

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G32.162.1
Issue 1, February, 1952
AT&T Co Standard

DROP AND BLOCK WIRING

MECHANICAL PROTECTION OF WIRES

ON BUILDINGS

Contents	Page
1. General	1
2. Protecting Wires at Building Projections, Overhangs and Gutters	2
3. Protecting Wires Passing Through Metal Gratings	4
4. Protecting Wires Crossing Down Spouts	4
5. Protecting Wires Crossing Electric Service Wires or Radio Wires	6
6. Protecting Wires Crossing Foreign Cables, Metal Conduits, Open Signal Wires or Ground Wires	7
7. Protecting Unexposed Wires Crossing Exposed Wires	8

1. GENERAL

1.01 This section replaces Section G32.162, Issue 1. It covers the use of wire guards as protection for drop and block wiring on buildings where required for mechanical and electrical reasons.

1.02 The recommended minimum separations between telephone wires and foreign conductors or metallic objects are covered in the section on Separations for Drop and Block Wiring.

1.03 Protect drop and block wires on building as covered in this section under the following conditions.

(a) Where wire runs are subject to mechanical damage as in crossing stone cornices, building projections, overhangs or similar obstructions and passing through metallic gratings.

6351051

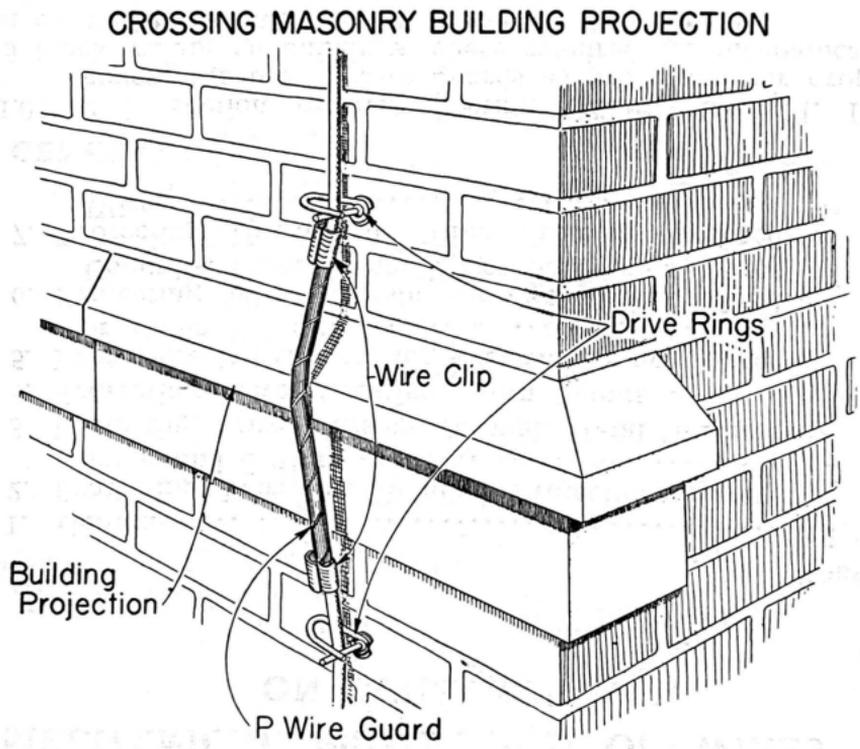
OL ANVES ON POFIDIMU2
WICHIT PIT W. 110R
B6DI VAD ITICK JIQUAB

(b) Where it is impracticable to obtain recommended minimum separations between drop or block wiring and foreign wires, or cables, rain spouts, etc., as covered in the section on Separations for Drop and Block Wiring.

