
**Road vehicles — Connectors for the
electrical connection of towing and
towed vehicles —**

**Part 2:
13-pole connectors for vehicles with
12 V nominal supply voltage intended to
cross water fords**

*Véhicules routiers — Connecteurs pour liaisons électriques entre
véhicules tracteurs et véhicules tractés —*

*Partie 2: Connecteurs à 13 contacts pour véhicules à tension
d'alimentation nominale de 12 V destinés à traverser des gués*



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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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11446-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This first edition of ISO 11446-1 cancels and replaces the third edition of ISO 11446:2004, which has been technically revised and divided into two parts, ISO 11446-1 for vehicles not intended to cross water fords and ISO 11446-2 for vehicles intended to cross water fords.

ISO 11446 consists of the following parts, under the general title *Road vehicles — Connectors for the electrical connection of towing and towed vehicles*:

- *Part 1: 13-pole connectors for vehicles with 12 V nominal supply voltage not intended to cross water fords*
- *Part 2: 13-pole connectors for vehicles with 12 V nominal supply voltage intended to cross water fords*

Road vehicles — Connectors for the electrical connection of towing and towed vehicles —

Part 2:

13-pole connectors for vehicles with 12 V nominal supply voltage intended to cross water fords

1 Scope

This part of ISO 11446 specifies the dimensional characteristics of, and contact allocation and tests and requirements for, 13-pole connectors for the electrical connection of towing and towed vehicles with 12 V nominal supply voltage and intended to cross water fords. It specifies a park socket for receiving and storing the plug when it is disconnected.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1103, *Road vehicles — Coupling balls for caravans and light trailers — Dimensions*

ISO 4091, *Road vehicles — Connectors for the electrical connection of towing and towed vehicles — Definitions, tests and requirements*

ISO 4141 (all parts), *Road vehicles — Multi-core connecting cables*

ISO 11446-1, *Road vehicles — Connectors for the electrical connection of towing and towed vehicles — Part 1: 13-pole connectors for vehicles with 12 V nominal supply voltage not intended to cross water fords*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4091 apply.

4 Dimensions

The dimensions of the plug, the socket and the park socket shall be as specified in ISO 11446-1. Details not specified are at the manufacturer's discretion. The contacts shall be floating and shall align to the datum position when plug and socket are engaged.

5 Application of the connector

5.1 Connector positions and free space

The positions of, and free space around, the connectors shall comply with ISO 1103 and ISO 11446-1.

5.2 Contact allocation and designation

The contact allocation and contact designation shall be in accordance with ISO 11446-1.