

ICS 29.060.10

CCS K11



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

GB/T 12970.2-2009

Replacing GB/T 12970.2-1991

**Flexible copper stranded conductors for electrical purposes -
Part 2: Flexible copper stranded conductors**

电工软铜绞线 第2部分：软铜绞线

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Foreword

GB/T 12970 "Electrical soft copper stranded" is divided into four parts.

--- Part 1. General requirements;

--- Part 2. soft copper wire;

--- Part 3. Flexible copper antenna;

--- Part 4. Copper wire brush. This section GB/T 12970 Part 2. This Part replaces GB/T 12970.2-1991 "soft copper stranded Electrical Part 2. soft copper wire." This section compared with the GB/T 12970.2-1991 The main changes are as follows:

--- Added singlet elongation requirements (edition 4.5);

--- Increasing the test surface quality inspection requirements (5 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. Shenzhen, China Cable Co., Ltd., Shanghai copper metal braid copper plant Jiang Su Jiangrun Copper Co. the company. The main drafters of this section. Liu Bin, party Peng, Zhang Peng, Chenya Fu, Liu Liming. This part of the standard replaces the previous editions are.

--- GB/T 12970.2-1991. Electrical soft copper wire Part 2. soft copper wire

1 Scope

GB/T 12970.2-2009 is the Chinese national standard on flexible copper stranded conductors for electrical purposes - part 2: flexible copper stranded conductors, 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

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GB/T 12970 provisions of this part of the soft copper wire model specifications, technical requirements and testing. This section applies to electrical equipment and soft copper stranded electrical and electronic components or wiring used. This section should be used in conjunction with the GB/T 12970.1-2009.

2 Normative references

The following documents contain provisions which, through reference

GB/T 12970 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 3048.4-2007 electrical wire and cable performance test methods - Part 4. Conductor DC resistance test

GB/T 3953-2009 electrician round copper wire

GB/T 4909.2-2009 Test methods for bare wires - Part 2. Measure

GB/T 4909.3-2009 Test methods for bare wires - Part 3. Tensile Test

GB/T 4910-2009 tinned round copper wire

GB/T 12970.1-2009 Electrical soft copper wire - Part 1. General requirements

2.5 Type TJRX2 2 tinned copper wire of

2.5 to 63 TJRX3 3 type Tinned copper wire of

0.025 to 500 4. Technical Requirements

3 Models and specifications

Soft copper wire models, as shown in Table 1. Table 1 soft copper wire model specifications
Model Name Nominal cross-sectional area mm² TJR1 1 soft copper wire of

0.10 to 1000 Type TJR2 2 soft copper wire of

2.5 to 63 TJR3 3 soft copper wire of

0.025 to 500 TJRX1 1 type Tinned copper wire

0.1 to

4.1 Structure

4.1.1 TJR1 and TJRX1 soft copper wire should be structured in accordance with Table 2.

4.1.2 TJR2 and TJRX2 soft copper wire should be structured in accordance with Table 3.

4.1.3 TJR3 and TJRX3 soft copper wire should be structured in accordance with Table 4.
Table

4.1.4 specification brackets for specifications is not recommended and should be avoided.