

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

**SECTION G61.115.4**  
**Issue 1, March, 1955**  
**AT&T Co Standard**

**BD TERMINALS**  
**WIRING**

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**1. GENERAL**

- 1.01 This section covers the installation of Cross-Connecting and Drop Wires in BD Cable Terminals.
- 1.02 Use Cross-Connecting Wire for cross-connecting cable pairs in BD Terminals.
- 1.03 Where a cable pair becomes spare on the disconnection of a drop at a distribution terminal and it appears in a cross-connecting terminal, local instructions govern removal of the associated cross connection.
- 1.04 In referring to cable pair terminations in BD Terminals in this section, **feeder cable pairs** are the pairs leading back to the central office while **distribution cable pairs** are those going to the subscribers.

**2. INSTALLING CROSS-CONNECTING WIRES**

- 2.01 Install cross-connecting wires in accordance with the following procedure:
- (a) Insert one end of the wire through the proper wiring hole for the binding posts of a distribution cable pair. For binding posts to the right of the wiring holes select a hole immediately above the line of binding posts and for those to the left of the wiring holes select a hole immediately below the line of binding posts. Select the lower of the two wiring holes of the BD304, BD404, and BD606 Terminals for wires to be terminated on the nearest two pairs of binding posts and the higher hole for connections to the furthestmost binding posts.

(b) Terminate the cross-connecting wire under the lower washers on the binding posts of a distributing cable pair. Connect the tracer conductor to the right-hand post.

(c) **When cross-connection is to be made on the same side of the chamber**, run the wire in the wiring channel behind the faceplate extension and through the proper wiring hole for the binding posts of the cable pair.

(d) **When cross-connection is to be made between opposite sides of the chamber** proceed as follows:

(1) In BD102, BD202, BD304 and BD404 Terminals equipped with wiring shelves route cross-connecting wire terminating on the top third of the feeder cable pairs over the wiring shelf as illustrated by Cross-Connecting Wires A and B in the following drawing. Run jumpers to the remaining feeder cable pairs around the bottom of the chamber behind the wire guards as illustrated by Cross-Connecting Wires C and D.

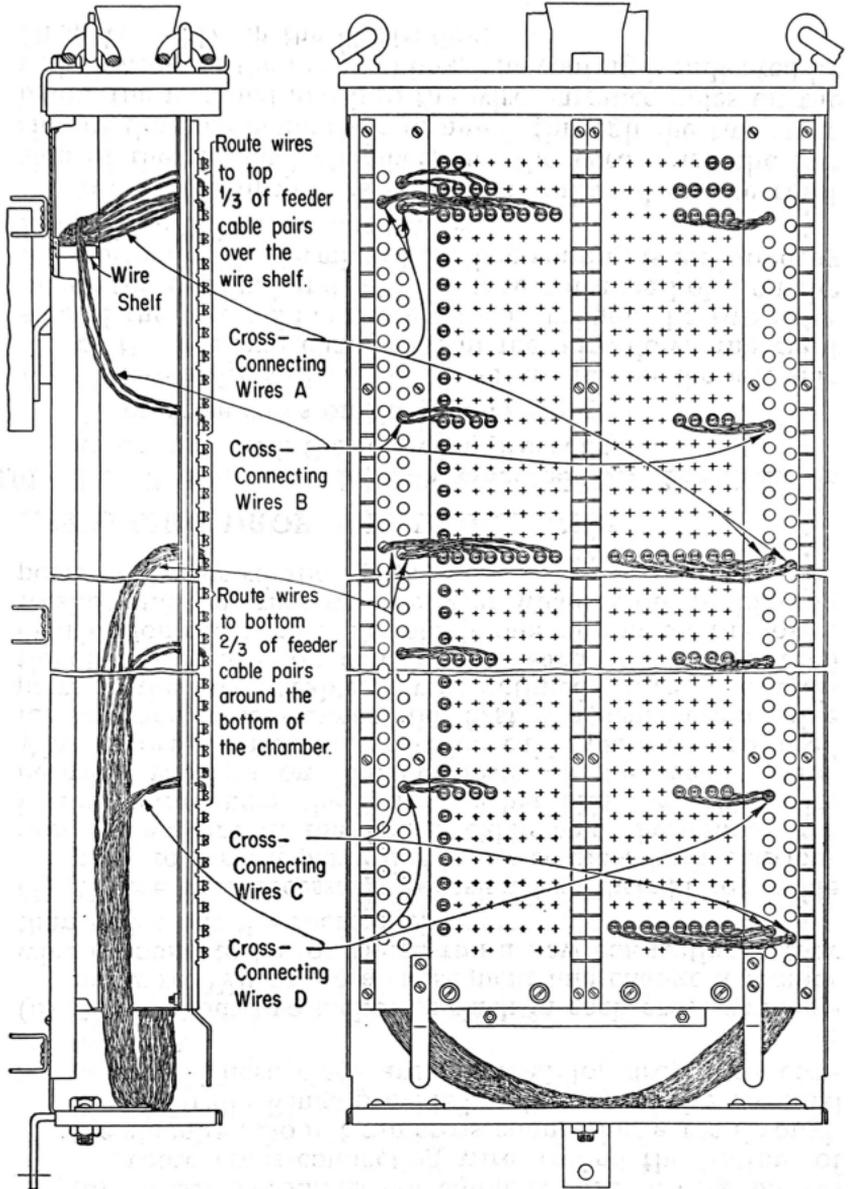
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# BD TERMINALS - 404 PAIR AND SMALLER RUNNING CROSS-CONNECTING WIRES



