

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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CABLE SPLICING—GENERAL
CABLE CLAMPS AND STRAPS—
LEAD SLEEVES

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1. GENERAL

1.01 This section contains general information on the supports used in fastening lead sleeves to different kinds of surfaces.

1.02 Information on the method of installing cable clamps, straps and anchoring devices is contained in the sections on cable placing.

2. CABLE CLAMPS, CABLE STRAPS AND ANCHORING DEVICES

2.01 The standard sizes of cable clamps and straps, the sleeve sizes on which each can be used, and the appropriate anchoring devices for use on various mounting surfaces, are shown in the following table.

Cable Clamps, Straps, and Anchoring Devices
for use in Lead Sleeves

Lead Sleeve Sizes Inside Dia. in Inches	Cable Clamp Number	Cable Strap Number	Anchoring Devices			
			Masonry	Wood		Plaster on Wood Lathe or Plasterboard
				Hammer Drive Anchor	① R. H. or Wood Screw	
3/4	17	16	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14
1	21	20	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14
1 1/4	25	24	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14
1 1/2	30	30	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14
2	35	36	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14
2 1/4 2 1/2	42	42	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14
2 3/4 3		56	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14
3 1/2		64	1/4 in. x 1 in.	1 1/2 in. No. 14	1 1/2 in.	2 in. No. 14

- ① Use galvanized Wood Screws on the outside and Blued Wood Screws on the inside of buildings.
- ② Use Wood Screw if there is danger of splitting the mounting surface.

2.02 On hollow tile, screws or nails with wire ties are used as toggles or if the tile permits drilling holes of such size that the base of the cable clamp or strap will have adequate bearing, use 3/16" x 4" Toggle Bolts.

3. ADJUSTABLE SLEEVE STRAPS

3.01 The adjustable sleeve strap is used for clamping sleeves larger than 3-1/2" in diameter to masonry, wood surfaces or poles. A series of 25 holes spaced on 1/2" centers provides adjustability in fitting the strap to sleeves of various sizes. In addition, the strap is equipped with a slider to reinforce the hole through which the anchor is placed.

3.02 The strap can be attached by using 1/4" x 1/4" hammer drive anchors on brick or concrete surfaces, 3/16" x 2" strap nails or 1-1/2" No. 14 Wood Screws on wood and pole surfaces, and 1/4" x 4" toggle bolts on hollow tile.

3.03 To install the strap, anchor the fixed end in position on the under side of the sleeve. Then form the strap around the sleeve. After the proper length is determined, nick the strap with a file across its width at the next hole beyond that through which the top anchor is placed. Break off the excess by bending the strap back and forth at the nick. Smooth the rough edges with a file. Place the slider in position over the hole and fasten the strap to the mounting surface as illustrated below.

