

## STATION WIRE AND CABLE ATTACHING AND FASTENING

### 1. GENERAL

Table A shows the recommended spacing between attachments when used on horizontal or vertical wire runs. The spacing of attachments from corners or turns is also shown.

**TABLE A**  
**SPACING REQUIREMENTS OF ATTACHMENTS**

FASTENERS		SPACING				
		HORIZONTAL		VERTICAL RUN		FROM CORNER
		FEET	INCHES	FEET	INCHES	INCHES
Cable	more than 12-pair cable		16	4		2
Clamps	less than 12-pair cable		16		16	2
Cable	more than 12-pair cable		14	3		2
Clasps	less than 12-pair cable		14		14	2
B Adhesive Clips			12		12	2
B Station Wire Clamps			16		16	2
B Station Wire Nail			16		16	2
Staples	Station Wire		7-1/2		7-1/2	1
	25-pair D inside wiring cable		12		12	2
Bridle Rings		4				2 thru 8-1/2*
Drive Rings		4		8		2 thru 8-1/2*
Wire Loops		4		8		2 thru 8-1/2*
Toggle Bridle Rings		4		8		2 thru 8-1/2*
Insulator Supports		4		8		2 thru 8-1/2*
B Beam Clip		4		8		2 thru 8-1/2*
B Hanger Clip		As Required				

\*When changing direction of wire or cable runs where wire loops, bridle rings, drive rings, toggle bridle rings, insulator supports, and B beam clips are used, the fasteners should be spaced to hold the wire or cable at approximately a 45-degree angle.

**TABLE B**  
**SELECTION OF STAPLES**

STAPLE						STAPLER
TYPE	FINISH	SIZE (INCHES)		SHAPE OF CROWN	USE	
		LENGTH	WIDTH			
E*	Zinc and Ivory	3/8	3/16	Rounded	With D or JKT (MD) station wire, and No. 10 or smaller ground wire in all type wood	Heller TM or Heller M
F†	Copper Coated					
G*	Zinc Coated	5/8	1/2	Flat	With 25-pair inside wiring cable in all type wood	D
T-18* (Arrow)	Zinc Coated	3/8	3/16	Rounded	With D station wire and No. 10 or smaller ground wire in hard wood	Heller TM

\*For indoor use.

†For outdoor use or where appearance is unimportant.

**Note:** Staples are not recommended for use in plaster.

**TABLE D**  
**FASTENERS FOR CABLE CLAMPS AND CABLE CLASPS**

SURFACE	CLAMP NO.	CLASP NO.	FASTENER	REMARKS
	COLOR			
	LIGHT OLIVE GRAY, IVORY, GALVANIZED	LIGHT OLIVE GRAY, IVORY		
Woodwork	No. 3 and 5*	No. 7	1/2 in. No. 6 RH blue wood screw	
	No. 6, 7, 8, 10, and 12*	No. 9 and 14	5/8 in. No. 8 RH blue wood screw	
	No. 13 and 17		1 in. No. 10 gal- vanized wood screw	
Plywood, Masonite	No. 3 and 5*	No. 7	1/2 in. No. 6 RH blue wood screw  B Wall Screw Anchor 1/8 in. x 3 in. toggle bolt	Make wood screw attachments at stud locations.  Use No. 1 B Wall Screw Anchor on wall thickness 1/16 in. to 1/4 in. Use No. 2 B Wall Screw Anchor on wall thickness 1/4 in. to 3/8 in. Use No. 3 B Wall Screw Anchor on wall thickness 3/8 in. to 3/4 in.
	No. 6, 7, 8, 10, and 12*	No. 9 and 14	5/8 in. No. 8 RH blue wood screw 3/16 in. x 1 in. C Plastic Anchor B Wall Screw Anchor 1/8 in. x 3 in. toggle bolt	
	No. 13 and 17		1 in. No. 10 galvanized wood screw 1/4 in. x 1 in. C Plastic Anchor B Wall Screw Anchor 3/16 in. x 3 in. toggle bolt	

\* Inside wiring clamp only.

TABLE D (CONT)

## FASTENERS FOR CABLE CLAMPS AND CABLE CLASPS

SURFACE	CLAMP NO.	CLASP NO.	FASTENER	REMARKS
	COLOR			
	LIGHT OLIVE GRAY, IVORY, GALVANIZED	LIGHT OLIVE GRAY, IVORY		
Plasterboard, Plaster on Wood Lath, and Plaster on Metal Lath	No. 3 and 5*	No. 7	1 in. No. 8 RH blue wood screw B Wall Screw Anchor 1/2 in. No. 8 self-tapping screw	Make wood screw attachment at stud locations.
	No. 6, 7, 8, 10, and 12*	No. 9 and 14	1 in. No. 8 RH wood screw 3/16 x 1 in. C Plastic Anchor B Wall Screw Anchor 1 in. No. 8 self-tapping screw	Use No. 1 B Wall Screw Anchor on wall thickness 1/16 in. to 1/4 in. Use No. 2 B Wall Screw Anchor on wall thickness 1/16 in. to 3/8 in.
	No. 13 and 17		1 in. No. 10 RH galvanized wood screw 1/4 in. x 1 in. C Plastic Anchor B Wall Screw Anchor 7/8 in. No. 14 self-tapping screw	Use No. 3 B Wall Screw Anchor on wall thickness 3/8 in. to 3/4 in.

