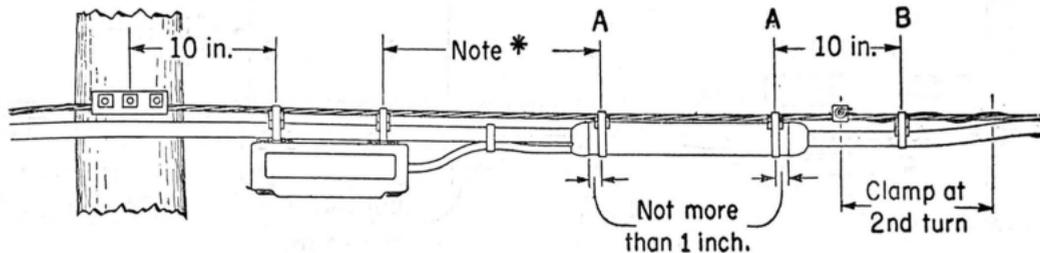
At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.

At point B, use lashed cable support and cable spacer of proper size to have cable parallel to strand between support and splice.

At point C, use lashed cable support and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.

6.02 At sheath mounted terminals arrange the supports as shown.

(a) Line pole.



At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.

At point B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.

Note *

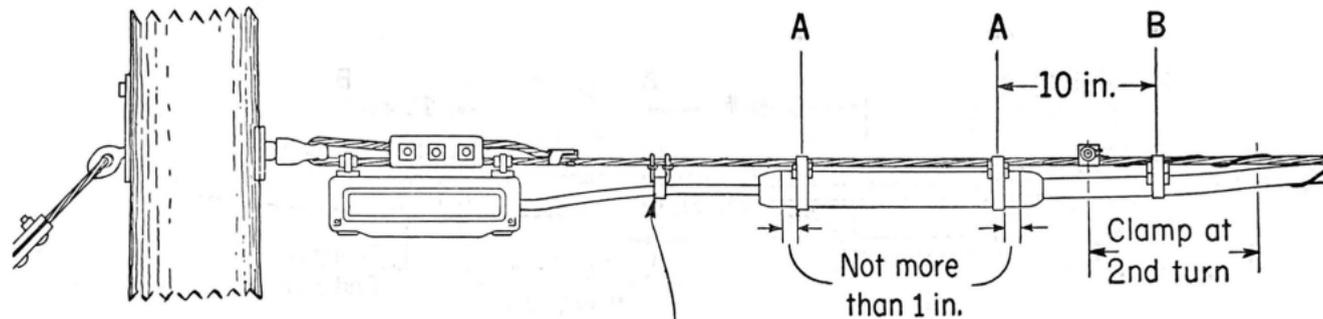
If this distance is:

- More than 20 inches - Place a lashed cable support and spacer (B) midway between terminal and splice or as required to support cable and stub every 20 inches. Two wraps around strand, cable and spacer and third wrap around strand, cable, spacer and stub.
- 20 inches or less - Place a lashed cable support midway between terminal and splice. Two wraps around cable and third wrap around cable and stub.
- 12 inches or less - Use a $\frac{1}{2}$ inch cable spacer between cable and stub and a lashed cable support.

Note:-

The opposite side of the pole is treated as a straight line pole.

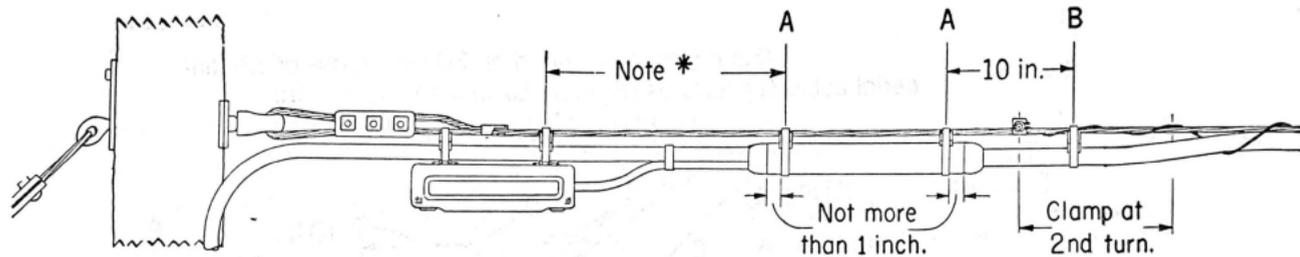
(b) Dead-end pole.



Place aerial cable support midway between terminal and splice. If distance between terminal and splice is greater than 20 inches, add aerial cable supports as required to support stub every 20 inches.

At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.
At point B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.

(c) Underground pole.



At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.
At point B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.

