

SPAN CLAMPS—STRAND ATTACHMENTS

1. GENERAL

1.01 This practice describes the use and installation of the universal span clamp and methods of running drop wire from the span clamp to the pole. The uses and methods of placing other types of span clamps are quite similar to those of the universal span clamp.

1.02 Span clamps are used only when it is impractical to serve the customer directly from the pole, guard arm or cable arm in the normal manner. Some of the conditions which require the use of a span clamp are:

- a. To prevent drop wires from crossing each other on the span.
- b. To avoid crossing private property other than the property being served. Span clamps shall be placed on property lines wherever possible.
- c. To avoid tree interference in pole to building runs.
- d. To provide pole climbing space.
- e. To avoid buildings and other obstacles.
- f. To obtain clearance from clotheslines, power service drops and other obstacles.

1.03 The following limiting conditions should be observed in placing span clamps:

- a. Bronze strand is used in corrosive areas. Never use a universal strand clamp with bronze strand; use a bronze strand clamp instead.
- b. Where a span clamp is required to provide climbing space on a jointly used pole, and where there is a cable splice, place the span clamp on the side of the pole opposite the cable splice.
- c. When a span clamp must be placed on the splice side of a pole to provide climbing space, place the span clamp wherever convenient to maintain a distance of 30 inches from the pole, but never directly over the splice.

2. INSTALLATION PROCEDURES

2.01 Universal span clamps may be used on lashed (figure eight) and ring supported cable. A clamp shall not support more than two drop wires at one time.

2.02 The following procedure is used to place span clamps:

- a. Loosen the nut of the clamp until the jaws open sufficiently to place the clamp on the strand.
- b. Place the clamp on the strand between the wrappings of prepared lashed cable, with the hook side of the clamp facing the building to be served. The sheath of lashed cable is protected with a lashed cable support placed as described in paragraph 2.03.
- c. Take up on the nut until the clamp is firmly bolted to the strand.

2.03 A lashed cable support is placed on the sheath of lashed cable as follows:

- a. The cable support buckle is held as close to the span clamp as possible.
- b. The first wrap of the support is placed on the cable only, passed between the lashing wire and the cable and through the buckle.
- c. The second wrap is placed under the strap and over the lashing wire and the wrap threaded through the buckle.
- d. *The wrapping is snugly pulled around the cable, the free end bent back on the buckle and the excess cut off, leaving approximately one inch. The tail should be tucked under the buckle.*

2.04 Figures 1 and 2 illustrate the universal span clamp installed on lashed or figure eight cable.

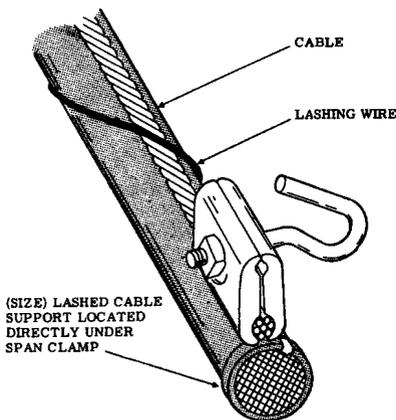


FIGURE 1. Lashed Cable

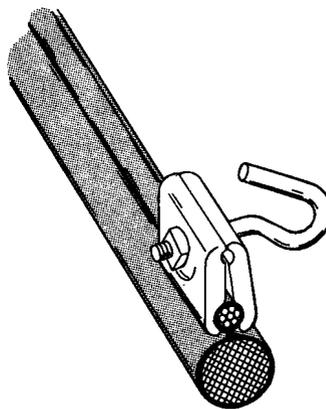


FIGURE 2. Figure Eight Cable

3. RUNNING DROP WIRE TO SPAN CLAMP

- 3.01 Since two drop wires per span clamp are the maximum, place the second strand clamp 4 inches beyond the first when 3 drop wires are required. This spacing of clamps will prevent chafing of the drop wires. If more than 4 drop wires are required from a pole to pole or strand to building run, report it to your supervisor.
- 3.02 Where a span clamp is more than 4 feet from the pole, support the drop wire as shown in Figure 3. The drop wire clamp on the span to the building shall be attached in the top position clearance between the drop wire and cable.
- 3.03 Where the distance between a span clamp and cable suspension bolt is less than 4 feet, the drop wire is supported as shown in Figures 4 and 5.

3.04 Where drop wires are run from guard arms to span clamps, support the drop wire as shown in Figure 6.

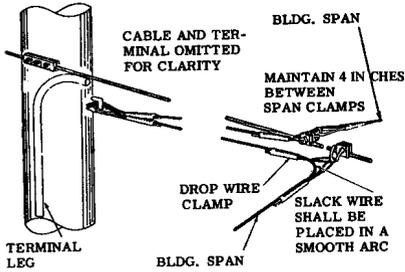


FIGURE 3. Span Clamp More Than 4 Feet From Pole

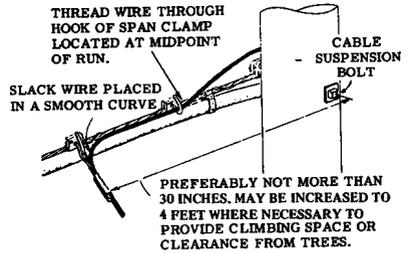


FIGURE 4. On Lashed Cable

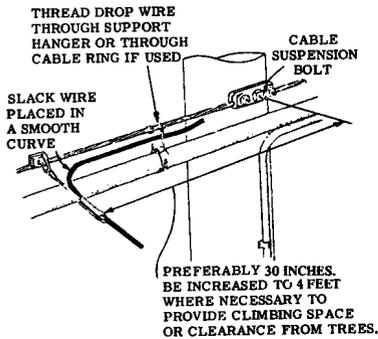


FIGURE 5. On Ring Cable

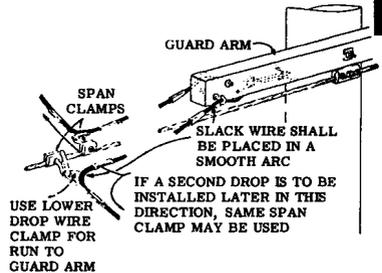


FIGURE 6. Runs From Guard Arms To Span Clamp