

## WIRING BUILDING

### RISER AND DISTRIBUTION TERMINALS

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**1. GENERAL**

- 1.01 This section covers the procedures for running cross-connecting wire in building riser and distribution terminals.
- 1.02 A riser terminal provides a location for terminating riser and building cables for further distribution within a building. These terminals are constructed as outlined in Section 631-470-201.
- 1.03 A distribution terminal provides terminating facilities for both outside plant distribution cable and station cable wiring. These terminals are constructed as outlined in Section 631-470-201 (Building Terminals—Riser and Distribution) and 631-470-204 (Distribution Terminal Apartment Building).

1.04 All cable pairs entering and leaving these terminals are permanently tied down and interconnections are made with cross connections.

1.05 The method of terminating the cross-connecting wire on the quick connect type block is outlined in Section 631-050-108.

**2. RUNNING CROSS-CONNECTING WIRE IN RISER TERMINALS WHICH DIRECTLY SERVES STATIONS**

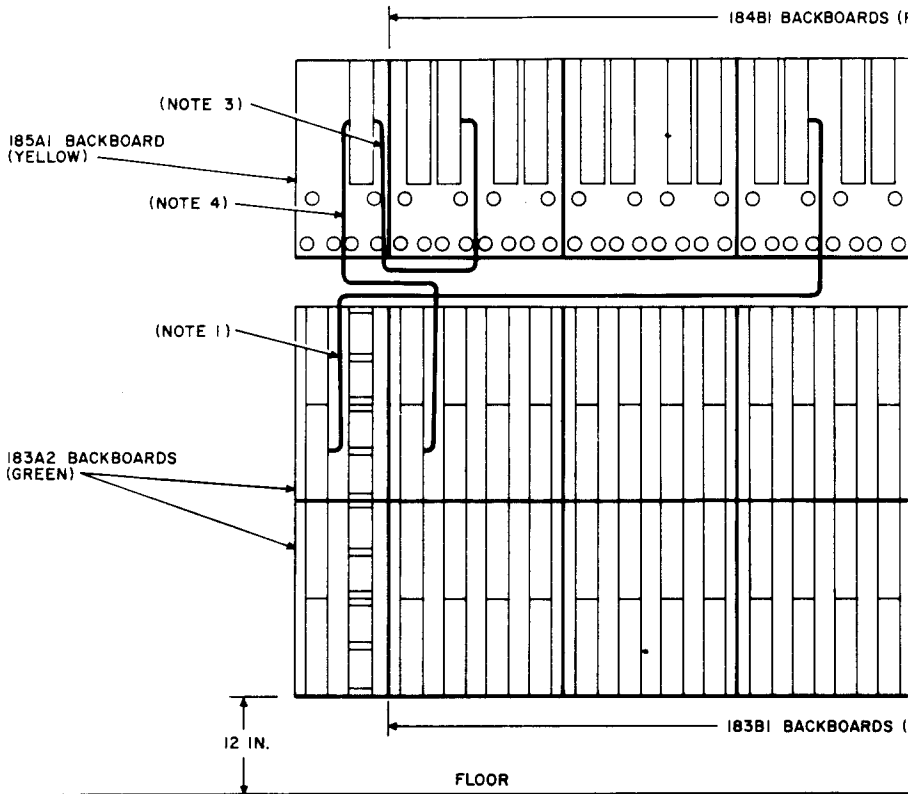
2.01 When outside plant, apparatus, and station cables have been permanently terminated, future installations and service changes will be accomplished by using F cross-connecting wire.

2.02 Patterns for running F cross-connecting wires in a riser terminal which directly serves stations are illustrated in Fig. 1.

2.03 The cross-connecting wires are connected and run from the *green* field to the *red field as follows*. The other connections illustrated in Fig. 1 are for reference only.

- (a) Using a 714B tool terminate the 2-conductor cross-connecting wire to the tip and ring terminal on which the assigned CO/PBX pair is connected on the *green* 183A2 Backboard.
- (b) Place the cross-connecting wire in the fanning slot, run up the side of the connecting block to the horizontal row of distributing rings then across and up to the assigned line service termination on the *red* 184B1 Backboard. Leave enough slack at each termination so that cross-connecting wire can be formed to back of terminal.
- (c) Repeat steps (a) and (b) for each assignment which directly serves stations.

