

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G61.613.2
Issue 3, June, 1958
AT&T Co Standard

CABLE SPLICING—TERMINALS
BD CABLE TERMINALS

Contents	Page
1. General	1
2. Sizes	1
3. Splicing Information	2
4. Splicing Terminals	7

1. GENERAL

1.01 This section describes the splicing of BD Type Cable Terminals which are used for cross-connecting purposes in cable plant.

1.02 The section has been reissued to include the wiring[↑] sequence of extra pairs to conform to the new **EVEN CABLE COUNT PLAN**.

1.03 Under the new **EVEN CABLE COUNT PLAN** binding post numbers are used to identify feeder cable pairs and cable pair numbers are used to identify distribution cable pairs. ↘

1.04 The description of the BD Type Cable Terminals, their location, installation, marking and wiring are covered in other sections of the Practices.

2. SIZES

2.01 The BD Terminals are available in five sizes; namely, BD102, BD202, BD304, BD404, and BD606.

2.02 The code designations indicate the total number of cable pairs terminated as distinguished from the coding of the BB Terminals; for example, the BD102 Cable Terminal corresponds in cable pair capacity to the BB51 Cable Terminal.

3. SPLICING INFORMATION

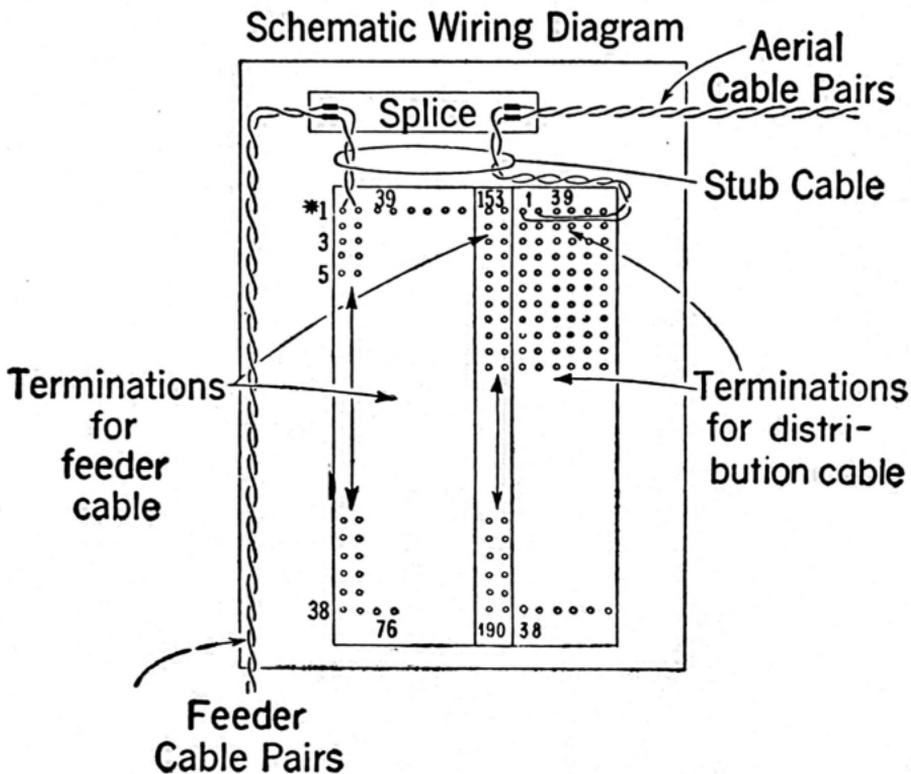
3.01 The single binding post chamber is equipped with a 10-foot long pulp insulated stub cable which enters the top of the terminal. The present terminal stubs have 24-gauge conductors; they were 22 gauge previously.

