



IEC 60884-2-6

Edition 2.0 2025-02  
REDLINE VERSION

# INTERNATIONAL STANDARD

---

**Plugs and socket-outlets for household and similar purposes –  
Part 2-6: Particular requirements for switched socket-outlets with interlock for  
fixed electrical installations**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

---

ICS 29.120.30

ISBN 978-2-8327-0265-9

**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 .....	6
4 General requirements .....	6
5 General <del>notes</del> remarks tests .....	7
6 Ratings .....	7
7 Classification .....	7
8 Marking .....	8
9 Checking of dimensions .....	9
10 Protection against electric shock .....	9
11 Provision for earthing .....	9
12 Terminals and terminations .....	10
13 Construction of fixed socket-outlets .....	10
14 Construction of plugs and portable socket-outlets .....	11
15 Interlocked socket-outlets .....	11
16 Resistance to ageing, <del>to harmful ingress of water</del> protection provided by enclosures, and resistance to humidity .....	13
17 Insulation resistance and electric strength .....	14
18 Operation of earthing contacts .....	14
19 Temperature rise .....	14
20 Breaking capacity .....	14
21 Normal operation .....	14
22 Force necessary to withdraw the plug .....	15
23 Flexible cables and their connection .....	15
24 Mechanical strength .....	15
25 Resistance to heat .....	15
26 Screws, current-carrying parts and connections .....	15
27 Creepage distances, clearances and distances through sealing compound .....	16
28 Resistance of insulating material to abnormal heat, to fire and to tracking .....	16
29 Resistance to rusting .....	16
30 Additional tests on pins provided with insulating sleeves .....	16
31 EMC requirements .....	16
32 Electromagnetic fields (EMF) requirements .....	16
Annexes .....	17
Annex A (normative) Safety-related routine tests for factory-wired portable accessories (protection against electric shock and correct polarity) .....	17
Annex B (informative) Alternative gripping tests .....	17
Annex C (normative) Switches incorporated in portable socket-outlets .....	17
Annex I (normative) Additional requirements and tests for plugs and socket-outlets for high-load (HL) application .....	17
Figure 101 – Circuit for the tests of 15.101 .....	12

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD  
AND SIMILAR PURPOSES –****Part 2-6: Particular requirements for switched socket-outlets  
with interlock for fixed electrical installations**

## 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 60884-2-6:1997. 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 60884-2-6 has been prepared by subcommittee 23B: Plugs, socket-outlets and switches, of IEC technical committee 23: Electrical accessories. It is an International Standard.

This second edition cancels and replaces the first edition published in 1997. 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/1547/FDIS	23B/1561/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 switched socket-outlets without interlock for fixed installations.

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 specifications: in italic type;*
- Explanatory matter: in smaller roman type.

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

A list of all the parts in the IEC 60884 series, 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 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations

#### 1 Scope

Replace IEC 60884-1:2022, Clause 1 with the following:

This part of IEC 60884 applies to switched socket-outlets with interlock for AC only, for fixed electrical installations, with or without earthing contact, with rated voltage above 50 V but not exceeding 440 V and a rated current not exceeding 32 A, intended for household and similar purposes, either indoors or outdoors.

Switched socket-outlets with interlock according to this document consist of a combination of socket-outlets according to IEC 60884-1, interlocked with a switch according to IEC 60669-1 and/or IEC 60669-2-1 supplied as a complete ~~unit~~ accessory.

The rated current is limited to 16 A maximum for fixed accessories provided with screwless terminals.

This document does not cover requirements for flush mounting boxes.

However, it covers those requirements for surface-type mounting boxes which are necessary for the tests on socket-outlets.

NOTE 1 General requirements for mounting boxes are covered by IEC 60670.

NOTE 2 Interlocked socket-outlets incorporating devices according to IEC 60898, IEC 61008 and IEC 61009 are not covered by this document. This document ~~may~~ can be used as a guide for the requirements and tests of these accessories where relevant.

This document does not apply to

- interlocked socket-outlets for industrial purposes;
- interlocked socket-outlets for EV;
- interlocked socket-outlets for SELV.