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NOTE	LINE PURPOSE	F-CROSS CC
1	CO/PBX	2-conductor: from ( RED field (key equi
2	Key telephone button with basic line service	6-conductor: from I nation) to BLUE fi nation)
3	Key telephone button with basic line service	2-conductor (for ringi (auxiliary apparatus) ment termination)
4	Auxiliary and dial intercommunication service	2-conductor: from Y paratus) to BLUE minations)

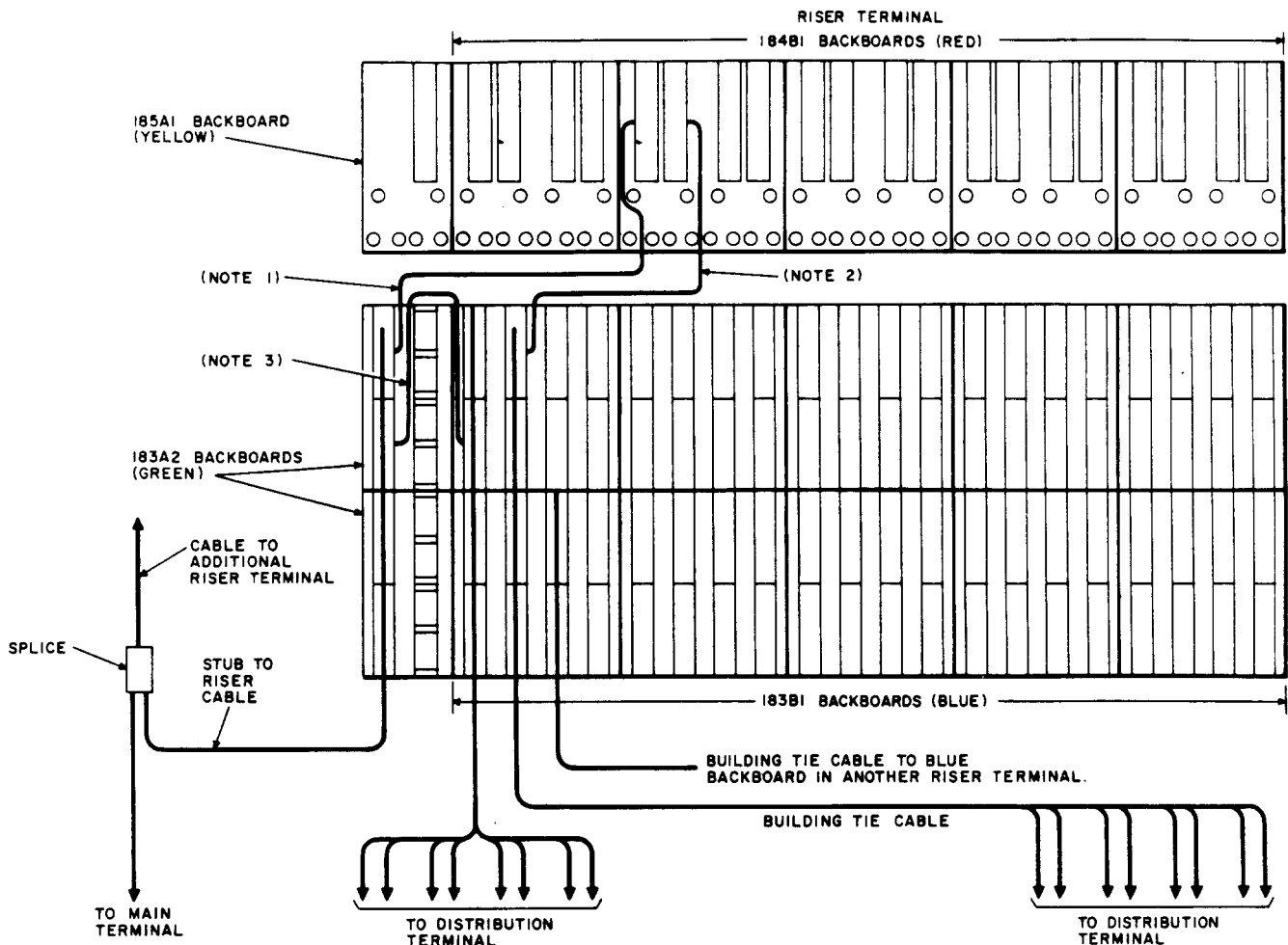
Fig. 1—Pattern For Running Cross-Connecting Wire in Terminal W

