

TERMINALS

MARKING "B" TYPE FRAMES

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1. GENERAL

1.01 This section outlines the practices associated with marking the outside cable terminations on "B" type main distributing frames equipped with protectors or 444 type jacks and on double-sided protector frames.

1.02 Main frame markings shall be applied by means of individual rubber stamps, or the plastic number plates covered in Section G61. 170. 2.

2. MARKING OUTFIT

2.01 The following tools and materials are required in marking frames.

2.02 Tools

Brush, Hair, Camel, Quill Handle
Kit, Lettering and Numbering
Knife, Putty 1-1/2 inch wide

2.03 Materials

Ink, Marking, Terminal, 2 oz. can, Black

Ink, Stamping, Black, R2880

Ink, Stamping White, R2881

Ink, Stamping, Vermilion, R2883

Sandpaper, No. 1

Trichloroethylene, KS-8372 - (For cleaning brushes, rubber stamps, etc.)

3. MARKING DESIGNATION BOARDS

3.01 Cable numbers (or names of toll and trunk cables when this method of designation is used) and vertical numbers shall be indicated by black numerals or letters on aluminum finished designation boards and by white characters on black finished boards. Abbreviate names when necessary.

3.02 Frame: Verticals, cables and cable pairs shall be numbered as outlined below:

(a) Verticals and cables shall be numbered consecutively in the direction of the growth of the office.

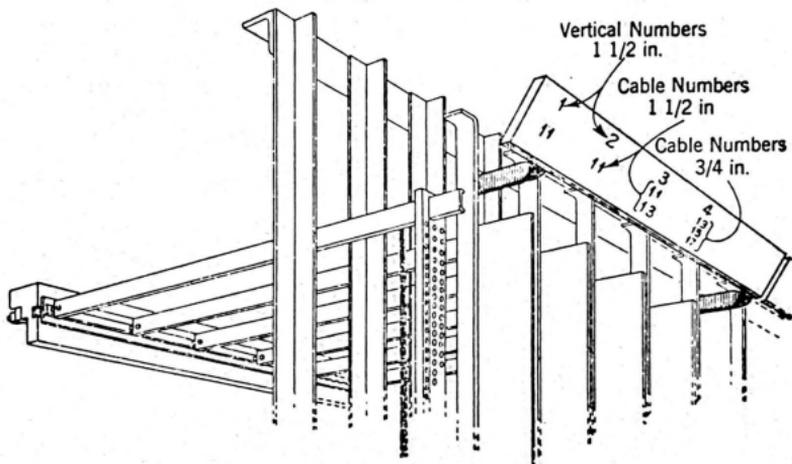
(b) In existing offices, cable pairs on the vertical side of the main frame shall be numbered to conform with the existing numbering scheme and in a downward direction.

(c) In new offices the cable pairs on the vertical side of the main frame shall be numbered in the direction of the growth of the office and in a downward direction.

