

FASTENING AND EQUIPPING FIRST ATTACHMENTS OF
DROP WIRE RUNS TO BUILDING

1. GENERAL

1.07 In order to obtain secure attachments and to avoid damage to building surfaces it is essential that the specific instructions covered in the section entitled Attachments and Fasteners, Description of Surfaces Encountered, be followed. Of particular importance are the clearance and lead holes for fasteners.

1.08 When attaching galvanized attachments on buildings with aluminum siding in highly corrosive areas (industrial and marine) observe the following:

- Apply a coating of KS-14681, List 1 anti-rust compound to the siding at the point of contact to prevent corrosive action.
- For method of application refer to division 080.

Caution: It is possible for foreign voltage to be present on buildings covered with metal siding. Test siding with B voltage tester before starting any work.

3. TYPICAL FIRST ATTACHMENTS TO BUILDINGS AND STEEL STRUCTURES (Fig. 1 through 9)

3.01 Tables A, B, C, and D list anchoring devices of first attachments used on various surfaces.

3.02 Table E lists equipping information for first attachments.

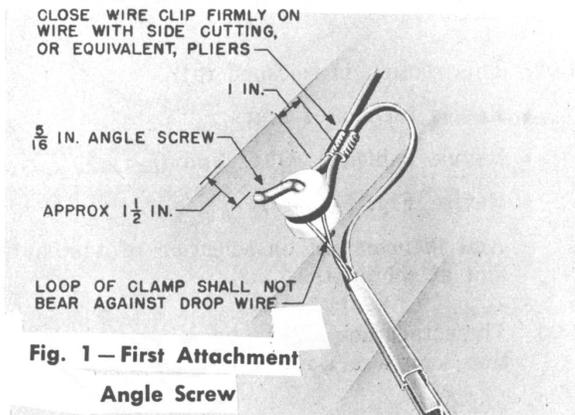


Fig. 1 — First Attachment
Angle Screw
(Drop Wire Run in Horizontal Direction on Building)

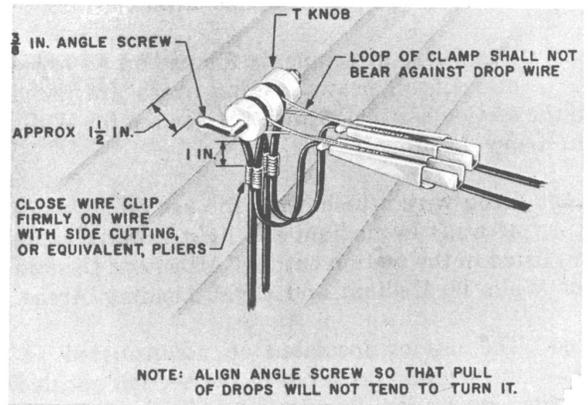


Fig. 2 — First Attachment, Angle Screw
(Drop Wire Run in Vertical Direction on Building)

