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

**GB/T 12972.10-2008**

Replacing GB 12972.10-1991

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**Flexible rubber-sheathed cables for mining purposes - Part 10:  
Miner's cap lamp cords**

矿用橡套软电缆 第10部分: 矿工帽灯电线

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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 Part of 1,012,972. This Part replaces GB 12972.10-1991 "mining rubber-sheathed cables - Part 10. Miner cap lamp cords." This section compared with GB 12972.10-1991, the main changes are as follows:
  - Remove the cable jacket does not burn resistant properties of UM model (1991 edition Table 2);
  - Deleted Appendix A (1991 edition of Appendix A);
  - Cable burning test by the GB/T 18380.1 "burning wire and cable test method" to replace the original GB 12666.2 "single wire or cable Vertical burning test method "(1991 edition Table 3; Table 3 edition). 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. Coal Research Institute

Shanghai Branch, Shanghai Mine Cable Factory, Shanghai Nanyang Cable Co., Ltd., Baosheng Science and Technology Innovation Co., Ltd., Jiangsu on the cable Group Co., Ltd. The main drafters of this section. Zeng Ji Gang, Qu Bo, Wang Xi, Chen Tianrong, Tan Jinfeng, Li Xingjiang, Yuan Jie. This part of the standard replaces the previous editions are.

## 1 Scope

GB/T 12972.10-2008 is the Chinese national standard on flexible rubber-sheathed cables for mining purposes - part 10: miner's cap lamp cords, 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 amount of miner's cap lamp wire product variety, technical requirements, test methods and inspection rules. This section applies to mineral insulated rubber sheathed cable with copper core rubber cap lamp. This section should be GB/T 12972.1-2008 common use.

## 2 Normative references

The following documents contain provisions which, through reference

GB/T 12972 in this section 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 2951.11-2008 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 2951.21-2008 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 3048.4-2007 cable Cable electrical performance test methods - Part 4. Conductor DC resistance test

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 4909.2-1985 Test methods for bare wires sizing (neq IEC 60251. 1978)

GB/T 6995.1-2008 wire and cable identification methods - Part 1. General requirements

### **3 Use Characteristics**

3.1 Operating voltage DC 5V.

3.2 cable conductor long-term allowable working temperature of 65 °C.

#### **4.1 Cable type shown in Table 1. Table**

1 Model Name Purpose UM-1 miner's cap lamp cable for a variety of acid and alkaline miner