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**Road vehicles — Electrical connections  
between towing and towed vehicles with  
24 V systems — 7 pole connector type 24 S  
(supplementary)**

*Véhicules routiers — Connexions électriques entre véhicule tracteur  
et véhicule tracté équipés d'un circuit électrique de 24 V — Connecteur  
à 7 contacts de type 24 S (supplémentaire)*



## Foreword

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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.

International Standard ISO 3731 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This third edition cancels and replaces the second edition (ISO 3731:1980), which has been technically revised and augmented by the inclusion of specific tests.

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# Road vehicles — Electrical connections between towing and towed vehicles with 24 V systems — 7 pole connector type 24 S (supplementary)

## 1 Scope

This International Standard specifies dimensional characteristics and specific requirements of the 7 pole connector type 24 S and its contact allocation for the electrical connection between trucks and their towed vehicles equipped with 24 V systems, to ensure their interchangeability.

This connector is intended to be used in addition to a 24 N connector in accordance with ISO 1185 if more than 7 poles are required.

NOTE — As an alternative to the use of these two connectors, the 15 pole connector in accordance with ISO 12098 should be considered.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All Standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1185:1997, *Road vehicles — Electrical connections between towing and towed vehicles with 24 V systems — 7 pole connector type 24 N (normal)*.

ISO 4009:1989, *Towing vehicles — Mounting of electrical connections on rear cross members*.

ISO 4091:1992 and Amendment 1:1997, *Road vehicles — Connectors for electrical connections between towing vehicles and trailers — Test methods and performance requirements*.

ISO 4141-1:—<sup>1)</sup>, *Road vehicles — Multi-core connecting cables — Part 1: Test methods and requirements of basic performance sheathed cables*.

ISO 4141-2:—<sup>1)</sup>, *Road vehicles — Multi-core connecting cables — Part 2: Test methods and requirements of high performance sheathed cables*.

ISO 4141-3:—<sup>1)</sup>, *Road vehicles — Multi-core connecting cables — Part 3: Construction, dimensions and marking of uncreened sheathed low-tension cables*.

1) To be published. (Revision of ISO 4141:1988)