\* Inside wiring clamp only.

TABLE F

## B WIRE LOOP

B WIRE LOOP SIZE NO.	WIDTH OF OPENING	LENGTH OF LOOP (INSIDE)	D MASONRY FASTENER FOR		
			CONCRETE	MORTAR	BLOCK*
1/2	1/4-in.	3/4-in.	3	4	5
5/8	1/2-in.	1-1/8-in.			
7/8	5/8-in.	2-1/16-in.			
1-1/4	5/8-in.	2-3/4-in.			

\*Cement or cinder blocks.

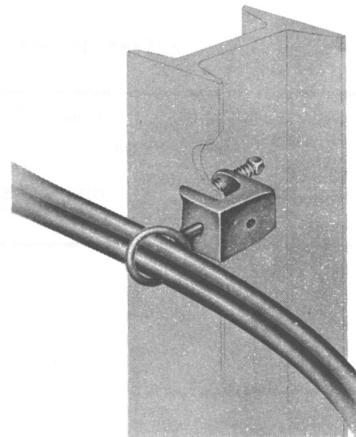
**TABLE C**  
**FASTENERS FOR B STATION WIRE CLAMP**

SURFACE	FASTENER
Metal or Asbestos Siding	5/8-in. No. 6 self-tapping screw
	5/8-in. No. 6 RH galvanized wood screw. C Plastic Anchor, 3/16 x 1 in.
Wood, Indoors	5/8-in. No. 6 RH blued wood screw
Wood, Outdoors	5/8-in. No. 6 RH galvanized wood screw
Stucco (Wire and Paper Backing)	1-in. No. 6 self-tapping screw (cadmium plated) or wall screw anchor (correct size)
Masonry	No. 2 B Masonry Fastener

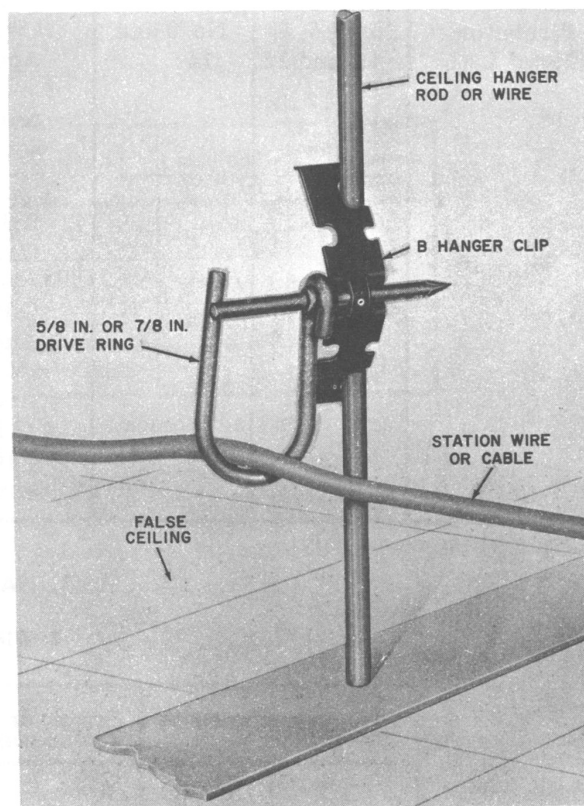
**TABLE E**  
**DRIVE RINGS**

DIMENSIONS IN INCHES				ANCHOR SIZE (IN.)	
SIZE	D	W	L	DIA.	L
1/2	1/2	1/2	2-1/16	3/16	7/8
5/8	5/8	3/4	2-1/4	1/4	1
5/8L	5/8	3/4	2-3/4		
7/8	7/8	1-1/2	2-9/16	1/4	1
7/8L	7/8	1-1/2	3-1/16		
1-1/4	1-1/4	2-3/8	2-15/16	5/16	1-1/4
1-1/4L	1-1/4	2-3/8	3-7/16		

L sizes have extra long shafts and cannot be used with B Drive Anchors.



**Fig. 12—B Insulator Support**



**Fig. 13—B Hanger Clip, Installed**