DEDICATED PLANT— WIRING ACCESS POINTS

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1. GENERAL

- 1.01 This section describes the method of wiring an access point in dedicated plant.
- 1.02 This section is reissued to:
 - Revise Fig. 2 to include a stub cable and a 170-type adapter.
 - Revise Fig. 3 to illustrate the new 5-type closure.
 - Revise Fig. 6 to illustrate wiring arrangement of the E Backboard used in conjunction with G Cable Closure which replaces the nongastight 38-Y-B Cable Closure.
 - Revise Fig. 7 to illustrate wiring arrangement of the F Backboard used in conjunction with H Cable Closure which replaces the nongastight 38-Y-C Cable Closure.
 - Add illustration to illustrate wiring arrangement of the D Backboard used in conjunction with UP-1200 Cable Closure.
 - Delete references to B Drop Wire Cap.

- 1.03 Under the dedicated plant plan, a pair is permanently assigned to a specific residence or non-key business address from a central office. Once dedicated, the pair will remain permanently assigned to a customer's location, whether working or idle.
- 1.04 Subscriber drop, block, or buried service wires should not be terminated in an access point.
- 1.05 Access points can be distinguished from control points by:
 - (a) A green B Cable Tie placed around the **THROUGH** cable of a strand-mounted access point. A red B Cable Tie identifies a control point.
 - (b) A marker with a letter A on a green background installed on pole- and wall-mounted closures, building cabinets, and buried closures. Control points are identified by a letter C on a red background.
- 1.06 Access points have been designed so that personnel entering an access point will find the OUT cable pairs placed through the rear holes of the wiring brackets, and the method of connecting the IN and OUT pairs the same regardless of the type of closure. This has been done to facilitate good housekeeping. The closure should always look neat after the workman leaves the job.
- 1.07 A talk pair is provided for calling testboard and other locations which will reduce test pick damage to the conductors.

2. **DEFINITIONS**

2.01 Access Points provide a means of connecting pairs in distribution cables to spare pairs in main or branch feeder cables. Cables entering access points from the central office or a preceding control point are termed IN or THROUGH cables

(Fig. 1). Cables leaving access points toward subscribers are termed *OUT* cables. Cables which originate in the access point assume the address of the access point, and the cable pair numbers assigned to the pairs in these cables begin at one (1) and continue up to the total number of pairs originating at this location. *THROUGH* feeder cables leaving access points do not change designations.

2.02 Continuous PIC Sheath Count provides binder group identification by the use of colored wire ties installed at the time of construction

of the access point. Table A lists an example of continuous PIC sheath count in an access point with one or more IN and OUT cables.

3. TYPES OF ACCESS POINTS

3.01 A workman visiting the following types of access points will find that the OUT cable units have been positioned in the wiring brackets and identified by a continuous PIC sheath count. The access point may have a number of pairs connected or no pairs connected.

