
**Water-cooled secondary connection cables
for resistance welding —**

**Part 1:
Dimensions and requirements for double-
conductor connection cables**

Câbles secondaires refroidis par eau pour le soudage par résistance —

Partie 1: Dimensions et exigences pour câbles à deux conducteurs



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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 8205 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 8205-1 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 6, *Resistance welding*.

This second edition cancels and replaces the first edition (ISO 8205-1:1993), which has been technically revised.

ISO 8205 consists of the following parts, under the general title *Water-cooled secondary connection cables for resistance welding*:

- Part 1: Dimensions and requirements for double-conductor connection cables
- Part 2: Dimensions and requirements for single-conductor connection cables
- Part 3: Test requirements

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Water-cooled secondary connection cables for resistance welding —

Part 1:

Dimensions and requirements for double-conductor connection cables

1 Scope

This part of ISO 8205 specifies the dimensions of double-conductor connection cables used for resistance welding and allied processes. It stipulates the requirements regarding the electrical, mechanical and cooling characteristics of these cables and their conditions of use.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of ISO 8205. For dated references, subsequent amendments to, or revisions of, this publication do not apply. However, parties to agreements based on this part of ISO 8205 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

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

3 Term and definition

For the purposes of this part of ISO 8205, the following term and definition applies.

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

4 Classification

Double-conductor, water cooled connection cables are classified into two types, A and B, as shown in Table 1 according to the power factors $\cos \phi$ which gives the relationship between resistance and reactance.

Table 1 — Double-conductor connection cables

Type of double-conductor connection cable	Power factor $\cos \phi$
A	$\geq 0,95$
B	$< 0,95$