

BLADE TYPE ELECTRIC FUSES

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards board Format.

1. **Scope**—The fuses shown are for use in motor vehicles, boats, and trailers to protect electrical wiring and equipment. This standard is for the construction shown and is not intended to restrict the design and use of other configurations and materials capable of meeting the vehicle requirements.

2. References

2.1 **Applicable Publications**—The following publication forms a part of the specification to the extent specified herein. Unless otherwise indicated the latest revision of SAE publications shall apply.

2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J726 MAY81—Air Cleaner Test Code

3. Definitions

3.1 **Fuse**—A device designed to interrupt the electrical circuit when subjected to overcurrents. This action is to be nonreversible, and the fuse is intended to be replaced after the circuit malfunction has been corrected.

4. Part 1—Design Parameters

4.1 **Materials**—The fuses shall have transparent non-conductive bodies capable of withstanding vehicle environmental conditions as set forth in this standard. Terminals shall have a suitable finish which will assure corrosion protection and satisfactory mechanical and electrical properties.

4.2 **Construction**—Fuse terminals shall be tightly attached to the fuse body. Fuse elements shall be clearly visible through the body. Typical overall dimensions are shown in Figure 1.

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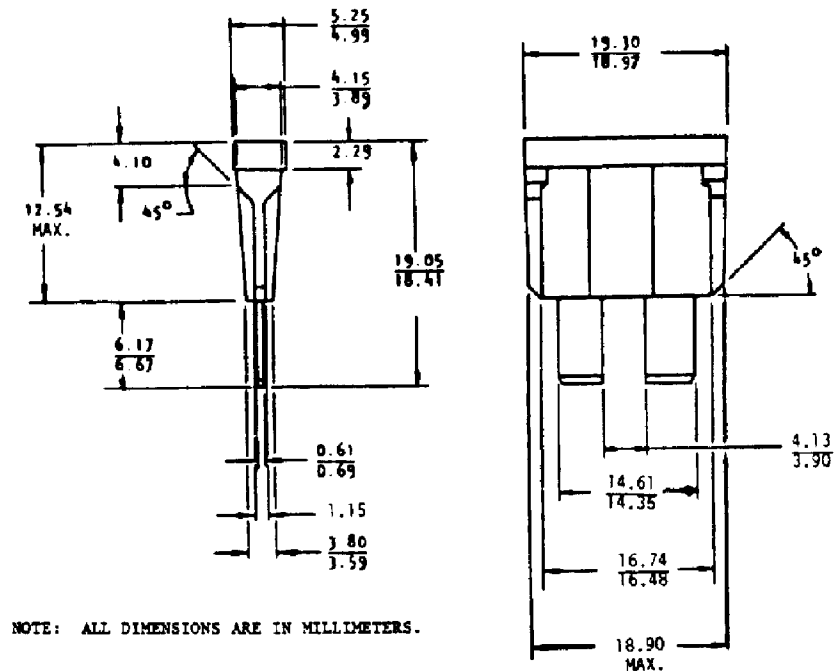


FIGURE 1—FUSE DIMENSIONS

- 4.3 Marking (Initially And After Environmental Exposure)**—Fuses shall be marked on the fuse body with the amperage, voltage rating, and the manufacturer's name or trademark. In addition, the fuse may be color coded provided that the element remains clearly visible through the non-conductive body. All color coding shall be as shown in Table 1. Marking shall be legible at the conclusion of all tests set forth in this standard.

TABLE 1—FUSE COLOR CODES

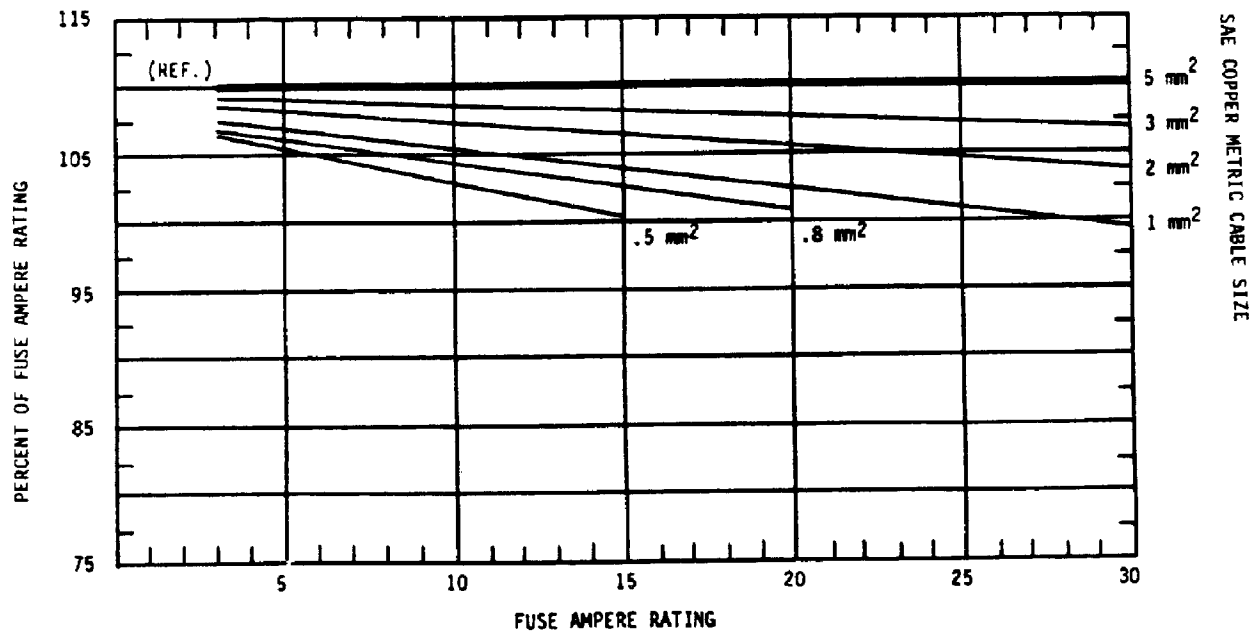
Ampere Rating	Color
3	Violet
4	Pink
5	Tan
7-1/2	Brown
10	Red
15	Light Blue
20	Yellow
25	Natural (White)
30	Light Green

5. Part 2 —Performance Requirements

5.1 Ampere Rating—This standard covers ampere rating up to and including 30A. Preferred ampere ratings are shown in Table 1. These ratings are determined at 24 °C ambient temperature using a test procedure detailed in Part 3, Section 6.1 of this standard.

The specific ampere capacity of the fuses is a function of the particular electrical system being utilized. To aid in determining the actual capacity change, several factors should be considered by the application engineer.

5.1.1 WIRE—Figure 2 represents the approximate capacity change due to cable sizes other than 5 mm².



NOTE: THIS CURVE BASED ON 110 PER CENT OF RATED CURRENT USING 5 mm² COPPER CABLE AT 24°C, TEST IN STANDARD TEST MODULE

FIGURE 2—CHANGE IN FUSE CURRENT CARRYING CAPACITY FOR VARIOUS CABLE SIZES AT 24°C