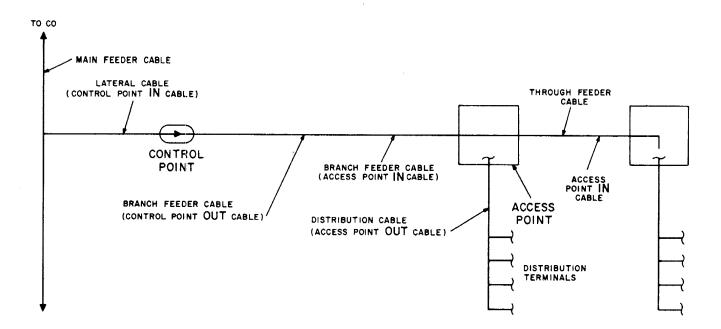


Fig. 1—Simplified Dedicated Plant Distribution System

TABLE A -	EXAMPLE OF A CONTINUOUS PIC SHEATH COL	JNT
	IN AN ACCESS POINT	

OUT CABLES ¹					IN CABLES ²						
CABLE NO.	CABLE PIC SHEATH COUNT	BINDER GROUP	CONTINUOUS PIC SHEATH COUNT	COLOR OF WIRE ON CONTINUOUS BINDER GR	CABLE NO.	CABLE PIC SHEATH COUNT	BINDER GROUP	CONTINUOUS PIC SHEATH COUNT	COLOR OF WIRE ON CONTINUOUS BINDER GR		
1	1-25	Bl-W	1-25	Bl-W	1	1-25	Bl-W	1-25	Bl-W		
1	26-50	O-W	26-50	O-W	1	26-50	O-W	26-50	O-W		
1	51-75	G-W	51-75	G-W	1	51-75	G-W	51-75	G-W		
1	76-100	Br-W	76-100	Br-W	1	76-100	Br-W	76-100	Br-W		
2 2 2 2 2 3 3	1-25 26-50 51-75 76-100 1-25 26-50	Bl-W O-W G-W Br-W	101-125 126-150 151-175 176-200 201-225 226-250	S-W Bl-R O-R G-R Br-R	1 1 1 1 2 2 2	101-125 126-150 151-175 176-200 1-25 26-50	S-W Bl-R O-R G-R Bl-W O-W	101-125 126-150 151-175 176-200 201-225 226-250	S-W Bl-R O-R G-R Br-R S-R Bl-Bk		
4	1-25	Bl-W	251-275	Bl-Bk	$\begin{vmatrix} 2\\2 \end{vmatrix}$	51-75 76-100	G-W Br-W	251-275 276-300	O-Bk		
4	26-50	O-W	276-300	O-Bk	2 2 2 2 2	101-125 126-150 151-175 176-200	S-W Bl-R O-R G-R	301-325 326-350 351-375 376-400	G-Bk G-Bk Br-Bk S-Bk Bl-Y		

Note 1: OUT cable number and pairs are: (1)100-pair, (2)100-pair, (3)50-pair, (4)50-pair.

Note 2: IN cable number and pairs are: (1)200-pair and (2)200-pair.

- (a) Strand-Mounted Access Point—The 1B1 Closure (Fig. 2) is used as a strand-mounted access point.
- (b) **Pole- and Wall-Mounted Access Points—**The 5-type closures (Fig. 3) and the 29-type cabinets (Fig. 4) are used to enclose pole- and wall-mounted access points.