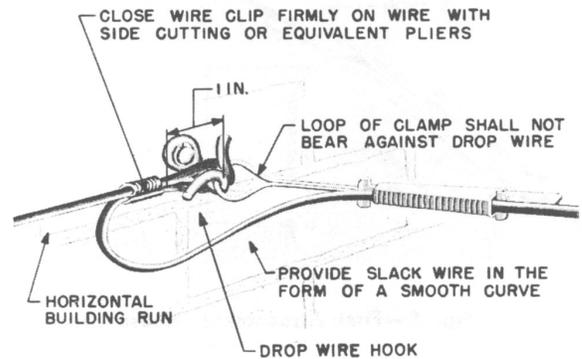


Fig. 3 — First Attachment, Drop Wire Hook

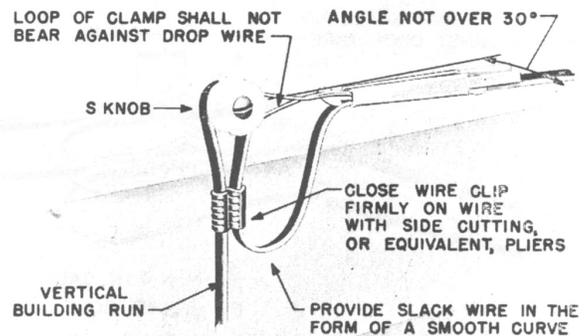


Fig. 4 — First Attachment, S Knob

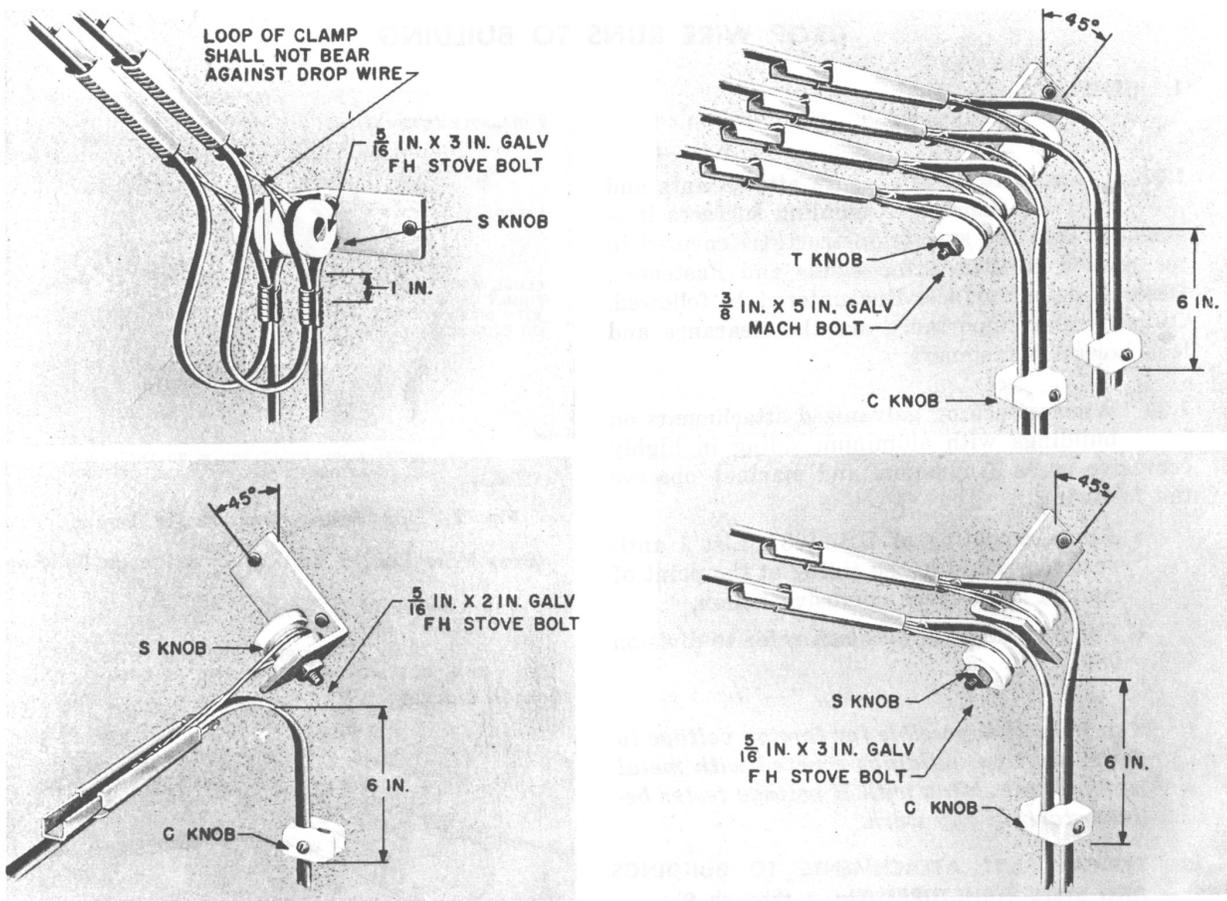


Fig. 5 — First Attachment, House Bracket (Drop Wire Run in Vertical Direction on Building)

