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(JCMA)

**Winding wires—Test methods—  
Part 1: General**

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In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

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## Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by the Japan Electric Wire & Cable Makers' Association (JCMA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently, **JIS C 3003**:1999 and **JIS C 3006**:1999 have been withdrawn and replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public or utility model right. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public or utility model right.

This Standard has been established for the purpose of standardization of test methods of enamelled wires and fibre or paper insulated wires, and with the aim of harmonizing **JIS** test standards with relevant **IEC** standards. In deliberations carried out on harmonization of this Standard with **IEC** standard, however, it was anticipated that some of the changes from the conventionally applied **JIS** specifications, being so significant, would cause confusion in the market. Therefore, as a transitional measure, this Standard was decided to be established mainly as an **IEC** harmonized standard, but with **IEC** test specifications partially replaced with the conventional **JIS** test specifications. Establishment of this Standard is aimed at gaining consensus in the market in harmonization with the **IEC** standards. In the next revision of this Standard, efforts for a full harmonization will be made.

**JIS C 3216** series consists of the following 6 parts under the general title "*Winding wires—Test methods*":

*Part 1: General*

*Part 2: Determination of dimensions*

*Part 3: Mechanical properties*

*Part 4: Chemical properties*

*Part 5: Electrical properties*

*Part 6: Thermal properties*

# Winding wires—Test methods— Part 1: General

## Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **IEC 60851-1** published in 1996, its Amendment 1 (2003) and Amendment 2 (2009). Some of the technical contents of the said International Standard, however, are modified in this Standard as a transitional measure until consensus of harmonization with **IEC** can be gained in the market. Amendments are edited and incorporated into this Standard.

The portions given dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

## 1 Scope

This Standard specifies the general notes on methods of test for enamelled copper wires, enamelled aluminium wires, fibre or paper insulated copper wires and fibre or paper insulated aluminium wires, that are used for winding wires. This Standard gives the definitions of terms for the purpose of all the standards in **JIS C 3216** series.

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60851-1:1996 *Winding wires—Test methods—Part 1: General*, and Amendment 1:2003 and Amendment 2:2009 (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS C 3215 *Specifications for particular types of winding wires (standard series)*

NOTE : Corresponding International Standard: IEC 60317 (all parts) *Specifications for particular types of winding wires* (IDT)

JIS C 3216-2 *Winding wires—Test methods—Part 2: Determination of dimensions*

NOTE : Corresponding International Standard: IEC 60851-2:2009 *Winding wires—Test methods—Part 2: Determination of dimensions* (MOD)

JIS C 3216-3 *Winding wires—Test methods—Part 3: Mechanical properties*

NOTE : Corresponding International Standard: IEC 60851-3:2009 *Winding wires—Test methods—Part 3: Mechanical properties* (MOD)