



JAPANESE
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STANDARD

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JIS C 1610 : 2024

(JSA)

**Extension and compensating cables for
thermocouples**

(Amendment 1)

JIS C 1610: 2012 was revised under date of 20 February 2024.
This Amendment includes the revised items and is to be used
in conjunction with **JIS C 1610: 2012**.

ICS 17.200.20

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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 in accordance with the Industrial Standardization Act. This Amendment partially replaces the previous edition (**JIS C 1610 : 2012**), which has been technically revised.

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In the event of any doubts arising as to the contents,
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Extension and compensating cables for thermocouples (Amendment 1)

JIS C 1610 : 2012 is revised as follows.

Introduction

Replace “the second edition of IEC 60584-3 published in 2007” with “the third edition of IEC 60584-3 published in 2021”.

Clause 1, NOTE

Replace “IEC 60584-3 : 2007” with “IEC 60584-3 : 2021”.

3.8

Replace with the following.

3.8 tolerance

the maximum permissible limit caused by the introduction of the extension and compensating cable into the measuring circuit

The reference thermoelectromotive forces of thermocouples used in combination are as given in Annex A of JIS C 1602.

Clause 4

Replace whole with the following.

4 Classification and symbols

The classification and the symbols shall be as given in table 1 according to the constituting materials of conductors. The symbol of classification of the extension and compensating cable is denoted by the type of thermocouple to be used in combination and the material of conductors. The symbol that denotes the extension type conductors composed of the same material as that of thermocouples to be used in combination is taken as “X”, and the symbol that denotes the compensation type conductors composed of the material different from that of thermocouples to be used in combination is taken as “C”.

The symbol of the compensation type conductors, when it is classified by the tolerance or the compensating junction temperature, is denoted by attaching “A” or “B”.

NOTE : See Annex JA for the transition of symbols for types and colour coding for outer sheath of the extension and compensating cables.