

## DROP AND BLOCK WIRING ATTACHING DEVICES FOR WALLS IN HEAVY LOADING AREA

### 1. GENERAL

1.01 This section specifies the drop wire attachments used on all type walls in heavy loading areas.

1.02 This information was formerly covered in Section 625-350-212 (G32.148.1) which is canceled.

1.03 A great deal of ice and sleet is considered heavy loading. Local instructions should specify the local loading area. The same attachments that are specified for drop wire may be used to attach block wire when it is used instead of drop wire.

1.04 Uninsulated building attachments may be used on NP, C, and E drop wire and B and C multiple drop wire working out of metal sheath cable. (B and C multiple drop wire must be fully protected with fuseless protectors where station protection is required.)

### 2. ATTACHING DEVICES FOR WALLS

2.01 Table A indicates the attaching devices for various types of building wall.

2.02 On stucco on tile, stucco on metal lath, and thin wall brick veneer buildings, attachments should be made preferably to exposed secure wood trim. Where this is practicable, make attachments as for wood buildings.

2.03 Angle of  $30^\circ$  can be approximately determined by sight if it is remembered that  $30^\circ$  is  $1/3$  of a right angle ( $90^\circ$ ). The following method may be used to check this angle (see Fig. 1):

(a) Locate C directly under first attachment, using insulator or other convenient article to mark spot.

(b) Locate A at a distance of 6 feet from C along the proposed route of the drop.

(c) Lay the rule along line AE forming a right angle with the side of the building. If distance AE is 3 feet the angle at C is exactly  $30^\circ$ , if less than 3 feet the angle is less than  $30^\circ$ , and if more than 3 feet the angle is more than  $30^\circ$ .

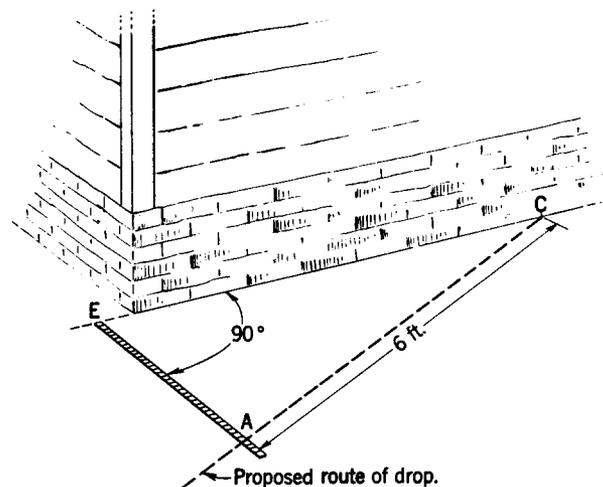


Fig. 1 — Laying Out Angle

2.04 With the proportions between AC and AE in mind the following method may be used:

(a) Locate C directly under first attachment, using knob or other convenient article to mark spot.

(b) Locate A at a distance of two steps from C along the proposed route of the drop.

(c) Turn at A so that you directly face building wall. If distance AE is more than one step the angle is more than  $30^\circ$ , if one step the angle is  $30^\circ$ , and if less than one step the angle is less than  $30^\circ$ .

**TABLE A**  
**DROP WIRE ATTACHMENTS ON BUILDING WALLS**  
**HEAVY LOADING AREA**

Mounting Surface	Protector Used	Drops Quantity	First Attachment Angle Between Drop and Wall		Intermediate Attachment	Last Attachment
	Type		Less than 30°	30° and Over		
Wood, Stucco on wood, Metallic siding on wood	Fuseless	1 or 2	Drop wire hook	Drop wire hook	5/8-in. drive rings or E bridle rings	E drop wire clamp or C knob
		3 or more	Drop wire hook for each two drops	Drop wire hook for each two drops		
	Fused	1 or 2	S knob for each drop	S knob with 5/16-in. angle screw for each drop	5/8-in. insulated screw eyes	C knob for each two drops
		3 or more	Two S knobs with house bracket for each two drops		5/8-in. insulated screw eyes	C knob for each two drops
Masonry solid brick Substantial brick veneer	Fuseless or Fused	1 or 2	Drop wire hook	Drop wire hook	B wire loop 5/8-in. or 5/8-in. drive rings or E bridle ring	E drop wire clamp or C knob
		3 or more	Drop wire hook for each two drops	Drop wire hook for each two drops		
Thin wall brick veneer (less than 3-3/4 inch thickness)	Fuseless or Fused	1 or 2	S knob for each drop	One or two S knobs with house bracket	B wire loop 5/8-in. or 5/8-in. drive rings or E bridle rings	E drop wire clamp or C knob
		3 or more	Drop wire hook* or two S knobs with house bracket for each two drops	Drop wire hook* or two S knobs with house bracket for each two drops		
Hollow tile	Fuseless or Fused	1 or 2	S knob for each drop	One or two S knobs with house bracket	Toggle bridle rings	E drop wire clamp or C knob
		3 or more	Two S knobs with house bracket for each two drops	Two S knobs with house bracket for each two drops		
All types	Fused	1 or more	When necessary to clear a building corner in making first attachment, use an S knob with corner bracket for each drop.			
Steel structural framework		1	The D insulator support may be equipped with one S knob and used as a first attachment, provided that support is so placed that it will pull against the structural steel member.			

\* Use separate drop wire hook for each drop crossing a highway.