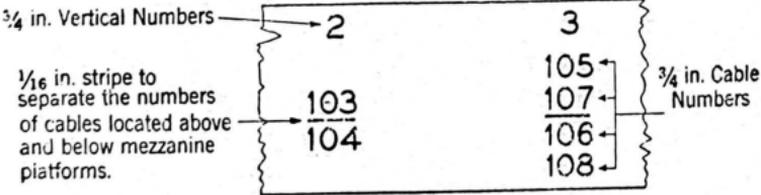
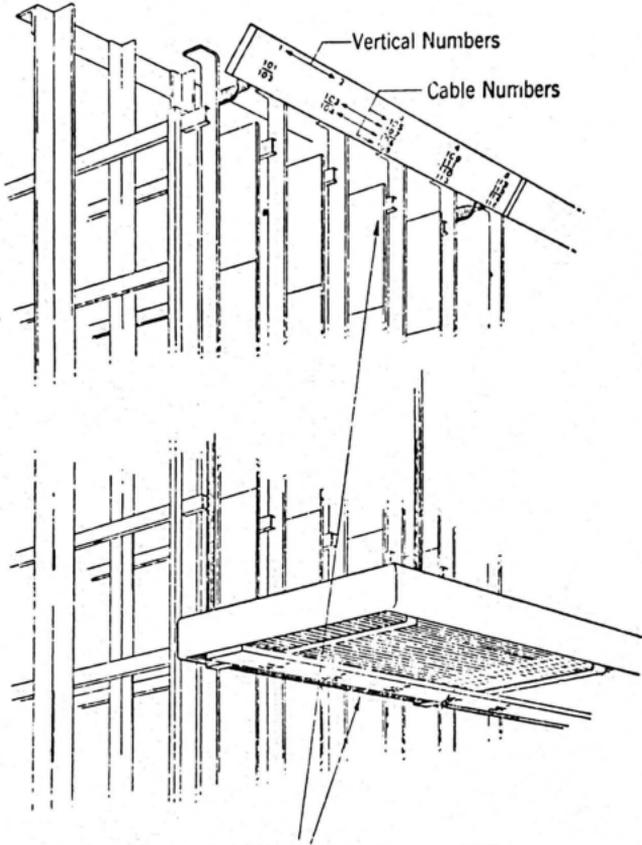
(d) On double sided protector frames, the cable pairs on both the "A" and "B" sides shall be numbered to coincide with the direction of the corresponding pairs on the associated main frame. The letter "A" shall be used to designate the verticals on the side of the protector frame away from the main distributing frame and the letter "B" to indicate the verticals on the side of the protector frame adjacent to the main distributing frame.

3.03 The following sketch shows the method of marking designation boards on frames without mezzanine platforms and also on frames with mezzanine platforms where the figures on the board

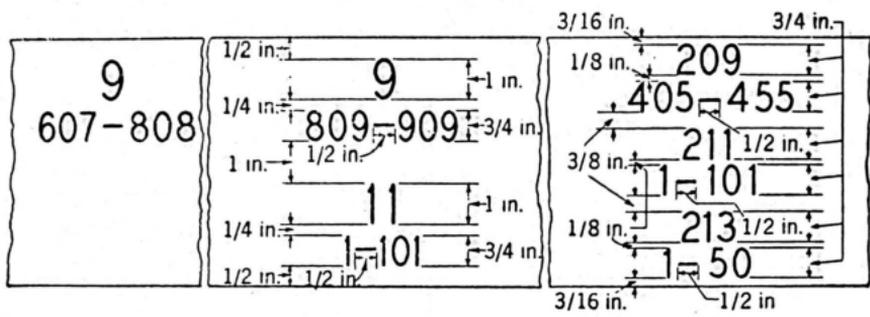
above the frame apply to the cables on the upper half of the frame and those on the board attached to the underside of the platform apply to the cables terminated on the lower half.



3. 04 On main frames or double-sided protector frames with mezzanine platforms where the numbers of the cables terminated above and below the platform appear on each board, the marking shall be as shown in the following figure.



3.05 In offices where the vertical numbers are marked on the steelwork of the frame, the markings on the verticals and designation boards shall conform to the existing numbering plan unless directed otherwise by the supervisor. The following illustration shows the marking of a designation board where the vertical numbers are placed on the steelwork.



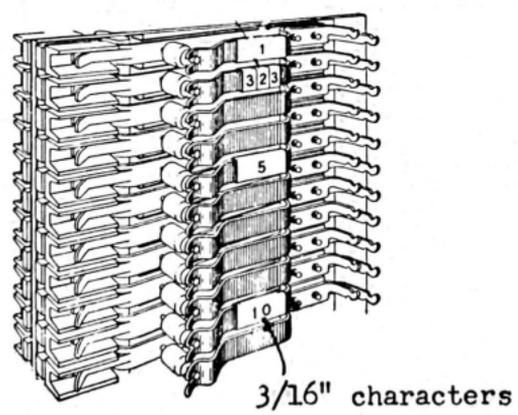
One Cable Terminated on Vertical or Top Portion of Vertical