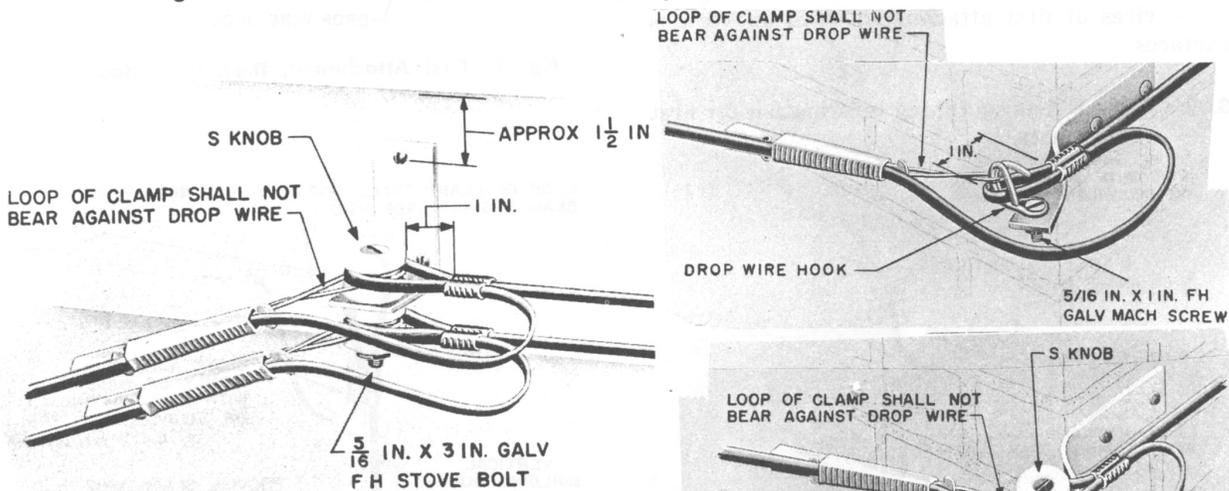


Fig. 6 — First Attachment, House Bracket (Drop Wire Run in Horizontal Direction on Building)

Fig. 7 — First Attachment, Corner Bracket

TABLE A
FASTENERS FOR DROP WIRE HOOK

Wall Type	Fasteners		Remarks
	Quantity	Type	
Wood Siding	1	2-in. No. 18 RH galvanized wood screw	Place screw in studding.
Stucco on Wood	1	2-in. No. 18 RH galvanized wood screw	Place screw in studding.
Rigid Composition Shingles	1	2-in. No. 18 RH galvanized wood screw	Drill clearance hole to avoid splitting shingle.
Masonry or Substantial Brick Veneer*	1	5/16-in. by 1-3/4-in. B drive anchor	Locate anchor in center of brick. Second drop wire hook should be located in separate brick.
Thin Wall Brick Veneer (Less Than 3-3/4 Inch Thickness)	1	6-in. No. 18 RH galvanized wood screw	Pass screw through the seam be- tween bricks. Penetrate wood backing approximately 1 inch.
Hollow Tile	1	5/16-in. by 5-in. RH galvanized toggle bolt	Place 7/16 in. by 2-in. galvan- ized square washer between wall and drop wire hook.

* Do not use corner or top row of bricks.

TABLE B
FASTENERS FOR S AND T KNOBS

Wall Type	Attach- ment Knob	Fasteners		Remarks
		Quantity	Type	
Wood Siding	S	1	2-1/2 in. No. 18 FH galvanized wood screw	Place screw in studding.
	T	1	3-1/2 in. No. 18 FH galvanized wood screw	
Stucco on Wood	S	1	3-in No. 18 FH galvanized wood screw	Use 3-1/2 in.
	T	1	3-1/2 in. No. 18 FH galvanized wood screw	Use 4-1/2 in.
Rigid Composition Shingles	S	1	3-1/2 in. No. 18 FH galvanized wood screw	Drill clearance hole to avoid splitting shingle.
	T	1	4-1/2 in. No. 18 FH galvanized wood screw	
Thin Wall Brick Veneer (Less Than 3-3/4 Inch Thickness)	S	1	7-in. No. 18 FH galvanized wood screw	Pass screw through the seam between bricks. Penetrate wood backing approximately 1 inch.
	T	1	7-in. No. 18 FH galvanized wood screw	
Hollow Wall	S	1	5/16 in. by 5 in. RH galvanized toggle bolt	Place flat side of S knob against bolt head.
	T	1	5/16 in. by 6 in. FH galvanized toggle bolt	

