

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G52.175.2
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AT&T Co Standard

B DISTRIBUTION CABLE
LASHED CONSTRUCTION

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1. GENERAL

1.01 This section covers the general methods involved in lashing B Distribution Cable to its supporting strand and includes the termination of the lashing wire and the arrangement of supports and spacers.

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2. POSITIONING CABLE

2.01 Where local conditions do not permit the direct lashing method described in Section G52.124.2 to be employed, the methods described in Sections G52.124.3, G52.124.4, and G52.124.5 may be used to position the cable preparatory to lashing.

2.02 Place a 3/4 inch cable grip on the end of the cable and tape the wire ends of the grip securely to the neoprene jacket of the cable. For the 11- and 16-pair B Distribution Cables, build up the diameter with friction tape before attaching the cable grip. Attach the pulling-in line to the cable grip. Cable lubrication is not required during the pulling-in operation.

3. LASHING CABLE

3.01 In lashing neoprene jacketed cables, use lashing wire of the same kind as would normally be used to lash lead covered cables. However, a somewhat lower lashing wire tension is required, and the following arrangements are recommended when lashing such cables.

(a) When the B Cable Lasher is used, it should be equipped with a 1-3/4 inch tensioning pulley for 091B Steel Lashing Wire, or a 1-1/4 inch tensioning pulley for 091B Aluminum Lashing Wire and 065C Steel Lashing Wire.

(b) When the D Neale Spinner is used, reverse the position of the small and large guide rollers (see G52.122.3). To thread the lashing wire, pass the wire between the guide rollers, then thread the wire around the wire tension wheel in an anti-clockwise direction (viewed from top of wheel), and pass the end **under** the wire coming from the guide roller.

3.02 During the lashing operation, approximately 50 pounds tension should be maintained on the cable ahead of the lasher to insure satisfactory lashing.

3.03 At proposed distribution terminal splice locations, 9 inches of slack cable is required to permit the splice to be made. This is obtained during the lashing operation as follows:

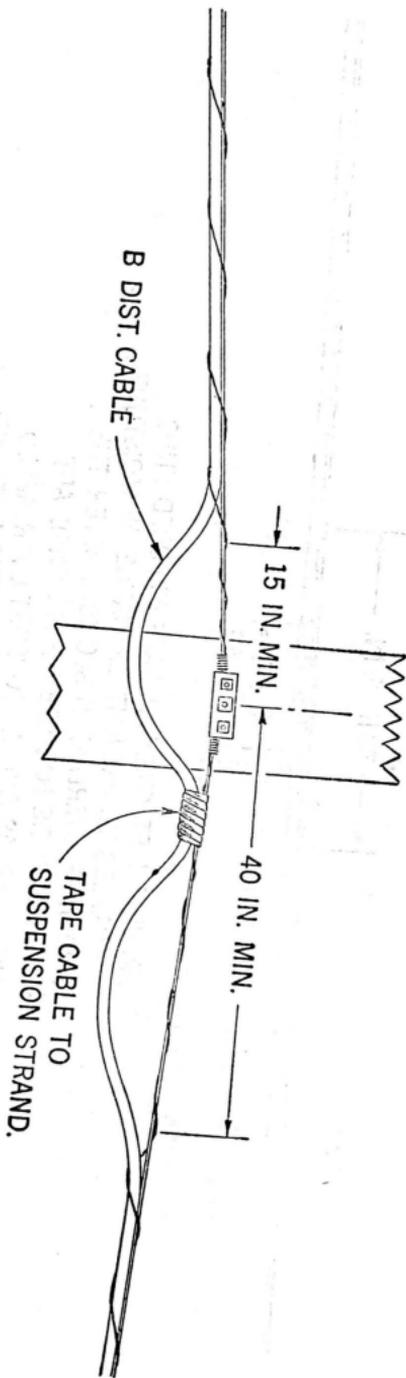
(1) After the lasher has been transferred to the next span, raise the cable and position it in the lasher in the regular manner.

(2) Pull out sufficient lashing wire for terminating and clamp the lashing wire to the strand with a lashing wire clamp or a one-bolt clamp.

(3) Release the locking bolt.

