BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G32.114.3
Issue 2, February, 1954
AT&T Co Standard

DROP AND BLOCK WIRING
INSTALLING DRIVE AND BRIDLE RINGS AND INSULATED SCREW EYES ON BUILDINGS

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1. GENERAL

1.01 This section replaces Issue 1 and covers the placing of drive rings, bridle rings and insulated screw eyes on building walls.

1.02 The reason for reissuing this section is the standardization of the new 5/8″ L, 7/8″ L and 1-1/4″ L drive rings. These new rings are equipped with nails 1/2″ longer than those in the regular 5/8″, 7/8″ and 1-1/4″ rings. They are intended for use on building walls covered with thick siding materials through which adequate penetration can not be obtained with regular rings.

2. WIRE CARRYING CAPACITIES OF DRIVE RINGS, BRIDLE RINGS AND INSULATED SCREW EYES

2.01 The wire carrying capacities of the various sizes of drive and bridle rings and screw eyes in terms of standard neoprene-jacketed drop and block wires are as follows:

Size and Type of Ring or Eye	Maximum Number of Wires NP or C Drop Wire	HD Wire	Block Wire
5/8" and 5/8" L Drive Rings	6	4	9
7/8" and 7/8" L Drive Rings	16	11	22
1-1/4" and 1-1/4" L Drive Rings	30	18	40
E Bridle Ring	6	4	9
C or M Bridle Ring	16	11	22
A Bridle Ring	30	18	40
5/8" Insulated Screw Eye	4	3	7
1" Insulated Screw Eye	10	6	16

3. INSTALLING DRIVE RINGS AND BRIDLE RINGS

3.01 Drive rings should be used wherever metal rings are permitted by the Practices. Bridle rings may, however, be substituted for drive rings under the following conditions.

(a) Where point of drive ring nail would extend beyond the wood frame of a building contractor's shanty, etc.

(b) Where it is likely that clothing would catch on drive rings installed in narrow passageways, alleys, etc.

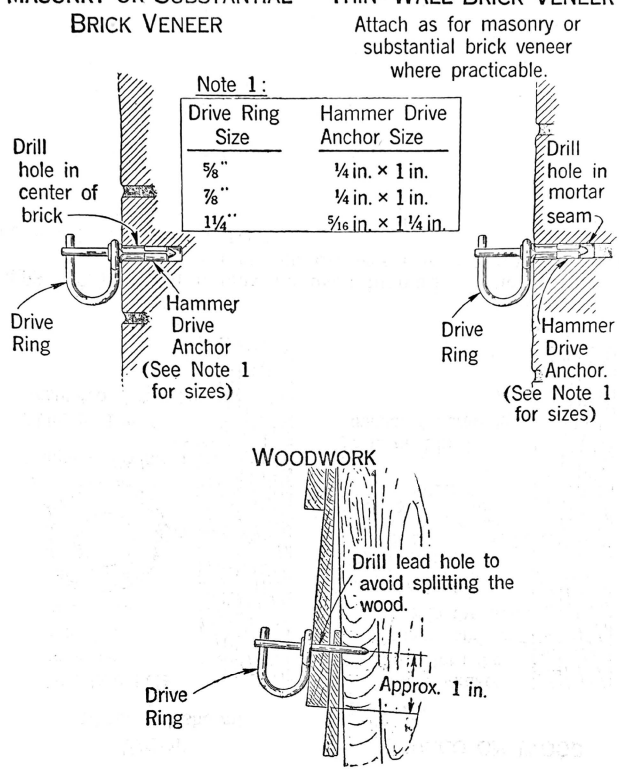
(c) Where property owner objects to drive rings.

(d) Where drive rings are likely to split woodwork.

(e) In situations where bridle rings can be used to better advantage than drive rings.

3.02 **Install E, C and A Bridle Rings** on masonry and brick veneer in 10-14 x 1 inch, Screw Anchors. The E Bridle Ring may be placed in a 6-8 x 3/4 Screw Anchor where it is advisable to drill a smaller hole.

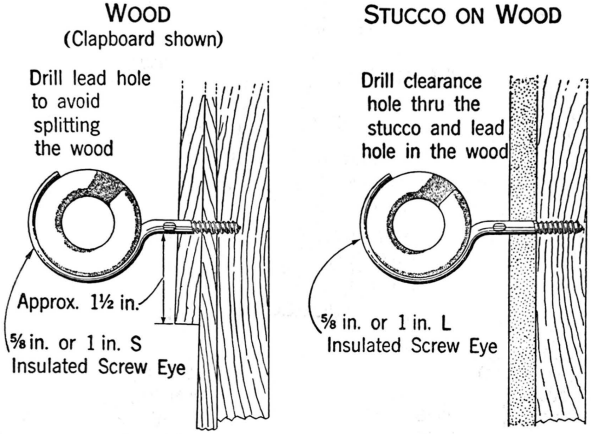
3.03 **Install Hammer Drive Rings** as illustrated below.



4. INSTALLING INSULATED SCREW EYES

4.01 Insulated screw eyes should be used in place of drive rings or bridle rings in accordance with the instructions in the section covering "Drop Wire Runs on Buildings."

4.02 Typical installations of insulated screw eyes are shown below:

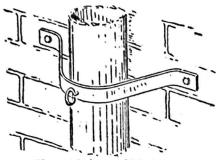


4.03 The C Knob may be used instead of the L Insulated Screw Eye on stucco on wood where not more than two wires are to be placed.

5. INSTALLING W LEADER BRACKET

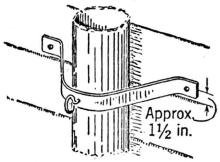
5.01 The methods for installing the W Leader Bracket on various types of wall are indicated in the following illustrations.

MASONRY OR SUBSTANTIAL BRICK VENEER



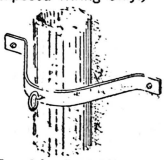
Two ¼ in. x 1¼ in. Hammer Drive Anchors.

WOODWORK - Clapboard shown (Unexposed Wiring Only.)



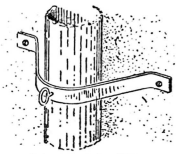
Two 1½ in. #14 RH Galv. Wood Screws.

STUCCO ON WOOD (Unexposed Wiring Only.)



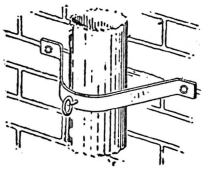
Two 2 in. #14 RH Galv. Wood Screws.

HOLLOW TILE (Stucco Covered.)



Two ¼ in. × 3 in. or 4 in. RH Toggle Bolts.

THIN-WALL BRICK VENEER
Attach as for masonry, when practicable.



Two ¼ in. × 1¼ in. Hammer Drive Anchors shown. Where wiring is unexposed, #14 RH Galv. Wood Screw of length sufficient to penetrate wood sheathing approx. 1 in. may be used, if necessary.

Bracket will adequately clear obstructions extending five in. from wall surface.