IEC 60884-2-2

Edition 3.0 2025-02
REDLINE VERSION

INTERNATIONAL STANDARD

Plugs and socket-outlets for household and similar purposes –
Part 2-2: Particular requirements for socket-outlets for appliances

IEC 60884-2-2:2025-02 RLV(en)

IEC Secretariat
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

About the IEC
The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications
The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

IEC publications search - webstore.iec.ch/advsearchform
The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee, …). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished
Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

IEC Customer Service Centre - webstore.iec.ch/csc
If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: sales@iec.ch.

IEC Products & Services Portal - products.iec.ch
Discover our powerful search engine and read freely all the publications previews, graphical symbols and the glossary. With a subscription you will always have access to up to date content tailored to your needs.

Electropedia - www.electropedia.org
The world's leading online dictionary on electrotechnology, containing more than 22 500 terminological entries in English and French, with equivalent terms in 25 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC 60884-2-2

Edition 3.0 2025-02
REDLINE VERSION

INTERNATIONAL STANDARD

Plugs and socket-outlets for household and similar purposes – Part 2-2: Particular requirements for socket-outlets for appliances

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 29.120.30

ISBN 978-2-8327-0261-1

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

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

____

PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES –

Part 2-2: Particular requirements for socket-outlets for appliances

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.

This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 60884-2-2:2006. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

IEC 60884-2-2 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/1544/FDIS	23B/1559/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. The main document types developed by IEC are described in greater detail at 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 socket-outlets for appliances.

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 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 2-2: Particular requirements for socket-outlets for appliances

1 Scope

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

Replacement of the first paragraph:

This part of IEC 60884 applies to socket-outlets for AC only, with or without earthing contact, with a rated voltage not exceeding 250 V and a rated current not exceeding 16 A, which are integrated or intended to be incorporated in or fixed to appliances, hereafter referred to as socket-outlets for appliances.

Addition after the ~~fourth~~ fifth paragraph (i.e., after the first dashed list):

~~Socket-outlets for appliances are provided with means for fixing into appropriate mounting boxes, if intended also for use in fixed installations.~~

Socket-outlets for appliances are intended to be used in stationary equipment and appliances, for example, in office machines, ~~computers, audio-visual and video~~ ICT equipment, range (cooker) hoods, ranges, etc.

If necessary, the use of socket-outlets for appliances is indicated in the standards for the appropriate equipment or appliance.

~~The temperature around socket-outlets for appliances must not exceed 35 °C.~~

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 60068-2-75, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*~~

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

IEC 61210, *Connecting devices – Flat quick-connect terminations for electrical copper conductors – Safety requirements*

3 Terms and definitions

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

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

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

IEC 60884-1:2022, Clause 3 is applicable except as follows.

~~**3.6 *Replacement:***~~

~~**socket-outlet for appliances**~~
~~socket-outlet integral with, or intended to be incorporated in, or fixed to, an electrical appliance~~

Addition:

3.101
socket-outlet for appliances
socket-outlet intended to be integrated or incorporated in, or fixed to appliances

3.~~101~~102
flat quick-connect termination
electrical connection consisting of a male tab and female connector which can be readily inserted and withdrawn without the use of a tool

Note 1 to entry: Other terms, such as "snap-on connector", "flat push-on connector" are sometimes used.

3.~~102~~103
female connector
portion of a flat quick-connect termination which is pushed on to the male tab

3.~~103~~104
male tab
portion of a flat quick-connect termination which receives the female connector

4 General requirements

IEC 60884-1:2022, Clause 4 is applicable except as follows:

Addition:

Requirements for portable socket-outlets are not applicable.

5 General ~~notes~~ remarks on tests

IEC 60884-1:2022, Clause 5 is applicable except as follows.

Addition:

5.101 Connections for socket-outlets for appliances

If socket-outlets for appliances are provided with male tabs of flat quick-connect terminations, new female connectors shall be used for each test according to Clause 19, Clause 20 and Clause 21.

These female connectors shall be made from unplated copper alloy.

6 Ratings

IEC 60884-1:2022, Clause 6 is applicable except as follows.

~~6.1~~ *Addition:*

For socket-outlets for appliances, Table ~~1~~2 applies up to and including a rated current of 16 A and up to and including a rated voltage of 250 V.

7 Classification

IEC 60884-1:2022, Clause 7 is applicable.

8 Marking

IEC 60884-1:2022, Clause 8 is applicable.

9 Checking of dimensions

IEC 60884-1:2022, Clause 9 is applicable.

10 Protection against electric shock

IEC 60884-1:2022, Clause 10 is applicable.

11 Provision for earthing

IEC 60884-1:2022, Clause 11 is applicable.

12 Terminals and terminations

IEC 60884-1:2022, Clause 12 is applicable except as follows.

12.1 General

~~**12.1.1** *Addition after the first paragraph:*~~

Replacement of the second paragraph with:

Socket-outlets for appliances shall be provided with screw-type terminals, screwless terminals or male tabs of flat quick-connect terminations.

12.2 Terminals with screw clamping for external copper conductors

~~*Notes a and b of Table 3 are not applicable.*~~

Deletion of footnotes a and b of Table 4.

Addition:

12.101 Flat quick-connect terminations

12.101.1 General

Male tabs and female connectors to be used for test purposes shall comply with IEC 61210.

12.101.~~1~~2 Constructional requirements

12.101.~~1~~2.1 Male tabs shall be of nominal sizes:

2,8 mm × 0,8 mm or

4,8 mm × 0,8 mm or

6,3 mm × 0,8 mm,

as detailed in IEC 61210.

Compliance is checked by measuring three specimens, all of which shall comply with the dimensional requirements of IEC 61210.

Round dimple indents, rectangular dimple indents, hole indents or provisions for non-reversible flat quick-connect terminations, if any, shall also comply with IEC 61210.

12.101.~~1~~2.2 Male tabs shall be made from copper or copper alloy (bare or tin plated). Materials or coatings other than those specified may be used, provided that their electrical and mechanical characteristics are no less reliable, particularly with regard to resistance to corrosion, stability of contact resistance and mechanical strength.

12.101.~~1~~2.3 Male tabs shall have adequate strength to allow the application and removal of female connectors without damage to the socket-outlet so as to impair compliance with this document.

Compliance is checked by applying, without jerks, axial forces equal to those shown in Table 101.

No displacement or damage shall occur which might impair further use.

Table 101 – Forces to be applied to tabs

Male tab size (nominal) mm	Push* N	Pull* N
2,8 × 0,8	50	40
4,8 × 0,8	60	50
6,3 × 0,8	80	70
* These values are the maximum allowed for the insertion and withdrawal of a female connector onto and from a male tab.		