**3. RUNNING CROSS-CONNECTING WIRE IN RISER TERMINAL SERVING DISTRIBUTION TERMINAL**

will be terminat adjacent to the , in Fig. 2.

**3.01** Basic line service from a riser terminal to a distribution terminal requires a building tie cable between the two terminals. This cable

**3.02** The patt wires in : terminals are sh



NOTE	LINE PURPOSE	F-CROSS CONNECTING WIRE
1	CO/PBX	2-conductor: from GREEN field (line pickup) to RED field (key equipment termination)
2	Key telephone button with basic line service	6-conductor: from RED field line service termination) to BLUE field (tie cable termination)  2-conductor (for ringing): from RED field (line service termination) to BLUE field (tie cable termination) or from RED field (line service termination to YELLOW field (auxiliary services) to BLUE field (tie cable termination)
3	Direct Line	2-conductor: from GREEN field (CO/PBX) to BLUE field (tie cable termination)

Fig. 2—Pattern For Running Cross-Connecting Wire in Riser Terminal Serving Distribution Terminal

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**3.03** Terminate and run a 2-conductor F cross-connecting wire from the **green** 183A2 Backboards (CO/PBX) to the **red** 184B1 Backboards (key equipment terminations) as outlined in 2.03(a) and (b).

**3.04** Direct line service can be obtained by running a 2-conductor cross connecting wire from the **green** 183A2 Backboard (CO/PBX) to the **blue** 183B1 Backboard (tie cable termination) as follows:

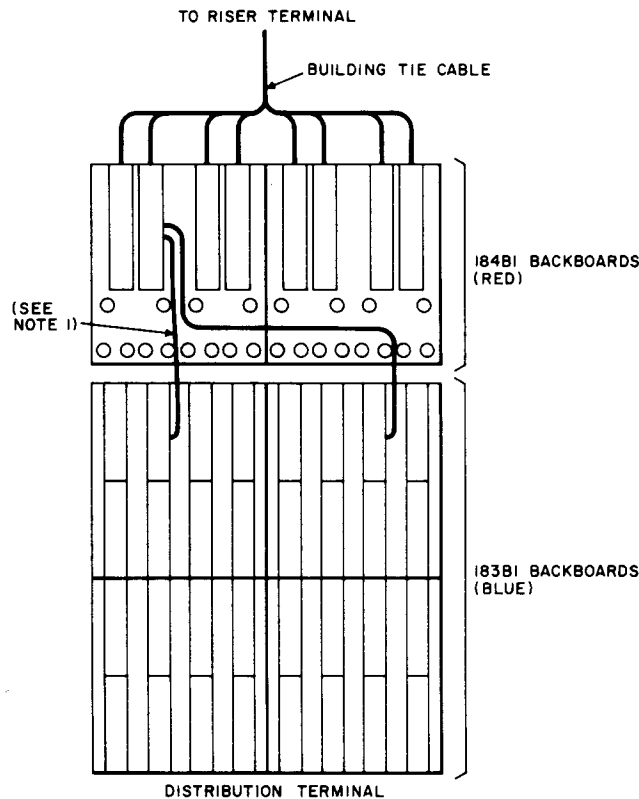
- (a) Using a 714B tool terminate the 2-conductor cross-connecting wire to the tip and ring terminal on which the assigned CO/PBX pair is connected on the **green** 183A2 Backboard.
- (b) Place the cross-connecting wire in the fanning slot, run up the side of the connecting block

to the horizontal row of distributing rings then across and down to the assigned terminal on the **blue** 183B1 Backboard. Leave enough slack at each termination so that cross-connecting wire can be formed to back of terminal.

