

## DROP AND BLOCK WIRING

### ATTACHING DEVICES FOR WALLS IN MEDIUM AND LIGHT LOADING AREAS

#### 1. GENERAL

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

1.02 This information was formerly covered in Section 625-350-211 (G32.147.1) which is canceled.

1.03 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.)

1.04 Insulated building attachments are to be used on wood and metal siding on wood only when drop wires are connected to open wire circuits.

#### 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  $30^\circ$ .

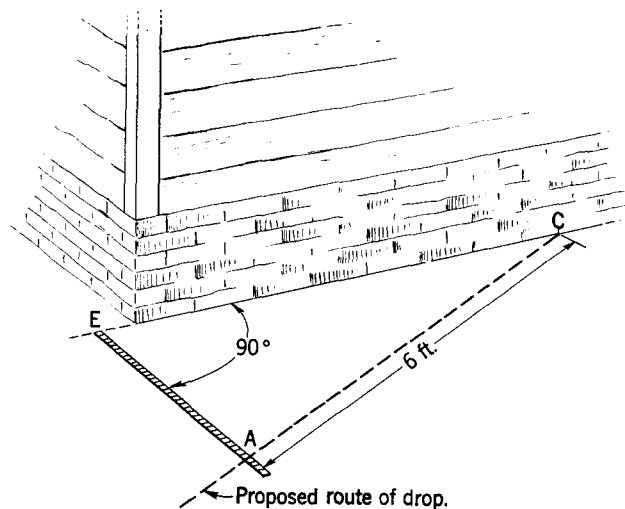


Fig. 1 — Laying Out Angle

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 IN MEDIUM AND LIGHT LOADING AREAS

Mounting Surface	Protector Used	Drops	First Attachment		Intermediate Attachment	Last Attachment
			Angle Between Drop and Wall			
	Type	Quantity	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 one drop	S knob with 5/16-in. angle screw for one drop or T knob with 3/8-in. angle screw for two drops	5/8-in. insulated screw eyes on wood and metallic siding or 5/8-in. L insulated screw eyes on stucco	C knob for each two drops
			T knob for two drops			
		3 or more	T knob for each two drops	T knob with 3/8-in. angle screw for 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 ring or E bridle ring
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	Drop wire hook*	Drop wire hook*	5/8-in. drive rings or E bridle rings	E drop wire clamp or C knob
			S knob for each drop	One or two S knobs with house bracket		
		3 or more	Drop wire hook* for each two drops or two T knobs with house bracket for each four drops	Drop wire hook* for each two drops or two T knobs with house bracket for each four drops		
			1 or 2	S knob for one drop, T knob for two drops	One or two S knobs with house bracket	Toggle bridle rings
		3 or more	T knob for each two drops	Two T knobs with house bracket for each four drops		
All types	Fuseless or Fused	1 or more	When necessary to clear a building corner in making first attachment, use an S knob with corner bracket for one drop or T knob with corner bracket for two drops.			
Steel structural framework		1 or 2	The D insulator support may be equipped with one S knob, or the C insulator support may be equipped with one T knob, provided that the support is so placed that it will be pulled against the structural steel member.			

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