

**BELL SYSTEM PRACTICES**

**Outside Plant Construction  
and Maintenance**

**ADDENDUM G31.110**

**Issue 1, November, 1936**

**AT&T Co. Standard**

## **OPEN WIRE STRINGING WIRE**

### **GENERAL**

This addendum provides additional precautions to be taken when stringing bare wire under electric light or power wires and should be considered supplementary to the instructions provided for in Section G31.110, Issue 1.

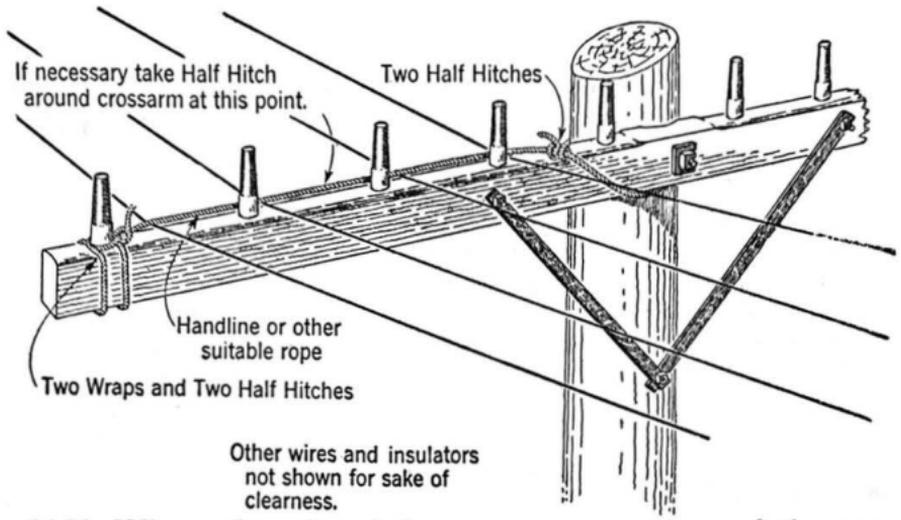
### **13. STRINGING WIRES UNDER ELECTRIC LIGHT OR POWER WIRES**

13.01 In stringing wires under electric light or power wires, certain precautions should be observed, particularly where there is an up pull on the telephone wires. This may occur at a crossing; on a jointly used line; or where the telephone line is overbuilt by a power line. In some cases where there is normally no up pull on the wires, a wire may catch on some part of the pole structure, below its final position, creating an up pull which upon sudden release under tension, may cause it to snap up into contact with the power wires above unless precautions are taken to prevent it.

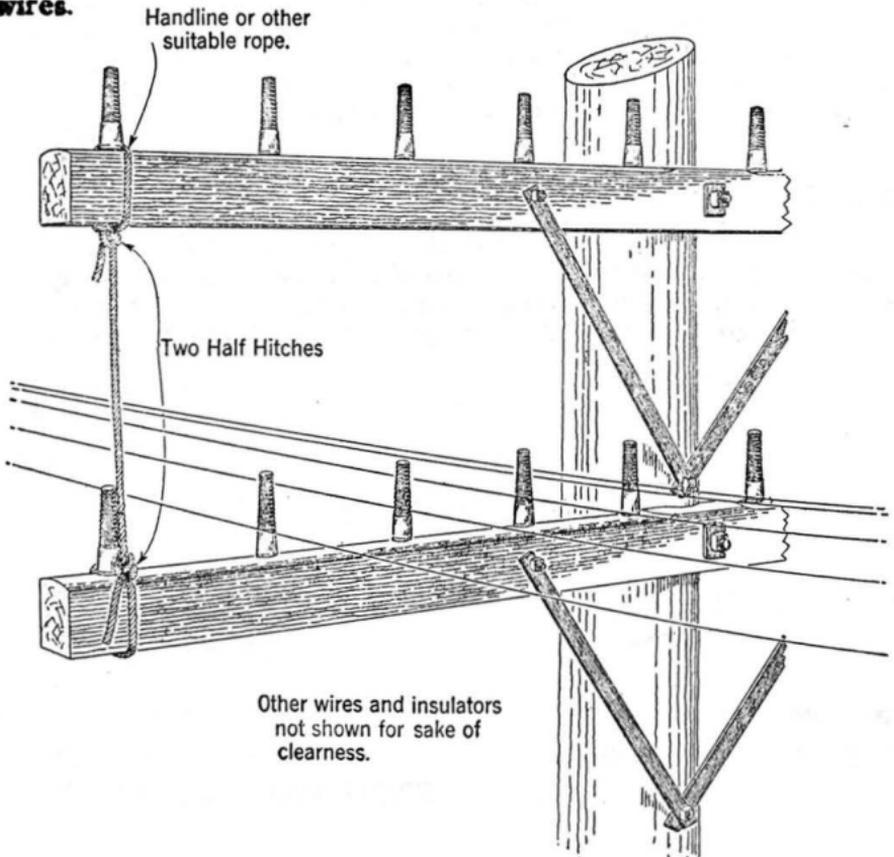
### **14. PRECAUTIONS**

14.01 When wires are to be strung in a span where power wires other than secondary service drops cross above the telephone line, arrangements should be made, if practicable, so that the pull, including the crossing span, will be short, preferably such that the entire operation is within view and in control of the foreman in charge.

