

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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CABLE DANCING— **SINGLE CABLE LINES** **SPIRALING METHOD**

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1. GENERAL

1.01 This section covers a method of reducing or preventing dancing on single aerial cable lines by spiraling the cable around the strand in the span.

1.02 This method is applicable to lashed cables only.

1.03 Spiraling is intended to break up the uniform cross-section of the lashed cable and strand and, therefore, to cause wind forces responsible for dancing to cancel out.

1.04 Do not ride spiraled cables. Work operations should be performed from an extension ladder, truck mounted platform ladder or the cable may be unspiraled and then ridden.

1.05 Where dancing has been observed or where inspections reveal that dancing has occurred and conditions are indicative of plant damage if preventive measures are not taken, the cable and strand may be spiraled as authorized.

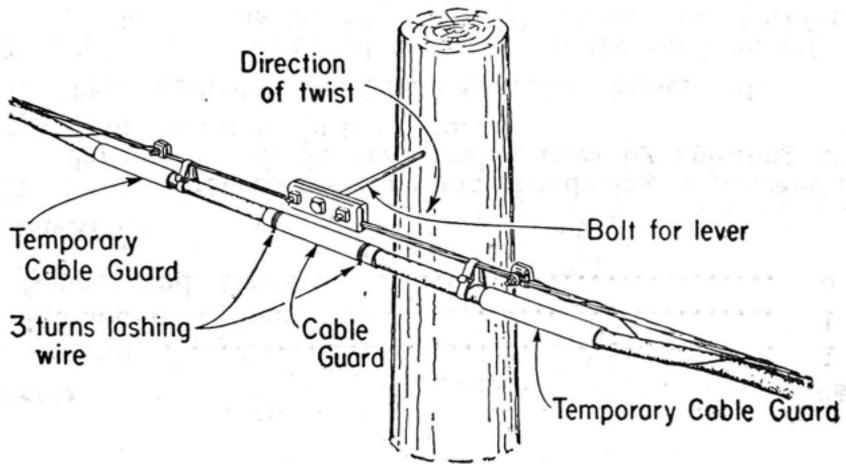
2. METHOD OF SPIRALING

2.01 Two adjacent spans are spiraled at the same time by performing the operations at the middle pole.

2.02 The operations are as follows:

- (1) Remove and temporarily support drops and other span attachments.

- (2) Place a permanent cable guard around the cable under the cable suspension clamp and temporary guards under the cable lashing clamps.
- (3) Support the cable with truck mounted derrick and winch line, block and tackle or other means which will support the weight and allow the cable and strand to be lowered as much as necessary.
- (4) Remove the cable suspension clamp from the supporting bolt and lower the assembly until it is unsupported at the middle pole.
- (5) Place a cable suspension or crossarm bolt in the center hole of the clamp and, using the bolt as a lever, twist the cable and strand until the length of the spirals in the shorter span is about 20 feet. Twist the assembly so that the cable will tend to bear toward the pole when reattached.



- (6) Support the assembly to prevent untwisting, raise it, and reattach the clamp to the suspension bolt. Remove temporary cable guards.
 - (7) Replace any span attachments.
- 2.03 Where required, place the lever bolt in a temporary suspension clamp fastened adjacent to the permanent clamp to avoid pole interference during the spiraling operation.

3. SPLICES AND TERMINALS

3.01 Spiraling operations can not be performed at pole mounted terminal locations or in spans containing branch cable splices.

3.02 If care is exercised to prevent damage to the terminal, stub and splice, cable may be spiraled at strand mounted terminal locations. However, it is advisable to plan jobs to avoid doing the work operations at these locations whenever practicable.

3.03 Straight splices will not affect the spiraling operation.