1.04 Diagonal pliers or hack saw can be used for cutting P and S Wire Guards specified herein.

2. PROTECTING WIRES AT BUILDING PROJECTIONS, OVERHANGS AND GUTTERS

2.01 Building Projections:

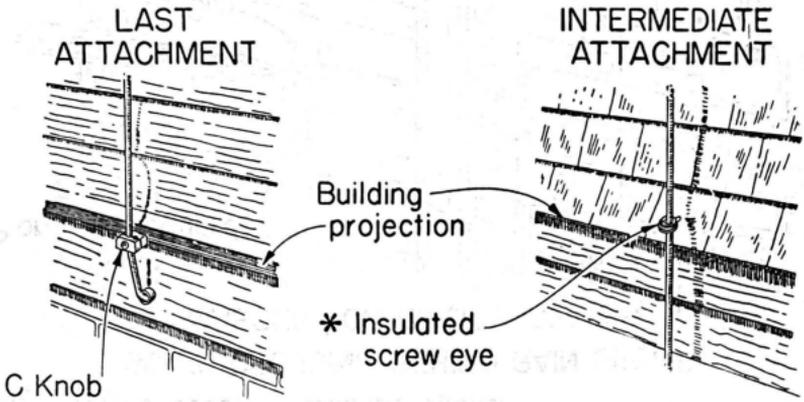


WICHIT PIT W. 110R
B6DI VAD ITICK JIQUAB

OL ANVES ON POFIDIMU2
WICHIT PIT W. 110R
B6DI VAD ITICK JIQUAB



CROSSING WOOD OR STUCCO ON WOOD BUILDING PROJECTIONS



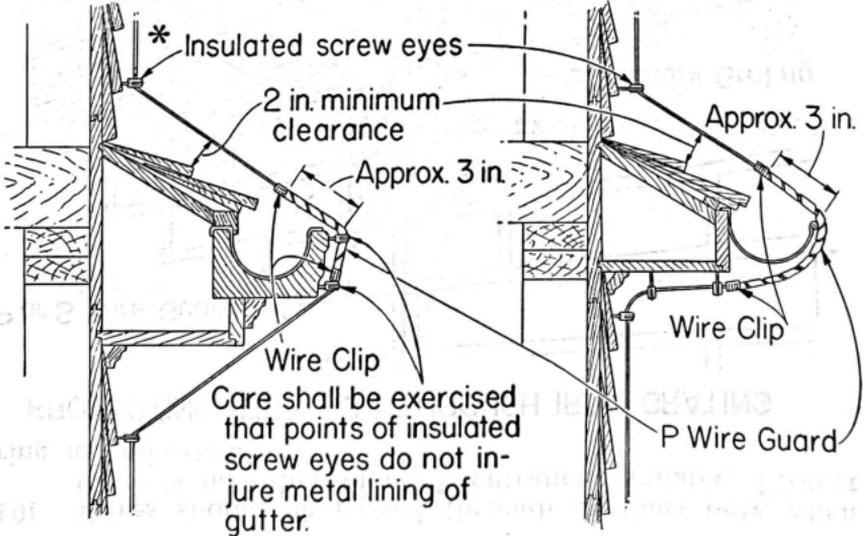
* Drive rings may be used for unexposed wire runs.

2.02 **Building Overhangs and Gutters:** Avoid crossing such obstructions wherever practicable. However, where there is no alternative, protect wires as shown.

CROSSING BUILDING OVERHANGS AND METAL GUTTERS

METAL LINED
WOODEN BOX GUTTER

METAL GUTTER

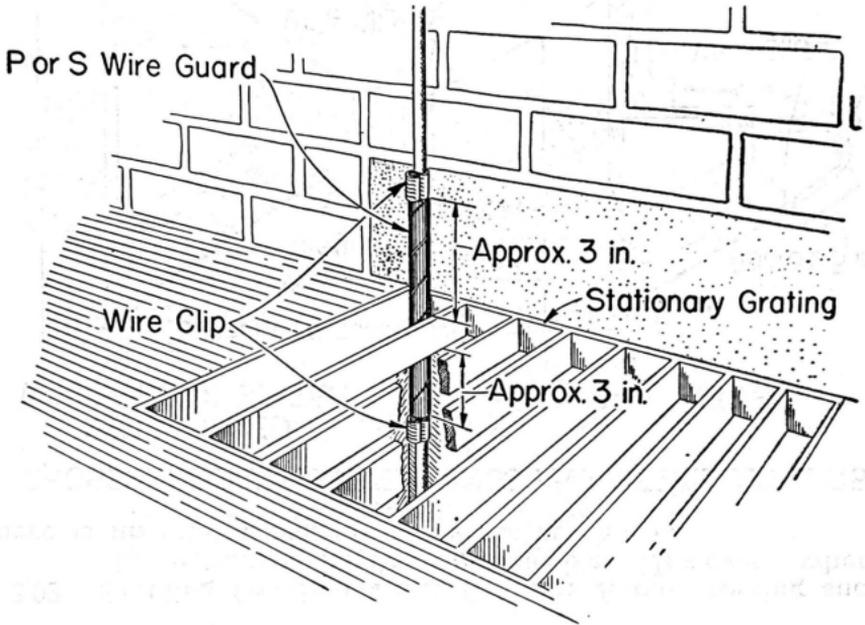


* Drive rings may be used for unexposed wire runs.

