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**600 V Polyethylene insulated cables**

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## Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by Japanese Standards Association (JSA), an accredited standards development organization. This edition replaces the previous edition (**JIS C 3605** : 2002), which has been technically revised.

However, **JIS C 3605** : 2002 may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 19 May 2023.

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## 600 V Polyethylene insulated cables

### 1 Scope

This Japanese Industrial Standard specifies requirements for polyethylene insulated cables (hereafter referred to as cables), to be used in circuits of a nominal voltage of 600 V or under, which are insulated with polyethylene or cross-linked polyethylene, and are sheathed with a compound mainly composed of polyvinyl chloride resins (hereafter referred to as vinyl), polyethylene, or a flame retardant compound mainly composed of polyethylene resins (hereafter referred to as flame retardant polyethylene).

### 2 Normative references

Part or all of the provisions of the following standards, 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 3005 *Test methods for rubber or plastic insulated wires and cables*

JIS C 3102 *Annealed copper wires for electrical purposes*

JIS C 3612 *600V Flame retardant polyethylene insulated wires*

JIS C 3666-2 *Test on gases evolved during combustion of materials from cables — Part 2 : Determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH and conductivity*

### 3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

#### 3.1

##### **duplex type**

structure in which two single-core cables are twisted together

#### 3.2

##### **triplex type**

structure in which three single-core cables are twisted together

#### 3.3

##### **quadruplex type**

structure in which four single-core cables are twisted together

#### 3.4

##### **concentric lay**