



FIGURE 1

1. Scope

This specification applies to 12-hole tin-plated aluminum and copper rectangular bus bars dimensioned as shown in Figure 1. These bars are intended to be used as extensions for low voltage spade terminals on padmounted distribution transformers.

2. Material ID Number

This specification applies to District Material ID Number 504002.

3. Reference Standards

Except as modified herein, bars shall meet the applicable requirements of the latest revisions of ASTM B317 (aluminum) and ASTM B187 (copper).

IACS: International Annealed Copper Standard

4. Material

Bus bars shall be made of rectangular bar, either 6101-T61 aluminum alloy with a cross section of 1/2" x 3" or C11000 hard-tempered copper alloy with a cross section of 3/8" x 3". Bus bars shall be tin-plated to accommodate bimetallic connections. Thickness of tin-plating shall be 0.0002" min. - 0.0004" max.

Bus bars shall be free of sharp edges, sharp corners, burrs, slivers and other imperfections; corners shall be commercially square.

5. Current Ratings

Bus bars shall have the following current ratings for 60 cycle AC based on 30 °C rise over 40 °C ambient in still but unconfined air:

Aluminum (57% IACS, minimum) 1080 amps

Copper (98% conductivity, minimum) 1180 amps

6. Dimensions

Bus bars shall be drilled and dimensioned as shown in Figure 1.

7. Labeling

As a minimum, the manufacturer's name, a description of the contents and the quantity of items contained therein shall be marked on each carton.

8. Packaging

Bus bars shall be packaged in heavy-duty cardboard cartons. They shall be packaged in a manner designed to ensure safe delivery and handling without damage. Shipping weight shall not exceed 50-pounds per carton.