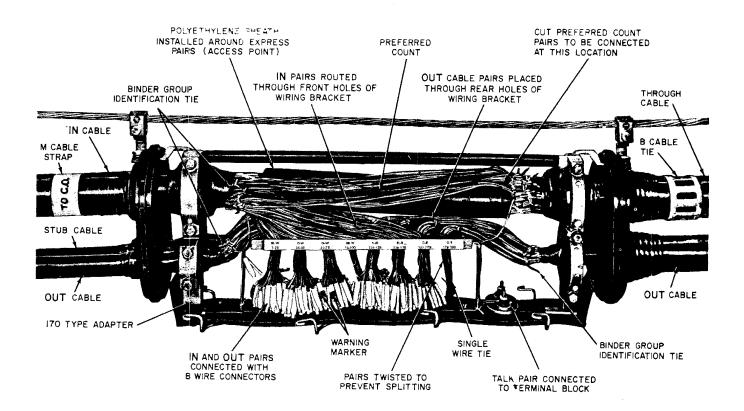


Fig. 2-1B1 Closure

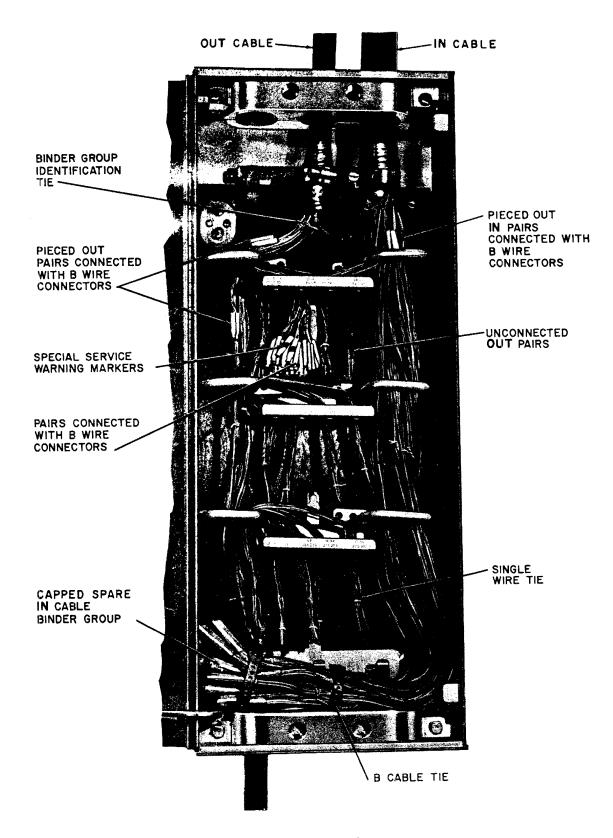


Fig. 3-5-Type Closure

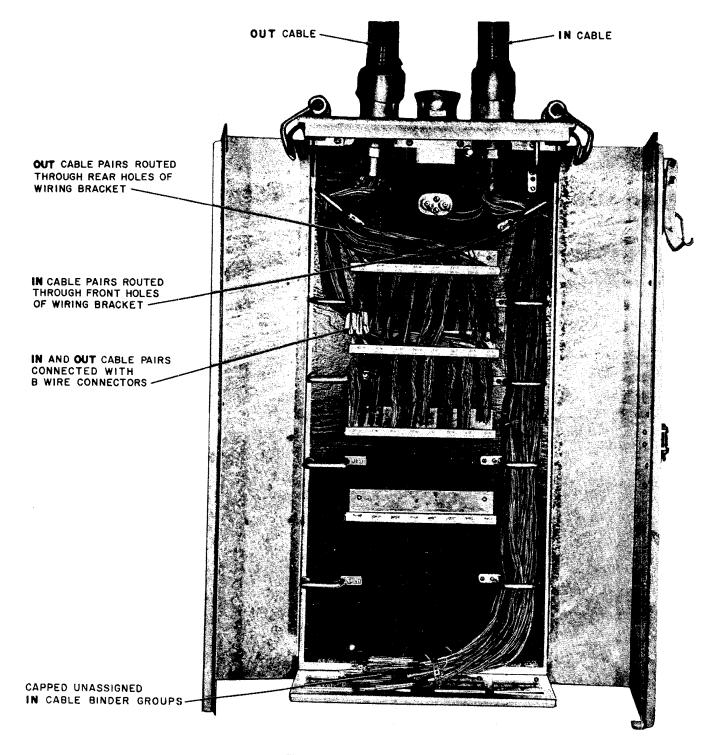


Fig. 4—29-Type Cabinet

- (c) Building Access Points—The 31-type cabinets (Fig. 5) are used for enclosing building access points. J-type cable terminal sections are used to enclose the ends of a single or group of 31-type cabinets.
- (d) *Access Points in Buried Plant—The E Backboard (Fig. 6), the F Backboard (Fig. 7), and the D Backboard (Fig. 8), used in conjunction with the G, H, and UP-1200 Cable Closures, respectively, are used for access points

