

## MULTIPLE DROP WIRE PLACEMENT

### 1. GENERAL

1.01 This section covers methods for placing multiple drop wire in spans and on building walls.

### 2. MULTIPLE DROP WIRE RUNS ON BUILDINGS (Fig. 1)

2.01 **First Building Attachment:** Use a drop wire hook as the first building attachment for multiple drop wire in pole-to-house spans. Attach hook to masonry walls with 5/16 by 1-3/4 inch hammer drive anchor; and to wood, stucco on wood, and metal on wood walls with No. 18 RH galvanized wood screw 2-1/2 inches or longer. The screw should penetrate the house studding at least 1-1/4 inch. Only one multiple drop wire should be supported on a drop wire hook.

2.02 **Second Building Attachment:** Clamp the cable to the wall close to the drop wire hook attachment with a No. 9 cable clamp. Attach clamp to walls as follows:

Wood walls—1-1/2 inch No. 14 galvanized RH wood screws

Masonry walls—1/4- by 1-inch hammer drive anchor

Stucco on wood }  
Metal on wood } 2-inch No. 14 galvanized  
Rigid composition } RH wood screw

2.03 **Intermediate Building Attachments:** Use 5/8-inch drive rings about 3 feet apart as intermediate attachments. It will be necessary to spread the opening in the rings slightly in order to insert the multiple drop wire.

2.04 **Last Building Attachment:** Place a No. 9 cable clamp on the multiple drop wire 6 inches from point of entrance to protector, wire terminal, or building after pulling the wire taut in the ring run. Attach clamp to wall as indicated in 2.02.

2.05 The multiple drop wire may be terminated in 6-pair wire terminal or 6-pair protector on the outside wall or inside the building.

### 3. PLACING D DROP WIRE CLAMPS ON MULTIPLE DROP WIRE

3.01 The D clamp is designed primarily for use on multiple drop wire. It consists of two identical semicircular shells and two flat wedges held together by a tail wire.

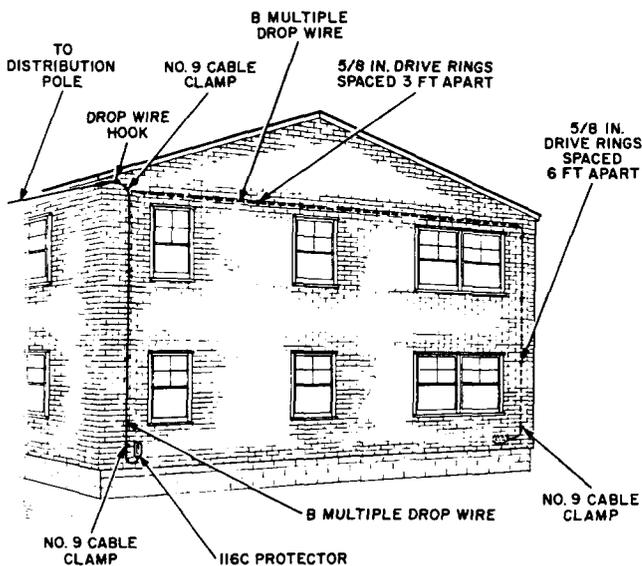
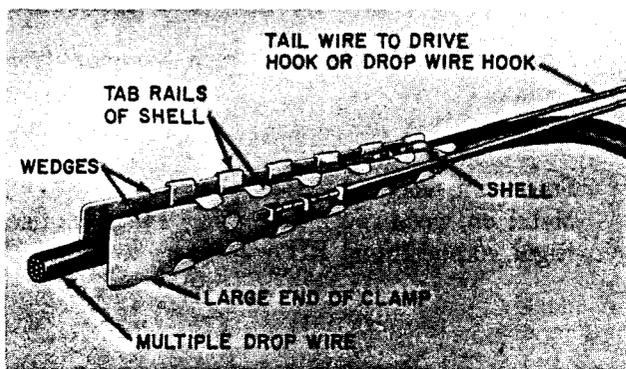


Fig. 1—Complete Wire Run on Building

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**3.02** Install the clamp on the wire in the following manner:

- (1) Interlock the two shells on the wire with the large ends toward the span.
- (2) Press the shells together and slide the wedges into the tab rails on the sides of the shells. Tap the wedges with pliers to seat them firmly.
- (3) Place the tail wire over the drive hook or drop wire hook (Fig. 2).



**Fig. 2—D Drop Wire Clamp Assembled on Wire**

### **4. TERMINATING MULTIPLE DROP WIRE IN CABLE TERMINALS**

**4.01** Remove the outer jacket and glass yarn tape back to the first of the three drive or bridle rings associated with a pole- or wall-mounted terminal. For sheath-mounted terminals, stop jacket at terminal wiring ring nearest the pole. Fan out the pairs, run them through the rings, and terminate them in the terminal in the manner followed for block wire.

### **5. TERMINATING MULTIPLE DROP WIRE IN 116-TYPE PROTECTORS**

**5.01** The 116C protector can be used with multiple or individual drop wires. It contains twelve

2A1A or 2B2-type protector units, six pairs of line terminals, and two terminals for signal ground connections.

**5.02** The 116A (MD) protector is equipped with a housing which is similar to that of the 10-pair N-type distribution terminals.

**5.03** Insert the multiple wire or separate drop wire into either end of the protector as desired. It will greatly facilitate conductor terminations if the end of the wire is stripped of its outer jacket before inserting the wire into the protector housing.

**5.04** All drop wire conductors should be terminated during the initial installation. Place the individual wires under the bottom nut of each binding post. Station wires entering the protector through the wire holes are terminated between the washers below the top nut. The signaling ground terminals are bonded internally to the protector ground terminal.

### **6. INSTALLING 60-TYPE FUSES ON 116-TYPE PROTECTORS**

**6.01** Sneak current fuses, when specified, may be added to the 116-type protector. A 14A fuse holder is used to mount the 60-type fuse on the protector.

### **7. TERMINATING MULTIPLE DROP WIRE IN 104B WIRE TERMINALS**

**7.01** A 6-pair wire terminal similar in design to the 116C protector is used where station protectors are not required. The terminal block is similar to the block in the 116C protector except for the omission of the protector units and ground clamp. The wiring of the wire terminal will be the same as for the 116C protector, except, that the ground wire connection when required for station ringers is made on one of the ground posts. Use a No. 14 ground wire for this purpose.