

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

**SECTION G52.124.2**  
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**LASHED AERIAL CABLE**  
**DIRECT LASHING METHOD**

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**1. GENERAL**

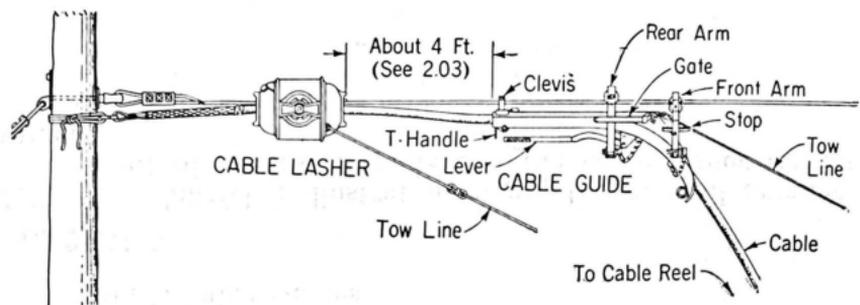
1.01 This section replaces Issue 1. It covers the lashing of aerial cable directly from a moving reel without the use of temporary supports. This method is appropriate when a cable reel trailer can be towed along the side of the pole line on which the cable is to be placed, and there are no obstructions such as trees, guys, etc. to prevent raising the cable to the strand. If the cable is paid off the bottom of the reel, it should be protected from contact with the ground. Cable Reel Brakes and TF Cable Guides are covered in other sections.

1.02 The direct lashing method has the advantage of not requiring the placing or removing of temporary supports and automatically provides a slight tension in the cable ahead of the lasher as the cable is raised to the strand.

1.03 The section is reissued to include information on the B and C Cable Guides.

**2. LASHING**

2.01 The following illustration shows the general arrangement of the cable guide and the cable lasher on the strand.



2.02 Separate towing lines should be attached to the cable guide and the cable lasher to facilitate transferring from one span to the next and to provide satisfactory control during the lashing operation. The rotation of the cable reel should be controlled to prevent either excessive free running or excessive tension due to the cable binding against adjacent turns or the reel flanges. Suitable signaling arrangements should be used in order that the lashing operations may be closely controlled. Where grades are present it is preferable to lash downhill.

2.03 The distance between the guide and the lasher should be about four feet, but may be increased if lead sleeves are towed along the cable, between the guide and the lasher, to proposed splice locations.

2.04 Attach both front and rear arms of the B or C Cable Guide on the side of the guide opposite the pole. Place the head of the straightener attachment bolt on the pole side of the guide. Place the guide on the strand with the front arm swung on its hinge away from the strand.

2.05 During the lashing operation the guide is pulled along the strand with the rear arm roller riding on the strand. The rear arm gates are locked in position and the clevis and pin at the extreme rear of the straight portion are engaged with the strand.

2.06 If the workman is on the pole as the cable guide approaches, he should take a position on the opposite side of the pole from the strand.

2.07 At cable ends it is necessary to maintain tension on the cable after the last wrap has come off the reel and until the cable has been completely lashed. This may be accomplished by using a cable grip or a series of half hitches on the end of the cable and having a workman exert a pull on the rope as the lashing is completed.

- 2.08 At mid-span cable splice locations, the cable guide and lasher should be handled as follows:
- (1) Pull the cable guide and lasher forward until the guide has cleared the end of the cable.
  - (2) Place a ladder between the lasher and the guide at the approximate location of the splice.
  - (3) Clamp the lashing wire to the strand, pull out sufficient wire for permanently terminating and cut it off.
  - (4) Tape the cable to the strand at a point near the splice side of the cable lashing clamp.
  - (5) Pull the lasher forward until it clears the cable end.
  - (6) Pull the end of the next section of cable up through the cable guide so that a proper overlap is obtained.
  - (7) Position the end of the new section of cable in the lasher and close the cable lifters.
  - (8) Tape the overlapping cable ends securely together with a double layer of half-lapped 2-inch friction tape for a sufficient length to prevent slippage at the overlap under the tensions which are likely to exist in the sections of cable previous to the splicing work. Temporarily support the unlashed portion of the cables.
  - (9) Clamp the lashing wire to the strand, leaving sufficient wire for permanently terminating, and proceed with the lashing.
  - (10) Tape the cable to the strand at a point near the splice side of the clamp.

2.09 The rollers of the guide will pass over strand links, but the clevis pin must be removed to allow the clevis to pass. The rollers will not pass over strand connectors.

2.10 At cable end poles the cable should be taped to the strand after the lashing wire has been permanently terminated.

### 3. TRANSFERRING AROUND POLES

3.01 On large cables tension must be maintained on the towing line to the B Cable Lasher while the cable guide is being transferred (C and D Lashers are equipped with internal brakes). To transfer the aerial cable guide around a pole from one span to another, proceed as follows:

#### (a) Transferring "B" and "C" Cable Guides

- (1) Pull the guide so that the front arm passes the suspension clamp or pole strand connector at the pole and the rear arm reaches the clamp or connector.
- (2) Push the lever down. This will raise the front of the guide.

- (3) Swing the front arm upward to engage its roller with the strand and lock it in position with its stop.
  - (4) Open the rear arm gate. Grasp the rear arm with one hand and with the other hand push the lever upward. Swing the rear arm away from the strand.
  - (5) Pull the guide forward until the clevis reaches the suspension clamp.
  - (6) Transfer the support back to the rear arm by reversing the above procedures. Be certain that the rear arm gate is closed and swing the front arm down. (The front arm may be left engaged until after the clevis has passed the pole if desired.)
  - (7) Remove the clevis pin and pull the clevis past the suspension clamp while the rear of the guide is held down by pulling down on the T-handle.
  - (8) Re-engage the clevis and pin.
- (b) Transferring "Two Inch" Aerial Cable Guide
- (1) After the cable guide has been pulled up close to the suspension clamp place a rope sling around the throat of the guide and the strand in the next span to support the weight of the guide and cable during the transferring operation.
  - (2) Lift the roller off the strand and pull the guide forward until the roller is past the suspension clamp. In order to do this with a large cable, it may be necessary to raise the cable and temporarily support it in a horizontal position past the pole.
  - (3) Place the roller back on the strand in the next span and remove the rope sling.
  - (4) Remove the rear pin and pull the guide forward until it is entirely past the suspension clamp.
  - (5) Replace the rear pin on the strand and pull the guide far enough forward to permit transferring the lasher.

#### 4. PRECAUTIONS AT CORNERS

4.01 The B and C guides can be passed by corners with pull toward the pole up to about 10 feet, and with pull away from the pole up to about 5 feet, depending on the size of the cable. For greater pull it will be necessary to lift the cable between the pole and reel with a block and tackle or other means in order to pass the guide safely around the corner.

4.02 Use the Corner Cable Jack to position the cable at corner poles. Its use is covered in another section.