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

GB/T 25088-2010

**Road vehicles - Connectors for the electrical connection of
towing and towed vehicles. 7-pole connector type 24S
(supplementary) for vehicles with 24V nominal supply voltage**

道路车辆 牵引车和挂车之间的电连接器 24V7芯辅助型 (24S)

(English Translation)

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Foreword

This standard is modified using ISO 3731.:2003 "Road vehicle between the tractor and the tractor between the electrical connector 24V Nominal voltage 7-pin 24S (auxiliary) type connector ".

This standard is redrafted according to ISO 3731.:2003.

The differences between the standard and ISO 3731.:2003 technical content and the reasons are as follows.

--- for the 12S connector with the standard 4.3 consistent, the standard 4.3 increased the "figure shows the socket cover open, pull After the plug should be automatically closed ";

In order to be consistent with the requirements of the 15-pin connector standard in the standard, this standard 5.6 adds "such as the terminal connection to other horizontal Cross-sectional area of the cable, should be agreed by the manufacturer and the user ";

--- To align with the title of Chapter 6 of the 12S Connector Standard, replace the title of Chapter 6 of this Standard with "Test and Special Requirements";

The number of samples in each section of 6.1 is not given in this section. In this standard, "each group of test samples should be 3" operating;

- the provisions of the national standard, the scope of application increased "This standard applies to the tractor and trailer between the 7-core 24S-type electric Device ".

This standard is relative to ISO 3731.:2003 Editorial changes are as follows.

--- the original "international standards" to "this standard".

This standard is proposed by the National Development and Reform Commission.

This standard is owned by the National Automobile Standardization Technical Committee.

This standard by the China Automotive Technology Research Center, Jiali Baowei Auto Parts Shenzhen Co., Ltd., Suzhou Branch Po Optoelectronics Technology Co., Ltd., Changsha Automobile Electric Appliance Research Institute, Henan Tianhai Electric Co., Ltd. is responsible for drafting.

1 Scope

This standard specifies the nominal voltage of 24V between the tractor and trailer 7-pin 24S-type electrical connector size, characteristics, contact Distribution and so on. The 24S connector is used with a 24N connector for use with more than 7 core requirements and GB/T 5053.1.

This standard applies to the 7-pin 24S electrical connector between the tractor and the trailer.

Note: Prepared to use more than 7 core requirements, you can choose to use the 15-pin electrical connector instead of this standard with the 5053.1 provisions of the 7-pin electrical connector combination.

2 Normative reference documents

The terms of the following documents are hereby incorporated by reference into this standard. Whichever is the date of the reference file, which is followed by all (Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard Whether you can use the latest version of these files. For undated references, the latest edition applies to this standard.

GB/T 5053.1 Road vehicles Electrical connectors between tractor and trailer 7-core 24V standard (24N) (GB/T 5053.1-2006, ISO 1185.:2003, IDT) GB/T 5053.3 Road vehicles - Definitions, test methods and requirements for electrical connectors between tractors and trailers (GB/T 5053.3-2006, ISO 4091.:2003, IDT) GB/T 5054 (all parts) Road vehicles Multi-core connecting cables (ISO 4141 (all parts), IDT) ISO 4009 The position of the electrical connection and the air connection between the tractor and the trailer

3 Terms and definitions

The terms and definitions established in GB/T 5053.3 apply to this standard.

4.1 General

The details of this standard are not determined by the manufacturer.

4.2 Plugs

The size of the plug is shown in Figure 1. The plug should have 6 elastic jacks (2 to 7) and 1 pin (No. 1).