In the case of the BD606 Terminal, route cross-connecting wires over any of the three wiring shelves in the back of the chamber or around the bottom of the chamber whichever provides the shortest routing.

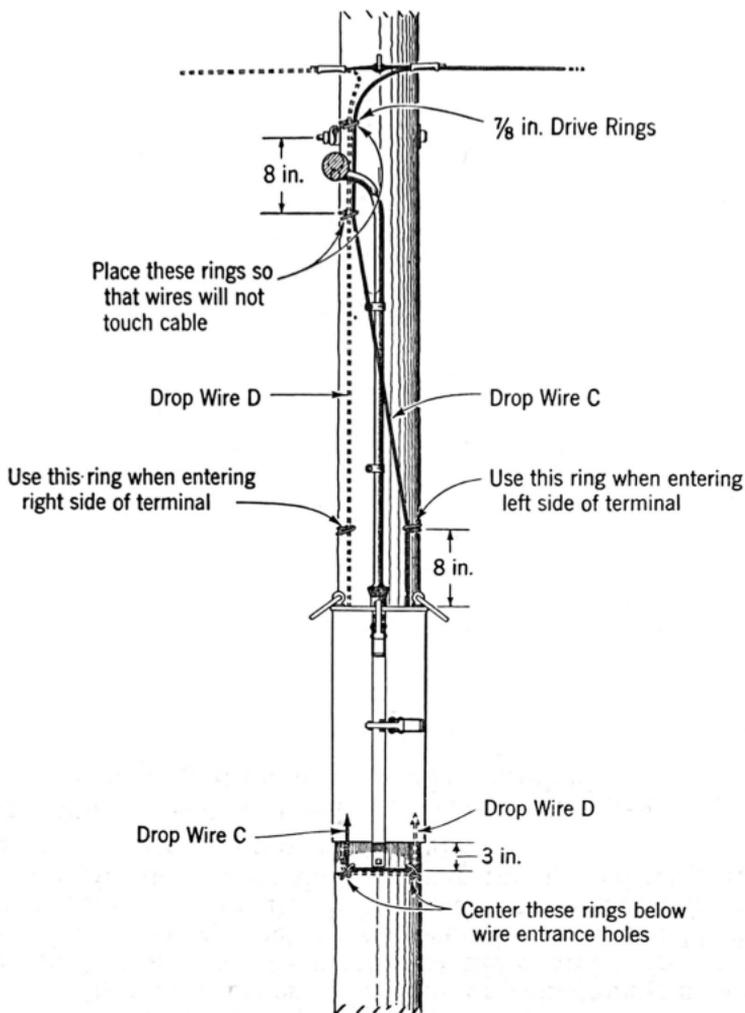
- (2) In BD Terminals not equipped with wiring shelves route cross-connecting wire around the bottom of the chamber. Do not run cross-connecting wires through the M Bridle Rings provided at the top of the terminal housing. These rings are intended for drop wire connections.
- (e) Allow about two inches of slack in each cross-connecting wire. Where, on a subsequent line change a jumper wire is found to be too short, run a new connection rather than splice out the short one.
- (f) Where it is necessary to assign two distribution cable pairs to form a party line, cross-connect both distribution cable pairs to the feeder cable pair. Terminate one jumper wire under the lower washer and the other wire between washers on binding posts of the feeder pairs. When more than two distribution cable pairs are required for bridging, cross-connect the first two distribution cable pairs to the feeder cable pair as outlined above. The additional bridges are connected one to each of the associated distribution cable pairs. Terminate one wire under the lower washer and the other wire between washers on the binding posts of the distribution pair.

