

ICS 29.060.20

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

GB/T 5023.5-2008

Replacing GB 5023.5-1997

**Polyvinyl chloride insulated cables of rated voltages up to and
including 450/750 V -- Part 5: Flexible cables (cords)**

额定电压450/750V及以下聚氯乙烯绝缘电缆 第5部分：软电缆（软线）

(English Translation)

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Table of Contents

- Foreword
- 1 General
 - 1.1 Scope
 - 1.2 Normative references
- 2 Flat copper cord
 - 2.1 Model
 - 2.2 Rated voltage
 - 2.3 Structure

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 5. This section identical with IEC 60227-5:2003 "rated voltage 450/750V and with Under PVC insulated cables - Part 5. Flexible cables (cords), "Version 2.2 (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 60227-5:2003 Foreword;
- Deleted references.

This Part replaces GB 5023.5-1997 "rated voltage 450/750V and below PVC insulated cables - Part 5. Flexible cables (Cords). " this section of the main changes compared to GB 5023.5-1997 are as follows.

--- Normative references added to the following documents.

IEC 60719 rated voltage of 450/750V average outer diameter of the upper and lower limits of the calculation method and the following round copper conductor cable;

Chapter 3 --- Remove the flat non-sheathed cord 60227IEC 42;

--- Increase the conductor temperature of 90 °C heat resistant light PVC sheathed flexible cord (60227IEC 56);

--- Increase the conductor temperature of 90 °C heat resistant ordinary PVC sheathed flexible cord (60227IEC 57);

--- 60227IEC 43 cable set an average dimension lower limit;

--- 4.3.2 modified to 70 °C insulation resistance should be not less than the predetermined value table of column 75;

--- Within Chapter 4 is amended as indoor decorative lighting circuits GB/T 3596-1997 in the fifth conductor cord conductors.

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. Fujian Nanping Sun Cable Co., Ltd., Hunan Cable Co., Ltd. can Jinbei, Baosheng Science and Technology Year New Co., Ltd., Zhejiang Wanma Cable Co., Ltd., Shanghai Panda Cable Co., Ltd., Nanchang Cable Co., Ltd.

1.1 Scope

GB/T 5023 this part of the detailed provisions of the rated voltage of 300/500V and below PVC flexible cables (cords) technical requirements.

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 2951.31-2008 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. Polyvinyl chloride mixture Special test methods --- Loss of mass test - Thermal stability test (IEC 60811-3-2. 1985, IDT) GB/T 3956-1997 cable conductor (idt IEC 60228. 1978) GB/T 5023.1 rated voltage of 450/750 V and below PVC insulated cables - Part 1. General requirements (GB/T 5023.1-2008, 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 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 60719 rated voltage of 450/750V or less average outer upper and lower round copper conductor cable and calculation method

2.1 Model

60227IEC 41 (RTPVR).

2.2 Rated voltage

300/300V.

2.3.1 Conductor

Number of cores. 2 core.

GB/T 5023.5-2008/IEC 60227-5:2003