

ICS 29.060.10

CCS K11



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

GB/T 12970.3-2009

Replacing GB 12970.3-1991

**Flexible copper stranded conductors for electrical purposes -
Part 3: Flexible copper wire for antenna**

电工软铜绞线 第3部分：软铜天线

Issued on: March 19, 2009

Implemented on: December 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Models and specifications

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 3. This Part replaces GB/T 12970.3-1991 "soft copper stranded Electrical Part 3. Soft copper wire." This section compared with the GB/T 12970.3-1991 The main changes are as follows:

--- 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 12970.3-1991. Electrical soft copper wire Part 3. Flexible copper antenna

1 Scope

GB/T 12970.3-2009 is the Chinese national standard on flexible copper stranded conductors for electrical purposes - part 3: flexible copper wire for antenna, 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 19 March 2009 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 December 2009. Classification: ICS 29.060.10, CCS K11. 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.

GB/T 12970 provisions of this part of the soft copper antenna model specifications, technical requirements and testing. This section applies to communications overhead antenna. 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 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 12970.1-2009 Electrical soft copper wire - Part 1. General requirements

3 Models and specifications

Soft copper antenna model TTR, soft copper antenna as shown in Table 1. Table 1 soft copper antenna specifications model Nominal cross-sectional area mm² TTR 1.0 ~ 25 4. Technical Requirements

4.1 Structure Soft copper antenna structure shall be in accordance with Table 2. Table 2 soft copper antenna structure Nominal cross-sectional area mm

2 Calculated cross-sectional area mm² structure The number of shares x/singlet nominal diameter mm Calculation of outer diameter mm Calculated mass kg/km
 1.0 0.958 7 x 7/0.16 1.44 9.0 1.6 1.54 7 x 7/0.20 1.80 14.1 2.5 2.41 7 x 7/0.25 2.25 22.1 4.0 3.94 7 x 7/0.32 2.88 36.1 6.3 6.16 7 x 7/0.40 3.60 56.4 10 10.01 7 x 7/0.51 4.59 91.7 16 16.26 7 x 7/0.65 5.85 149 25 24.63 7 x 7/0.80 7.20 226