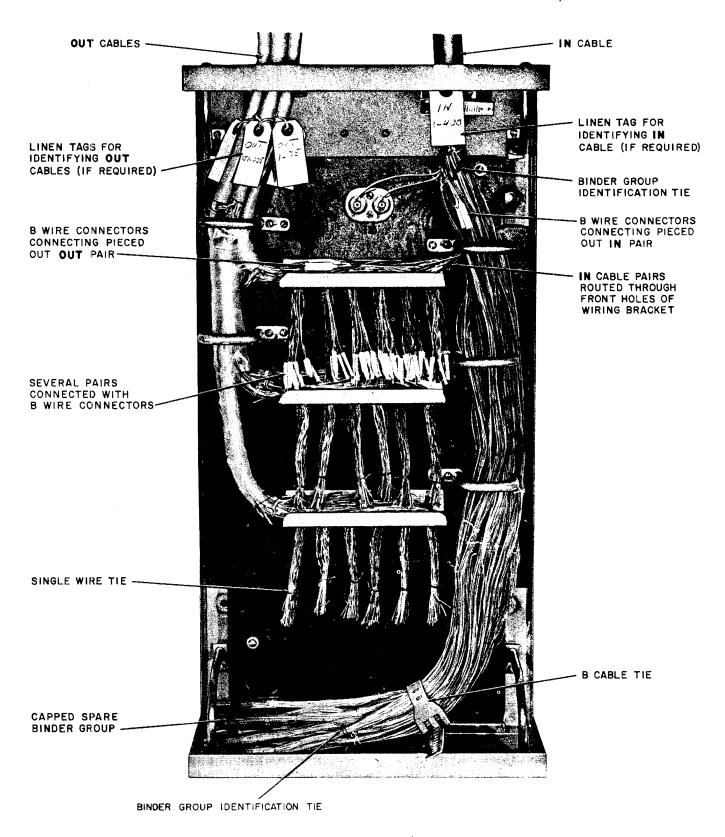


Fig. 5-31-Type Cabinet

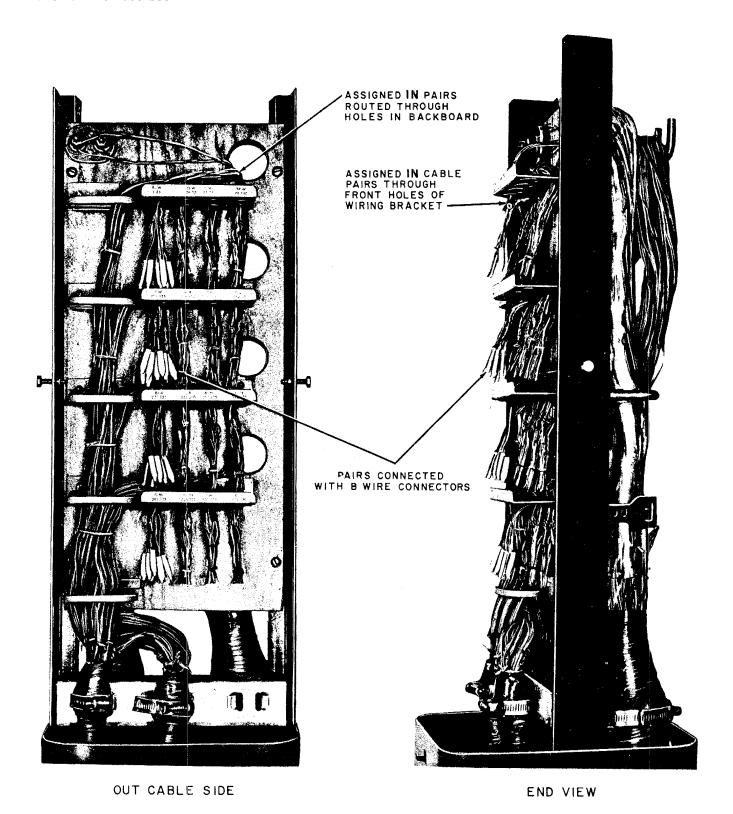


Fig. 6—E Backboard

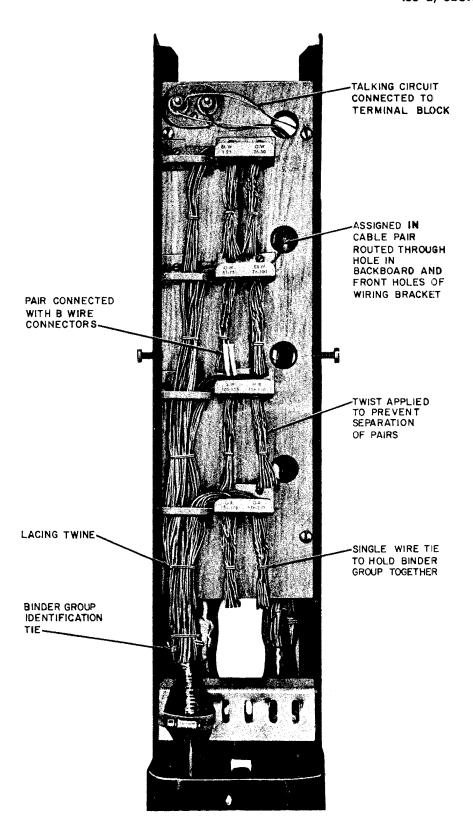


Fig. 7—F Backboard

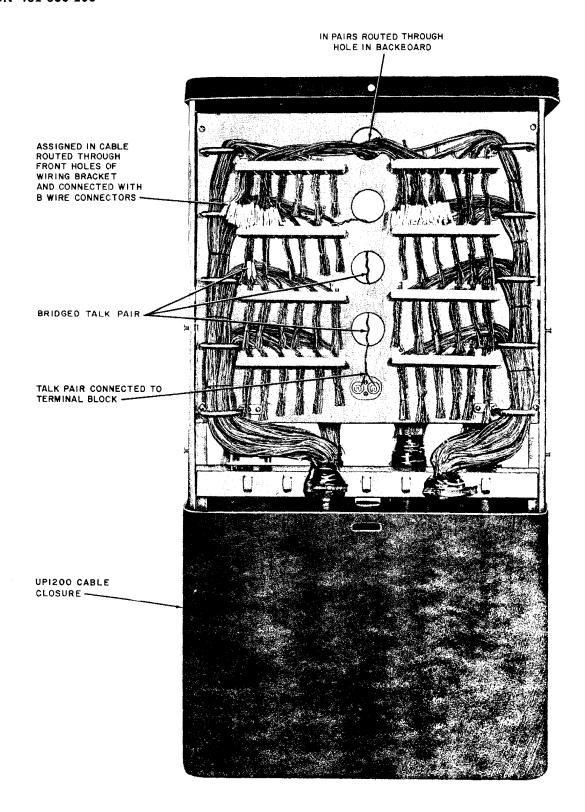


Fig. 8—D Backboard

in buried plant. Wiring arrangements for the B and C Backboards used in conjunction with the 38-Y-B and 38-Y-C Cable Closures are identical to the wiring arrangements for the E and F Backboards. ◀

4. IDENTIFYING SPECIAL CIRCUITS

- 4.01 When cable pairs are used for special services, it will be necessary to identify the circuits at the time the pairs are connected by wrapping a red warning marker tape around each B Wire Connector as shown in Fig. 3.
- 4.02 When disconnecting the special service pairs, remove the red warning marker tape from the B Wire Connectors.

5. CONNECTING

5.01 The procedures for connecting the *IN* and *OUT* cable pairs in an access point are the same in each type of closure and are designed to eliminate unnecessary handling of pairs once they are connected, promote good housekeeping, and provide easy identification; therefore it is important that the procedures outlined in this section be followed.

CABLE END LOCATION OR LOCATIONS FED BY STUB CABLE

5.02 Loosen the B Cable Tie and select the assigned IN pair.

5.03 Cut the assigned *IN* pair as close to the

pacetate container

as possible as shown in Fig. 9.

Note: If the wrong pair is cut, insert each conductor in a B Wire Connector and press. Replace the pair within its binder group.

