

## INSIDE CROSS-CONNECTING TERMINALS HM202-S AND HM303-S CABLE TERMINAL SECTIONS DESCRIPTION AND INSTALLATION

### 1. GENERAL

**1.01** This section covers the description and installation of the HM202-S and HM303-S cable terminal sections which are used to enclose terminals within the buildings.

**1.02** This section is reissued to incorporate the HM202-S and HM303-S cable terminal sections which contain a screened backboard that is welded in place.

**1.03** The HM202-S and HM303-S cable terminal sections are to be used where facilities are designed using the colored backboard concept and mechanical protection is desired or required.

**1.04** The description and installation of colored backboards are covered in Sections 631-460-901NB and 631-470-201.

### 2. DESCRIPTION

**2.01** The HM-S type cable terminal is of the same dimensions and design as the original HM type. The HM-S comes equipped with a screen backboard welded in place. This improved design not only strenghtens the sections, but it eliminates the need to carry additional tools for drilling and fastening the colored backboards.

**2.02** The HM-S cable terminal sections are open sided sheet metal housings consisting of a lift-out door and top and bottom assemblies. These assemblies contain knockouts for the entering cables and wires. The top assembly has 3 knockouts and the bottom assembly has 4.

**2.03** Both the top and bottom assemblies can be removed to facilitate placing the entering cable.

**2.04** The HM-S cable terminal sections come fully assembled and may be used as a single closure or in a group, or may be used intermittently with the H type terminal sections. Each section

comes equipped with 12 10-24 X 1" self tapping screws for mounting colored backgrounds and 4 1/4"-20 X 1/2", nuts, bolts, and star washers for bolting sections together.

**2.05** The HM-S cable terminal sections shown in Figures 1, 2, and 3 are available in 2 sizes. The dimensions of the sections are listed in Table A. The HM-S sections will accept the full module backboards.

### J Type Cable Terminal Section

**2.06** The J type cable terminal section is a sheet metal section used to close the ends of a single or a group of intermediate HM-2 sections. The end sections are available in 2 sizes corresponding to those of the intermediate HM-S sections. The J type cable terminal sections installed on their corresponding HM-S type cable terminal sections are shown in Figure 1.

**TABLE A**

HM-Cable Terminal Section	Height (Inches)	Width (Inches)	Depth (Inches)
HM202-S	49-7/8	19	5-13/16
HM303-S	68	19	6-11/16

Dimensions of HM-S type cable terminal section.

### 3. LOCATION

**3.01** Locate the cable terminal section in accordance with detailed plans complying with the following points, where practical. If the specified terminal location does not seem feasible from an installation standpoint or is considered as offering potential maintenance difficulties, notify your supervisor in order that a more satisfactory location may be selected. Use the following as a guide for determining a suitable location:

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**SECTION 631-400-901NB**

- (a) Inside of building and as near as practical to the cable entrance into the building.
- (b) Where it will not be near inflammable material or in the immediate vicinity of easily ignitable gases and dust or in a corrosive atmosphere.
- (c) Where it will be least conspicuous.
- (d) Where it will not project in such a manner as to be hazardous.
- (e) Where good lighting conditions exist.
- (f) Where it will be accessible without the use of a ladder.
- (g) Where it will be possible to work in the terminal without blocking a passageway.
- (h) Where it will not be subjected to severe moisture under normal conditions or submersion in the event of a flood.
- (i) Where it will not be subjected to high temperatures such as occur near radiators, uncovered stream pipes, etc.
- (j) Where it will avoid electric light and power circuits and electrical equipment.
- (k) Where it will not be damaged by moving machinery, hoists, doors and shutters, or by materials handled on loading platforms, etc.
- (l) On a firm mounting surface.
- (m) Where it will be accessible to telephone workmen at all times.

**4. INSTALLATION**

**4.01** Install the cable terminal section on a wall as follows:

- (a) Place the housing or template on a wall and mark the location of the mounting holes. Be sure the assembly with the 4 knockouts is at the bottom.

Attachments:

Figure 1      Figure 2      Figure 3

- (b) Install the housing on a wood surface as follows:
  - (1) Drill lead holes in the marked hole location.
  - (2) Align the holes of the housing with the drilled holes and secure with wood screws.
- (c) Install the housing on brick, concrete, or masonry by placing the housing over the marked mounting hole location. Using a masonry drive tool described in Section 081-745-113 and a masonry fastener, secure the housing to the mounting surface.

**CAUTION:** Impact goggles should be worn to protect the eyes when driving fasteners in masonry or similar materials.

- (d) When two or more housings are used, they must be attached together to obtain proper bond between housings.
- (e) Gussets should be used on multiple installations of H type cable terminal sections. Refer to Section 631-400-101 for method of installing gussets.

