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Water-cooled secondary cables for portable spot welding machines

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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 in accordance with the Industrial Standardization Law. Consequently, **JIS C 9318 : 1990** is replaced with **JIS C 9318 : 1999**.

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Water-cooled secondary cables for portable spot welding machines

Introduction This Japanese Industrial Standard has been prepared based on **ISO 8205-1** *Water-cooled secondary connection cables for resistance welding—Part 1 : Dimensions and requirements for double-conductor connection cables*, **ISO 8205-2** *Water-cooled secondary connection cables for resistance welding—Part 2 : Dimensions and requirements for single-conductor connection cables* and **ISO 8205-3** *Water-cooled secondary connection cables for resistance welding—Part 3 : Test requirements* established in 1993 as the first editions, but specification items and contents not stated in the corresponding International Standards are additionally included as Japanese Industrial Standard.

Some requirements for endurance test are modified.

The portions in this Standard underlined with dots mean the matters not stated in the corresponding International Standards.

1 Scope This Standard specifies the water-cooled secondary connection cables for double-conductor connection system and for single-conductor connection system to be used mainly for connection of a portable transformer and a portable gun (hereafter referred to as “cables”).

Note : The International Standards corresponding to this Standard are given below.

ISO 8205-1 : 1993 *Water-cooled secondary connection cables for resistance welding—Part 1 : Dimensions and requirements for double-conductor connection cables*

ISO 8205-2 : 1993 *Water-cooled secondary connection cables for resistance welding—Part 2 : Dimensions and requirements for single-conductor connection cables*

ISO 8205-3 : 1993 *Water-cooled secondary connection cables for resistance welding—Part 3 : Test requirements*

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 9305 *General rule for resistance welding machines*

JIS C 9317 *Welding transformers for portable spot welding machines*

3 Definitions For the purposes of this Standard, the following principal definitions apply:

- a) **double-conductor connection cable** A flexible water-cooled cable for electrical connection of secondary terminals of a welding transformer and a welding gun, in which conductors for two paths insulated each other are integrated so as to have as low reactance as possible.
- b) **single-conductor connection cable** A set of two flexible water-cooled cables for electrical connection of secondary terminals of a welding transformer and a welding gun.