

AERIAL CABLE
SPANS WITHOUT STRAND

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1. GENERAL

1.01 This section covers the placing of PIC cable in slack spans without a supporting strand. Hardware, procedures and clearances for Multiple Drop Wire shall be used in constructing the unsupported span. The balance of the cable shall be placed in accordance with Aerial Cable Practices i.e., lashed, clamped, strapped or supported.

2. RESTRICTIONS

- 2.01 Its use shall be confined to light loading areas in spans of 65' or less.
- 2.02 Cable size shall be limited to 0.3 pounds per foot or 0.40 to 0.70 inches in diameter.
- 2.03 Only one cable shall be supported by any attachments.
- 2.04 May be placed over alleys but not over streets or highways.

3. PRECAUTIONS

- 3.01 Do not place a ladder against a slack span not supported by a strand.
- 3.02 Do not attach to questionable wood or metal utility fixtures, eave brackets, privately owned poles, etc.

4. PLACING MULTIPLE DROP WIRE CLAMPS

4.01 In placing the Multiple Drop Wire Clamp on the cable, press the cable well into one-half of the shell at the desired location before placing the other half. In some cases, the wedge, though firmly seated, may not engage the last two tabs.

5. SPLICE LOCATIONS

- 5.01 Use existing splices where possible and follow cable splicing practices for new sheath openings.
- 5.02 Sheath openings shall not be made in the slack span.

6. SAG

6.01 Place self-supporting spans with the following sags:

<u>Span Length</u> <u>Feet</u>	<u>Minimum Sag</u> <u>Inches</u>
20	6
30	8
40	12
50	18
65	27

NOTE: Avoid pulling the main cable out of line by increasing the sag slightly when a span clamp is used.

7. BALANCING LOADS

- 7.01 If several cables are in the same general direction without balancing loads on the other side, special measures may be necessary to relieve the condition.
- 7.02 Only those wires and cables more than 45° from the line of the main cable need be considered when computing the unbalance on a pole.

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7.03 Load on the pole shall include side load attachments on one-half of the adjacent spans, and maximum unbalance shall be as follows:

- (a) Dead end poles 500 pounds
- (b) Line poles 1000 pounds

7.04 To figure the unbalance, determine the load on both sides of the pole using

the following table. The difference is the unbalance.

*Slack span with strand	800 pounds
Slack span without strand	100 pounds
Multiple Drop Wire	100 pounds
Single Drop Wire	30 pounds

*500 pounds when placed with double sag.

7.05 Where allowable loads will be exceeded, refer to your supervisor.