
**Plastics pipes and fittings — Automatic
recognition systems for electrofusion
joints**

*Tubes et raccords en matières plastiques — Procédés de
reconnaissance automatique d'un assemblage par électrosoudage*



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Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	1
4 Description of procedures	3
4.1 Numerical recognition	3
4.2 Electromechanical recognition	5
4.3 Self-regulation.....	6
Annex A (normative) Structure of bar code.....	7
Annex B (normative) Structure of 32-digit bar code.....	23
Annex C (normative) Magnetic cards	36
Annex D (informative) Implanted-resistor connector	52
Annex E (normative) Self-regulation	55

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13950 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 4, *Plastics pipes and fittings for the supply of gaseous fuels*.

This first edition of ISO 13950 cancels and replaces ISO/TR 13950:1997, of which it constitutes a technical revision.

Plastics pipes and fittings — Automatic recognition systems for electrofusion joints

1 Scope

This International Standard specifies the characteristics of automatic recognition systems (numerical recognition by means of bar codes or magnetic cards, electromechanical recognition using implanted-resistor connectors and self-regulation systems) that enable the energy supply to be delivered automatically to the thermoplastic electrofusion fittings used in pipe jointing.

It is applicable to electrofusion fittings intended to be used for plastics piping systems for the conveyance of gaseous fuels, water for human consumption (including raw water prior to treatment) and for general purposes, or of other fluids.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 7810:2003, *Identification cards — Physical characteristics*

ISO/IEC 7811-2:2001, *Identification cards — Recording technique — Part 2: Magnetic stripe — Low coercivity*

ISO/IEC 7811-6:2001, *Identification cards — Recording technique — Part 6: Magnetic stripe — High coercivity*

3 Terms and definitions

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

3.1

fitting

accessory for the connection by fusion of thermoplastic pipes and/or other accessories

3.2

socket

female part of a fitting in which the fusion is performed

3.3

coupler

fitting constituted by two sockets

3.4

monofilar coupler

fitting constituted of two sockets for which fusion is performed in a single operation

3.5

bifilar coupler

fitting constituted of two sockets for which fusion is performed separately