Two Cables Terminated on Vertical

Three Cables Terminated on Vertical

4. MARKING TERMINATION

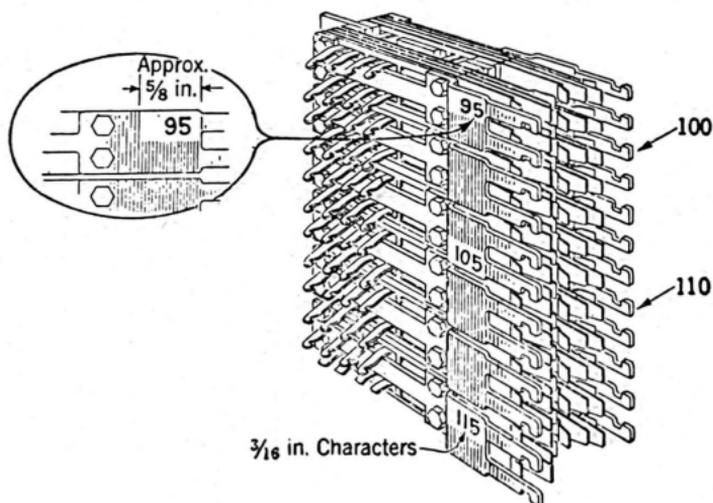
4.01 Cable and pair designations shall be marked on protector mountings with plastic number plates in accordance with the instructions outlined in Section G61. 170. 2. If plastic number plates are not available, cable and pair designations should be marked as illustrated below:



4.02 A horizontal black strip (3/8" letter I) shall be stamped on the face of the fanning strip at the right side, adjacent to each fanning hole associated with a protector on which the pair number is marked.

4.03 The method of marking pairs on 444 jacks is as follows:

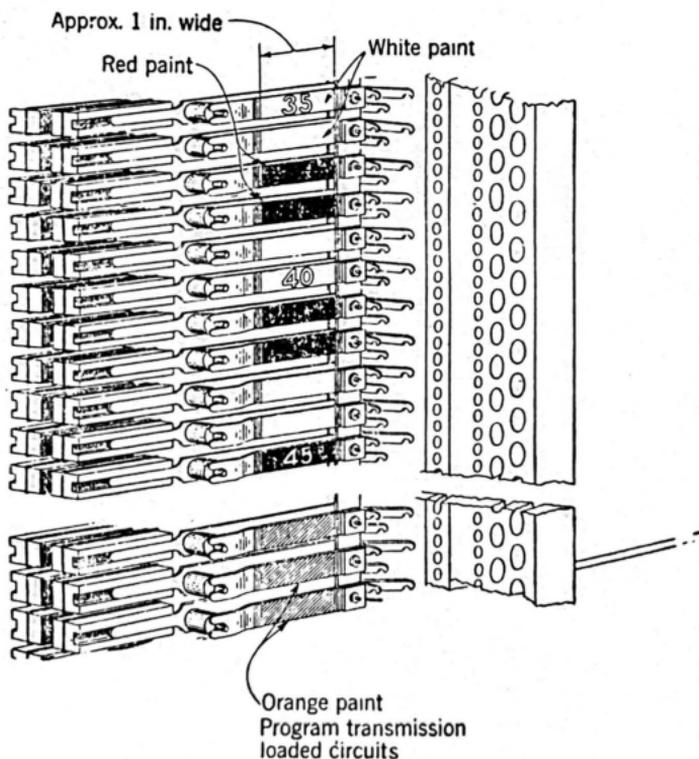
- (1) The first and last pairs terminated on each vertical.
- (2) The first and last pairs of each cable, cable complement or special group of pairs.
- (3) Pair numbers ending in 0 and 5.
- (4) The following illustration is an example of how the guard springs should be painted and the pair numbers marked on the 444 jack.



4.04 Cable Designations: Where more than one cable is terminated on a vertical, the number of each cable should be stamped on the protector spring or on the guard spring of the jack below the first pair marking of the cable using vermilion ink on a white background.

