

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G51.120.3
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AT&T Co Standard

SUSPENSION STRAND
FALSE DEAD ENDING

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1. GENERAL

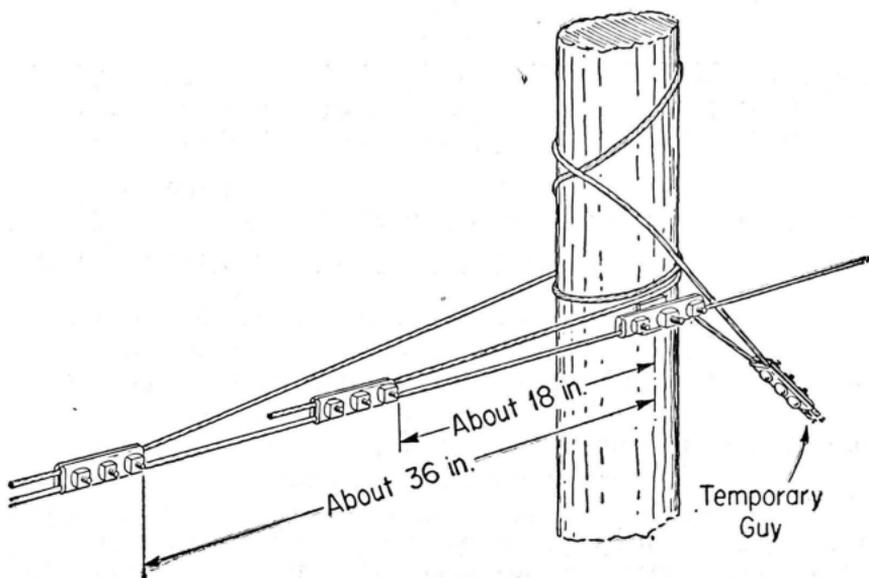
- 1.01 This section covers the methods and materials for making up false dead ends.
- 1.02 False dead ends are required at strand diminishing points and at locations where the strand is continuous but there is a large difference in strand tension such as,
- (a) where slack span construction is used
 - (b) at the junction between copper and aluminum conductor cables
 - (c) where a line changes from short span to long span construction
 - (d) at other points shown by the engineer.

2. GUY CLAMP FALSE DEAD END

- 2.01 Make a guy clamp false dead end with the size of strand shown below.

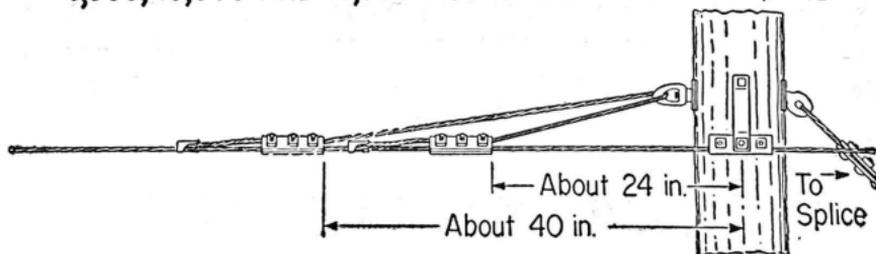
<u>Size of Larger Suspension Strand (Pounds)</u>	<u>Size of False Dead-End Strand (Pounds)</u>	<u>No. of Clamps on Each Tail of False Dead End</u>
6,000	6,000	1
10,000	10,000	1
16,000	16,000	1
25,000	16,000	2

