

ICS 29.060.20

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

GB/T 5013.6-2008

Replacing GB 5013.6-1997

**Rubber insulated cables of rated voltages up to and including
450/750 V -- Part 6: Arc welding electrode cables**

额定电压450/750V及以下橡皮绝缘电缆 第6部分：电焊机电缆

(English Translation)

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Foreword

GB/T 5013 "rated voltage 450/750V and below rubber insulated cable" is divided into eight sections.

- Part 1. General requirements;
- Part 2. Test methods;
- Part 3. Heat resistant silicone rubber insulated cables;
- Part 4. Cords and flexible cables;
- Part 5. Lift cables;
- Part 6. Arc welding cables;
- Part 7. Heat resistant ethylene - vinyl acetate rubber insulated cables;
- Part 8. Cords.

This section GB/T 5013 Part 6. This section identical with IEC 60245-6:1994 "rated voltage 450/750V and with Rubber insulated cables under Part 6. Welding cable "(in English) and its amendments Amendment1.1997, Amendment2.

2003 (in English).

For ease of use, GB/T 5013 made this part of the following Edit Review.

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Delete international standards foreword.

This section instead of from the date of implementation of the GB/T 5013.6-1997.

This section of the main changes compared to GB 5013.6-1997 are as follows.

--- Insulating material "IE4" instead of "IE1";

--- Table 1 reduces the average outer diameter of the lower and upper values
and footnotes 2 "Measurement of coating thickness shall GB/T 5013.1-

5.5.3 The provisions in 2008 ";

--- Table 2 3.3 "after oxygen bomb aging tensile testing" replaced by "air missile after aging
tensile testing" and add 3.5 "Ozone test".

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee of wire and cable.

This part of the unit responsible for drafting. Shanghai Electric Cable Research Institute.

Participated in the drafting of this section. Guangdong Huasheng Electric Industrial Co.,
Ltd., Jiangsu on the cable group, Kunming Cable Co., Ltd., Qingdao Hanlan Group Co.,
Ltd., Shanghai Nanyang Cable Co., Ltd., Wuxi Jiangnan Cable Co., Ltd.

1.1 Scope

GB/T 5013 This section gives the technical requirements of rubber insulated welding cable.

Each cable shall comply with the requirements and the specific requirements of this part of
GB/T 5013.1 regulations.

1.2 Normative references

The following documents contain provisions which, through GB/T reference in this 5013
constitute provisions of this section. For dated references, all subsequent amendments
(excluding corrections) or revisions do not apply to this section, however, encourage an
agreement under this section Parties to study the latest versions of these documents. For
undated reference documents, the latest versions apply to this section.

GB/T 2951.1-1997 cable insulation and sheathing materials test methods - Part 1. General
Test Methods 1. Thick Degree and dimensions measuring --- mechanical tests (idt IEC
60811-1-1:1993) GB/T 2951.2-1997 cable insulation and sheathing materials test methods
- Part 1. General test methods - Part 2. Hot Aging methods (idt IEC 60811-1-2. 1985) GB/T
2951.5-1997 cable insulation and sheathing materials test methods - Part 2. elastomeric
compounds specific test side Act 1. Ozone resistance test --- --- Hot set test - Mineral oil
immersion test (idt IEC 60811-2-1. 1986) GB/T 5013.1-2008 rated voltage of 450/750V and
below rubber insulated cables - Part 1. General requirements (IEC 60245-1:2003, IDT)
GB/T 5013.2-2008 rated voltage of 450/750V and below rubber insulated cables - Part 2.
Test methods (IEC 60245-2:1998, IDT)

2.1 Model

Rubber Welding cable. 60245IEC 81 (YH);

Neoprene or other equivalent synthetic elastomer insulated welding cables. 60245IEC 82 (YHF).

2.2 Rated voltage

Since this type of cable is dedicated to welding, so the rated voltage is not specified.

2.3.1 Conductor

Number of cores. a core.

Conductor shall comply with the requirements specified in Table 1 column 2.

Single line can not tin or tin.

2.3.2 Spacer layer

It should be applied around a conductor layer made of a suitable material for the isolation layer.

2.3.3 Overlay

Conductor and the isolation layer by following one covering layer protection.

2.3.3.1

The minimum tensile strength of 12MPa SE3 rubber mixture is extruded covering layer constituting the insulation and jacket, and its thickness should be consistent Value specified in Table 1, column 3.

GB/T 5013.6-2008/IEC 60245-6:1994