# TERMINALS—INSIDE WIRING
## INSTALLATION

### 1.00 INTRODUCTION

This section covers locating and mounting of the G- and HS-type inside wiring terminals.

### 2.00 LOCATING TERMINALS

Locate terminals in accordance with the following points in so far as it is practicable. If the specified terminal location does not seem feasible from an installation standpoint or is considered to be one which offers potential maintenance difficulties, notify your supervisor in order that a more satisfactory location may be selected. Locate terminals:

- Where they will be least conspicuous and will not unnecessarily expose the associated cables and wires to view.
- Where they will not project in such a manner as to be hazardous.
- Where good lighting conditions exist.
- Where they will be accessible without the use of a ladder.
- Where the door can swing through more than 90 degrees, and where it will be possible to work in the terminal without blocking a passageway.
- Where they will not be subjected to severe moisture under normal conditions.
- Where they will not be subjected to high temperatures such as occur near radiators, uncovered steam pipes, etc.
- Where they will avoid electric light and power circuits and electrical equipment.
- Where they will not be damaged by moving machinery, hoists, doors and shutters, or by materials handled on loading platforms, etc.
- On a firm mounting surface.

### 3.00 MOUNTING G-TYPE AND HS-6 CABLE TERMINAL BOXES

**3.01** The GA-, GB-, and GC-type cable terminal boxes are so designed that they can be attached to the mounting surface before the binding post chambers or the connecting blocks are installed. The HS-6 cable terminal box is so designed that the anchoring devices serve to secure both the box and the connecting block.

**3.02** To mount the HS-6 and GA-, GB-, and GC-type boxes, proceed as follows:

1. Locate the box in the desired position and spot the centers of the proper mounting holes.
2. Remove the box and drill the holes for the anchoring devices.
3. Attach the box, making any necessary adjustment in its position before tightening the anchoring devices.

TABLE A

| Surfaces | Anchoring Devices | Mounting Holes In Box |
|---|---|---|
| Smooth Masonry | Two 1/4 in. x 1 in. Hammer Drive Anchors with double-headed nails | Elliptical |
| | or | |
| | Two 1 in., No. 10 RH Blued Wood Screws in 10-14 x 1 in. Wood Screw Anchors. | Round |
| Hollow Tile, Plaster on Metal Lath, and Similar Surfaces | Two 3/16 in. x 3 in. Toggle Bolts. (If a longer bolt is required, use a 3/16 in. x 4 in. Toggle Bolt.) | Round |
| Plaster on Masonry | Two 1/4 in. x 1-1/2 in. Hammer Drive Anchors with double-headed nails | Elliptical |
| | or | |
| | Two 1-1/2 in., No. 10 RH Blued or Galvanized Wood Screws in 10-14 x 1-1/2 in. Wood Screw Anchors. | Round |
| Plaster on Wood and Similar Backing | Two 1-1/2 in., No. 14 RH Galvanized Wood Screws | Elliptical |
| | or | |
| | Two 1-1/2 in., No. 10 RH Blued or Galvanized Wood Screws. (If the mounting hole is located between wooden laths, use a 3/16 in. x 3 in. Toggle Bolt.) | Round |
| Finished Woodwork, Such as Furniture* | Two 3/4 in., No. 8 RH Blued Wood Screws. | Round |
| Other Woodwork | Two 1 in., No. 14 RH Galvanized Wood Screws | Elliptical |
| | or | |
| | Two 1 in., No. 10 RH Blued Wood Screws. | Round |
| Rough Masonry | Attach a 1 in. wooden backboard, corresponding in size to the over-all dimensions of the terminal box, to the mounting surface by means of two 5/16 in. x 2-1/4 in. Hammer Drive Anchors with single-headed nails or two 2 in., No. 14 RH Galvanized Wood Screws in 10-14 x 1 in. Wood Screw Anchors. Locate the anchors for the backboard in diagonally opposite corners. Drill 3/8-inch clearance holes in the backboard for the hammer drive anchors and 5/16-inch holes for the wood screws. Attach the terminal to the backboard as specified for other woodwork. | |

* Use alternative mounting holes.

**3.03** The anchoring devices required for attaching the GA-, GB-, and GC-type cable terminal boxes to the mounting surfaces most commonly encountered are listed in Table A.

**3.04** The anchoring devices required for attaching the HS-6 cable terminal box to the mounting surfaces most commonly encountered are listed in Table B.

TABLE B

| Surfaces | Anchoring Devices |
|---|---|
| Smooth Masonry | Two 1-1/2 in., No. 8 RH Blued Wood Screws in 6-8 x 3/4 in. Wood Screw Anchors. |
| Hollow Tile, Plaster on Metal Lath, and Similar Surfaces | Two 1/8 in. x 3 in. Toggle Bolts. (If a longer bolt is required, use a 1/8 in. x 4 in. Toggle Bolt.) |
| Plaster on Masonry | Two 2 in., No. 8 RH Blued Wood Screws in 6-8 x 1-1/2 in. Wood Screw Anchors. |
| Plaster on Wood and Similar Backing | Two 1-1/2 in., No. 8 RH Blued Wood Screws. (If mounting hole is located between wood laths, use a 1/8 in. x 3 in. Toggle Bolt.) |
| Woodwork | Two 1 in., No. 8 RH Blued Wood Screws. |