TABLE C

FASTENERS FOR HOUSE BRACKETS

Wall Type	Fasteners		Remarks
	Quantity	Type	
Wood Siding	3	2-in. No. 14 RH galvanized wood screws	Place screw in studding.
Stucco on Wood	3	2-1/2 in. No. 14 RH galvanized wood screws	Place screw in studding.
Rigid Composition Shingles	3	3-in. No. 14 RH galvanized wood screws	Drill clearance hole to avoid splitting shingle.
Masonry or Substantial Brick Veneer	2	5/16 in. by 1-1/4 in. B drive anchor	
Thin Wall Brick Veneer (Less Than 3-3/4 Inch Thickness)	2	6-in. No. 14 RH galvanized wood screws	Pass screw through the seam between bricks. Penetrate wood backing approximately 1 inch.
Hollow Wall	2	1/4 in. by 3 in. or 4 in. RH galvanized toggle bolt	

TABLE D

FASTENERS FOR CORNER BRACKETS

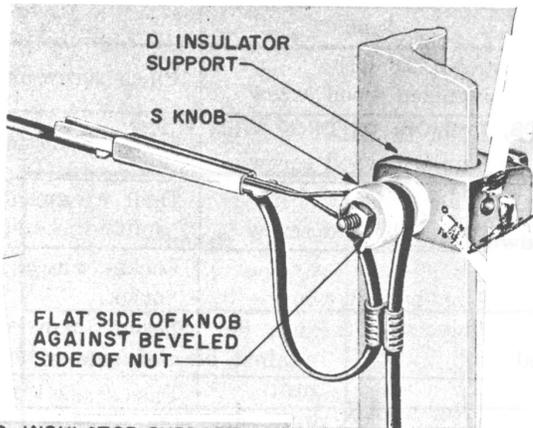
Wall Type	Fasteners		Remarks
	Quantity	Type	
Wood Siding	2	2-in. No. 14 RH galvanized wood screws	Place screw in studding.
Stucco on Wood	2	2-1/2 in. No. 14 RH galvanized wood screws	Place screw in studding.
Rigid Composition Shingles	2	3-in. No. 14 RH galvanized wood screws	Drill clearance hole to avoid splitting shingle.
Masonry or Substantial Brick Veneer	2	5/16 in. by 1-1/4 in. B drive anchor	
Thin Wall Brick Veneer (Less Than 3-3/4 Inch Thickness)	2	6-in. No. 14 RH galvanized wood screws	Pass screw through the seam between bricks. Penetrate wood backing approximately 1 inch.
Hollow Wall	2	1/4 in. by 3 in. or 4 in. RH galvanized toggle bolt	

TABLE E
EQUIPPING DROP WIRE ATTACHMENTS WITH S KNOB, T KNOB, OR DROP WIRE HOOK

Attachments		Equipped with			Hardware	Remarks	
		S Knob	T Knob	Drop Wire Hook			
Angle Screw	5/16 in.	1			Nut furnished	Place flat side of knob against beveled side of nut.	
	3/8 in.		1				
House Bracket		1			5/16 in. by 2 in. FH galvanized stove bolt	Place flat side of first knob against house bracket.	
		2*			5/16 in. by 3 in. FH galvanized stove bolt	Place flat side of second knob against beveled side of nut.	
			1			3/8 in. by 3 in. galvanized machine bolt	Place flat side of first knob against bolt head.
			2*			3/8 in. by 5 in. galvanized machine bolt	Place flat side of second knob against nut.
					1	5/16 in. by 1 in. FH galvanized machine screw	Obtained locally.
Corner Bracket		1			5/16 in. by 2 in. FH galvanized stove bolt	Place flat side of knob against corner bracket.	
		2*			5/16 in. by 3 in. FH galvanized stove bolt	Place flat side of top knob against bolt head and place nut against flat side of lower knob.	
			1			3/8 in. by 3 in. galvanized machine bolt	Place flat side of knob against bolt head.
					1	5/16 in. by 1 in. FH galvanized machine screw	Obtained locally.
Insulator Supports		D	1		5/16 in. by 2 in. FH galvanized stove bolt	Place flat side of knob against beveled side of nut.	
		C		1	3/8 in. by 3 in. galvanized machine bolt		
		D			1	5/16 in. by 1 in. FH galvanized machine screw	Obtained locally.
		C					
Sign Bracket, 170 Type				1	5/16 in. by 3/4 in. RH galvanized machine screw	Machine screw and lock washers furnished. Obtain 7/16 in. by 1 in. galvanized round washer locally.	

