

ICS 29.060.20

CCS K 13



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

GB/T 5023.7-2008

Replacing GB 5023.7-1997

**Polyvinyl chloride insulated cables of rated voltages up to and
including 450/750 V -- Part 7: Flexible cables screened and
unscreened with two or more conductors**

额定电压450/750V及以下聚氯乙烯绝缘电缆 第7部分：二芯或多芯屏蔽和非屏蔽
软电缆

(English Translation)

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Foreword

GB/T 5023 "rated voltage 450/750V and below PVC insulated cables" is divided into seven parts.

- Part 1. General requirements;
- Part 2. Test methods;
- Part 3. Non-sheathed cables for fixed wiring;
- Part 4. Sheathed cables for fixed wiring;
- Part 5. Flexible cables (cords);
- Part 6. Lift cables and cables for flexible connection;
- Part 7. two-core or multi-core shielded and unshielded cable.

This section GB/T 5023 Part 7. This section identical with IEC 60227-7:2003 "rated voltage 450/750V and with Under PVC insulated cables Part 7. two-core or multi-core shielded and unshielded cables soft "version 1.1 (in English).

For ease of use, GB/T 5023 made this part of the following editorial changes.

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

--- Remove the IEC 60227-7:2003 Foreword.

This Part replaces GB 5023.7-1997 "rated voltage 450/750V and below PVC insulated cables Part 7. batteries or Multi-core shielded and non-shielded flexible cable. " this section of the main changes compared to GB 5023.7-1997 are as follows.

--- Normative references added to the following documents.

IEC 60502-1:2004 Rated voltage 1kV ($U_m = 1.2\text{kV}$) to 30kV ($U_m = 36\text{kV}$) power cables with extruded insulation and Annex Part 1. Rated voltage 1kV ($U_m = 1.2\text{kV}$) to 3kV ($U_m = 3.6\text{kV}$) cable;

--- GB 9023-1988 by GB/T 12269-1990 substitute;

--- Increase Normative Appendix A. coding model representation.

This section of Appendix A normative appendix.

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

This part of the National Standardization Technical Committee Wire and Cable (SAC/TC213) centralized.

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

Participated in the drafting of this section. Shanghai Panda Cable Co., Ltd., Nanchang Cable Co., Ltd., Jiang Su Shengan cable Limited Division, Old Port Shanghai Shen Ling Electronics Cable Co., Ltd., Fujian Nanping Sun Cable Co., Ltd., Hunan Cable Co., Ltd. able Gold Cup.

1.1 Scope

This section GB/T 5023 details the rated voltage of 300/500V and below PVC insulated shielded and unshielded insulated control Technical requirements for the system cables.

All cables shall meet the appropriate requirements of GB/T 5023.1 regulations, and various types of cables shall conform to the special provisions of this Part Specific requirements.

1.2 Normative references

The following documents contain provisions which, through GB/T reference in this 5023 constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 2951.11-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 11. General test side Law --- Measurement of thickness and overall dimensions of mechanical tests (IEC 60811-1-1:2001, IDT) GB/T 2951.12-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 12. General test side Law --- Thermal aging methods (IEC 60811-1-2. 1985, IDT) GB/T 2951.14-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 14. General test side Law --- Low temperature test (IEC 60811-1-4. 1985, IDT) GB/T 2951.21-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 21. elastomeric compounds designed Test method for ozone resistance test --- Hot set test - Mineral oil immersion tests (IEC 60811-2-1:2001, IDT) GB/T 2951.31-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 31. Polyvinyl chloride mixture Methods specific high temperature pressure test --- resistance to cracking (IEC 60811-3-1. 1985, IDT) GB/T 2951.32-2008

cable and the cable Common test methods for insulating and sheathing materials - Part 32. special PVC compounds Test methods for weight loss --- test - Thermal stability test (IEC 60811-3-2. 1985, IDT) GB/T 3956-1997 cable conductor (idt, IEC 60228. 1978) GB/T 5023.1-2008 rated voltage of 450/750V and below PVC insulated cables - Part 1. General requirements (IEC 60227-1:2007, IDT) GB/T 5023.2-2008 rated voltage of 450/750V or less PVC insulation - Part 2. Test methods (IEC 60227-2:2003, IDT) GB/T 12269-1990 General specification for radio frequency cable (idt, IEC 60096-1. 1986) GB/T 18380.12-2008 burning test and optical fiber cables under fire conditions - Part 12. single insulated wire and cable fire Vertical flame spread test (IEC 60332-1-2:2004, IDT) IEC 60502-1:2004 Rated voltage 1kV ($U_m = 1.2\text{kV}$) to 30kV ($U_m = 36\text{kV}$) power cables with extruded insulation and enclosure Member - Part 1. Rated voltage 1kV ($U_m = 1.2\text{kV}$) to 3kV ($U_m = 3.6\text{kV}$) cable IEC 60719 rated voltage of 450/750V average outer diameter of the upper circular copper conductor cable and a lower limit and calculation method GB/T 5023.7-2008/IEC 60227-7:2003