



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS C 3662-3 : 2003

(IEC 60227-3 : 1993 / Amd. 1 : 1997)

(JCMA)

**Polyvinyl chloride insulated cables
of rated voltages up to and
including 450/750 V—
Part 3 : Non-sheathed cables for
fixed wiring**

ICS 29.060.20

Reference number : JIS C 3662-3 : 2003 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard 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) 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 3662-3 : 1998** is replaced with this Standard.

This revision has been made based on **IEC 60227-3 : 1993** *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—Part 3 : Non-sheathed cables for fixed wiring* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

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, utility model right or application for registration of utility model after opening to the public which have technical properties. 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, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS C 3662 consists of the following 7 parts under the general title *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*.

Part 1 : General requirements

Part 2 : Test methods

Part 3 : Non-sheathed cables for fixed wiring

Part 4 : Sheathed cables for fixed wiring

Part 5 : Flexible cables (cords)

Part 6 : Lift cables and cables for flexible connections

Part 7 : Flexible cables screened and unscreened with two or more conductors

Date of Establishment: 1998-03-20

Date of Revision: 2003-10-20

Date of Public Notice in Official Gazette: 2003-10-20

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Electricity Technology

JIS C 3662-3 : 2003, First English edition published in 2004-09

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

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

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Printed in Japan

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Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V— Part 3 : Non-sheathed cables for fixed wiring

Introduction This Japanese Industrial Standard has been prepared based on the second edition of IEC 60227-3 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—Part 3 : Non-sheathed cables for fixed wiring* published in 1993 and Amendment 1 (1997) without modifying their technical contents. However, the amendment is edited and unified.

Portions underlined with dots are the matters not stated in the original International Standard.

1 General

1.1 Scope This Standard details the particular specifications for polyvinyl chloride insulated single-core non-sheathed cables for fixed wiring of rated voltages up to and including 450/750 V. All cables shall comply with the appropriate requirements given in JIS C 3662-1 and the individual types of cables shall each comply with the particular requirements of this Standard.

NOTE : The International Standard corresponding to this Standard is as follows.

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.

IEC 60227-3 : 1993 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—Part 3 : Non-sheathed cables for fixed wiring and Amendment 1 (1997) (IDT)*

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

JIS C 3660-1-1 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 1-1 : Methods for general application—Measurement of thickness and overall dimensions—Tests for determining the mechanical properties*

NOTE : IEC 60811-1-1 : 1993 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 1-1 : Methods for general application—Measuring of thickness and overall dimensions—Tests for determining the mechanical properties* and Amendment 1 (2001) are identical with the said standard.

JIS C 36601-2 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 1-2 : Methods for general application—Thermal ageing methods*

NOTE : **IEC 60811-1-2** : 1985 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 1-2 : Methods for general application—Thermal ageing methods*, Amendment 1 (1989) and Amendment 2 (2000) are identical with the said standard.

JIS C 3660-1-4 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 1-4 : Methods for general application—Test at low temperature*

NOTE : **IEC 60811-1-4** : 1985 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 1-4 : Methods for general application—Test at low temperature*, Amendment 1 (1993) and Amendment 2 (2001) are identical with the said standard.

JIS C 3660-3-1 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 3-1 : Methods specific to PVC compounds—Pressure test at high temperature—Test for resistance to cracking*

NOTE : **IEC 60811-3-1** : 1985 *Common test methods for insulating and sheathing materials of electric and optical cables—Part 3-1 : Methods specific to PVC compounds—Pressure test at high temperature—Test for resistance to cracking*, Amendment 1 (1994) and Amendment 2 (2001) are identical with the said standard.

JIS C 3660-3-2 *Common test methods for insulating and sheathing materials of electric cables—Part 3 : Methods specific to PVC compounds—Section 2 : Loss of mass test—Thermal stability test*

NOTE : **IEC 60811-3-2** : 1985 *Common test methods for insulating and sheathing materials of electric cables—Part 3 : Methods specific to PVC compounds—Section 2 : Loss of mass test—Thermal stability test* is identical with the said standard.

JIS C 3662-1 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—Part 1 : General requirements*

NOTE : **IEC 60227-1** : 1993 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—Part 1 : General requirements*, Amendment 1 (1955) and Amendment 2 (1998) are equivalent to the said standard.

JIS C 3662-2 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—Part 2 : Test methods*

NOTE : **IEC 60227-2** : 1997 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—Part 2 : Test methods* is equivalent to the said standard.

JIS C 3664 *Conductors of insulated cables*

NOTE : **IEC 60228** : 1978 *Conductors of insulated cables* and Amendment 1 (1993) are identical with the said standard.