3.02 The stub cable was terminated with the white wires of the pairs (blue wires of tracers) on the left-hand binding post of each binding post pair looking at the face of the terminal. The tracer pairs of the stub cables are given in the following table:

<u>Terminals</u>	<u>Tracer Pairs</u>
BD102	51 and 102
BD202	101 and 202
BD304	51, 152, 203, and 304
BD404	101, 202, 303, and 404
BD606	101, 202, 303, 404, 505, and 606

3.03 Typical wiring diagrams are shown in the following[†] illustrations for terminals sizes 102 to 404 inclusive. **These terminals are vertically wired and pairs assigned to the terminals start at the upper left binding post and extend vertically throughout the box to the end of the count, including the distribution count.** Any unused binding posts would appear at the end of the sequence. Thus feeder pairs 1—300 plus distribution pairs 1—100 would use binding posts 1—400 leaving binding posts 401—404 vacant.

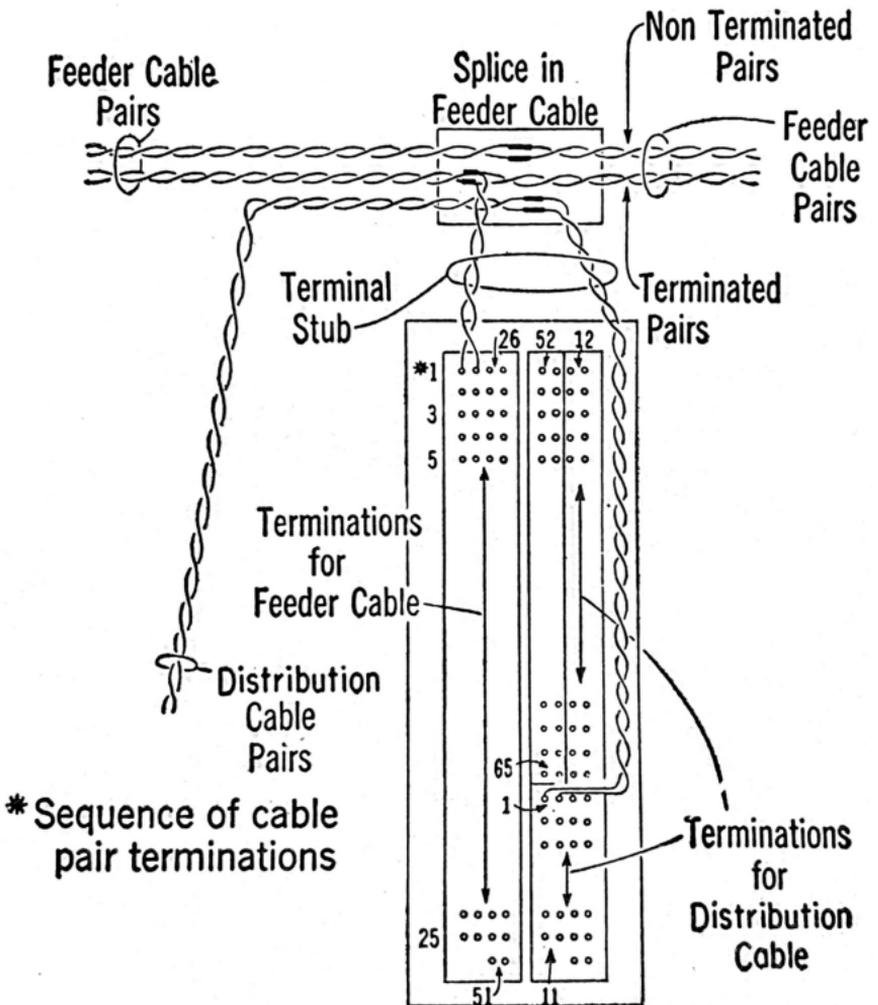
(a) At junction of feeder cable and a single distribution cable.



