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

GB/T 25616-2010

**Earth-moving machinery -- Auxiliary starting aid electrical
connector**

土方机械 辅助起动装置的电连接件

(English Translation)

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Foreword

This standard is identical with ISO 11862:1993 "electrical connection of earth-moving machinery starting aid" (in English).

This standard is equivalent to translate ISO 11862:1993.

For ease of use, this standard made the following editorial changes.

- "This International Standard" be replaced by "this standard";
- Instead of using the decimal point as a decimal point ",", " ";
- Figure 3 footnote number in the form of "1)" to "a";
- Of ISO 11862:1993 international standard referenced with the international standard has been adopted as a standard in place of the corresponding;
- Remove the foreword to international standards.

The standard proposed by China Machinery Industry Federation.

This standard by the national earthmoving machinery Standardization Technical Committee (SAC/TC334) centralized.

1 Scope

This standard specifies the plugs and sockets graphics, size, design, they must be able to cooperate fully in order to meet the different configurations of electrical connectors (T 8498 defined earthmoving machinery to provide connectivity to the auxiliary starting circuit of GB /) requirements can interactively use. This standard has positive Correct polarity connection means universal, standard coding circuit and short circuit protection provisions made, and can be used on the same circuit voltage range of other machines Machinery, vehicles or mobile equipment.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 3956-2008 conductor cable (IEC 60228:2004, IDT) GB/T 5013.4-2008 rated voltage of 450/750V and below rubber insulated cables Part 4. Cords and flexible cables (IEC 60245-4:2004, IDT) GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT) GB/T 13539.1 low-voltage fuses - Part 1. General requirements (GB/T 13539.1-2008, IEC 60269-1:2006, IDT) GB/T 22353 earthmoving machinery wires and cables of identification and marking (GB/T 22353-2008, ISO 9247:1990, IDT)

3.1 Socket Assembly

As shown in FIG. 1 socket assembly should be, and should be permanently installed on the machine. Socket assembly having a male terminal [see FIG. 3b)], this structure can when guaranteed with plug to match the correct polarity.

3.2 Plug assembly

Plug assembly should be shown, it serves 2 from one machine to another machine [see Figure 2a)] or from an external power source (battery) to the machine Device [see Figure 2b)] auxiliary starting role. Plug has a female [see Fig. 3a)] and cooperating with the socket assembly 3.1.

4.1 Material

Connector body made of glass fiber reinforced nylon, or other equivalent or superior moldable flame retardant insulation material; should be plated connecting part, to ensure low corrosion and low resistance.

4.2 Terminals

Terminals shall comply with Figure 3, in order to ensure that the mechanical and electrical safety, before molding welding or other suitable methods should be used and make it permanently Connected to the cable end.

4.3 Cable

Universal carrying cable Nominal cross section 50mm², 70mm² or 95mm², and in line with GB/T 3956-2008 fifth regulation set. Cable outlet and plug the cable should meet the GB/T 5013.4-2008 model 60245IEC 66 (YCW). Plug the cable in particular Use a flexible cable.

All cables should be long enough, and there is an appropriate terminal machine, or any machine connected between corresponding points of the auxiliary power supply.

It should ensure that all cables connected to secure and protect the cable from damage inside the machine.

4.4 Fuse

Fuses should comply with GB/T 13539.1 requirements.