

INTERNATIONAL
STANDARD

ISO
8092-1

Second edition
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**Road vehicles — Connections for on-board
electrical wiring harnesses —**

Part 1:

Tabs for single-pole connections —
Dimensions and specific requirements

*Véhicules routiers — Connexions pour faisceaux de câblage électrique
embarqués —*

*Partie 1: Languettes pour raccordements unipolaires — Dimensions et
exigences particulières*



Reference number
ISO 8092-1:1996(E)

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.

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.

International Standard ISO 8092-1 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This second edition cancels and replaces the first edition (ISO 8092-1:1989), of which it constitutes a technical revision.

ISO 8092 consists of the following parts, under the general title *Road vehicles — Connections for on-board electrical wiring harnesses*:

- *Part 1: Tabs for single-pole connections — Dimensions and specific requirements*
- *Part 2: Definitions, test methods and general performance requirements*
- *Part 3: Tabs for multi-pole connections — Dimensions and specific requirements*
- *Part 4: Pins for single- and multi-pole connections — Dimensions and specific requirements*

Annex A of this part of ISO 8092 is for information only.

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Road vehicles — Connections for on-board electrical wiring harnesses —

Part 1:

Tabs for single-pole connections — Dimensions and specific requirements

1 Scope

This part of ISO 8092 specifies dimensions for the tabs of single-pole connections and specific requirements, for on-board electrical wiring harnesses of road vehicles, which can be fitted into female contacts such as those given in annex A. It applies to connectors designed to be disconnected after mounting in the vehicle for the purposes of repair and/or maintenance only.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 8092. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8092 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 8092-2:1996, *Road vehicles — Connections for on-board electrical wiring harnesses — Part 2: Definitions, test methods and general performance requirements.*

3 Definitions

For the purposes of this part of ISO 8092, the definitions given in ISO 8092-2 apply.

4 Dimensions

Tabs for single-pole connections shall conform to the dimensions given in table 1 and figure 1.

Details not specified are left to the manufacturer's choice.

5 Specific performance requirements

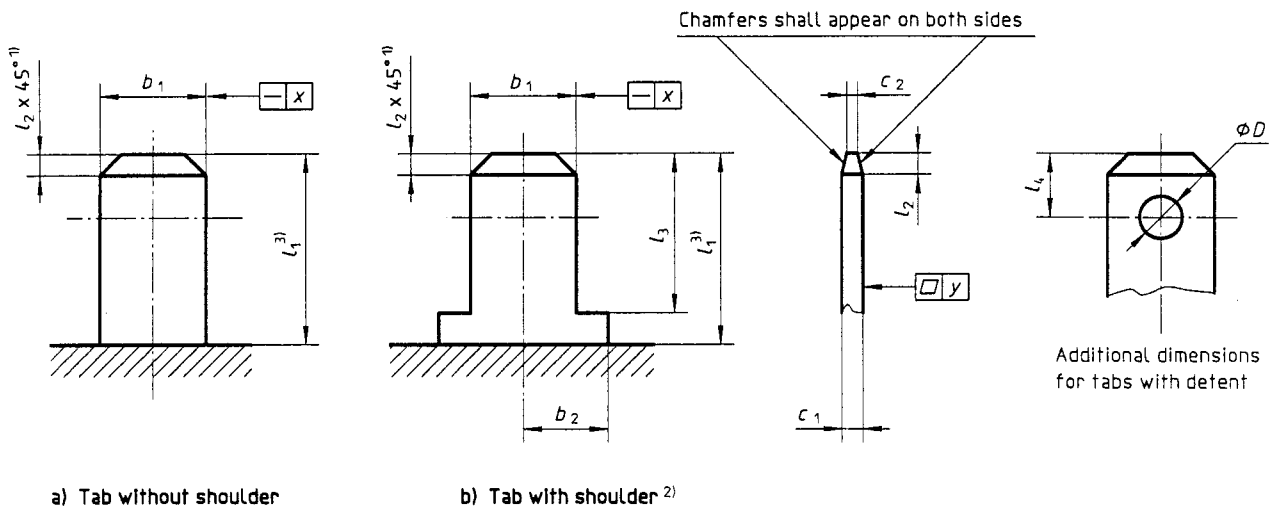
Single-pole connections shall be in conformity with the general performance requirements of ISO 8092-2, and shall meet the following specific requirements.

5.1 Design requirements

A tab without detent requires external means of retention to the mating part. If tabs are stamped or stamped and formed, the usable contact area shall be specified and care shall be taken to assure that gaps, seams and rounded edges do not affect the contact performance.

5.2 Connection forces and disconnection forces

Connectors for single-pole connections, tested in accordance with ISO 8092-2:1995, subclause 4.3 shall meet the requirements in table 2.



- 1) Bevel $l_2 \times 45^\circ$ need not be a straight line but shall not be a concave curve if it is within the confines shown; it may be a radius of l_2 .
- 2) Tabs with one shoulder are optional.
- 3) l_1 is the tab length required for engaging the female contact (functional area of tab). Retention features of the tab shall not be within this length (see 5.1).

Figure 1 — Tab dimensions