* Locate one knob above and one knob below bracket.

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D INSULATOR SUPPORT IS PROVIDED WITH 3/8 IN. CLEAR HOLE. S KNOB MAY BE ATTACHED WHEN REQUIRED. C INSULATOR SUPPORT IS PROVIDED WITH 1/2 IN. TAPPED HOLE. T KNOB MAY BE ATTACHED WHEN REQUIRED.

D & C INSULATOR SUPPORTS ARE EQUIPPED WITH 10-24 TAPPED HOLES FOR M BRIDLE RINGS

Fig. 8 — First Attachment D or C Insulator Support

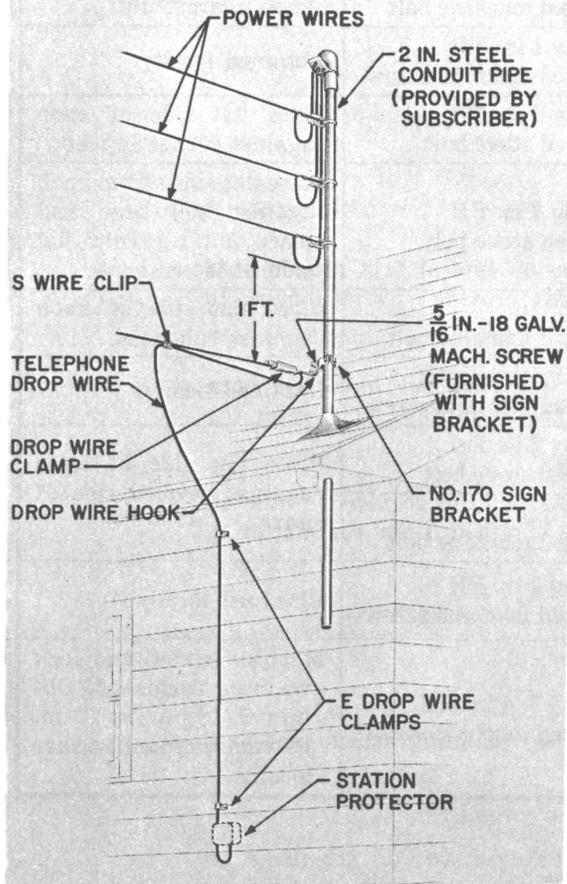
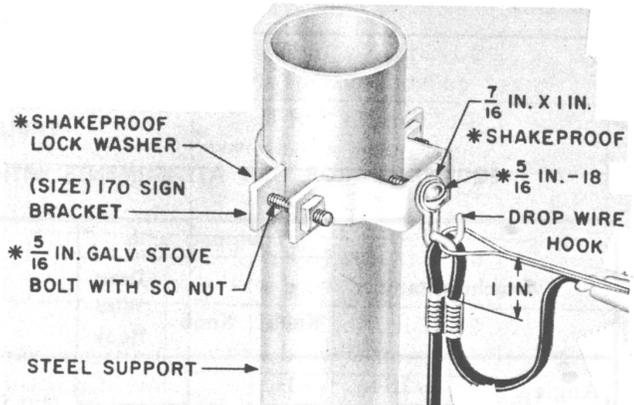


Fig. 10 — Drop Wire Attached to Power Fixture



TYPE	SIZE	DIAMETER OF SUPPORT INCHES
170	2	1 7/8 TO 3
170	3	3 TO 4
170	4	4 TO 5

* THESE ITEMS ARE FURNISHED WITH THE SIGN BRACKET.

