# CABLE SLEEVES

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## 1. GENERAL

### 1.1 Scope

1.11 This section contains the specific requirements and methods for installing cable sleeves.

1.12 It is assumed that the holes for the cable sleeves will have been cut in accordance with Section 15A before the operations of this section are started.

### 1.2 Associated Information

1.21 Section 15A covering Cable Holes, Slots and Sleeves - Common Information.

1.22 Information on painting of asbestos lumber covers, contained in Section 76.

1.23 Information on the mixing of cement grout, covered in Section 29.

1.24 Cable sleeve drawings furnished to the job.

## 2. INSTALLING EQUIPMENT

2.1 In addition to tools supplied in the general kits, the tools and materials listed below will be required for the operations covered by this section.

### 2.11 Kits

No. 4 Ironworkers Kit

### 2.12 Materials

| | |
|---|---|
| RM-641575 | Compound, Sealing |
| RM-585920 | Oakum, Rope |
| Obtain Locally (See Par. 3.1) | (Cement, Portland<br>(Sand, Medium Yellow<br>(Water, Ordinary Tap |

## 3. CABLE SLEEVES IN FLOORS AND WALLS

3.1 Sleeves in floors for switchboard and power cables should be installed as shown in Fig. 1. After the sleeves are in place the opening around them should be filled with cement grout and finished at the ceiling to match the surrounding finish. See Section 70 for finish.

### 3.2 In Covered Slot Between Columns

3.21 Power cable sleeves set in a covered slot between columns should be installed as shown in Fig. 1. The holes in the floor and ceiling plates should fit the sleeve closely and a suitable support, such as collar with set screw, furnished to hold each sleeve in place.

### 3.3 At Rear of Fuse Bays

3.31 Power cable sleeves set in the floor at the rear of fuse bays, relay rack mounted fuse panel bays or battery distributing fuse boards should be located as shown in Fig. 2. Sleeves are not used at frames, racks or fuse bays employing sheet metal base construction.

## 4. SEALING CABLE SLEEVES AND CONDUIT

### 4.1 Sealing Power and Switchboard Cable Sleeves

4.11 Sleeves containing power or switchboard cables, or both, are to be sealed at the top only, except over open cell battery rooms, by first packing with oakum to a depth of 3" to 4" and then with RM-641575 compound. In floors over open cell battery rooms, or where used in walls, sleeves shall be sealed at both ends.

### 4.2 Sealing Power and Switchboard Cable Conduit

4.21 Ends of conduit, other than floor sleeves, containing switchboard cable only, terminating upward or horizontally should be packed with oakum to a