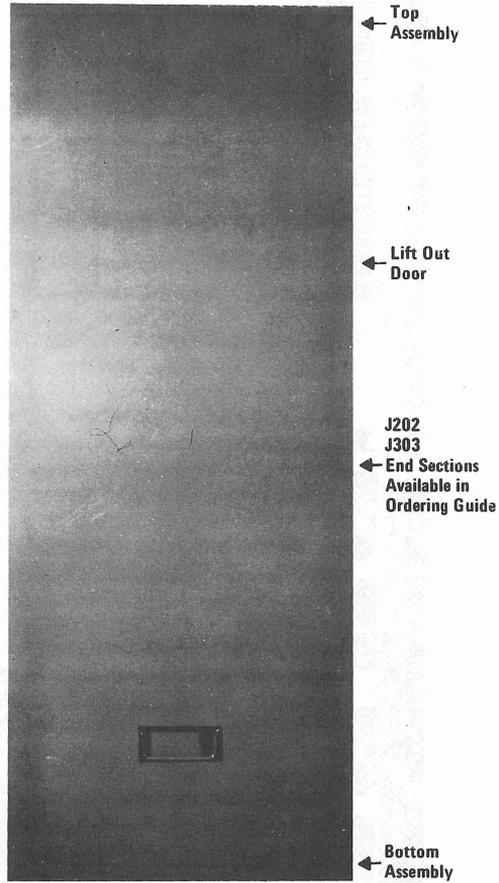
**5. CAPACITY**

**5.01** The capacity of the HM-S type cable terminal section is shown in Table B:

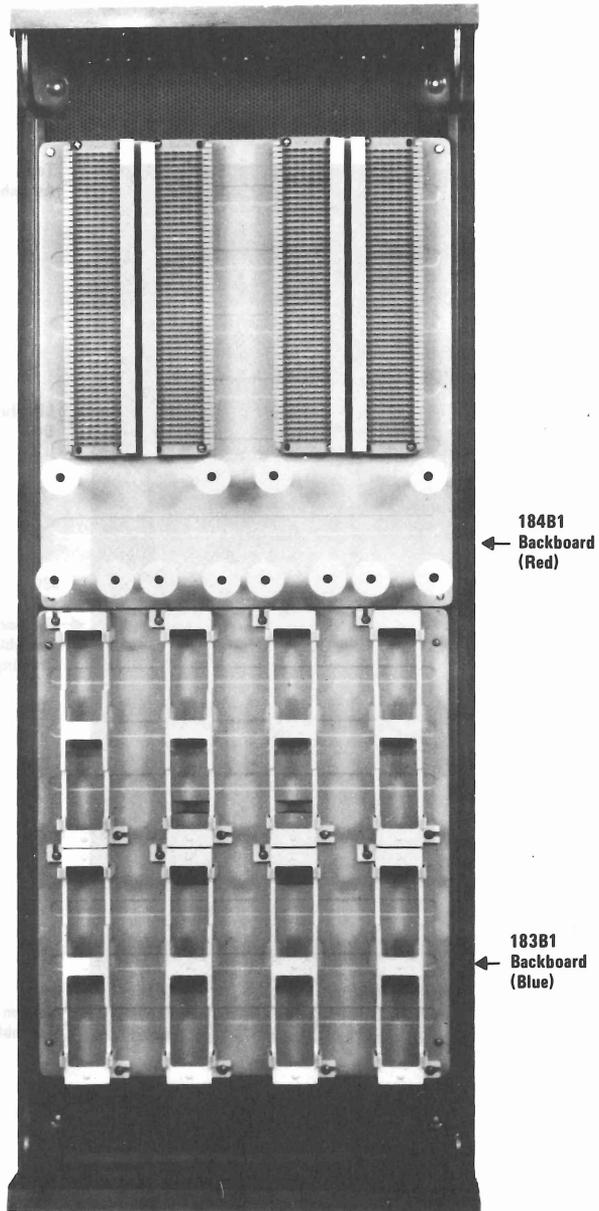
**TABLE B**

HM-S Cable Terminal Section	No. of Colored Backboards
HM202-S	2 High
HM303-S	3 High

Capacity of HM-S type closures.



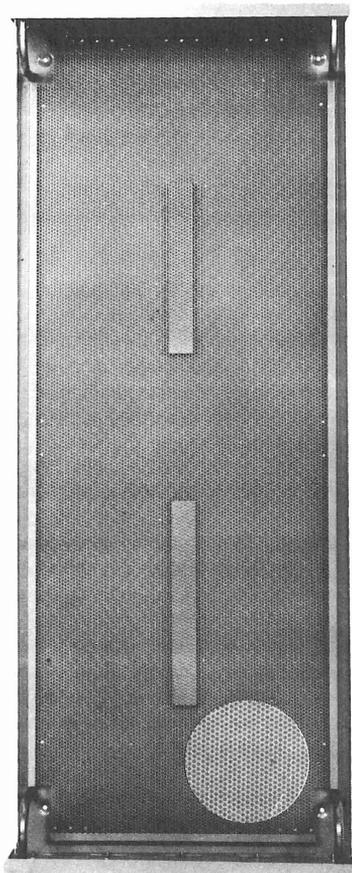
**FIGURE 1**



HM-202-S Cable Terminal Section

HM-303-S Cable Terminal Section

FIGURE 2



New All Purpose Perforated Back Panel

FIGURE 3