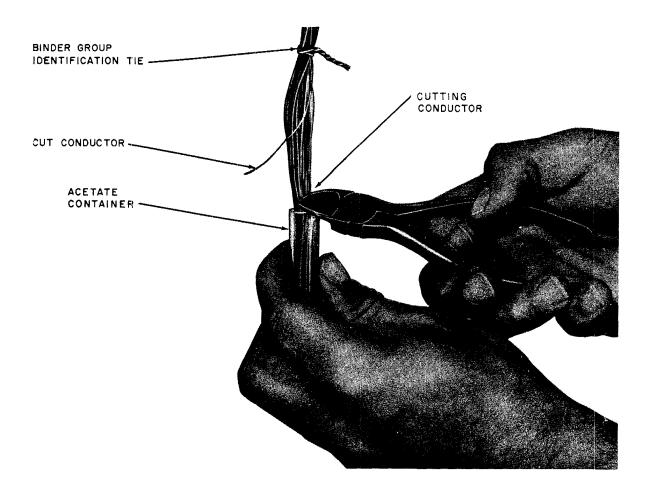


Fig. 9—Cutting Assigned Pair from Capped Binder Group

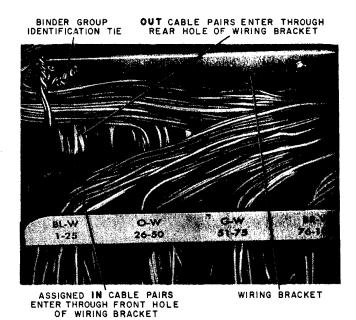


Fig. 10—Assigned *IN* Cable Pair Routed Through Front Holes of Wiring Bracket

- 5.04 Pull the assigned *IN* pair from the binder group and place in the *front* wiring bracket hole (Fig. 10) corresponding to the assigned *OUT* cable pair to which it is to be connected. *Do not remove the OUT cable pair from the rear hole of the wiring bracket*.
- 5.05 Remove the *OUT* cable pair from the single wire tie.

- 5.06 Cut the assigned *IN* pair to the same length as the assigned *OUT* pair and connect with a B Wire Connector as shown in Fig. 11. If for any reason the *IN* pair is shorter than the *OUT* pair, piece out the *IN* pair (Part 6). Do not cut the *OUT* pair. Use only a B Connector Presser or Pneumatic Presser for crimping the B Wire Connectors.
- 5.07 Tighten the single wire tie on the remaining unconnected pairs of the *OUT* binder groups.

5.08 Secure the capped spare binder groups to the bottom of the closure by tightening the B cable Tie.

LOOP-THROUGH LOCATIONS AND STRAND-MOUNTED CLOSURES

5.09 Select the *IN* cable pair from the preferred count and cut the pair at the butt of the cable *away* from the central office side of the closure.

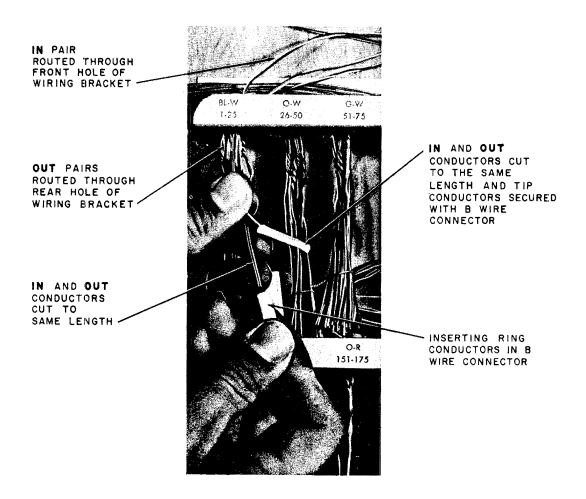


Fig. 11—Connecting IN and OUT Cable Pair

5.10 Repeat 5.04 and 5.06 for placing and connecting the assigned *IN* cable pair.

6. PIECING-OUT

OUT CABLE PAIR

- 6.01 If for any reason the *OUT* cable pair is too short to reach an assigned wiring bracket hole, piece-out the conductor as follows (Fig. 12). Use wire having the same colored insulation and gauge as the cable pair.
 - (a) Cut the OUT cable pairs even.
 - (b) Insert the tip conductor and the like-colored piecing-out wire in a B Wire Connector and press.