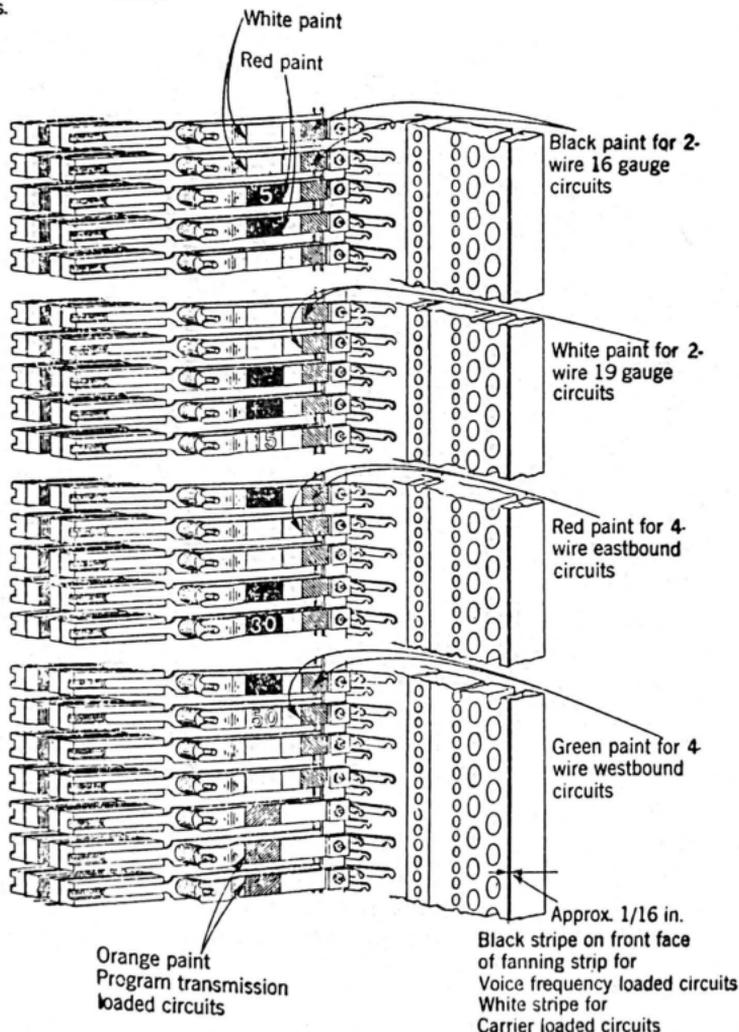
4.05 Quad Designations: Quads need not be designated on the protector springs unless called for in the cable plans. When specified the quadded circuits should be indicated by painting the springs as shown in the following illustration. Program pairs shall be designated in all cases by painting the springs or jacks with orange paint. The numerals should be stamped in black ink.

Quads shall be designated by alternate red and white markings on the Protector Springs



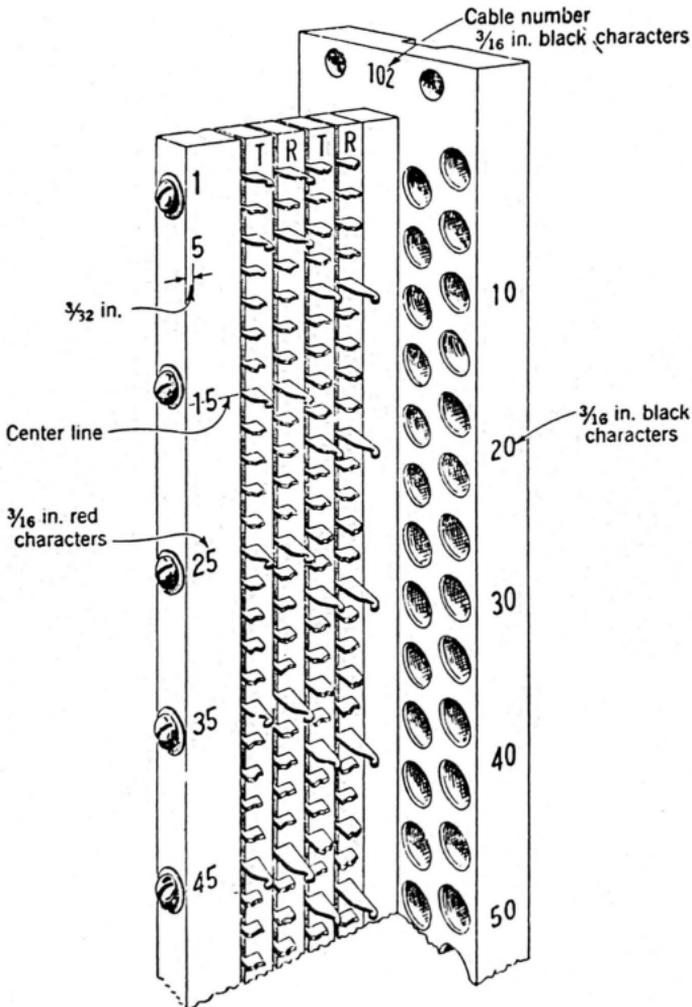
4.06 Circuit Designation: Where toll circuit groups are designated, the 2-wire and 4-wire groups should be shown on the protector springs as follows: black for 2-wire 16-gauge circuits, white for 2-wire 19-gauge circuits, red for 4-wire east-bound circuits and green for 4-wire west-bound circuits. The group designations are illustrated below.