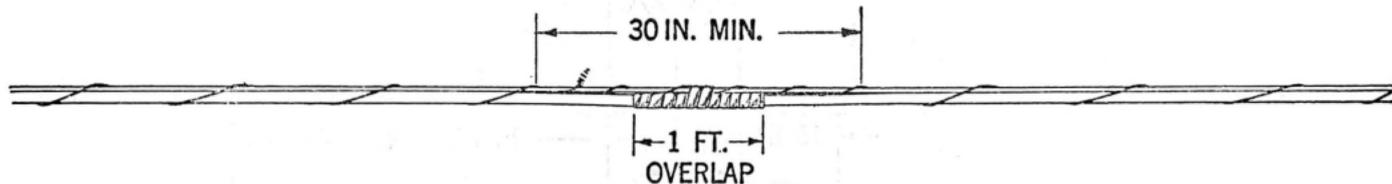
(4) Pull 9 inches of cable through the lasher. While holding this section of the cable securely against the strand, proceed with the lashing operation. Do not release the cable until after the lasher has progressed far enough along the span to insure that the cable in the span is held securely by the lashing wire.

(5) Terminate both lashing wires and support cable as shown.



**B DISTRIBUTION CABLE
LASHED CONSTRUCTION**

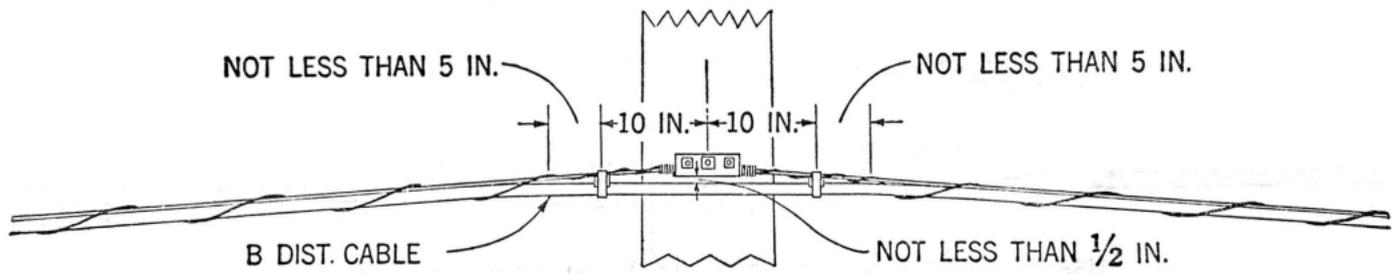
- 3.04 At cable ends, provide an overlap of 1 foot. Tape cable ends, arrange lashing wire, and tape the overlapped cable ends to the strand as shown.



PROVIDE 1 FT. OVERLAP. TAPE EXPOSED ENDS OF CABLES TO PREVENT ENTRANCE OF MOISTURE AND TAPE OVERLAPPED SECTION. AFTER THE LASHING WIRE HAS BEEN POSITIONED AND PIGTAILED AS SHOWN, SUPPORT OVERLAPPED SECTION BY TAPING TO SUSPENSION STRAND.

4. SUPPORTING ARRANGEMENTS

4.01 At poles where no splice is to be made, terminate lashing wire and arrange supports as shown.



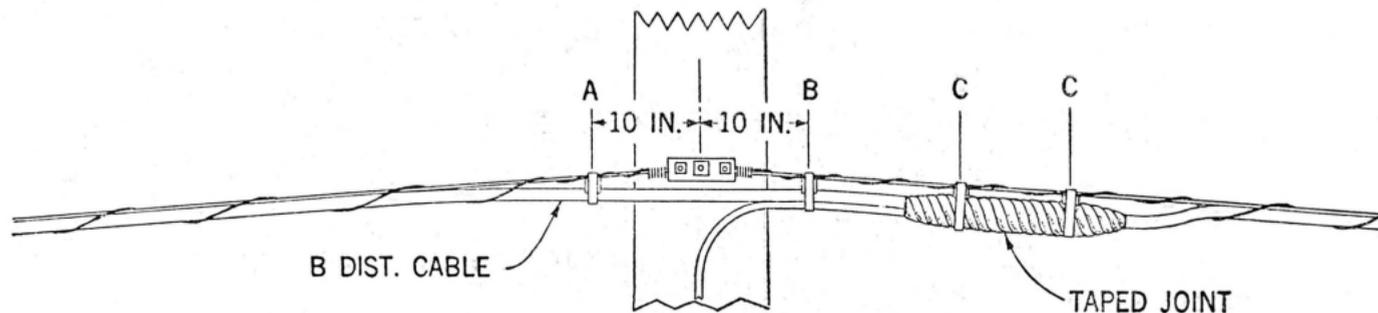
USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN A SEPARATION OF AT LEAST 1/2 IN. BETWEEN THE CABLE AND THE SUSPENSION CLAMP.