3. PROTECTING WIRES PASSING THROUGH METAL GRATINGS

3.01 Wires should be passed through gratings **only** when there is no other building entrance available. Protect wiring as indicated.

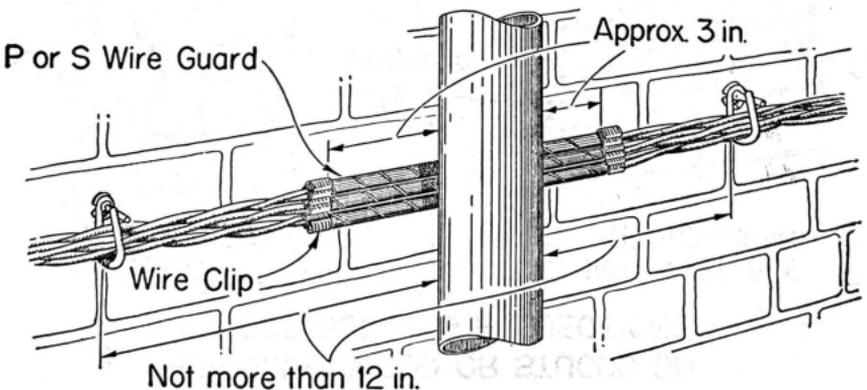
PROTECTING WIRE RUN THROUGH IRON GRATING



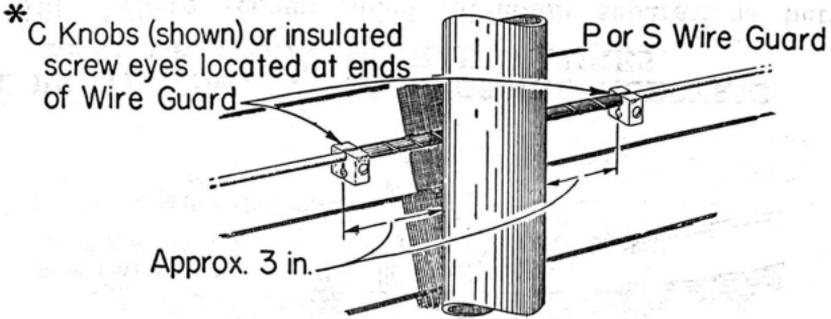
4. PROTECTING WIRES CROSSING DOWN SPOUTS

4.01 Wires Crossing Behind Spout:

WIRES CROSSING BEHIND RAIN SPOUT MASONRY OR BRICK SURFACES



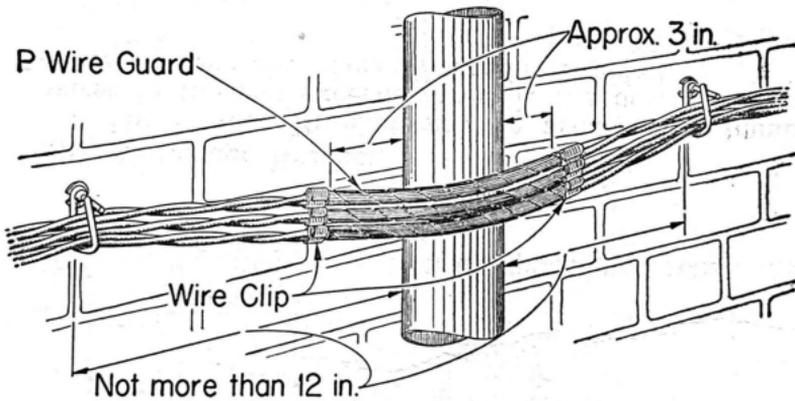
WOOD, STUCCO ON WOOD OR METALLIC
SIDING ON WOOD SURFACES



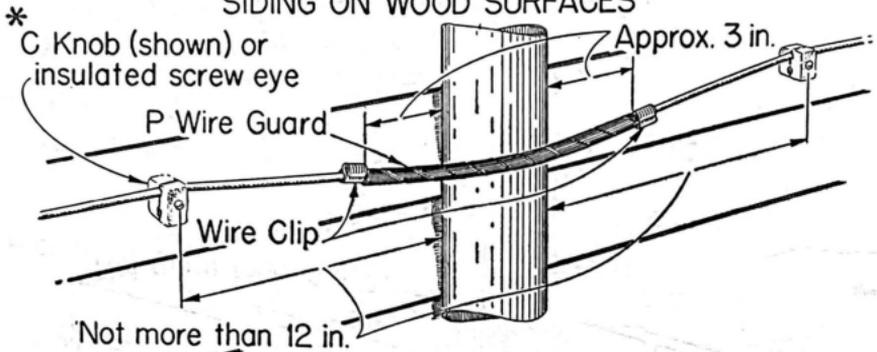
* Drive rings may be used for unexposed wire runs.