Quads designated by alternate red and white markings on the Protector springs.

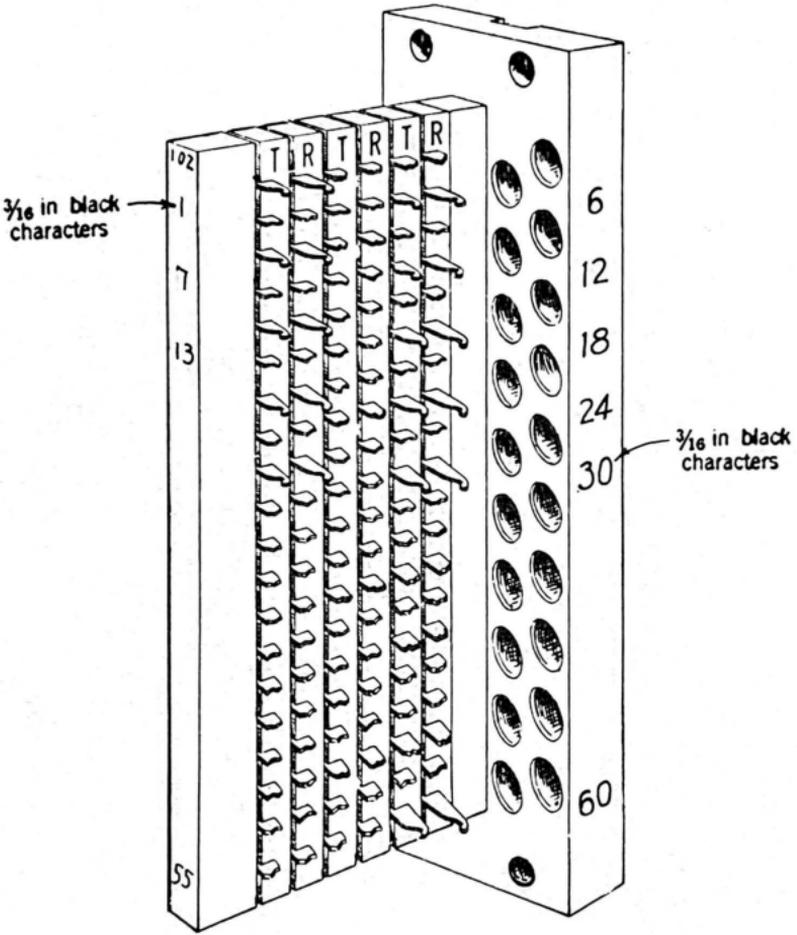


5. MARKING TERMINAL STRIPS

5.01 The cable numbers on main distributing frames used with double-sided protector frames should be stamped on the 198-Type Terminal Strips as indicated in the diagram below. The method of marking the pair numbers on these strips is also indicated in the sketch.



