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

GB/T 4074.2-2024

**Test methods of winding wires - Part 2: Determination of
dimensions**

(English Translation)

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Table of Contents

Foreword...	3
Introduction...	5
1 Scope...	6
2 Normative references...	6
3 Terms and definitions...	6
4 Test method 4.Determination of dimensions...	7
4.1 Measuring tools...	7
4.2 Test procedure...	8

Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

Directives for standardization - Part 1.Rules for the structure and drafting of
standardizing documents.

This document is part 2 of GB/T 4074 Test methods of winding wires. GB/T 4074 has
been published in the following parts.

- Part 1.General;
- Part 2.Determination of dimensions;
- Part 3.Mechanical properties;
- Part 4.Chemical properties;
- Part 5.Electrical properties;
- Part 6.Thermal properties;
- Part 7.Test procedure for the determination of the temperature index of
enamelled winding wires;
- Part 8.Test procedure for the determination of the temperature index of
enamelled winding wires - Quick-Test method;
- Part 21.Electrical endurance under high frequency voltage impulses.

This document replaces GB/T 4074.2-2008 Winding wires - Test methods - Part 2.

Determination of dimensions. Compared with GB/T 4074.2-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- The measuring force range of film tape wrapped round wire is changed (see Table 1b; see Table 1b of the 2008 edition);
- The measuring pressure range for measuring paper covered wire dimensions is changed (see Table 1c; see Table 1b of the 2008 edition);
- The measurement quantity of conductor out-of-roundness is changed (see 4.2.2; see 3.2.2 of the 2008 edition);
- An overview of the insulation thickness test is added (see 4.2.4.1);
- The test procedure for the thickness of the bonding layer of enamelled rectangular wire is added (see 4.2.7).

Test methods of winding wires - Part 2.Determination of dimensions

1 Scope

This document describes the following test methods for winding wires.

- Test method 4.Determination of dimensions.

For terms, definitions, general principles of test methods and a catalogue of winding wire test methods, see IEC 60851-1.

2 Normative references

The provisions of the following documents constitute the essential clauses of this document through normative references in this text. Among them, for referenced documents with dates, only the versions corresponding to the dates are applicable to this document; for referenced documents without dates, the latest versions (including all amendments) are applicable to this document.

GB/T 4074.5-2024 Test methods of winding wires - Part 5.Electrical properties (IEC 60851-5.2019, IDT)

NOTE: There is no technical difference between the contents cited from GB/T 4074.5-2024 and those cited from IEC 60851-5.2008.

IEC 60851-1 Winding Wires - Test Methods - Part 1.General

NOTE: GB/T 4074.1-2024 Test methods of winding wires - Part 1.General (IEC 60851-1:2021, IDT)

3 Terms and definitions

There are no terms or definitions that require definition in this document.

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