

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

**SECTION G52.122.6**  
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**AT&TCo Standard**

## **LASHED AERIAL CABLE**

### **HANDLING ZB CABLE LASHER**

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#### **1. GENERAL**

1.01 This section covers the use of the ZB Cable Lasher.

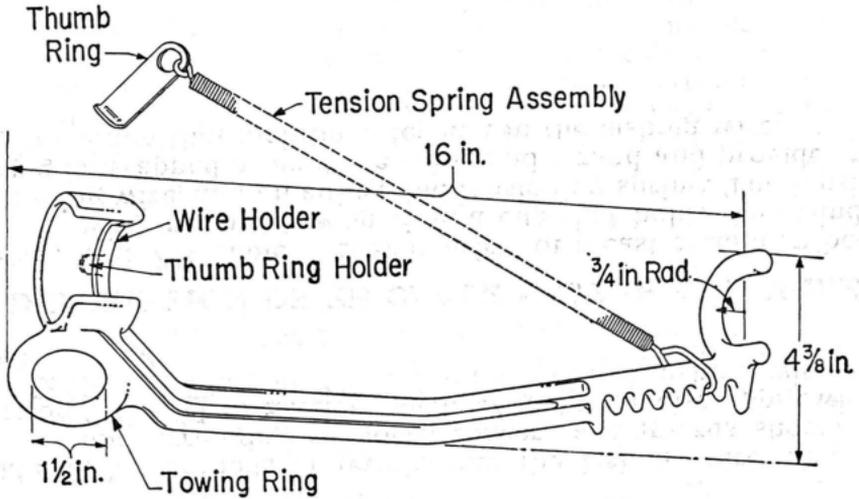
This lasher is used to lash aerial cables up to 1-1/4 inches in diameter to strand or support wires. The ZB lasher may be used on horizontal or vertical runs in commercial or industrial buildings, pole to building runs, lashing cable to supporting strand attached to building brackets, slack spans and short aerial cable extensions.

1.02 The methods of terminating the lashing wire, placing and arranging supports, spacers and guards shown in Section G52.125.1 to Section G52.125.7 inclusive, also apply when ZB Cable Lashers and ZB .045 stainless steel lashing wire are used.

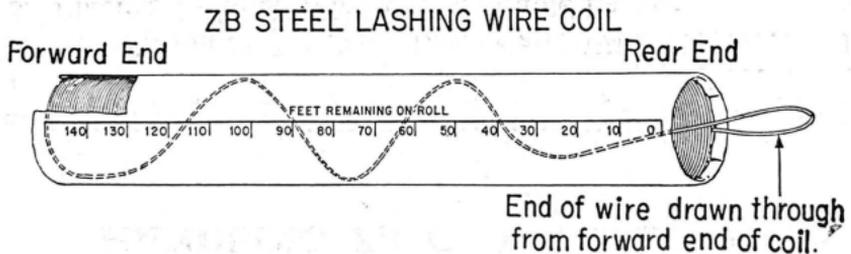
#### **2. DESCRIPTION OF ZB CABLE LASHER AND WIRE**

2.01 The ZB Cable Lasher consists of a cast aluminum body with integral towing ring, a cup that holds the cylinder of lashing wire, and an adjustable tensioning spring. The tension spring is wrapped around the cable and strand and provides the wiping action that maintains tension in the lashing wire.

## ZB CABLE LASHER



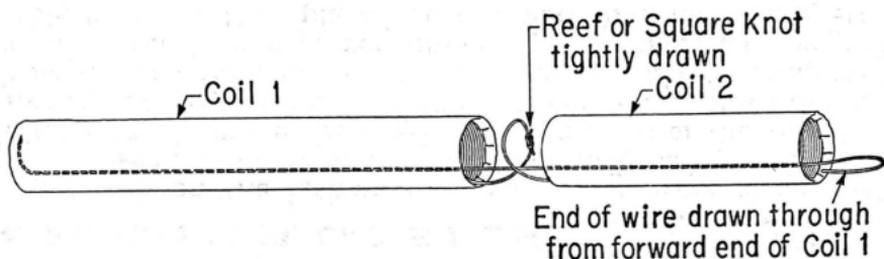
2.02 The .045 steel lashing wire is in a wax paper cylinder 2 inches in diameter and 12-1/2 inches long. The cylinder contains 150 ft. of lashing wire and markings on the cylinder indicate the number of feet remaining. To determine the length required for a span of cable, add to the span length 10% for cables approximately 1/2 inch in diameter, 20% for 3/4 inch cables, and 30% for cables 1-1/4 inch.



