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**JIS C 3216-5** : 2019

(JCMA/JSA)

**Winding wires—Test methods—  
Part 5: Electrical properties**

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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 Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japanese Electric Wire & Cable Maker's Association (JCMA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS C 3216-5:2011** is replaced with this Standard.

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

**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 5: Electrical properties

## Introduction

This Japanese Industrial Standard has been prepared based on **IEC 60851-5:2011**, Edition 4.1. This Standard has also incorporated test methods unique to **JIS** so that they can be selected over **IEC** test methods until full consensus on harmonization with the said **IEC** standard has been reached among parties involved.

The parts indicated with vertical lines on side margins or dotted underlines, and Annex JA are unique contents to **JIS** not given in the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

## 1 Scope

This Standard specifies the methods of determining the mechanical properties of enamelled copper wires, enamelled aluminium wires, fibre or paper insulated copper wires and fibre or paper insulated aluminium wires that are used for manufacture of winding wires.

NOTE 1 General notes on test methods, specified in the scope in the corresponding International Standard, have been moved to Clause **2A**.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60851-5:2011 *Winding wires—Test methods—Part 5: Electrical properties* (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 2320 *Electrical insulating oils*

JIS C 3216-1 *Winding wires—Test methods—Part 1: General*

NOTE Corresponding International Standard: IEC 60851-1 *Winding wires—Test methods—Part 1: General*

### 2A General notes

For general notes on methods of test, see **JIS C 3216-1**. The requirements for electrical properties are specified in individual standards which refer to this Standard for test methods.