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NSAI
Standards

Irish Standard
I.S. EN ISO 8205:2021

Resistance welding equipment - Water-cooled secondary connection cables(ISO 8205:2021)

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I.S. EN ISO 8205:2021 is the adopted Irish version of the European Document EN ISO 8205:2021, Resistance welding equipment - Water-cooled secondary connection cables(ISO 8205:2021)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 8205

April 2021

ICS 25.160.30

Supersedes EN ISO 8205-1:2002, EN ISO 8205-2:2002, EN ISO 8205-3:2012

English Version

Resistance welding equipment - Water-cooled secondary connection cables(ISO 8205:2021)

Matériel de soudage par résistance - Câbles secondaires refroidis par eau (ISO 8205:2021)

Widerstandsschweißeinrichtungen - Wassergekühlte Sekundäranschlusskabel (ISO 8205:2021)

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Ref. No. EN ISO 8205:2021 E

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European foreword

This document (EN ISO 8205:2021) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 “Welding and allied processes” the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2021, and conflicting national standards shall be withdrawn at the latest by October 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 8205-1:2002, EN ISO 8205-2:2002 and EN ISO 8205-3:2012.

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INTERNATIONAL STANDARD

ISO 8205

First edition
2021-03

Resistance welding equipment — Water-cooled secondary connection cables

Matériel de soudage par résistance — Câbles secondaires refroidis par eau

Reference number
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 6, *Resistance welding and allied mechanical joining,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 121, *Welding and allied processes,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition cancels and replaces ISO 8205-1:2002, ISO 8205-2:2002 and ISO 8205-3:2012.

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Resistance welding equipment — Water-cooled secondary connection cables

1 Scope

This document gives specifications for single- and double-conductor secondary connection cables used for resistance welding and allied processes. These specifications include requirements for electrical, mechanical and cooling characteristics of the cables and their test procedures.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
double-conductor connection cable
cable comprising two conductors providing an electrical link between the secondary terminals of a welding transformer and the welding set (manual or robotized guns) and designed so as to have as low an electrical reactance as possible

3.2
single-conductor connection cable
cable comprising one conductor providing an electrical link between the secondary terminals of a welding transformer and the welding set (manual or robotized guns)

4 Classification

4.1 Form of the end lugs

Double-conductor water-cooled connection cables are classified into two types, A-1 and A-2, in accordance with the form of the end lugs (see 5.1.3).

Single-conductor water-cooled connection cables are classified into three types, C-1, C-2 and D, in accordance with the form of the end lugs (see 5.2.3).

4.2 Resistance and reactance

Double-conductor, water cooled connection cables are classified into two types, A-1 and A-2, with power factor $\cos\varphi \geq 0{,}95$ as shown in Figure 1.

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