* Sequence of cable pair terminations

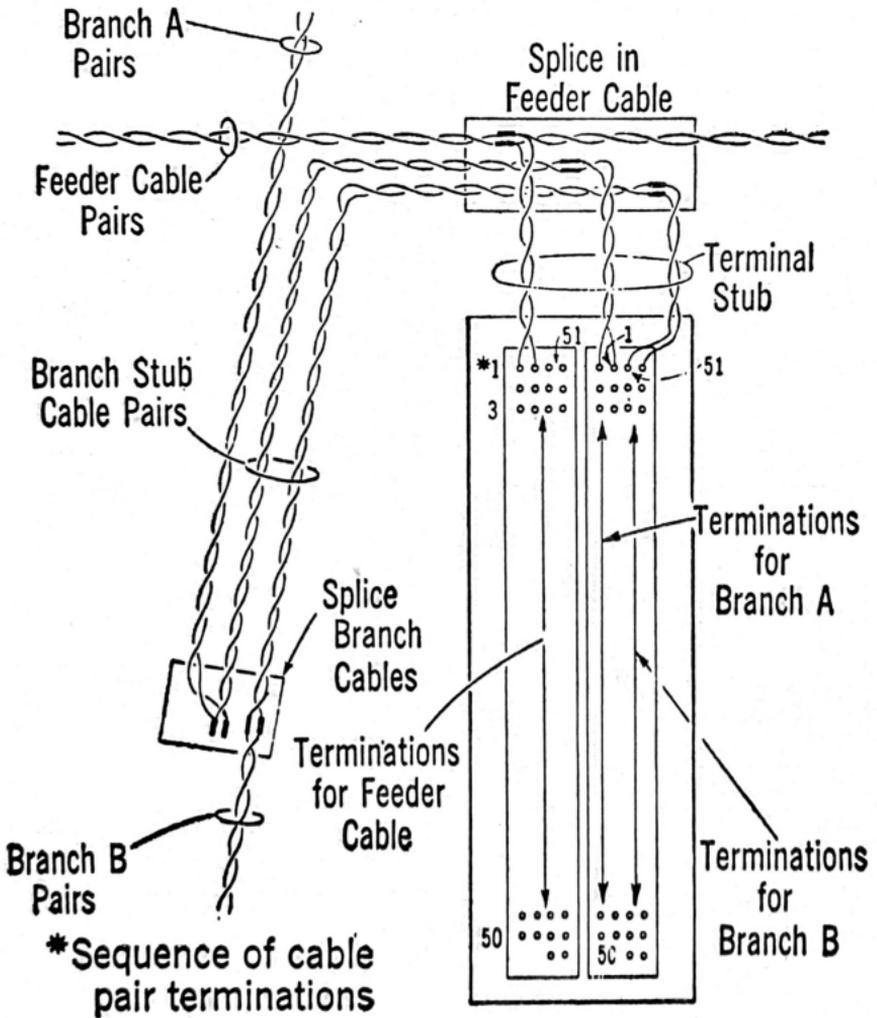
(b) At junction of an aerial feeder cable and a single distribution cable.

