



IEC 60884-2-1

Edition 3.0 2025-02

# INTERNATIONAL STANDARD

---

**Plugs and socket-outlets for household and similar purposes –  
Part 2-1: Particular requirements for fused plugs**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

---

ICS 29.120.30

ISBN 978-2-8327-0198-0

**Warning! Make sure that you obtained this publication from an authorized distributor.**

## CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 General requirements .....	6
5 General remarks on tests .....	6
6 Ratings.....	6
7 Classification.....	6
8 Marking .....	6
9 Checking of dimensions.....	7
10 Protection against electric shock .....	7
11 Provision for earthing .....	7
12 Terminals and terminations.....	7
13 Construction of fixed socket-outlets .....	7
14 Construction of plugs and portable socket-outlets .....	7
15 Interlocked socket-outlets.....	8
16 Resistance to ageing, protection provided by enclosures and resistance to humidity.....	8
17 Insulation resistance and electric strength .....	8
18 Operation of earthing contacts.....	8
19 Temperature rise .....	8
20 Breaking capacity .....	8
21 Normal operation .....	9
22 Force necessary to withdraw the plug.....	9
23 Flexible cables and their connection .....	9
24 Mechanical strength .....	9
25 Resistance to heat.....	9
26 Screws, current-carrying parts and connections.....	9
27 Creepage distances, clearances and distances through sealing compound.....	9
28 Resistance of insulating material to abnormal heat, to fire and to tracking .....	9
29 Resistance to rusting .....	9
30 Additional tests on pins provided with insulating sleeves .....	9
31 EMC requirements.....	9
32 Electromagnetic fields (EMF) requirements.....	9
Annexes .....	10

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD  
AND SIMILAR PURPOSES –****Part 2-1: Particular requirements for fused plugs**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch>. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 60884-2-1 has been prepared by subcommittee 23B: Plugs, socket-outlets and switches, of IEC technical committee 23: Electrical accessories. It is an International Standard.

This third edition cancels and replaces the second edition published in 2006. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alignment to IEC 60884-1, fourth edition.

The text of this International Standard is based on the following documents:

Draft	Report on voting
23B/1545/FDIS	23B/1558/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

This document is to be used in conjunction with IEC 60884-1:2022.

This document supplements or modifies the corresponding clauses in IEC 60884-1:2022, so as to convert that publication into the IEC standard: Particular requirements for fused plugs.

When a particular subclause of IEC 60884-1:2022 is mentioned in this document, that subclause applies as far as reasonable. Where this document states "addition", "modification" or "replacement", the relevant text of IEC 60884-1:2022 is to be adapted accordingly.

In this document the following print types are used:

- requirements proper: in roman type;
- *test specification: in italic type;*
- explanatory notes: in small roman type.

Subclauses, notes, figures and tables which are additional to those in IEC 60884-1:2022 are numbered starting from 101.

A list of all parts in the IEC 60884 series, published under the general title: *Plugs and socket-outlets for household and similar purposes*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## **PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES –**

### **Part 2-1: Particular requirements for fused plugs**

#### **1 Scope**

IEC 60884-1:2022, Clause 1 is applicable except as follows.

*Addition:*

This part of IEC 60884 applies to fused plugs, where the fuses are primarily intended to protect the flexible cable connected to the plug.

These fuses are not intended to protect appliances or parts of them against overload.

NOTE In the following countries, fused plugs are not used: AU, DK, ZA.

#### **2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60884-1:2022, Clause 2 is applicable except as follows.

*Addition:*

IEC 60269-1:2009, *Low-voltage fuses – Part 1: General requirements*

IEC 60269-3:2024, *Low-voltage fuses – Part 3: Supplementary requirements for fuses for operation by unskilled persons (fuses mainly for household and similar applications) – Examples of standardized systems of fuses A to F*

IEC 60884-1:2022, *Plugs and socket-outlets for household and similar purposes – Part 1: General requirements*