~~Accessories complying with this standard are suitable for use at an ambient temperature not normally exceeding 25 °C, but occasionally reaching 35 °C.~~

Plugs and socket-outlets complying with this document are suitable for use at ambient temperatures not normally exceeding +40 °C, but their average temperature over a period of 24 h does not exceed +35 °C, with a lower limit of the ambient air temperature of –5 °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:

*Add to the list of normative references:*

IEC 60669-1:~~1993~~2017, *Switches for household and similar fixed-electrical installations – Part 1: General requirements*

IEC 60669-2-1:~~1996~~2021, *Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic~~-switches~~ control devices*

IEC 60884-1:~~1994~~2022, *Plugs and socket-outlets for household and similar purposes – Part 1: General requirements*

# INTERNATIONAL STANDARD

---

**Plugs and socket-outlets for household and similar purposes –  
Part 2-6: Particular requirements for switched socket-outlets with interlock for  
fixed electrical installations**



## CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references .....	5
3 Terms and definitions .....	6
4 General requirements .....	6
5 General remarks on tests .....	7
6 Ratings.....	7
7 Classification.....	7
8 Marking .....	8
9 Checking of dimensions.....	9
10 Protection against electric shock .....	9
11 Provision for earthing .....	9
12 Terminals and terminations.....	9
13 Construction of fixed socket-outlets .....	10
14 Construction of plugs and portable socket-outlets .....	11
15 Interlocked socket-outlets.....	11
16 Resistance to ageing, protection provided by enclosures, and resistance to humidity.....	13
17 Insulation resistance and electric strength .....	14
18 Operation of earthing contacts.....	14
19 Temperature rise .....	14
20 Breaking capacity .....	14
21 Normal operation .....	14
22 Force necessary to withdraw the plug.....	15
23 Flexible cables and their connection.....	15
24 Mechanical strength .....	15
25 Resistance to heat.....	15
26 Screws, current-carrying parts and connections.....	15
27 Creepage distances, clearances and distances through sealing compound.....	16
28 Resistance of insulating material to abnormal heat, to fire and to tracking .....	16
29 Resistance to rusting .....	16
30 Additional tests on pins provided with insulating sleeves .....	16
31 EMC requirements.....	16
32 Electromagnetic fields (EMF) requirements.....	16
Annexes .....	17
Annex A (normative) Safety-related routine tests for factory-wired portable accessories (protection against electric shock and correct polarity) .....	17
Annex B (informative) Alternative gripping tests .....	17
Annex C (normative) Switches incorporated in portable socket-outlets.....	17
Annex I (normative) Additional requirements and tests for plugs and socket-outlets for high-load (HL) application.....	17
Figure 101 – Circuit for the tests of 15.101 .....	12



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD  
AND SIMILAR PURPOSES –****Part 2-6: Particular requirements for switched socket-outlets  
with interlock for fixed electrical installations**

## 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 60884-2-6 has been prepared by subcommittee 23B: Plugs, socket-outlets and switches, of IEC technical committee 23: Electrical accessories. It is an International Standard.

This second edition cancels and replaces the first edition published in 1997. 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/1547/FDIS	23B/1561/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 switched socket-outlets without interlock for fixed installations.

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 specifications: in italic type;*
- Explanatory matter: in smaller roman type.

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

A list of all the parts in the IEC 60884 series, 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 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations

#### 1 Scope

*Replace IEC 60884-1:2022, Clause 1 with the following:*

This part of IEC 60884 applies to switched socket-outlets with interlock for AC only, for fixed electrical installations, with or without earthing contact, with rated voltage above 50 V but not exceeding 440 V and a rated current not exceeding 32 A, intended for household and similar purposes, either indoors or outdoors.

Switched socket-outlets with interlock according to this document consist of a combination of socket-outlets according to IEC 60884-1, interlocked with a switch according to IEC 60669-1 and/or IEC 60669-2-1 supplied as a complete accessory.

The rated current is limited to 16 A maximum for fixed accessories provided with screwless terminals.

This document does not cover requirements for flush mounting boxes.

However, it covers those requirements for surface-type mounting boxes which are necessary for the tests on socket-outlets.

NOTE 1 General requirements for mounting boxes are covered by IEC 60670.

NOTE 2 Interlocked socket-outlets incorporating devices according to IEC 60898, IEC 61008 and IEC 61009 are not covered by this document. This document can be used as a guide for the requirements and tests of these accessories where relevant.

This document does not apply to

- interlocked socket-outlets for industrial purposes;
- interlocked socket-outlets for EV;
- interlocked socket-outlets for SELV.

Plugs and socket-outlets complying with this document are suitable for use at ambient temperatures not normally exceeding +40 °C, but their average temperature over a period of 24 h does not exceed +35 °C, with a lower limit of the ambient air temperature of –5 °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:

*Add to the list of normative references:*

IEC 60669-1:2017, *Switches for household and similar fixed-electrical installations – Part 1: General requirements*

IEC 60669-2-1:2021, *Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic control devices*

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