2.02 A temporary false dead end for holding tensioned suspension strand may be made as follows:

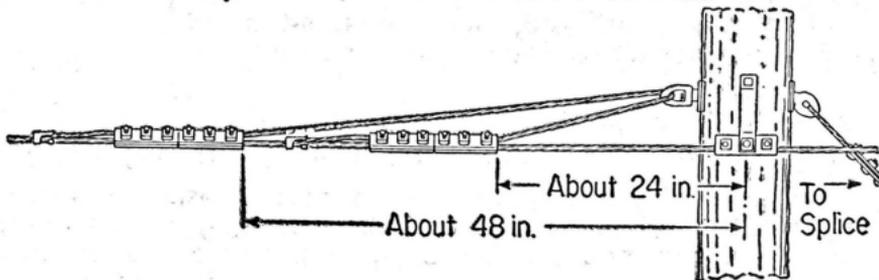


2.03 Where the strand is supported at the pole by a suspension clamp make a false dead end as follows:

6,000, 10,000 AND 16,000 POUND SUSPENSION STRAND

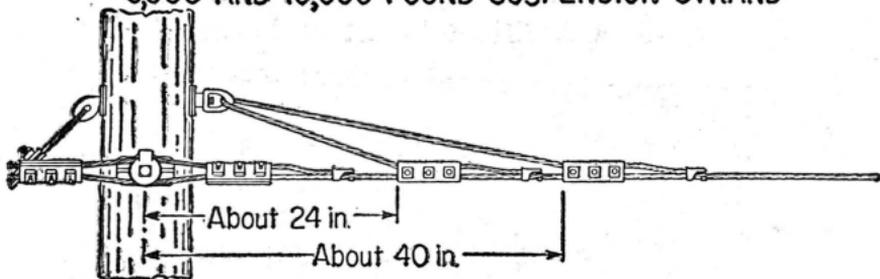


25,000 POUND SUSPENSION STRAND

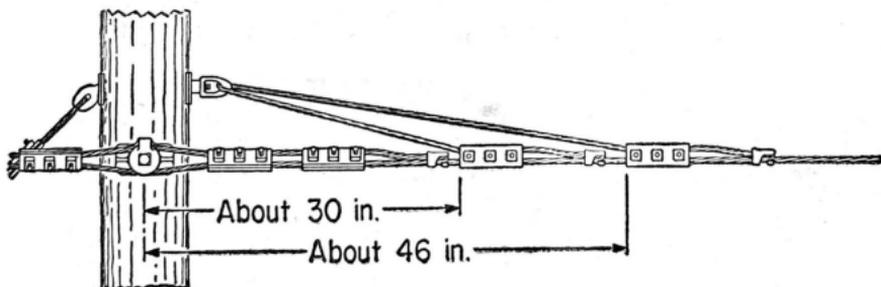


2.04 Where the strand is terminated at the pole on a pole strand connector make a false dead end as follows:

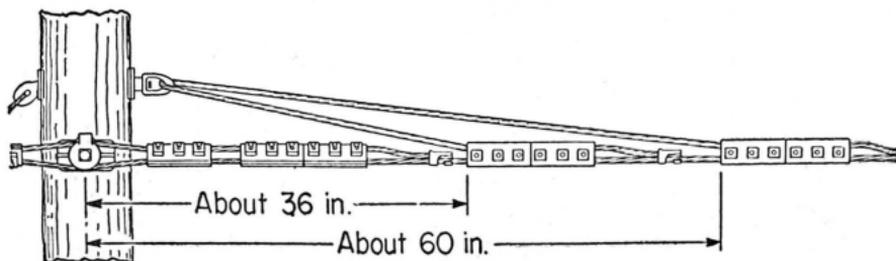
6000 AND 10,000 POUND SUSPENSION STRAND



16,000 POUND SUSPENSION STRAND

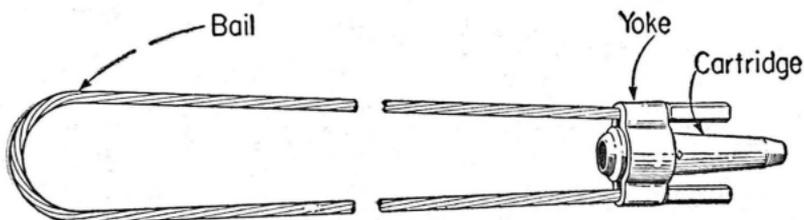


25,000 POUND SUSPENSION STRAND



3. FALSE DEAD-END STRANDVISE

3.01 The false dead-end strandvise consists of a cartridge, a yoke and a strand bail. Due to its construction it cannot be used at points where the strand is continuous.



FALSE DEAD-END STRAND VISE

The cartridge is an aluminum shell containing a spring-loaded three-jaw chuck at the tapered end for gripping the strand. A pilot cup at the outer end of the chuck prevents spreading of the strand wires and facilitates insertion of the strand.