2.03 If more than 150 ft. of lashing wire is required for a span, additional coils or parts of coils may be taped together.

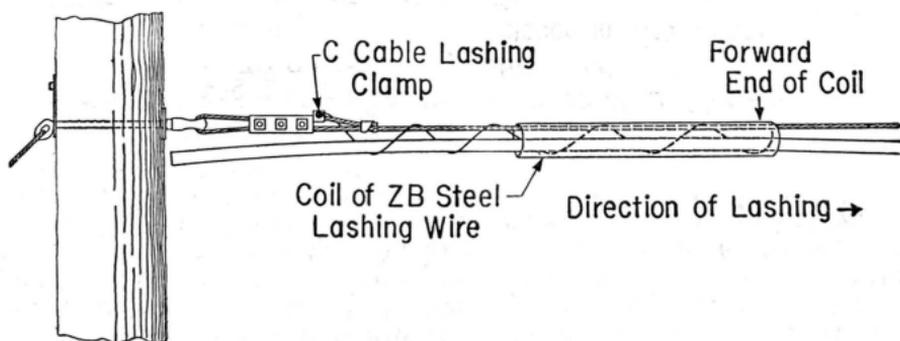
- (1) Wire from forward end of Coil 2 is cut and spliced to wire from rear end of Coil 1 using a tightly drawn reef or square knot.

- (2) Wire from the forward end of Coil 1, which is drawn through the coil to the rear is threaded on through Coil 2.
- (3) The coils are taped together with 2-inch friction tape.
- (4) More than 2 coils may be joined together using the method mentioned in 1 and 2 above. If less than 150 feet is required the coil may be cut to the desired length.

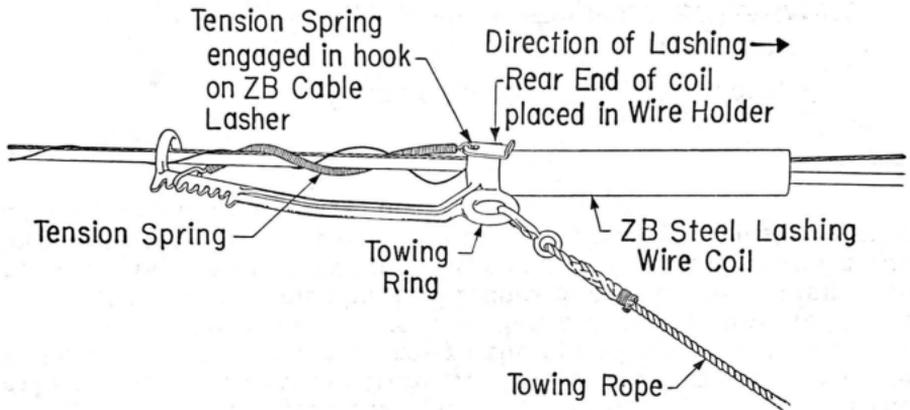


### 3. PLACING LASHING WIRE AND ZB CABLE LASHER ON STRAND

3.01 The proper length of lashing wire is placed on the strand before the strand is tensioned and dead-ended. With the cylinder about 12 inches from the strand attachment, the cable to be lashed is pulled up through the cylinder and secured. The free end of the lashing wire is pulled out and terminated. The coil is then moved out about 18 inches allowing the lashing wire to form loose spirals around the cable and strand. Smooth the loose spirals toward the cylinder to tighten the lashing wire around the cable and strand.



3.02 Place the ZB Cable Lasher over the strand and cable, slot down, pulling ring toward the wire coil. Adjust lasher so pulling eye is below the strand and cable. The tensioning spring is then passed clockwise around the strand and cable one complete wrap with the thumb ring attached to the thumb ring holder on the wire cup. Move the cable lasher to the wire coil and insert the cylinder in the wire cup as shown below.



3.03 Attach a towing line to the towing ring and pull the entire assembly along the strand. The tensioning spring should be tight enough to lash cable and strand closely but not so tight that the lasher does not pull smoothly.

#### 4. REMOVING ZB CABLE LASHER

4.01 When the lashing of a span or section is completed, secure the lashing wire temporarily using a C Lashing Wire Grip. Remove the tensioning spring from the thumb ring holder, back the lasher from the wire coil and remove the lasher from the strand. Pull enough wire from the coil to complete the termination. The wire remaining on the coil is cut away. The cable lasher is then placed on the next span and the operation continued.