4.02 At splices in the span, arrange supports as shown.



USE LASHED CABLE SUPPORTS AND $\frac{1}{4}$ IN. CABLE SPACERS.

4.03 At distribution terminals, arrange supports as shown.



AT POINTS "A" AND "B" USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN A SEPARATION OF AT LEAST $\frac{1}{2}$ IN. BETWEEN THE CABLE AND THE SUSPENSION CLAMP.

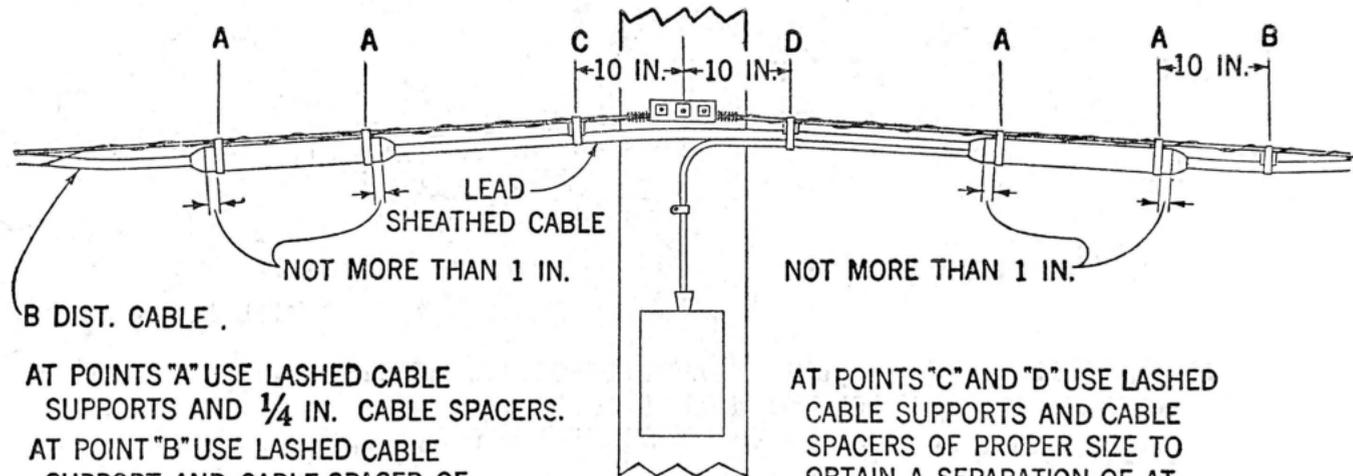
AT POINT "B" THE FIRST TWO WRAPS OF THE SUPPORT ARE MADE AROUND THE STRAND AND THE MAIN CABLE. THE THIRD WRAP IS MADE AROUND THE STRAND, MAIN CABLE, AND TERMINAL STUB.

AT POINTS "C" USE LASHED CABLE SUPPORTS AND $\frac{1}{4}$ IN. CABLE SPACERS.

Note: If protection is required, locate 83A Protector Mountings as shown in Section G32.130.

4.04 At junctions between B Distribution Cable and existing plant, the following arrangements may be employed.

(a) Direct Splice.

