

C RURAL WIRE
GENERAL

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1. GENERAL

1.01 This section and Section G34.801.2 cover information formerly included in Section G34.120.2. This section is issued to separate the general information from the specific placing instructions and to cover requirements which apply in California only.

2. DESCRIPTION AND USE

2.01 C Rural Wire is a self-supporting, insulated paired wire. It consists of two parallel No. 14 AWG, 30% conductivity, extra high strength copper-steel conductors insulated with polyethylene. A single ridge is molded in the insulation to provide conductor identification. The wire weighs approximately 35 pounds per 1,000 feet and has a breaking strength of 1,100 pounds.

2.02 C Rural Wire may be used in spans up to 350 feet, 550 feet, and 600 feet in the heavy, medium and light storm loading areas, respectively. It

shall not be used in place of drop wire for the span between a pole and a building.

3. PRECAUTIONS

3.01 Observe the safety precautions contained in the G10 Division concerning safeguards before climbing or working on poles.

3.02 The following precautions shall be observed when placing C Rural Wire on joint use poles, at power line crossings, and in any situation involving electric induction from power lines:

(a) Joint Use Construction:

- (1) Before placing the initial section of wire when placing from a moving reel, or before sagging when placed from a stationary reel, connect both conductors to a grounded metallic cable sheath or to a metallic public water system, if either is available.
- (2) If neither of these effective grounds is available, connect the conductors to a ground as specified in Paragraph 3.02(c) (2) to reduce the effects of electrical induction.
- (3) Additional sections of wire shall be grounded either as indicated for the initial section or by bonding the conductors of both sections.
- (4) Adequate precautions shall be taken such as covered in Section G31.090.3 covering Wire Stringing Precautions, Lines in Joint Use or Near Power Wires, to prevent the wire from contacting power conductors.
- (5) Rubber gloves shall be worn during stringing and sagging operations and during the operation of grounding the conductors when the wire has been placed from a stationary reel.

(b) Power Crossings:

Temporary ties or supports as covered in Section G31.090.2, Wire Stringing Precautions, Electric Light or Power Crossings, shall be used to prevent contact with the electric conductors in the crossing span. Rubber gloves shall be worn during stringing and sagging operations.

(c) Electric Induction from Power Lines:

(1) In joint use construction or in non-joint use construction where electric induction is sufficient to require drainage, the precautions contained in Paragraph 3.02(a) will also serve to reduce the effects of electrical induction.

(2) Where effective grounds as specified in Paragraph 3.02(a) (1) are not available, connection of the conductors to grounds such as anchor rods, down guys, or ground rods should be made to reduce the effects of electrical induction.

3.03 The polyethylene insulation on C Rural Wire has low crushing strength; therefore, the wire should be handled carefully when pulled over drive hooks or other small radius supports while it is under tension. If the wire must be placed where it will come into contact with tree branches larger than 3/4 inch in diameter, it should be protected by P Wire Guards.

3.04 Vehicular traffic should not be allowed to pass over wires during placing operations. The wire should be suspended temporarily above roads, driveways, etc., or adequately protected by planks or other means to prevent damage to the conductor insulation.

4. CLEARANCES

4.01 Consider C Rural Wire as cable when determining required ground clearances and separation from other plant.

5. GUYING

5.01 Guy C Rural Wire in accordance with the instructions contained in Section G23.120.2, Guying of Insulated Wires.