

## **CABLE SPLICING — GENERAL**

### **LEAD WEDGES**

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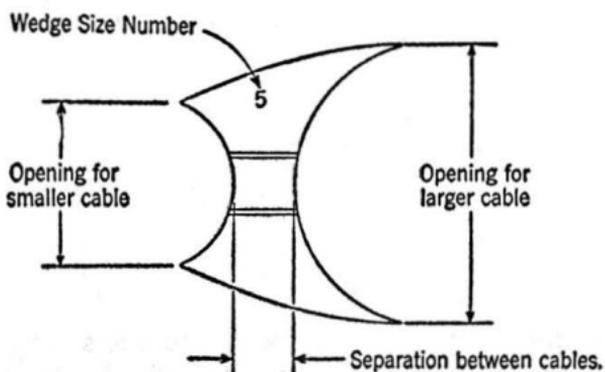
#### **1. GENERAL**

1.01 This section replaces Issue 2. It covers the use of the lead wedges provided for obtaining separation between cables entering a splice. The section has been reissued to include additional cable sizes and to cover the method of closing the end of a small sleeve when it is impracticable to employ the size 0 wedge.

1.02 The lead wedges are available in sixteen sizes. Fifteen of the wedges are for use in Y joints and the sixteenth wedge (No. 10) is for use in three-way joints.

#### **2. SIZE NUMBERS AND DIMENSIONS**

2.01 The size number is cast in the surface of each wedge for identification. The following table gives the size number and dimensions of the wedges used in Y joints.



Wedge Size Number	Smaller Cable Opening (inches)	Larger Cable Opening (inches)	Separation between cables (inches)
0	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{8}$
1	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{3}{8}$
2	$\frac{7}{8}$	$1\frac{1}{2}$	$\frac{3}{8}$
3	$1\frac{5}{16}$	2	$\frac{1}{2}$
4	2	2	$\frac{1}{2}$
5	$\frac{1}{2}$	$2\frac{5}{8}$	$\frac{3}{8}$
6	$\frac{7}{8}$	$2\frac{5}{8}$	$\frac{1}{2}$
7	$1\frac{5}{16}$	$2\frac{5}{8}$	$\frac{5}{8}$
8	2	$2\frac{5}{8}$	$\frac{5}{8}$
9	$2\frac{5}{8}$	$2\frac{5}{8}$	$\frac{5}{8}$
11	$\frac{1}{2}$	$3\frac{1}{4}$	$\frac{3}{8}$
12	$\frac{7}{8}$	$3\frac{1}{4}$	$\frac{1}{2}$
13	$1\frac{5}{16}$	$3\frac{1}{4}$	$\frac{5}{8}$
14	2	$3\frac{1}{4}$	$\frac{5}{8}$
15	$2\frac{5}{8}$	$3\frac{1}{4}$	$\frac{5}{8}$
16	$3\frac{1}{4}$	$3\frac{1}{4}$	$\frac{5}{8}$

2.02 The No. 10 wedge, illustrated below, is for use in three-way joints.



### 3. SELECTION OF WEDGE

3.01 The wedge to be used at Y joints can be determined from the following table. For **lead sheath** cables use either the pair size and gauge or the diameters of the cables entering the splice. For **alpth and stalpeth** cables use the outside diameter of the auxiliary sleeve given in Section G50.622.9. In some cases the selected wedge may not fit exactly but can be adjusted by filing or bending the ears.



Examples :

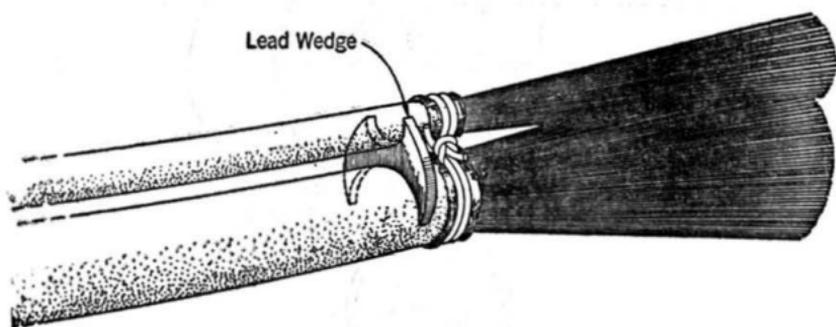
- (1) Wedge required for Y splice, 909-pair, 24-gauge, lead sheath cable and 606-pair, 26-gauge, lead sheath cable.
  - (a) Select cable sizes as shown in circles.
  - (b) Project lines as indicated. Intersection shows wedge size (3) to be used.
- (2) Wedge required for Y splice, lead sheath cable of one inch diameter and a 1515-pair, 24-gauge, alpth cable.
  - (a) Select cable sizes as shown in circles. Diameter over auxiliary sleeve of 1515-pair, 24-gauge, alpth sheath cable is 3-1/2 inches (Section G50.622.9).
  - (b) Project lines as indicated. Intersection shows wedge size (12) to be used.

3.02 In small sleeves where it is impracticable to use the size 0 wedge, crush a piece of cable sheath and fit it into the crotch.

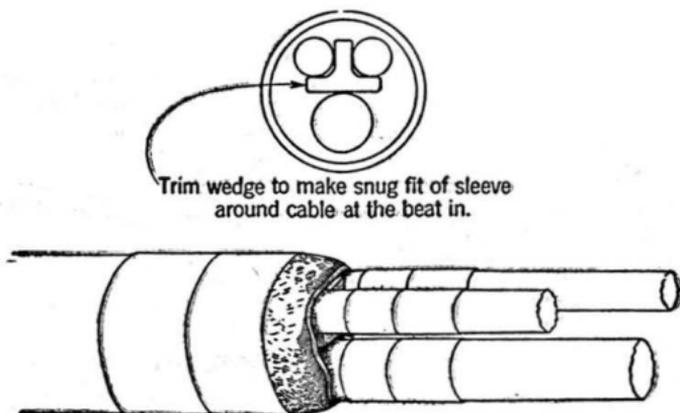
#### 4. CLEANING AND PLACING

4.01 If the splice is to be closed with a lead sleeve and wiped joints, the wedge should be thoroughly cleaned with a shave hook or carding brush and coated with stearine. If the wedge is to be used in a wrapped splice inside a building, it is not necessary to clean or coat it with stearine.

4.02 The wedge should be placed between the cables and held in place by tying the cables firmly together at the butts.



4.03 The method of using the No. 10 wedge in a three-way joint is shown in the following sketch.



Trim wedge to make snug fit of sleeve around cable at the beat in.