14.02 Precautions should be taken to keep the wires close to the crossarm on the two poles of the span crossing under the power wires under all conditions. If the wires being strung are on the top crossarm, one method of accomplishing this is shown below.



**14.03** Where the wires being strung are on one of the arms below the top, use the following method to prevent them from snapping up and making contact with the power wires.



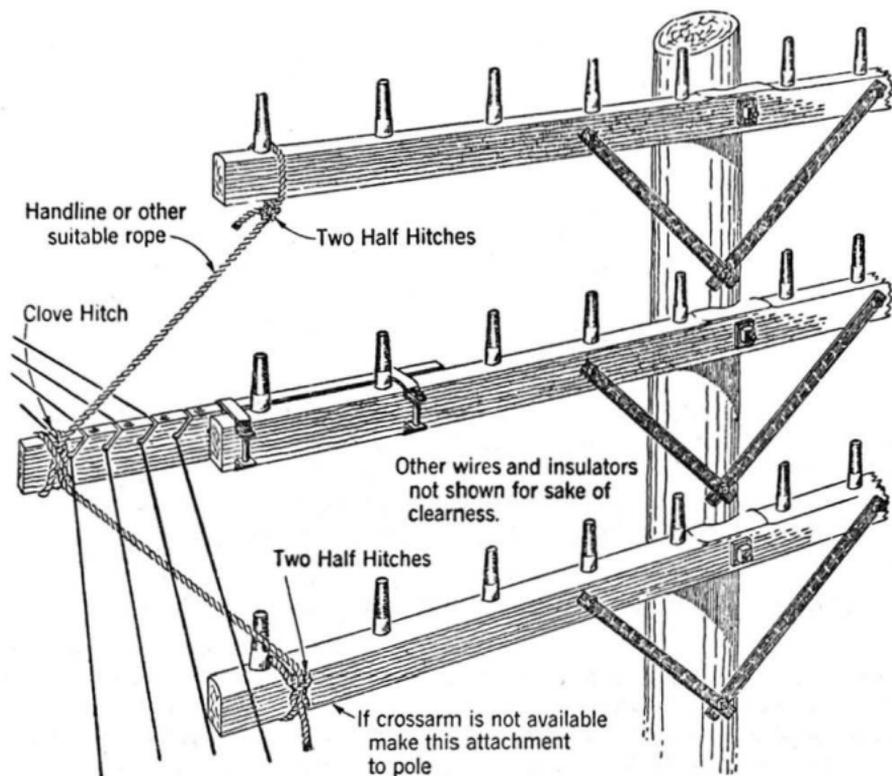
14.04 Where wires are being strung on a section of line occupied jointly with power circuits in the upper position or where a power line overbuilds the telephone line, precautions should be taken when stringing wire to hold down the wires being strung at each pole where there is a change of grade upward, as otherwise the wires will tend to rise and this in some cases might bring the wires into contact with the power wires.

14.05 Use one of the methods illustrated above at each low pole to prevent the wires from rising above their normal position, and these or other suitable means should be utilized to prevent possible contacts between wire being strung and power wires wherever the conditions indicate that such precautions are required.

14.06 On jointly used lines, where wires might slack down temporarily and catch under branches or trees below the line, such locations should be observed closely and precautions taken so that the wires will not whip up into the power wires above upon being released. Ease sleeve connections over crossarms or other obstructions to prevent the wire catching with resultant abnormal tension being introduced in the wire. This is especially important where the smaller sizes of wire are being placed, as the wire might become broken and snap up into the power wires.

14.07 Place the truck or other pulling equipment so that the pull can be stopped promptly when desired.

14.08 Where the wires are being strung on extension arms and a possibility of contact with power wires exists, as previously described, place ropes as shown below to hold the wires down and also to prevent movement of the ends of the extension arms, particularly when there is an up pull.



**14.09** In cases where there is a sharp change of grade upward at a pole with a crossing of power wires above, place the pay-out reels at the foot of the pole and pull the wires in both directions from this point.