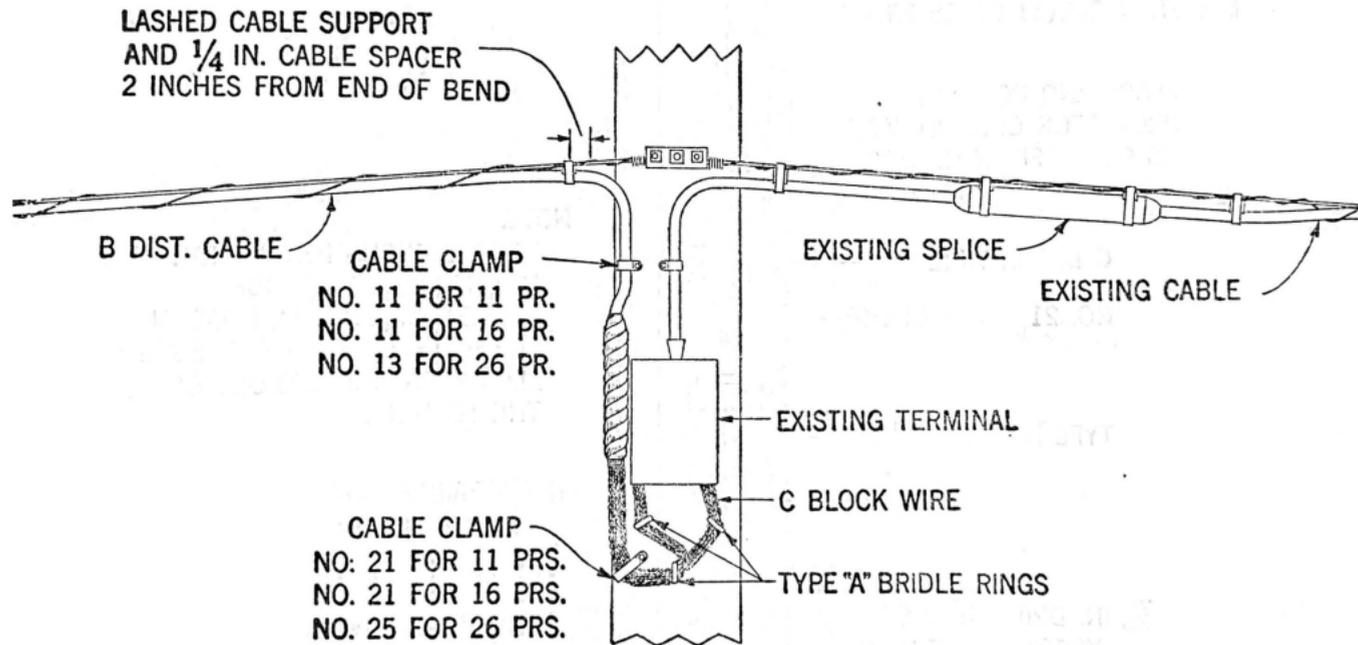


AT POINTS "A" USE LASHED CABLE SUPPORTS AND $\frac{1}{4}$ IN. CABLE SPACERS.
 AT POINT "B" USE LASHED CABLE SUPPORT AND CABLE SPACER OF THE PROPER SIZE TO HAVE CABLE PARALLEL TO STRAND BETWEEN THE SUPPORT AND SPLICE.
 FOR CONDITIONS WHICH REQUIRE AN AERIAL CABLE SUPPORT SEE G52.125.1.