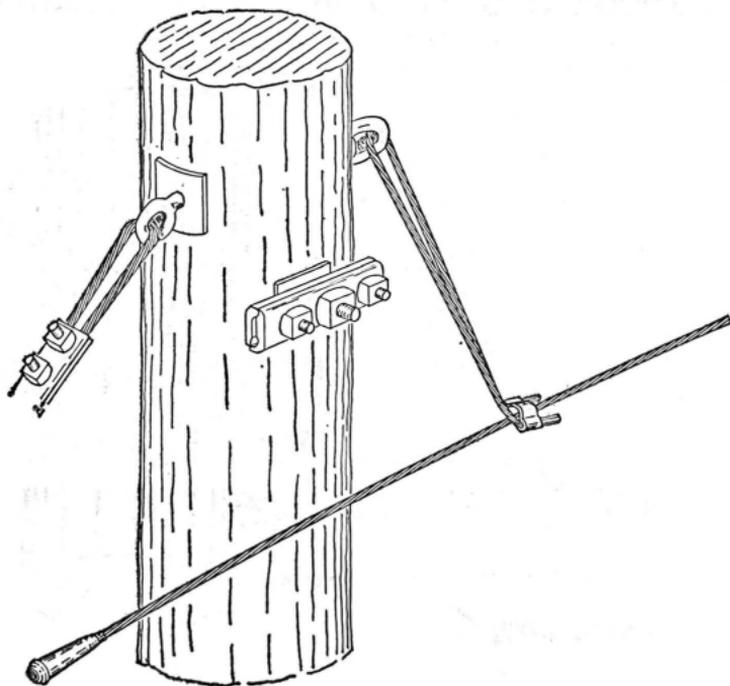
3.02 The false dead-end strandvises are available in two sizes, the 5/16 inch size for use on 6,000 pound galvanized or corrosion resistant strand and the 3/8 inch size for use on 10,000 pound galvanized strand. Do not use the 3/8 inch strandvise on corrosion resistant strand.

3.03 The strandvise should not be used in seacoast locations where extreme conditions of salt spray and salt fog may be encountered.

3.04 Corroded strand which has been inspected and is to remain in plant may be false dead ended with the strandvise. Loose rust and scale should be removed from the strand in the area in which the chuck will grip the strand.

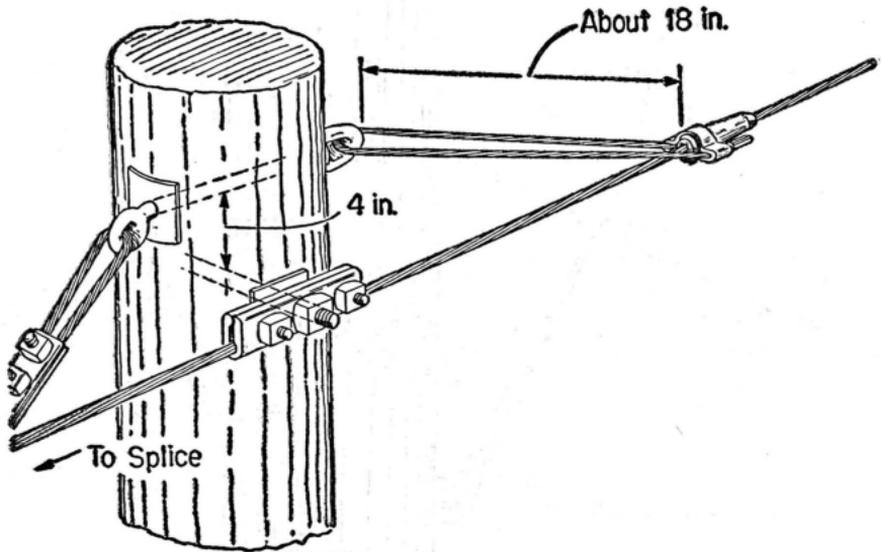
3.05 To install the false dead-end strandwise proceed as follows:

- (1) Check the strand end. If it is not cut off squarely or if it is deformed or untwisted, cut off a length sufficient to insure that strand in good condition will be placed in the strandwise. Before cutting, straighten the strand to remove coil curvature and tape it about 1/2 inch from where it is to be cut to prevent unravelling
- (2) Disassemble the strandwise cartridge, bail, and yoke
- (3) Place the yoke on the strand and the bail in the thimble eye nut and reassemble the bail and yoke
- (4) Insert the strand into the pilot cup of the cartridge and remove the tape holding the wires together.



- (5) Push the cartridge onto the strand. Do not twist the cartridge or strand or stop the forward motion of the cartridge until the strand end is completely through it. This prevents the strand wires from becoming disengaged from the pilot cup and fouling the jaws of the chuck.

(6) Push the cartridge along the strand to the desired position and place it in the yoke. When positioning the cartridge, consideration should be given to the location of the strand splice. It is desirable to locate the splice on the opposite side of the pole from the strandvise. However, in the case of an extension of existing strand, it may be necessary to locate the splice between the suspension clamp and the false dead-end strandvise.



4. TERMINALS AT FALSE DEAD-END LOCATIONS

4.01 In new construction, it is desirable to locate terminals and splice cases on the opposite side of the pole from the false dead end.

4.02 Where it is necessary to place a false dead end on an existing strand and there is a terminal or splice case present which may interfere with the placing of a false dead-end strandvise, use a guy clamp false dead end and vary the spacings of the guy clamps as necessary to clear the terminal or case.