Schematic Wiring Diagram

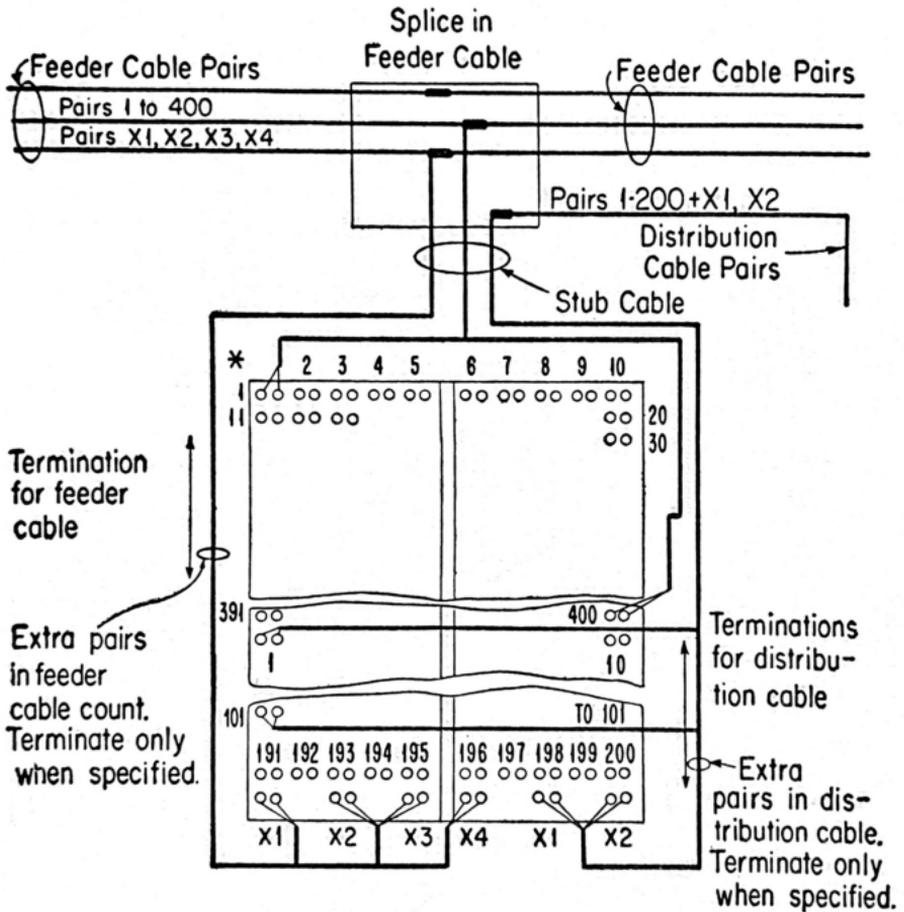


(c) At junctions of an aerial feeder cable and two branch cables.