**4. RUNNING CROSS-CONNECTING WIRE IN DISTRIBUTION TERMINAL SERVED BY RISER TERMINAL**

**4.01** The pattern for running cross-connecting wire from **red** 184B1 Backboard (line station termination) to **blue** 183B1 Backboard (station set termination) in distribution terminal served by riser terminal is shown in Fig. 3.

**4.02** Using 714B tool terminate the cross-connecting wire on the assigned terminal of the 66B4-25



NOTE	LINE PURPOSE	F-CROSS CONNECTING WIRE
1	Key telephone button with basic line service	6-conductor: from RED field (line service termination) to BLUE field (station set termination).  2-conductor: from RED field (line service termination) to BLUE field (station set termination)

**Fig. 3—Pattern For Running Cross-Connecting Wire in Distribution Terminal**

connecting block on the *red* 184B1 Backboard, feed the wire through the fanning slot and route down alongside the connecting block through distributing ring to assigned terminal on 66M1-50 connecting block on *blue* 183B1 Backboards.

**4.03** Leave enough slack at each termination to form cross-connecting wire to back of terminal.

**5. RUNNING CROSS-CONNECTING WIRE IN OUTSIDE DISTRIBUTION TERMINAL FOR APARTMENT BUILDINGS**

**5.01** The pattern for running G cross-connecting wire in an outside distribution terminal for garden apartments is illustrated in Fig. 4.

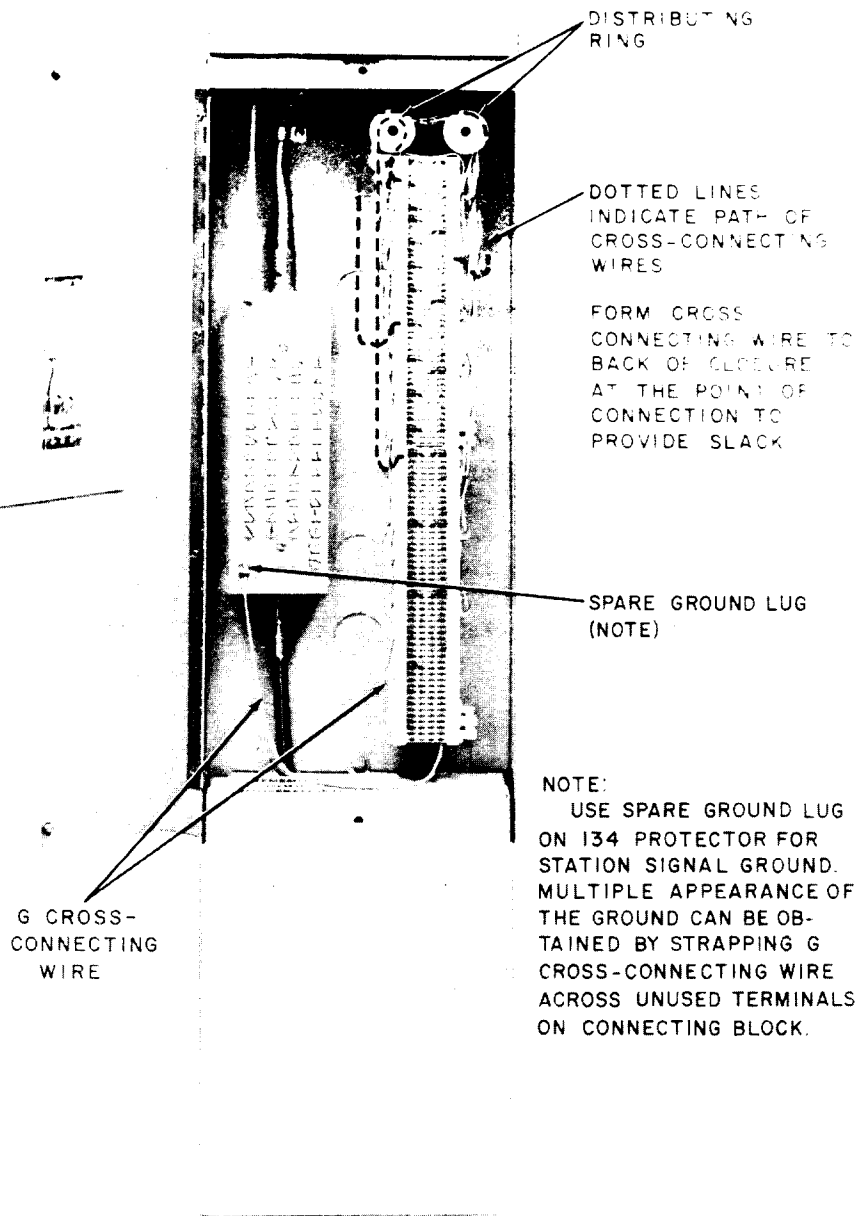
**5.02** Using a 714B tool terminate the G cross-connecting wire to the assigned feeder pair located on the left hand side of the upper connecting