Fig. 9 — First Attachment, Sign Bracket, 170 Type

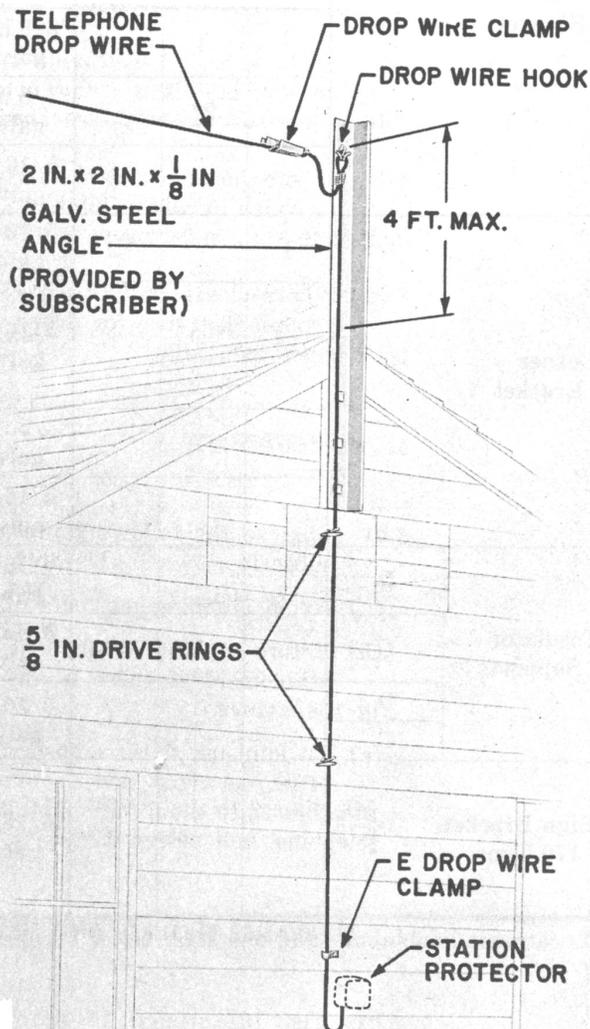


Fig. 11 — Drop Wire Attached to 2-Inch Angle Iron

4. FIRST ATTACHMENTS ON LOW BUILDINGS

4.01 Parts 4, 5, and 6 provide information on typical first attachments on low buildings using house fixtures provided by customers to obtain necessary ground clearance for drop wire.

4.02 Where house clearance fixtures are required but have not been provided or where joint use of a fixture is impracticable, refer the matter to your supervisor.

4.03 Where clearance fixtures are provided but the required minimum ground clearance for drops cannot be obtained, refer the matter to your supervisor.

5. PRECAUTIONS

5.01 Observe the following precautions when planning attachment to a subscriber-owned clearance fixture.

- (a) Avoid climbing on roofs of subscriber premises.
- (b) Before making attachment, inspect fixtures, but do not make an attachment if there is any doubt as to the strength or firmness of the fixture.
- (c) On joint-use fixtures observe location of the power service drops in order to avoid body contact. Wear rubber gloves when making attachment to the fixture. Obtain a separation of at least 1 foot between telephone and power wires.

6. CLEARANCE FIXTURES AND METHODS OF ATTACHMENT

6.01 Fig. 10 through 14 show types of clearance fixtures commonly provided by subscribers and the recommended methods of making drop wire attachment. Where other types of fixtures are provided and different methods of making drop wire attachments are required, local instructions should be issued.

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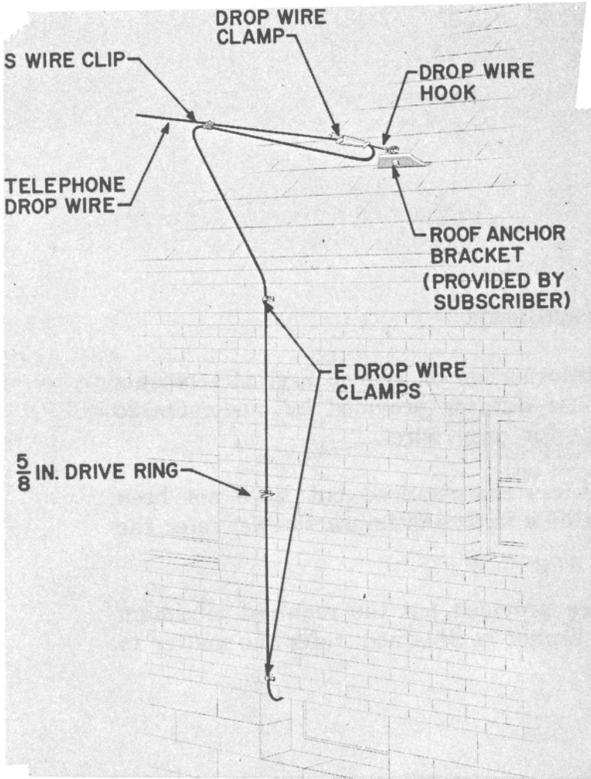