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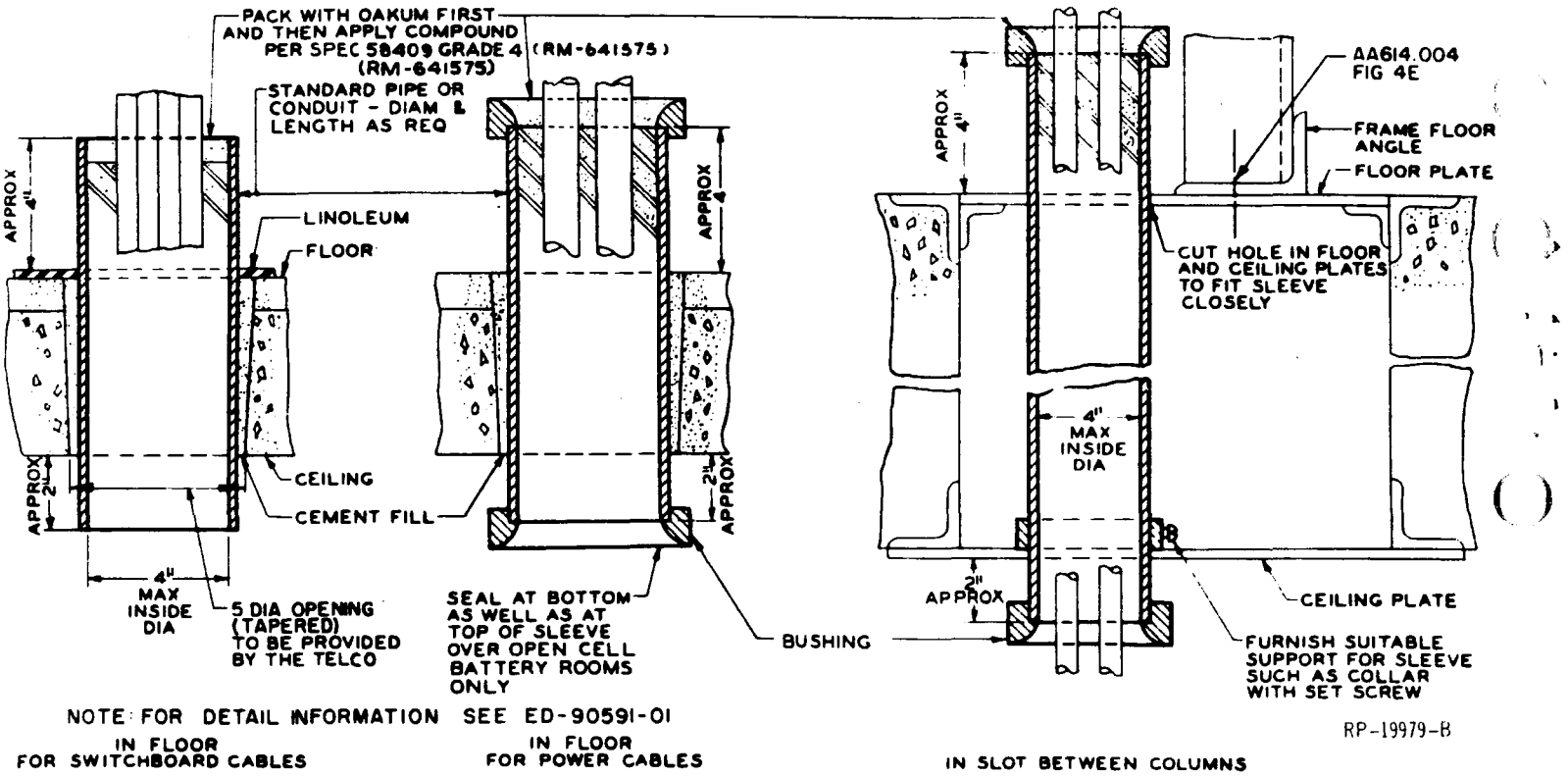


→ FIG. 1 CABLE SLEEVES (PARS. 3.1. 3.21)

depth of 3" to 4", except where both horizontal ends of the conduit terminate in the same room, no treatment of the ends is necessary.

(a) Where one or both ends of a conduit containing switchboard cables only is terminated in an open cell battery room, seal both ends by first packing with oakum and then with RM-641575 compound.

4.22 For sealing of conduit containing power cable alone or combined power and switchboard cables, other than sleeves in floors and walls see the section on Conduit-Connecting, Terminating, Sealing and Painting, Handbook 18.

5. VERIFICATION ITEMS

5.1 The number in parentheses refer to the associated requirements in this section.

5.11 Cement grout around cable sleeves in floor (3.1).

5.12 Sealing of cable sleeves.

(a) All sleeves sealed at top (4.11).

(b) In open cell battery rooms, sealed at both ends (4.11).

5.13 Power Cable Sleeves properly located (3.21).

5.14 Proper support of Power Cable Sleeves in covered slot between column (3.21).

5.15 Sealing of conduit.

(a) Conduit terminating upward or horizontally sealed at the ends except where both horizontal ends of the conduit terminate in the same room (4.21).

(b) In open cell battery rooms, sealed at both ends (4.21(a)).

→ Arrowed lines indicate new or changed information.

[ Vertical line at side of Paragraphs indicates requirements.

