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

GB/T 12972.3-2008

Replacing GB 12972.3-1991

**Flexible rubber-sheathed cables for mining purposes - Part 3:
Trailing coalcutter cables with monitoring core and
semiconducting screens for rated voltage of 0.66/1.14kV**

矿用橡套软电缆 第3部分: 额定电压0.66/1.14kV 采煤机屏蔽监视加强型软电缆

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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 3. The partial replacement of generations GB 12972.3-1991 "mining rubber-sheathed cables - Part 3. Rated voltage 0.66/1.14kV Shearer Enhanced surveillance shielded flexible cable. " This section compared with GB 12972.3-1991, the main changes are as follows:
 - Increase insulated power core and control core 20 °C when the insulation resistance value (edition 7.1);
 - Cable burning test by the GB/T 18380.1 "cables under fire conditions test - Part 1. single insulated wire or Cable vertical burning test method "to replace the original GB 12666.2" single wire or cable vertical burning test method "(1991 edition Table 3; edition 7.3);
 - Remove the reinforcing layer density calculation (1991 edition Appendix C) cover. This section of the Appendix A, Appendix B, Appendix C, Appendix D and Appendix E are 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 Yankuang Group length Long Cable Manufacturing Co., Ltd., Shandong Luneng Taishan Cable Co., Ltd. Qufu specialty, Jiangsu Coal Cable Group Limited. The main drafters of this section. Tangjia Zi, Qu Bo, Fu Bao Chan, Hu Jianguo, Li Xingjiang, Xiaodong, Liu Wensheng. This part of the standard replaces the previous editions are.

1 Scope

GB/T 12972.3-2008 is the Chinese national standard on flexible rubber-sheathed cables for mining purposes - part 3: trailing coalcutter cables with monitoring core and semiconducting screens for rated voltage of 0.66/1.14kV, 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 rated voltage of 0.66/1.14kV Shearer shielded monitor enhanced flexible cable product variety, technology Operation requirements, test methods and inspection rules. This section applies to the rated voltage of 0.66/1.14kV Shearer and similar equipment shielded copper core rubber insulated rubber sheath strengthen surveillance Type flexible cable. 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 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 and optical cables - Common test methods for insulating and sheathing materials Part 11. General test method

--- Measurement of thickness and overall dimensions of mechanical tests (IEC 60811-1-1.2001, IDT)

GB/T 2951.12-2008 and optical cables - Common test methods for insulating and sheathing

materials Part 12. General test method

--- 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 3048.5-2007 cable Cable electrical performance test methods - Part 5. Insulation 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 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 Rated voltage U_0/U of 0.66/1.14kV.

3.2 cable conductor long-term allowable working temperature of 90 °C.

3.3 cable minimum bend radius is 15 times the cable diameter.

3.4 cable can not long-term exposure to sunlight.