Fig. 12 – Drop Wire Attached to Roof Anchor Bracket

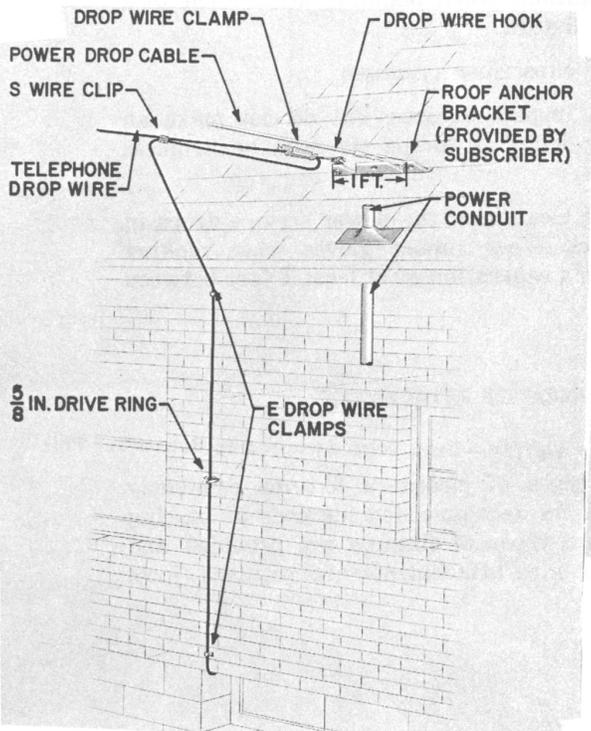


Fig. 13 – Drop Wire and Power Cable Attached to Roof Anchor Bracket

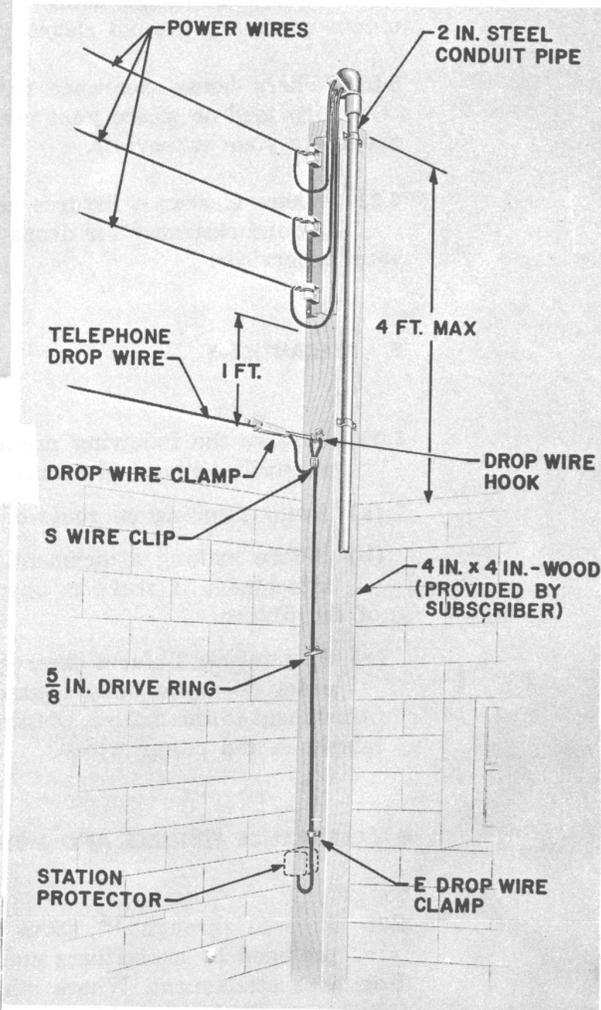


Fig. 14 – Drop Wire Attached to Subscriber Pole