block. Route the cross-connecting wire along the path indicated by the dotted line in Fig. 4 to the assigned apartment unit, then terminate. Leave enough slack at each termination to form cross-connecting wire to back of closure.

**6. RUNNING CROSS-CONNECTING WIRE IN INSIDE DISTRIBUTION TERMINAL FOR APARTMENT BUILDING**

**6.01** The pattern for running G cross-connecting wire in an inside distributing terminal for apartment buildings is illustrated in Fig. 5.

**6.02** Using a 714B tool terminate the G cross-connecting wire to the assigned feeder pair located on the left hand connecting block. Route the cross-connecting wire along the path indicated by the dotted line in Fig. 5 to the assigned apartment unit then terminate. Leave enough slack at each termination to form cross-connecting wire to back of apparatus box.



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Fig. 4—Pattern For Running Cross-Connecting Wire in Outside Distribution Terminal

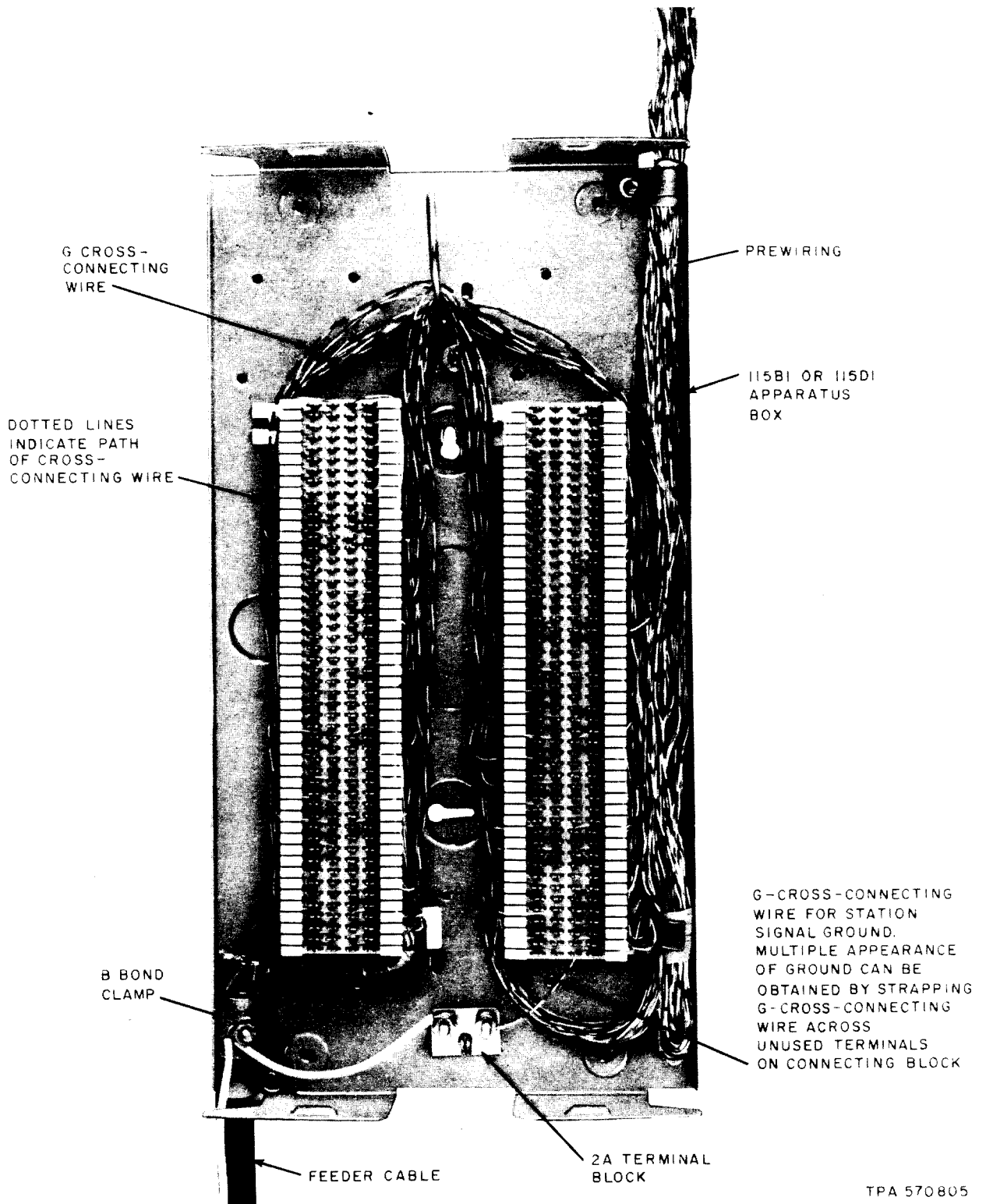


Fig. 5—Pattern For Running Cross-Connecting Wire in Inside Distribution Terminal

7. REMOVING CROSS-CONNECTING WIRES

7.01 When it is necessary to remove a cross-connecting wire from a terminal use a 724A tool and place the fork of the tool astraddle the terminal and under the wire (Fig. 6). *To prevent excessive buildup of cross-connecting wire, remove the cross-connecting wire from the terminal.*

7.02 Grasp the tool and pull the wire from the terminal in a direction perpendicular to the face of the block. Do not use adjacent terminals as leverage points.

7.03 To reterminate the wire cut off the old contact portion of the wire and reterminate as outlined above.

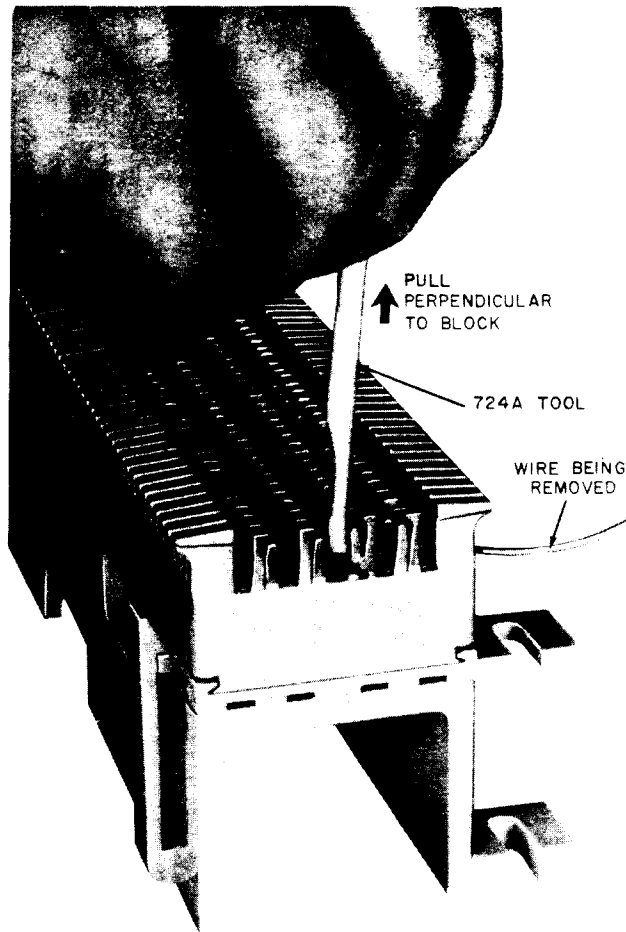


Fig. 6—Removal of Cross-Connecting Wire