- (c) Insert the ring conductor and the like-colored piecing-out wire in a B Wire Connector and press.
 - (d) Route the **OUT** cable pair through the assigned rear hole of the wiring bracket and apply from 4 to 6 tight twists as close to the bottom of the wiring bracket as possible. This prevents pair splitting.
- (e) Cut the piecing-out wire to the same length as the other unconnected pairs of the binder group.

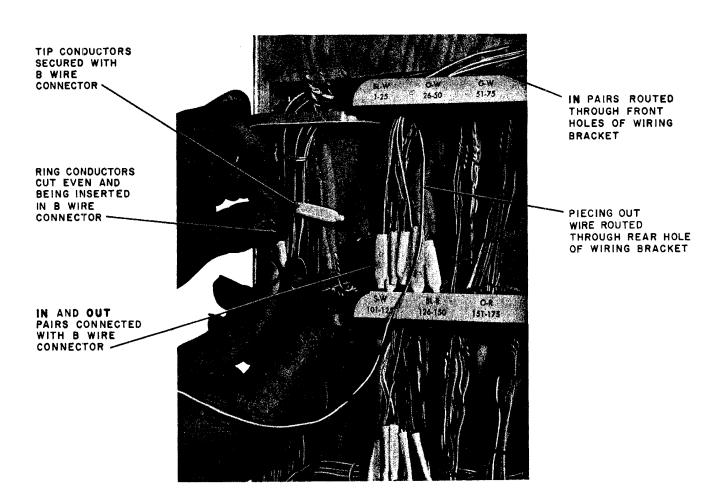


Fig. 12—Piecing-Out OUT Cable Pair

IN CABLE PAIR

- 6.02 The procedures for piecing-out the IN cable pair (Fig. 13) are identical to the procedures outlined in 6.01, except cross-connecting wire may be used as the piecing-out wire if no wire having the same-colored insulation or gauge as the IN cable pair is available. Never use an odd-colored wire.
- 6.03 Route the pieced-out wire through the distributing rings, binder group identification tie, and the front hole of the wiring bracket corresponding to the assigned OUT cable pair.

6.04 Connect the assigned IN cable pair and the OUT cable pair using B Wire Connectors.

7. TALKING CIRCUIT

- 7.01 The terminal block, installed at the time of construction, provides the workman with a talking circuit for calling the test desk, etc.
- 7.02 Detailed instructions covering the use of specific types of handsets are covered in other sections.

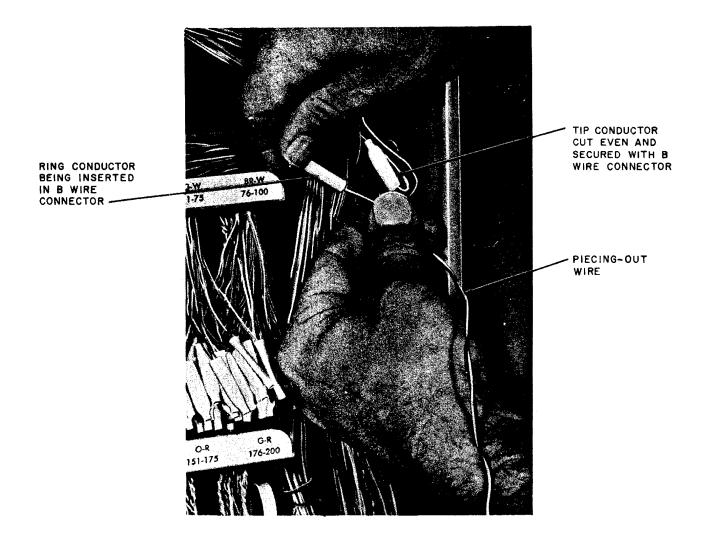


Fig. 13—Piecing-Out IN Cable Pair