



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

㉟ JIS C 3340 : 2000
(JCMA)

Outdoor weatherproof polyvinyl chloride insulated wires

ICS 29.060.20

Descriptors : polyvinyl chloride, overhead line conductors, sheathed conductors, sheathed cables, single-core cables

Reference number : JIS C 3340 : 2000 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International 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 and Cable Maker's Association (JCMA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Consequently **JIS C 3340:1993** is replaced with this Standard.

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Date of Establishment: 1963-03-01

Date of Revision: 2000-12-20

Date of Public Notice in Official Gazette: 2000-12-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Electricity

JIS C 3340 :2000, First English edition published in 2002-11

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

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Printed in Japan

Outdoor weatherproof polyvinyl chloride insulated wires

1 Scope This Japanese Industrial Standard specifies single core insulated wires (hereafter referred to as "wires") which are mainly used for aerial transmission lines and are insulated with compound based on polyvinyl chloride (hereafter referred to as "PVC").

2 Normative references The following standards contain provision 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 3002 *Testing methods of electrical copper and aluminium wires*

JIS C 3005 *Test methods for rubber or plastic insulated wires and cables*

JIS C 3101 *Hard-drawn copper wires for electrical purposes*

JIS C 3105 *Hard-drawn copper stranded conductors*

3 Symbol The symbol for wires shall be OW.

4 Characteristics The characteristics of the wires shall be as given in Table 1 when the tests are carried out in accordance with 6.

Table 1 Characteristics

Item		Characteristics	Applicable subclause for test method
Conductor tensile load		Not less than the values in Attached Tables 1 and 2	6.3
Conductor resistance		Not more than the values in Attached Tables 1 and 2	6.4
Dielectric withstand voltage	In water	To withstand the test voltage in Attached Tables 1 and 2 for 1 min	6.5 a)
	Spark	To withstand the test voltage in Attached Tables 1 and 2 for 0.15 s or more	6.5 b)
Tensile properties of insulation	Tensile strength	Not less than 10 MPa	6.6
	Elongation	Not less than 100 %	
Thermal aging	Tensile strength	Not less than 85 % of the value before heating	6.7
	Elongation	Not less than 80 % of the value before heating	
Heat shock		No cracks, flaws shall take place on the surface	6.8
Cold bend			6.9
Heat deformation		Percentage of decrease in thickness shall be not more than 30 %	6.10