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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 5053.2-2006

**Road vehicles - Connectors for the electrical connection of
towing and towed vehicles. 7-pole connector type 12 N (normal)
for vehicles with 12 V nominal supply voltage**

(English Translation)

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Foreword

This Part is equivalent to ISO 1724:2003 "Road vehicles - Connectors for the electrical connection of towing and towed vehicles - 7-pole connector type 12 N (normal) for vehicles with 12 V nominal supply voltage" (English version).

The following editorial changes have been made to this Part:

- a) MODIFY the name of the standard;
- b) USE "This Part" to replace this "this International Standard";
- c) ADD the foreword of Chinese standard;
- d) Where there is a national standard that equivalently adopts the international standard among the cited standards, CHANGE it into the corresponding national standard;
- e) EXPLAIN the selection and numbering of specimens in 6.1;
- f) ADD the references.

This Part replaces GB/T 5053.2-1985 "Electrical connections between motor vehicles and towed vehicles - Type 12N". Compared with GB/T 5053.2-1985, the main difference between this Part is the addition of tests and requirements (Chapter 6)

This Part was proposed by the Ministry of Communications of the People's Republic of

China.

This part is under the jurisdiction of the Trailer Sub-Technical Committee of the National Automotive Standardization Technical Committee (SAC/TC 114/SC 13).
Drafting organizations of this Part: Highway Research Institute of the Ministry of Communications, CIMC Vehicles (Group) Co., Ltd., Jiangsu Academy of Transportation Sciences, Jilin University, Jaeger Baowei Auto Parts (Shenzhen) Co., Ltd., Jiangsu Provincial Highway Society.

1 Scope

This standard specifies the dimensions, application, tests, requirements for a 7-pole connector type 12 N (normal) for vehicles with 12 V nominal supply voltage between a tractor and a trailer.

Note: If the 7-pole electrical connector cannot meet the requirements, the 13-pole electrical connector specified in GB/T 20718 can be used instead of the combination of this standard and the 7-pole electrical connector, which is specified in ISO 3732.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 5053.3-2006 Road vehicles - Connectors for the electrical connection of towing and towed vehicles - Definitions tests and requirements (ISO 4091:2003, IDT)

GB/T 5054.3-2006 Road vehicles - Multicore connecting cables - Part 3: Construction dimensions and marking of unscreened sheathed low-voltage cables (ISO 4141-3:1998, IDT)

ISO 1103 Road vehicles - Coupling balls for caravans and light trailers - Dimensions

ISO 3732 Road vehicles - Connectors for the electrical connection of towing and
towed vehicles - 7-pole connector type 12 S (supplementary) for vehicles with 12 V
nominal supply voltage

ISO 4141-1:1998 Road vehicles - Multi-core connecting cables - Part 1: Test
methods and requirements of basic performance sheathed cables

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