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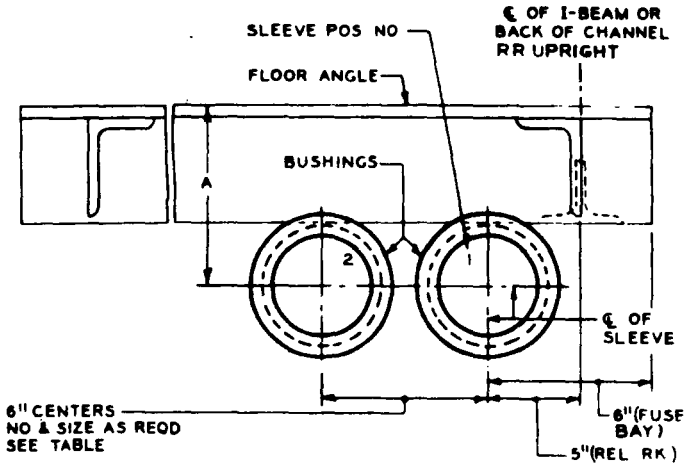
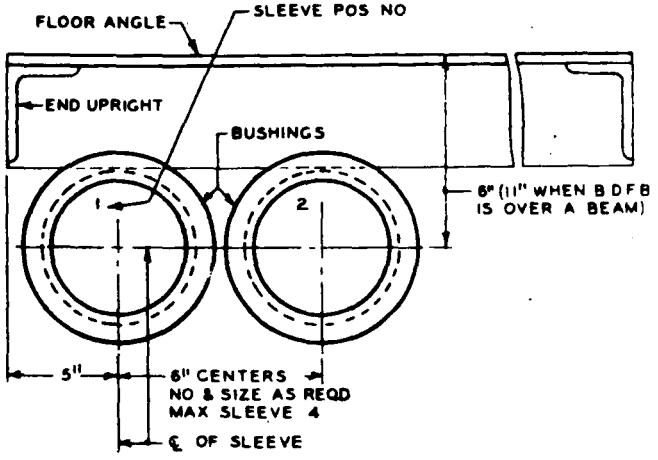
ATTACHMENT
Figure 2 on Page 3.

Reason for Reissue:
(1) To remove detail information and refer to applicable drawings in Figures 1 and 2.

Replaces Section 15C of 11-5-53.

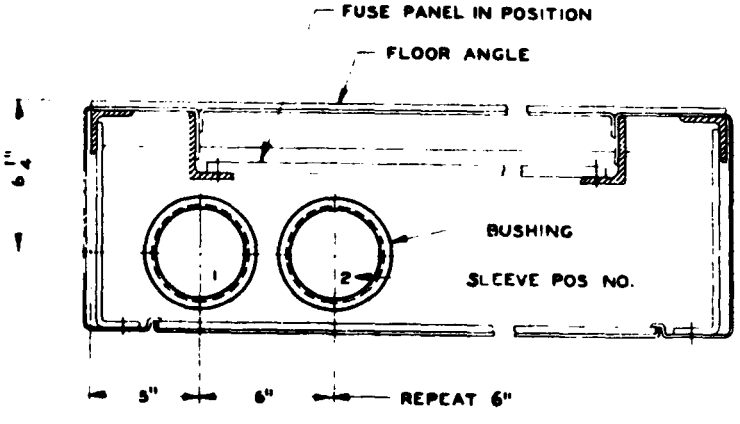



AT REAR OF FUSE BAYS OR BAY OF RELAY RACK MOUNTED FUSE PANELS HAVING OPEN TYPE GUARD RAILS




AT REAR OF BATTERY DISTRIBUTING FUSE BOARDS HAVING OPEN TYPE GUARD RAILS

| BAY LOCATION | A | MAX SLEEVE |
|---|---|---|
| 1'-3" OR 1'-8" GUARD RAIL - NOT OVER BEAM | 6" | 4" I D |
| 1'-3" OR 1'-8" GUARD RAIL - OVER A BEAM | 11" | 4" I D |
| 1'-0" GUARD RAIL NOT IN COL ROW | $5\frac{1}{8}$" | $2\frac{1}{2}$" I D |




NOTE FOR DETAIL INFORMATION SEE ED-90591-01

LOCATION OF POWER CABLE SLEEVES IN ENCLOSED TYPE BATTERY DISTRIBUTING FUSE PANEL

RP-19980-C

FIG. 2 LOCATION OF POWER CABLE SLEEVES (PAR. 3.31)