

**BELL SYSTEM PRACTICES**  
Outside Plant Construction  
and Maintenance

**SECTION G50.622.1**  
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## **CABLE SPLICING—GENERAL**

### **GENERAL INFORMATION—LEAD SLEEVES**

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#### **1. GENERAL**

1.01 This section contains general information regarding the sizes of lead sleeves to be used on splices. It is being reissued to include additional information as to the sizes of lead sleeves used on large splices in alpeth sheath cable.

1.02 The sizes of lead sleeves for various types of splices in lead sheath cable are given in Sections G50.622.2 to G50.622.7, inclusive.

1.03 Splices in alpeth sheath cable or between alpeth sheath and lead sheath cable may take larger sleeves than splices in lead sheath cables, as indicated in Paragraph 4.

## 2. STANDARD SIZES

2.01 Lead sleeves with normal wall thickness are available in the following standard sizes:

<u>Inside Diameter (Inches)</u>	<u>Length (Inches)</u>
3/4	15
1	15
1-1/4	15
1-1/2	15
1-3/4	17
2	17
2-1/4	17
2-1/2	20
2-3/4	20
3	20
3-1/2	20
4	20
4-1/2	20 and 22
5	22
5-1/2	22
6	22
6-1/2	22
7	22

2.02 Extra strength lead sleeves with greater wall thickness are available in the following standard sizes:

<u>Inside Diameter (Inches)</u>	<u>Length (Inches)</u>
5	22
5-1/2	22
6	22
6-1/2	22
7	22

2.03 Lead sleeves, in all of the diameters, are also available in 6-foot lengths. Sleeves longer than the standard lengths indicated in Paragraphs 2.01 and 2.02 are generally cut from the 6-foot lengths.

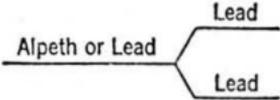
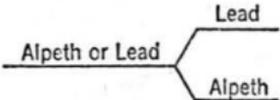
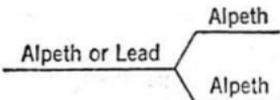
### 3. GENERAL RULES

- 3.01 All splice openings should be carefully planned so as to avoid the use of split sleeves wherever possible.
- 3.02 The diameter of a lead sleeve is always given as the inside diameter.
- 3.03 If a sleeve is to be used to cover an opening from which an existing sleeve has been removed, it may be necessary to use a slightly longer sleeve so as to have fresh wiping surface on the cable.
- 3.04 Because of the extensive use of desiccant, the tables for lead sleeve sizes are all based on the use of desiccant.
- 3.05 If a splice must be closed with a split sleeve it may be necessary to use a sleeve one size larger in diameter than if the opening could be closed without splitting the sleeve.
- 3.06 If the main cable is not cut at a branch splice, it is generally possible to use a smaller sleeve than if the main cable is cut.
- 3.07 At splices where the main cable changes in gauge or pair size the sleeve size is determined by the cable requiring the larger sleeve.
- 3.08 At test cuts, trouble cuts, capped ends, knuckle joint splices, duct splices and butt splices the sleeve should be just large enough to fit snugly over the wrapped conductors.
- 3.09 In cables maintained under continuous gas pressure extra strength lead sleeve should be used for sizes 5 inches and larger in diameter.
- 3.10 In the tables for bridge splices in exchange type cables it is assumed that the gauge of the bridge cables will not be heavier than the feeder cables, except in the 26- and 28-gauge feeder cables where the bridge cables may be 24-, 26- or 28-gauge.

### 4. LEAD SLEEVES—ALPETH SHEATH

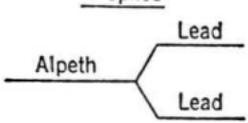
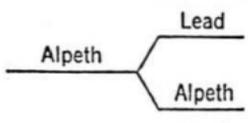
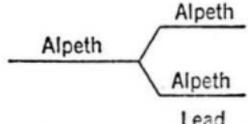
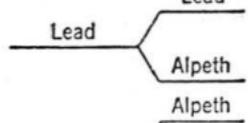
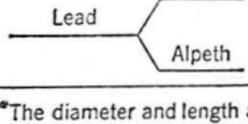
- 4.01 Select the sleeve size for alpeth sheath cable or combination of alpeth sheath and lead sheath cables, as indicated in the following tables. If the sleeve size determined from the table is larger than 7 inches in diameter, a 7-inch sleeve shall be used.

## (a) Outer Wrapped Joints

Type of Cable at Ends of Splice	Sleeve* Length	Sleeve* Diameter
<u>Straight Splice</u> Alpeth-Alpeth Alpeth-Lead	Same Same	Same Same
<u>Y Splice</u>		
	Same	Same
	Same	1/2 in. larger.
	Same	1 in. larger

\*The diameter and length are based on the sizes for lead sheath cable in Sections G50.622.2 to G50.622.6 inclusive.

(b) Inner Wrapped Joints

Type of Cable at Ends of Splice	Sleeve* Length	Sleeve* Diameter
<u>Straight Splice</u> Alpeth - Alpeth Alpeth - Lead	5 in. longer 2½ in. longer	Same Same
<u>Y Splice</u> 	2½ in. longer	Same
	5 in. longer	½ in. larger
	5 in. longer	1 in. larger
	2½ in. longer	½ in. larger
	2½ in. longer	1 in. larger

\*The diameter and length are based on the sizes for lead sheath cable in Sections G50.622.2 to G50.622.6 inclusive.