### 3. INSTALLING DROP AND BLOCK WIRE

3.01 **Install drop wire in pole mounted BD Terminals** in accordance with the following procedure.

- (a) Place drive rings on the pole as shown.
- (b) Where a drop wire is to be terminated on the left side of the terminal chamber, run the wire down the right side of the pole behind the terminal, through the two rings below the terminal and into the wire entrance holes on the left-bottom of the terminal box. The routing is indicated by Drop Wire "C" in the illustration.

Where the drop wire is to be terminated on the right side of the terminal chamber, run the wire down the left side of the pole behind the terminal, through the two rings below the terminal and into the wire entrance holes on the right bottom of the terminal box. The routing is indicated by Drop Wire "D" in the illustration.



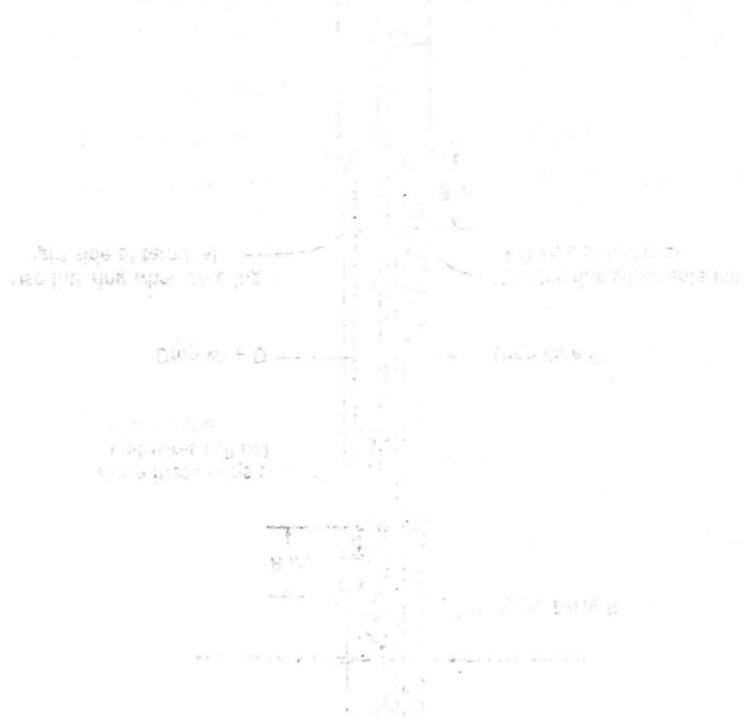
- (c) Insert the wire through one of the entrance holes located in the bottom of the terminal.
- (d) Run the wire upward in the wiring channel behind the faceplate extension on the side of the chamber opposite the binding posts on which it is to be terminated thence over the top wiring shelf or the two rings located at the top of the housing and downward to the proper wiring hole. The routings of wires entering the terminal on the left and right sides are indicated by Drop Wires C and D in the illustration in Paragraph 3.03. Terminate drop wire between washers on the binding posts of the feeder pair unless two wires are already terminated on these posts. Where one of

these two wires is a cross-connecting wire, terminate the second drop wire on the distribution cable pair except that not more than two wires should be bridged on the binding posts of the distribution cable pair. Where more than two wires are to be bridged to the same cable pair install a 101-type wire terminal on the pole outside the terminal and bridge the new drop and one of the existing drops in the wire terminal.

