

INTERNATIONAL STANDARD

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Road vehicles — Electrical connections — Double-pole connection

Véhicules routiers — Connexions électriques — Connexion bipolaire



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 4165 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This second edition cancels and replaces the first edition (ISO 4165:1979), of which Figures 1 and 2, and the normative references, have been revised, and to which tests and requirements have been added.

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Road vehicles — Electrical connections — Double-pole connection

1 Scope

This International Standard specifies the dimensions and electrical characteristics of the double-pole connection required for the interchangeability of the electrical connections used to supply additional appliances in road vehicles with a nominal supply voltage of 12 V or 24 V d.c.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 6722:—¹⁾, *Road vehicles — 60 V and 600 V single-core cables — Dimensions, test methods and other requirements*

ISO 8092-2:2000, *Road vehicles — Connections for on-board electrical wiring harnesses — Part 2: Definitions, test methods and general performance requirements*²⁾

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 8092-2 apply.

4 Dimensions

The dimensions of the plug and socket shall be in accordance with the dimensions shown in Figure 1.

Details not specified are left to the manufacturer's choice.

5 Application

The connection is intended for application within protected areas such as the passenger compartment, luggage compartment, or similar areas. In case of outside mounting, additional protection is necessary.

6 Tests and requirements

6.1 General

Perform the tests at a room temperature of (23 ± 5) °C unless otherwise specified.

1) To be published. (Revision of ISO 6722: all parts)

2) Corrected and reprinted 2001.