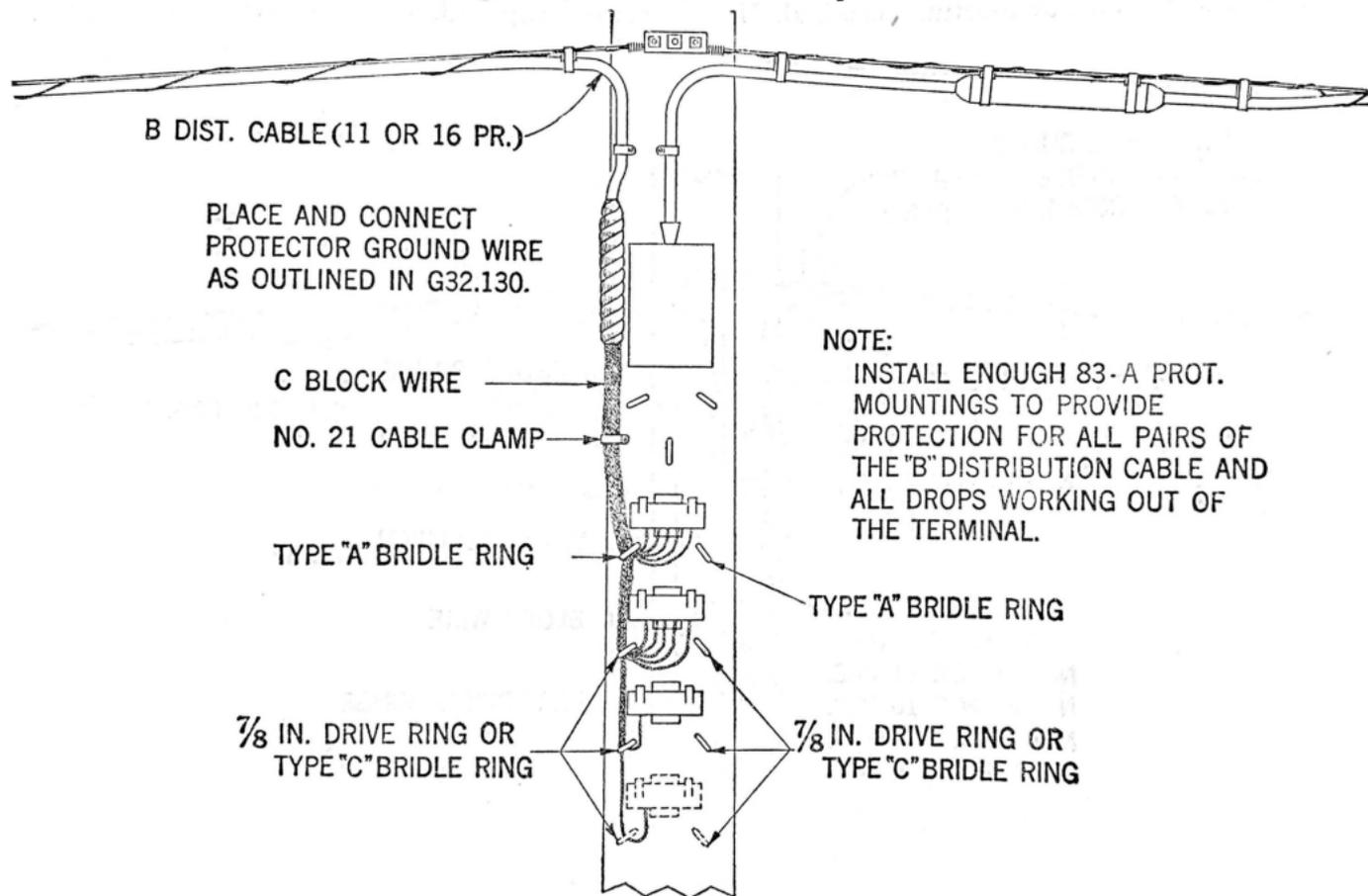
AT POINTS "C" AND "D" USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN A SEPARATION OF AT LEAST $\frac{1}{2}$ IN. BETWEEN THE CABLE AND THE SUSP. CLAMP.

AT POINT "D" THE FIRST TWO WRAPS OF THE SUPPORT ARE MADE AROUND THE STRAND AND THE MAIN CABLE. THE THIRD WRAP IS MADE AROUND THE STRAND, MAIN CABLE, AND TERMINAL STUB.

