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

GB/T 12972.1-2008

Replacing GB 12972.1-1991

**Flexible rubber-sheathed cables for mining purposes - Part 1:
General requirements**

矿用橡套软电缆 第1部分: 一般规定

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Foreword

GB/T 12972 "mining rubber flexible cable" is divided into 10 parts.

- Part 1. General requirements;
- Part 2. Rated voltage 1.9/3.3kV and below Shearer flexible cables;
- Part 3. rated voltage of 0.66/1.14kV Shearer shielded monitor enhanced flexible cables;
- Part 4. Rated voltage 1.9/3.3kV and below Shearer metal shield soft cable;
- Part 5. rated voltage of 0.66/1.14kV and following mobile rubber soft cable;
- Part 6. Rated voltage 6/10kV and below the metal shield Flexible cables with monitoring;
- Part 7. rated voltage 6/10kV and below shielded rubber-sheathed cables;
- Part 8. Rated voltage 0.3/0.5kV drill cables;
- Part 9. Rated voltage 0.3/0.5kV light mine mobile rubber soft cable;
- Part 10. Miner 's cap lamp cords. This section GB/T 12972 Part 1. This Part replaces GB 12972.1-1991 "mining rubber-sheathed cables - Part 1. General requirements." This section compared with GB 12972.1-1991, the main changes are as follows:
 - Conductor using GB/T 3956-1997 in the fifth conductor, to replace the original GB 3956-1983 third conductor structure and cancel it Table 1 edition (1991 version 4.1 and Table 1; edition 5.1);
 - Increasing the rated voltage of 0.66/1.14kV and below unshielded insulated wire core flooding frequency AC voltage test (Excerpts 5.2.3);

1 Scope

GB/T 12972.1-2008 is the Chinese national standard on flexible rubber-sheathed cables for mining purposes - part 1: general requirements, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in

practice is how most foreign buyers meet it. It was issued on 30 June 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2009. Classification: ICS 29.060.20, CCS K13. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section GB/T 12972 specifies the mining rubber flexible cable product classification, general technical requirements, test methods and inspection rules. This part is applicable to the exchange rated voltage U_0/U to 6/10kV and below mine copper core rubber insulated rubber sheathed flexible cable. This section should be separately and GB/T 12972 subsequent parts used in common.

2 Normative references

The following documents contain provisions which, through reference

GB/T 12972 in this section constitute provisions of this section. 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 2900.10-2001 Electrotechnical terminology cable (idt IEC 60050-461. 1984)

GB/T 3048.8-2007 electrical wire and cable performance test methods - Part 8. AC voltage test (IEC 60060-1. 1989, NEQ)

GB/T 3048.9-2007 electrical wire and cable performance test methods - Part 9. spark test of insulated cores

GB/T 3048.12-2007 wire and cable electrical performance test methods - Part 12. Partial discharge tests (IEC 60885-3. 1988, MOD)

GB/T 3048.13-2007 wire and cable electrical performance test methods - Part 13. impulse voltage test (IEC 60230. 1966, IEC 60060-1. 1989, MOD)

GB/T 3956-1997 cable conductor (idt IEC 60228. 1978)

JB/T 8137-1999 (all parts) wire and cable delivery plate YB/T 5294-2006 general purpose low carbon steel wire

3 Wheeled bending test (cable bending 18,000 times) (1991 version

11.8 and Appendix C; this edition

5.8.8 and Appendix D);

--- Increased U_0/U is 1.9/3.3kV capacitor dielectric value of water absorption test (edition of 5.8.13);

--- Removed from the standard length of delivery specified in the agreement and without short length predetermined value (1991 version

11.12 and Table 9);

--- Increase in transportation and storage requirements (edition 8);

--- Increase in Appendix A "rubber insulation requirements" (Excerpts Appendix A). This section of the Appendix A, Appendix B, Appendix C, Appendix D, Appendix E Appendix F and 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. Fushun Branch of Coal Science Research Institute, Shanghai Shenghua Cable Group Co., Ltd., Shandong Luneng Taishan Qufu Special Species Cable Co., Ltd., Jiangsu Far East Cable Co., Ltd., Hebei, China-cable Manufacturing Co., Ltd. The main drafters of this section. Zeng Ji Gang, Tang Jiazi, Fu Bao Chan, Shen Kuang day, Xiaodong, Wang Chuanbin, Haoqing Fen. This part of the standard replaces the previous editions are.

--- GB 1170-1974;

--- GB 12972.1-1991. Mining rubber flexible cable Part 1. General requirements