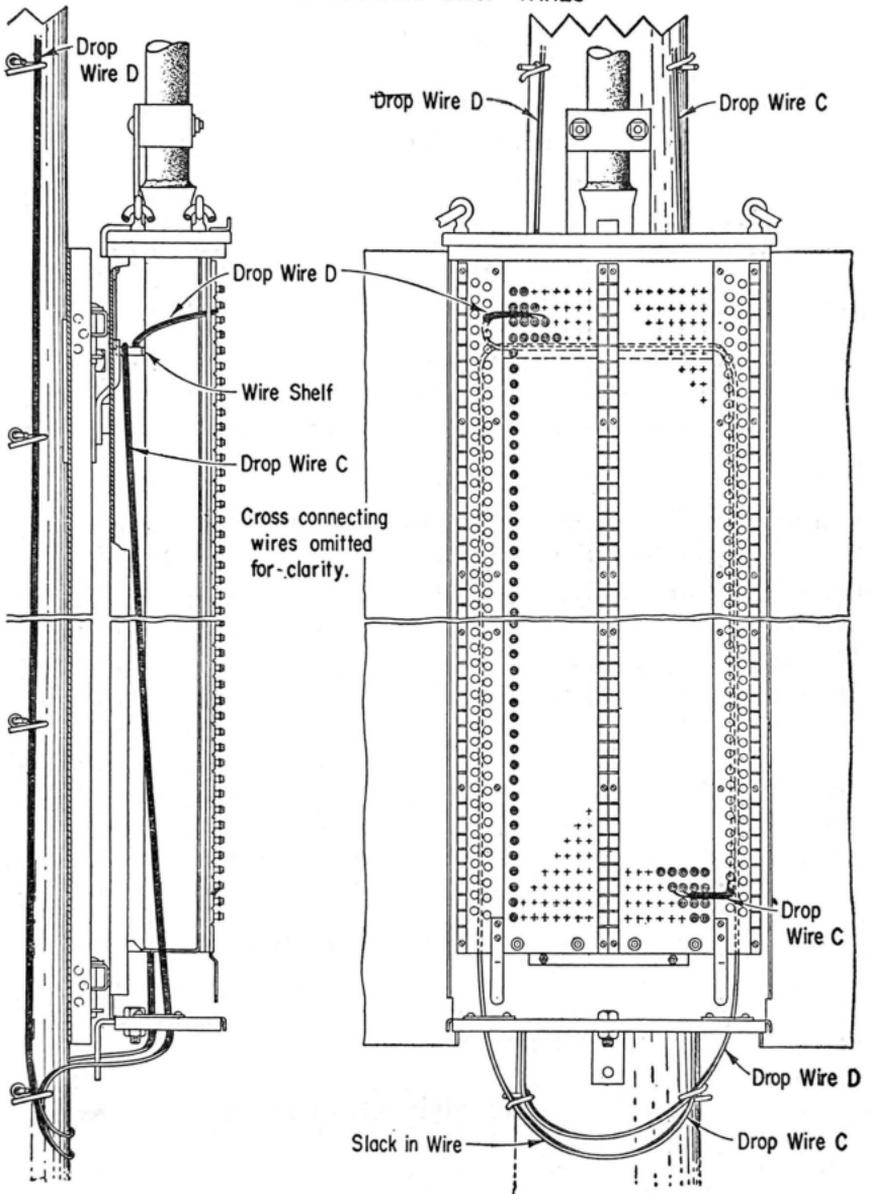
(e) Insert the wire into the proper wiring hole, cut wire to proper length and terminate on the binding post with tracer conductor to the right. Place wire under the lower washer unless the space is occupied by an existing wire in which case place the second wire between washers.

3.02 When slack is required in connection with transferring a drop to another cable pair or reinstalling a wire, re-route the drop around the bottom of the chamber in a terminal equipped with wiring shelf or remove wire from the M rings at the top of the terminals. Where still more slack is needed, splice wire inside the terminal and run the spliced wire over the top as in the case of a new connection.

3.03 The following illustration shows the arrangement for connecting drop wire in BD Terminals.



## BD TERMINALS—ALL SIZES TERMINATING DROP WIRES



3.04 **Install Block Wires in wall mounted terminals in the manner described above for drop wire.**

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