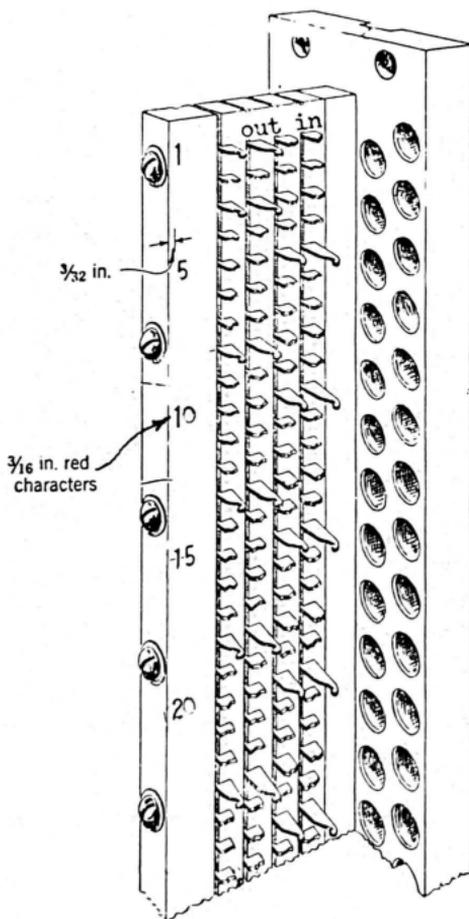
5.02 The P6 Type and M6 Type should be marked as indicated in the following illustration.



5.03 At locations where three or more verticals of terminating strips are installed, a designation board may be placed on the frame above the strips to facilitate identification of cable and pair designation. The boards should be stenciled in the same manner as illustrated in Paragraph 3.05.

5.04 On main frame verticals, where load coils are terminated on 198A or a similar type of terminal strip, the terminal strip should be stenciled as shown in the following illustration, except where there is insufficient space for stenciling numbers on the side, the numbers should be marked on the front of the marking strip, and where coils have previously been terminated markings should conform to the existing plan.

Note: "Load Coils" should be marked on designation board, if board is not available marking should be placed on front of strips.



6. MARKING FRAMEWORK ON HORIZONTAL SIDE OF FRAME

6.01 For convenience in locating the required underground cable and pair from the horizontal side of the main distributing frame when making cross-connections, markings shall also be placed on the vertical steelwork, as covered in the following paragraphs.

6.02 In offices where designations have already been marked on the steelwork of the frame, the markings for additional cables shall conform to the existing numbering plan, as to size, location, etc., except that, in all cases where designations for two or more cables appear on one vertical upright, the markings shall be placed in the order that the cables appear on the frame. Where this requirement has not been met, the numbers shall be rearranged in the correct order, wherever practicable.

6.03 On new frames, (except combination distributing frames) the following plan shall apply:

(a) Vertical, cable, and cable pair designations shall be placed on the steel upright for each vertical, between the fifth and sixth horizontal shelves and between the ninth and tenth shelves. In some cases, it may be advisable on account of space limitations to mark the vertical numbers between the sixth and seventh and between the tenth and eleventh shelves.

(b) Vertical numbers shall be stamped with 1-1/2 inch numerals, cable numbers with 1-inch numerals and cable pair numbers with 3/4-inch numerals.

(c) If the entire vertical is occupied by one cable, stamp the vertical and cable numbers and the first and last pair numbers on that vertical at each of the locations specified in (a). The order of marking the numbers shall be in accordance with established practice as shown in Part 4.

(d) If there are two cables terminated on one vertical, stamp the vertical number at the top of each designation space. Then stamp the cable number and the first and last pair numbers of the upper cable in the upper half of each available space on the upright and, similarly, place the numbers for the lower cable in the lower half of the space.

(e) If there are three or more cables on one vertical, paint a 1/16-inch white stripe across the upright approximately in the center of each available marking space to separate the numbers of cables located on the upper and lower halves of the vertical. Stamp the vertical number at the top of each space, followed by the cable numbers and the first and last pair numbers of each cable, in the order that the cables appear on the frame.

7. CHANGING FRAME MARKINGS

7.01 Paint over the present numbers on designation boards with aluminum enamel or black paint, depending on the original color. Pair numbers on protector springs can be obliterated by sandpapering, or by removing the plastic number plates as the case might be.