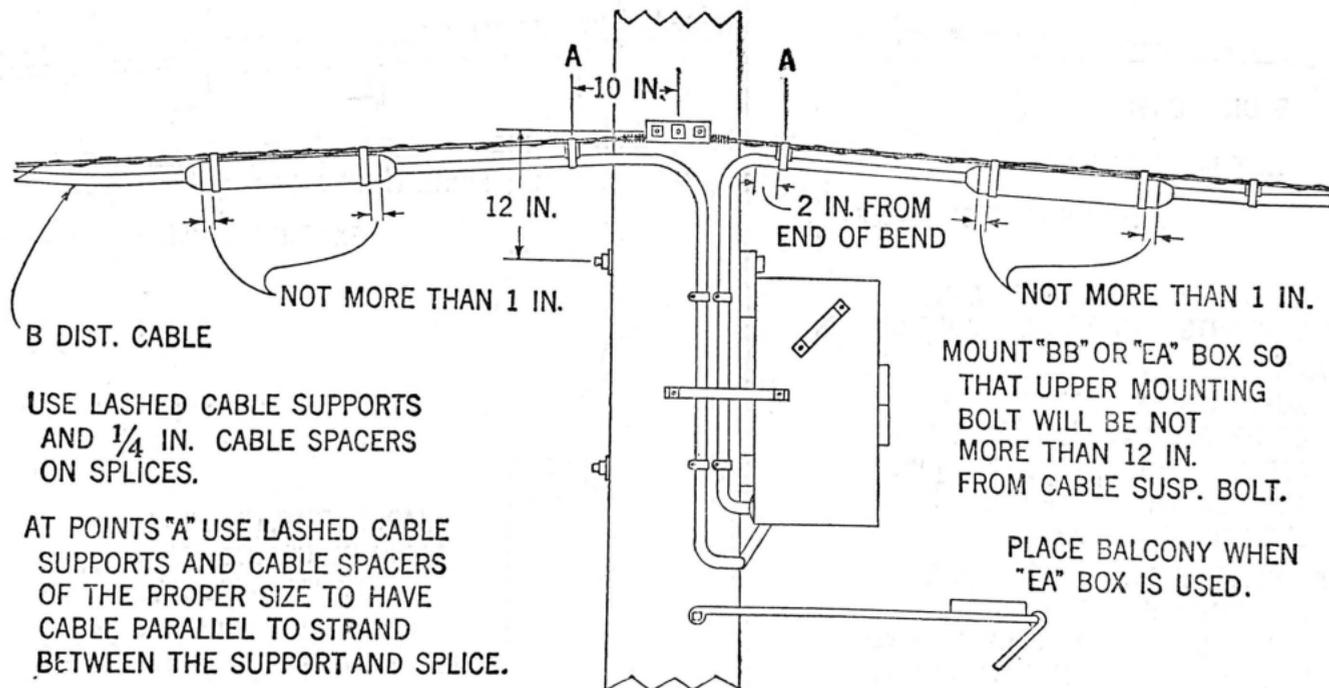
(b) C Block Wire at existing terminal. No protection required.



(c) C Block Wire at existing terminal. Protection required.



(d) BB-26 and EA-26 Cable Terminal Box.