4.02 **Wires Crossing in Front of Spout:**
(a) P Wire Guard

WIRES CROSSING IN FRONT OF RAIN SPOUT
MASONRY OR BRICK SURFACES



WOOD, STUCCO ON WOOD OR METALLIC SIDING ON WOOD SURFACES



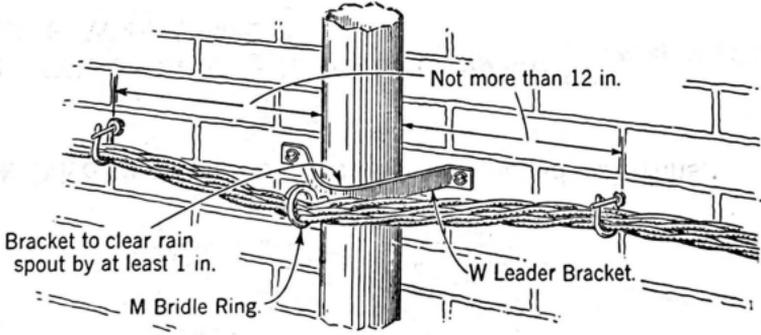
* Drive rings may be used for unexposed wire runs.

(b) W Leader Bracket

The Leader Bracket may be used if the number of wires in the run exceeds three. If the down spout is not fastened securely, place W Leader Bracket.

USE OF W LEADER BRACKET AT RAIN SPOUT CROSSING

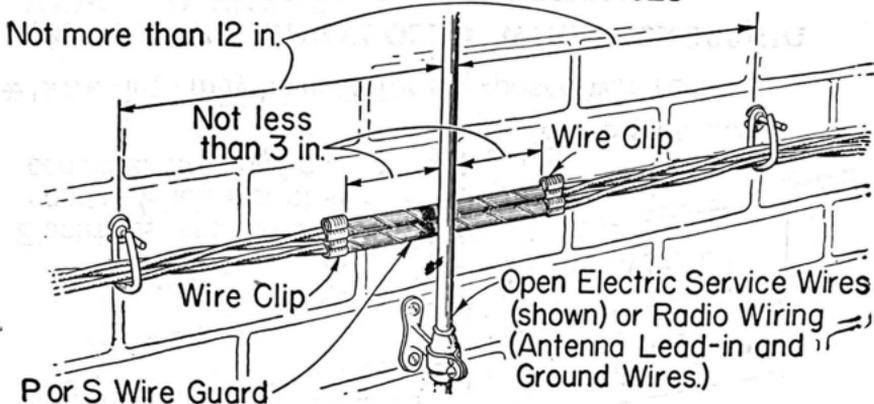
(Applies to Exposed and Unexposed Wire Runs on Building Surfaces, except Exposed Runs on Surfaces or Surface Backings of Inflammable Materials.)



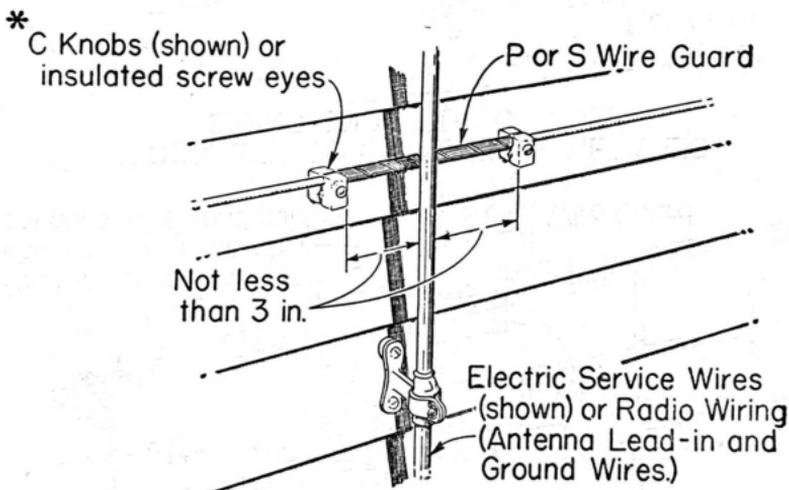
5. PROTECTING WIRES CROSSING ELECTRIC SERVICE WIRES OR RADIO WIRES

5.01 Where recommended minimum separations between telephone wires and power or radio wires are not obtainable, protect telephone wires as shown.

