SAE International

SURFACE VEHICLE STANDARD

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Connections for On-Board Road Vehicle Electrical Wiring Harnesses - Part 3: Multipole Connectors - Flat Blade Terminals - Dimensional Characteristics and Specific Requirements

RATIONALE

This technology is very old and this technical report is being Stabilized because it covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

STABILIZED NOTICE

This document has been declared "Stabilized" by the SAE Connector Systems Standards Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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FOREWORD

This document is functionally equivalent to ISO 8092-3.

SAE J2223 consists of the following parts:

SAE J2223-1—Connections for On-Board Road Vehicle Electrical Wiring Harnesses—Part 1: Single-Pole Connectors—Flat Blade Terminals—Dimensional Characteristics and Specific Requirements
SAE J2223-2—Connections for On-Board Road Vehicle Electrical Wiring Harnesses—Part 2: Tests and General Performance Requirements
SAE J2223-3—Connections for On-Board Road Vehicle Electrical Wiring Harnesses—Part 3: Multipole Connectors—Flat Blade Terminals—Dimensional Characteristics and Specific Requirements

1. SCOPE

This SAE Standard defines dimensional characteristics of existing flat blades of multipole connectors and specific requirements for on-board electrical harnesses of road vehicles.

This document applies to connectors designed to be disconnected after mounting in the vehicle in the case of repair and/or maintenance only.

2. REFERENCES

2.1 Applicable Publications

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest version of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE J2223-1 Connections for On-Board Road Vehicle Electrical Wiring Harnesses—Part 1: Single-Pole Connectors—Flat Blade Terminals—Dimensional Characteristics and Specific Requirements

SAE J2223-2 Connections for On-Board Road Vehicle Electrical Wiring Harnesses—Part 2: Tests and General Performance Requirements

2.1.2 ISO Publication

Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ISO 8092-3 Connections for on-board road vehicle electrical wiring harnesses—Part 3: Multipole connectors—Flat blade terminals—Dimensional characteristics and specific requirements

3. DEFINITIONS

See SAE J2223-2, Section 3.

4. DIMENSIONSAL CHARACTERISTICS

Flat blades for multipole connectors shall conform to the dimensions given in Figure 1 and Table 1.

NOTE: Details not specified are left to the manufacturers choice.

5. SPECIFIC PERFORMANCE REQUIREMENTS

Multipole connectors according to this document shall meet the general performance of SAE J2223-2, and shall meet the following specific performance requirements.

5.1 Connector Resistance

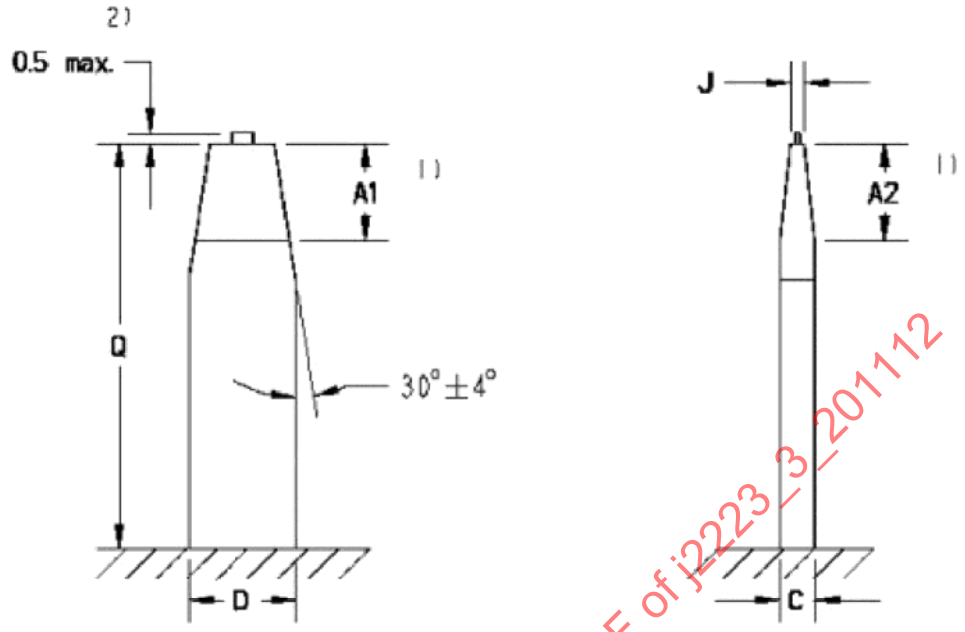
Multipole connectors tested as in SAE J2223-2 (see 5.3.1) shall meet the performance requirements of Table 2.

6. NOTES

6.1 Marginal Indicia

The change bar (|) located in the left margin is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

Dimensions in millimeters



1) A1 ≥ A2
2) If any material from blade production remains, it shall not interfere with the female terminal, however tab cutoffs at the terminal end are not recommended.
3) The chamfer may be convexly tapered on surfaces defined by A1 and A2.

NOTE - Q is the blade length required for engaging the female connector (functional area of blade).

FIGURE 1 -- BLADE DIMENSIONS