B DIST. CABLE

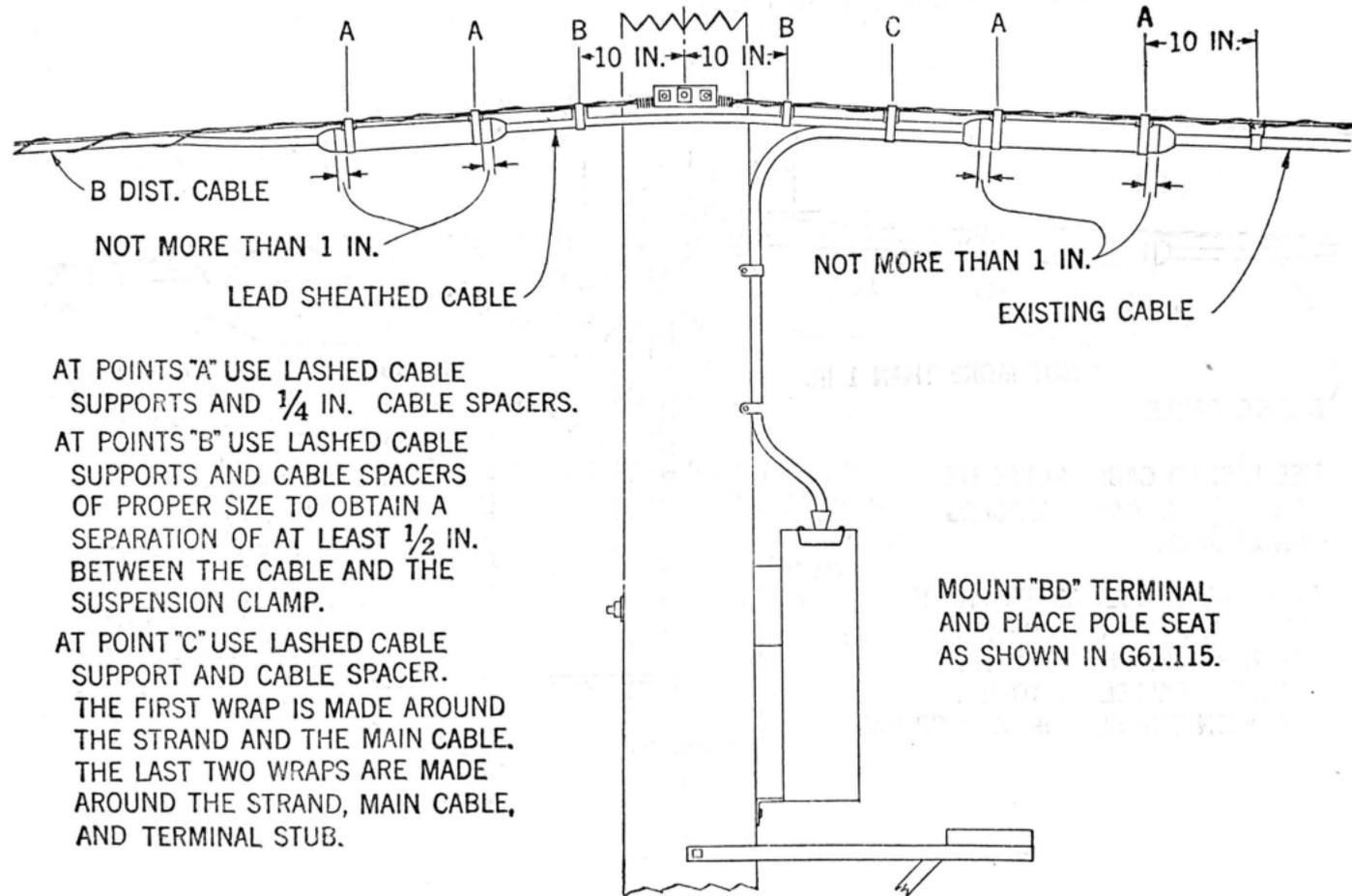
USE LASHED CABLE SUPPORTS
AND $\frac{1}{4}$ IN. CABLE SPACERS
ON SPLICES.

AT POINTS "A" USE LASHED CABLE
SUPPORTS AND CABLE SPACERS
OF THE PROPER SIZE TO HAVE
CABLE PARALLEL TO STRAND
BETWEEN THE SUPPORT AND SPLICE.

MOUNT "BB" OR "EA" BOX SO
THAT UPPER MOUNTING
BOLT WILL BE NOT
MORE THAN 12 IN.
FROM CABLE SUSP. BOLT.

PLACE BALCONY WHEN
"EA" BOX IS USED.

(e) BD-102 Cable Terminal.



B DIST. CABLE

NOT MORE THAN 1 IN.

LEAD SHEATHED CABLE

AT POINTS "A" USE LASHED CABLE SUPPORTS AND $\frac{1}{4}$ IN. CABLE SPACERS.

AT POINTS "B" USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN A SEPARATION OF AT LEAST $\frac{1}{2}$ IN. BETWEEN THE CABLE AND THE SUSPENSION CLAMP.

AT POINT "C" USE LASHED CABLE SUPPORT AND CABLE SPACER. THE FIRST WRAP IS MADE AROUND THE STRAND AND THE MAIN CABLE. THE LAST TWO WRAPS ARE MADE AROUND THE STRAND, MAIN CABLE, AND TERMINAL STUB.

NOT MORE THAN 1 IN.

EXISTING CABLE

MOUNT "BD" TERMINAL AND PLACE POLE SEAT AS SHOWN IN G61.115.

(f) Where a special F-type terminal is used for terminating the B Distribution Cable, it should be located at the same level as the existing terminal and one-fourth the distance around the pole.