Schematic Wiring Diagram

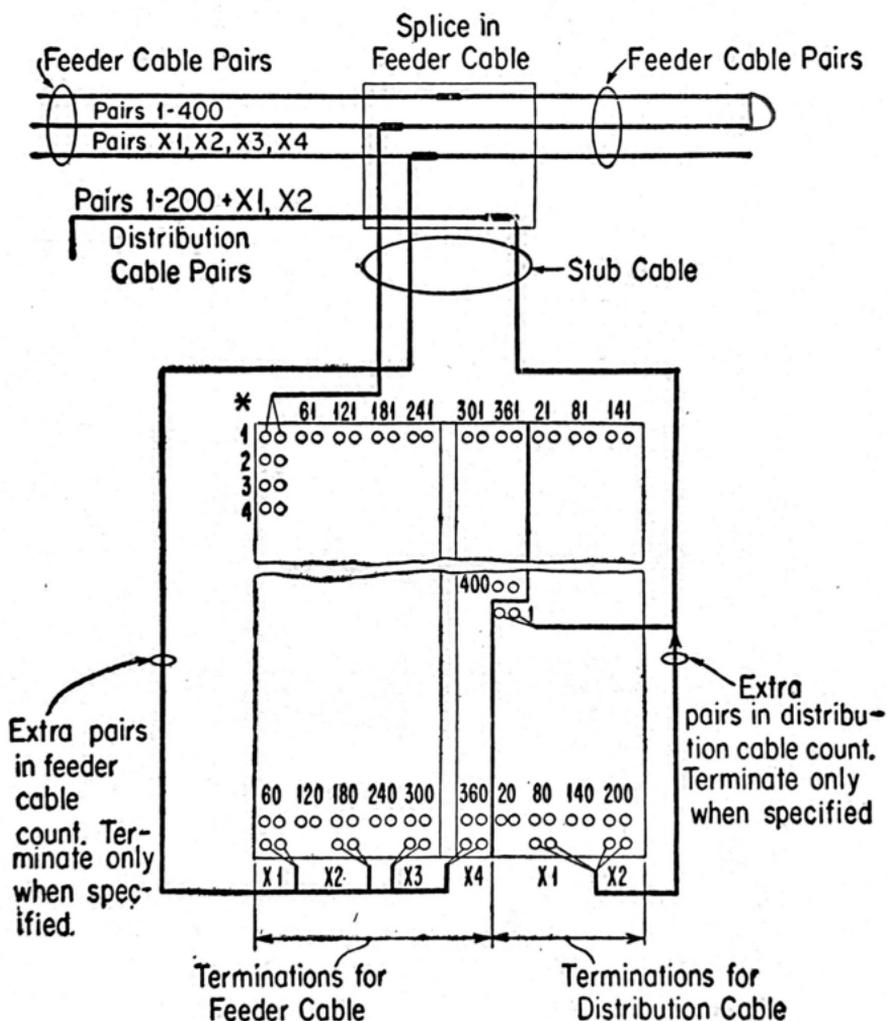


3.04 The BD606 Terminal with stub cable pairs terminated* in horizontal sequence is marked **Horizontal Sequence** across the top of the faceplate. The feeder and distribution cable pairs should be terminated as shown in the following illustration. The extra pairs, if terminated, should appear on the extra binding posts at the bottom of the terminal.



* Horizontal sequence of Cable Pair Terminations

3.05 The BD606 Terminals of earlier manufacture were wired vertically. The feeder and distribution cable pairs should be terminated as shown in the following illustrations. The extra pairs, if terminated, should appear on the extra binding posts at the bottom of the terminal.



* Sequence of Cable Pair Terminations

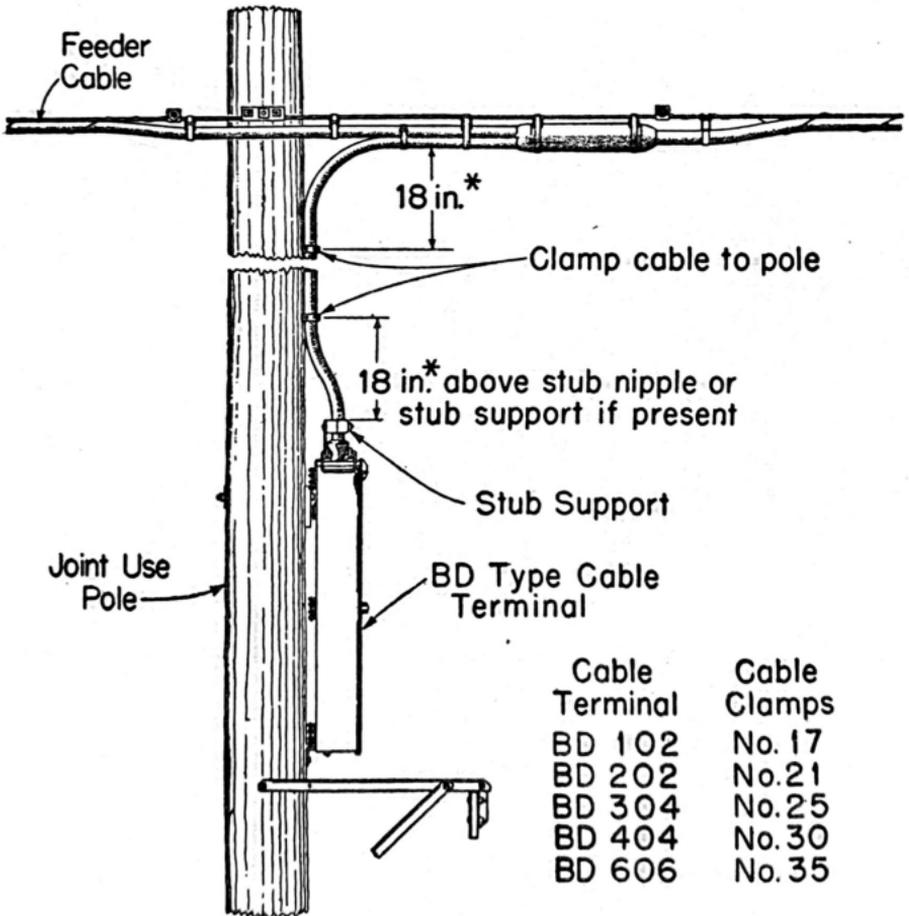
4. SPLICING TERMINALS

4.01 Remove the metal stub cable support and return it for credit in accordance with local instructions. Retighten the bolts which secured the support to the top of the terminal

in order to prevent water from entering the terminal at these points.