Note *

If this distance is:

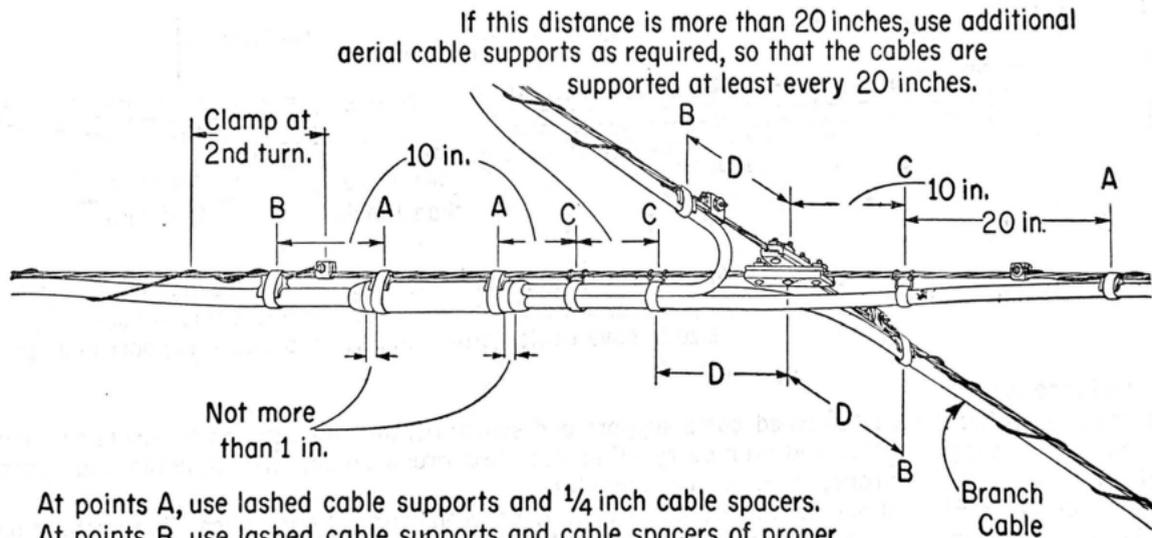
More than 20 inches - Place a lashed cable support and spacer (B) midway between terminal and splice or as required to support cable and stub every 20 inches. Two wraps around strand, cable and spacer and third wrap around strand, cable, spacer and stub.

20 inches or less - Place a lashed cable support midway between terminal and splice. Two wraps around cable and third wrap around cable and stub.

12 inches or less - Use a $\frac{1}{2}$ inch cable spacer between cable and stub and a lashed cable support.

7. CROSSOVERS

7.01 At crossovers arrange the supports as shown.



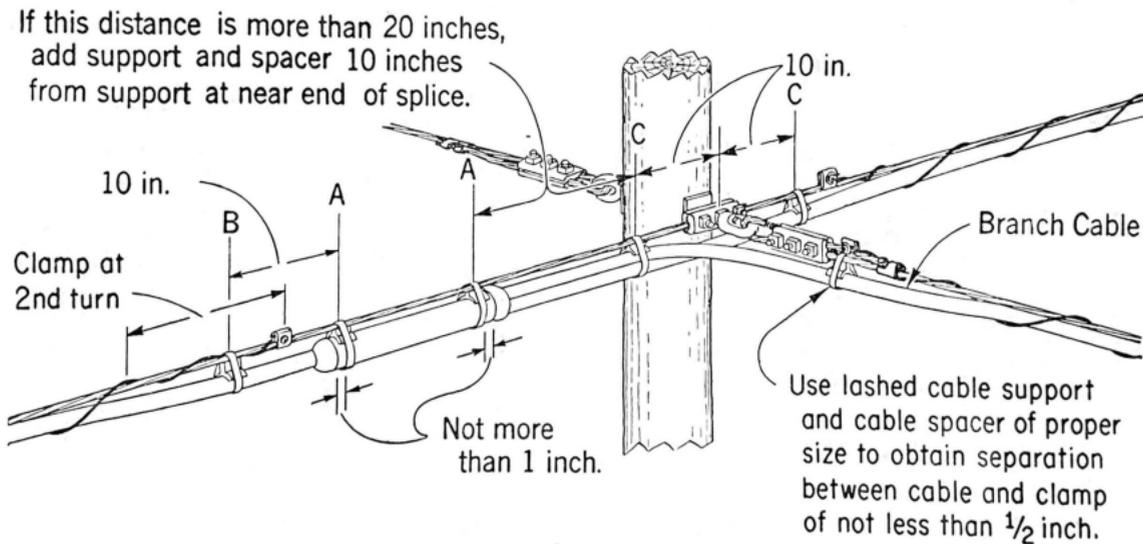
At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers.
At points B, use lashed cable supports and cable spacers of proper size to have cable parallel to strand between support and splice.

At points C, use aerial cable supports.

Distance D - Locate supports and spacers on straight portion of cable 1 inch from start of bend but not less than 10 inches from crossover bolt.

8. BRANCH CABLES

8.01 At branch cables arrange the supports as shown.



At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacers
At point B, use lashed cable support and cable spacer of proper size to have cable parallel to strand between support and splice
At points C use lashed cable supports and cable spacer of proper size to obtain separation of not less than $\frac{1}{2}$ inch and have cable in long smooth curve.