

**PACKAGED ELECTRONIC PRODUCTS
WIRING, CABLING, NUMBERING AND LETTERING
GENERAL EQUIPMENT REQUIREMENTS**

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1. GENERAL

1.01 This section covers specific requirements for packaged electronic products. These products may be characterized as consisting of electronic components interconnected and pre-assembled into distinct modules or units which may make up in whole or in part a specific piece of equipment. Such products may be either equipment coded or apparatus coded.

1.02 This section is reissued to make changes which are listed under reasons for reissue at the end of the section. Issue 1 was not given general distribution.

1.03 The requirements contained in this section supplement the standard requirements as covered in other sections in Division-Layer 800-6. The standard requirements apply unless modified herein or by applicable specifications and drawings.

1.04 This section lists as a matter of information the specific section where the standard requirements are covered. The exceptions, if any, are listed in each case.

2. GAUGE AND INSULATION OF WIRE

2.01 The gauge and type of insulation of wire to be used shall be covered in the design information. It is the responsibility of the Bell Telephone Laboratories, Incorporated, engineer to determine the gauge and type of wire to be used.

2.02 Section 800-610-152 covers the gauge and insulation of wire and reflects the current practices.

3. WIRING STYLES

3.01 *Straps:* The requirements contained in Section 800-612-159 shall apply.

3.02 *Surface Wiring and D3 Wiring:* The wiring may be run in the most convenient manner consistent with good workmanship. All wires shall be dressed away from vitreous enamel-type resistors. Where temperature-sensitive-type insulation, such as type BU wire is specified, the clearance between the wire and heat-dissipating resistors up to 2 watts shall be a minimum of 1/32 inch. For resistors larger than 2 watts, the clearance shall be a minimum of 1/8 inch.

3.03 *Open Wiring:* Wiring designated D, D1, and D2 shall be run in accordance with the requirements contained in Section 800-612-153.

3.04 *Local Cable Wiring:* Local cable shall be run in the path specified on the manufacturing drawings.

(a) Skinners shall be dressed from the cable to apparatus terminals so as to form a curve toward the apparatus, providing accessibility to the connection and a minimum of interference with the terminals of and con-

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nections to adjacent apparatus. The above requirements apply regardless of whether the local cable is run in the open or near the apparatus mounting plate or panel. The requirements for sewing and skinning contained in Section 800-612-153 shall apply.

4. PROTECTION OF WIRING

4.01 The requirements contained in Section 800-612-157 shall be followed for the protection of cable forms and skinners.

5. SHIELDED WIRING

5.01 The requirements contained in Section 800-612-164 shall be followed for the treatment of shielded wiring.

6. SPLICES

6.01 The requirements contained in Section 800-612-158 shall be followed for the splicing of wires.

7. CONNECTIONS TO TERMINALS

7.01 The requirements contained in Section 800-612-154 shall apply for connecting individual conductors except as follows.

- (a) Clockwise wrapping and top or right-hand soldering may be disregarded for soldered-type connections.

8. PIGTAIL APPARATUS

8.01 The requirements contained in Section 800-612-154 shall apply for the mounting and connecting of pigtail apparatus except as follows.

- (a) Code markings and values on pigtail apparatus need not be visible after mounting.

9. SOLDERING

9.01 The requirements contained in Section 800-612-154 shall apply for soldered connections.

→ 10. PRINTED WIRING ASSEMBLIES

10.01 The requirements contained in Section 800-610-159 shall apply.

↖ 11. AMPLAS ASSEMBLIES

11.01 The requirements contained in Section 800-610-161 shall apply.

12. NUMBERING AND LETTERING

12.01 In general the requirements covered in the numbering and lettering series of Sections 800-613-150 to 800-613-155 and 800-613-159 shall apply. In this series of practices, preferred locations of typical designations are shown for various types of apparatus and equipment arrangements. These locations shall be used for designations except where the number of characters involved necessitates encroachment on adjacent available space, where an arrangement of apparatus renders relocation desirable to avoid physical interference or confusion with adjacent apparatus or other stamping, or where visibility from the normal wiring position must be improved.

- (a) *Size of characters* prescribed in the above series of practices are preferred rubber stamp sizes to be used where space permits. These sizes may be reduced when there is not sufficient space for the preferred sizes.

REASONS FOR REISSUE

1. 10.01 was changed to omit Amplas assemblies.
2. 11.01 was added to cover Amplas assemblies.