4.02 The BD304, 404, and 606 Terminals have an additional stub support, consisting of two wooden blocks bolted together around the stub about six inches above the top of the terminal and fastened securely to the terminal by an iron strap. This should be left in place to support the stub.

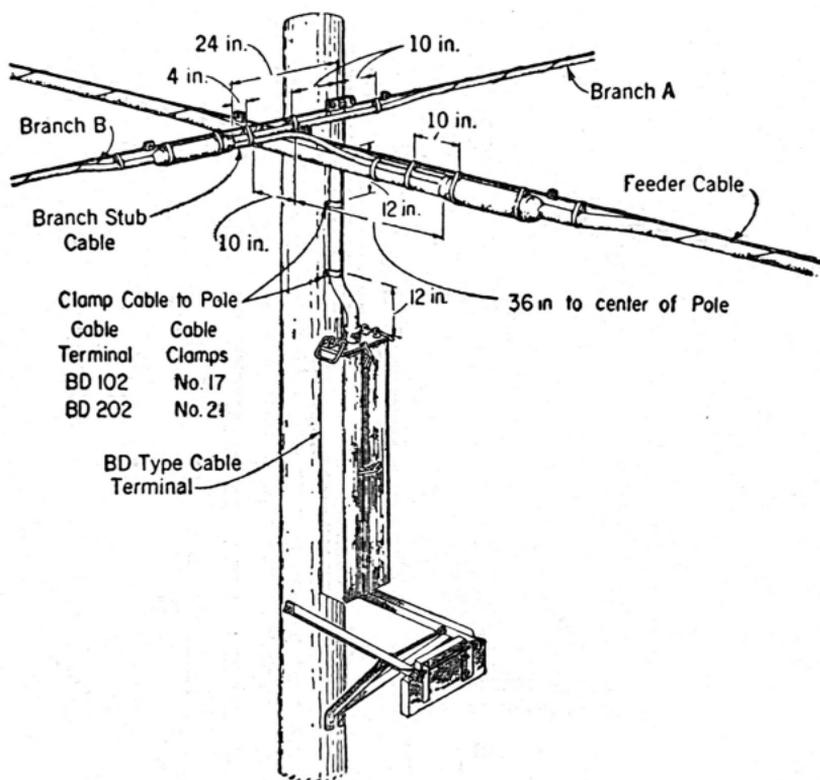
4.03 Where the BD Terminal of any size is mounted on a joint-use pole, the stub cable is to be attached to the pole by means of cable clamps as indicated, using 2-inch Strap Nails.



Cable Terminal	Cable Clamps
BD 102	No. 17
BD 202	No. 21
BD 304	No. 25
BD 404	No. 30
BD 606	No. 35

* 12 in. for BD 102 and BD 202 Cable Terminals

4.04 Where 102 and 202 pair BD Terminals are mounted on pole or wall, the stub cable is to be attached to the mounting surface by means of cable clamps as indicated, using 2-inch Strap Nails on poles and 1/4-inch x 1-inch Hammer Drive Anchors on masonry walls.



4.05 Where the distance between the cable suspension strand and through bolt which secures the detachable mounting bracket is more than 4 feet 6 inches, with the BD304, 404, or 606 pair Terminal, attach the stub to the mounting surfaces as in Paragraph 4.04.

4.06 On non-joint-use poles, and on walls, where the distance between the cable suspension strand and the through bolt which secures the detachable mounting bracket is 4 feet 6 inches or less, BD Terminals of 304, 404, and 606 pair size are mounted as illustrated below. The stub cable is straightened and taken directly to just below the strand or cable where it is bent for the splice. It is NOT fastened to the pole.

