

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS C 3216-3 : 2011

(JCMA)

**Winding wires—Test methods—
Part 3: Mechanical properties**

ICS 29.060.10

Reference number : **JIS C 3216-3 : 2011 (E)**

Date of Establishment: 2011-03-22

Date of Public Notice in Official Gazette: 2011-03-22

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Electricity Technology

JIS C 3216-3:2011, First English edition published in 2012-06

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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Printed in Japan

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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Consequently, **JIS C 3003**:1999 and **JIS C 3006**:1999 have been withdrawn and replaced with this Standard.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 3: Mechanical properties

Introduction

This Japanese Industrial Standard has been prepared based on the third edition of **IEC 60851-3** published in 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.

The portions given continuous sidelines or 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 JB. Annex JA contains matters which are not given in the corresponding International Standard.

The requirements are given in particular standards which cite this Standard.

1 Scope

This Standard specifies the methods of test for 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 winding wires.

The general notes on methods of test are given in **JIS C 3216-1**.

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

IEC 60851-3:2009 *Winding wires—Test methods—Part 3: Mechanical 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 3216-1 *Winding wires—Test methods—Part 1: General*

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

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

NOTE : Corresponding International Standard: IEC 60851-2:1996 *Winding wires—Test methods—Part 2: Determination of dimensions*, Amendment 1:1997 and Amendment 2:2003 (MOD)

JIS C 3216-5 *Winding wires—Test methods—Part 5: Electrical properties*