**PROTECTING WIRES CROSSING OPEN ELECTRIC
SERVICE WIRES OR RADIO WIRES
MASONRY OR BRICK SURFACES**



**WOOD, STUCCO ON WOOD OR METALLIC
SIDING ON WOOD SURFACES**

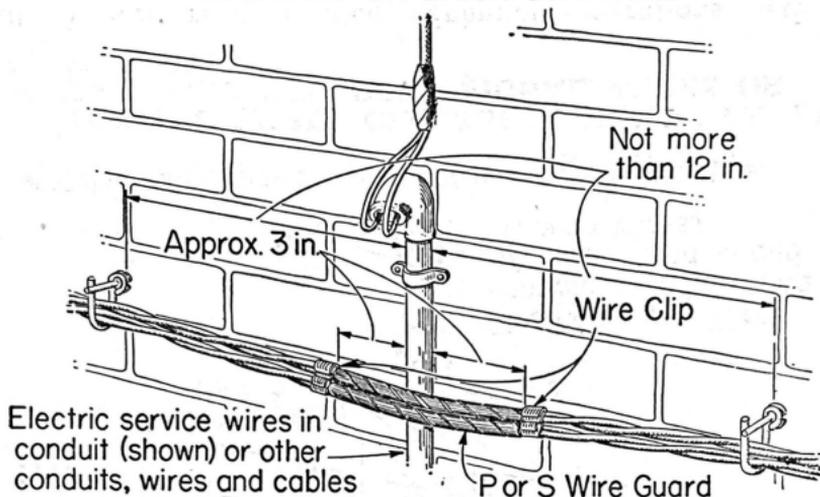


* Drive rings may be used for unexposed wire runs.

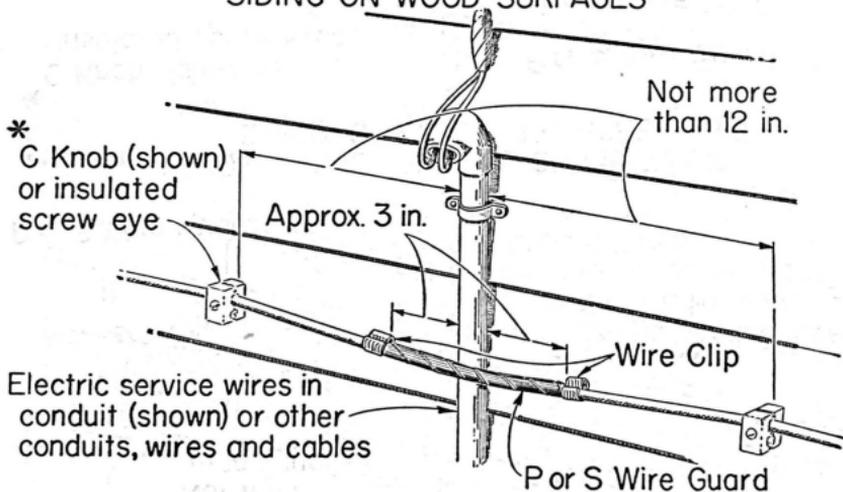
**6. PROTECTING WIRES CROSSING FOREIGN CABLES,
METAL CONDUITS, OPEN SIGNAL WIRES OR
GROUND WIRES**

6.01 Where recommended minimum separations between telephone wires and foreign cable, metal conduit, signal wires or ground wires are not obtainable, protect telephone wires as shown.

WIRES AT METAL CONDUIT CROSSING MASONRY OR BRICK SURFACES



WOOD, STUCCO ON WOOD OR METALLIC SIDING ON WOOD SURFACES



* Drive rings may be used for unexposed wire runs.

7. PROTECTING UNEXPOSED WIRES CROSSING EXPOSED WIRES

7.01 Where recommended minimum separation is not obtainable place a 6-inch length of P or S Wire Guard on either the exposed or unexposed telephone wires at the crossing. Place wire clips on the wire at the ends of the wire guard.