

# INTERNATIONAL STANDARD



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## Plugs and socket-outlets for household and similar purposes – Part 1: General requirements



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## Plugs and socket-outlets for household and similar purposes – Part 1: General requirements

INTERNATIONAL  
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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

### Part 1: General requirements

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

This fourth edition cancels and replaces the third edition published in 2002, Amendment 1:2006 and Amendment 2:2013. This edition constitutes a technical revision.

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

- a) plugs and socket-outlets incorporating pilot lights;
- b) crimped connections in accessories;
- c) insulation piercing terminals (IPT);
- d) accessories to be used with American Wire Gauge (AWG) cables;
- e) accessories used in T° below –5 °C down to and including –45 °C;
- f) accessories used in T° above +40 °C up to and including +70 °C;

- g) plugs and socket-outlets for high load (HL);
- h) clarification of some definitions;
- i) durability of markings test;
- j) introduction of thermal monitoring in the plug;
- k) requirements for shutters in portable socket-outlets;
- l) test walls for the verification of ingress of water;
- m) rewriting of the temperature rise clause.

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

Draft	Report on voting
23B/1386/FDIS	23B/1400/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/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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 following print types are used:

- requirements: in roman type;
- test specifications: in *italic* type;
- notes: in small roman type.

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

## Part 1: General requirements

### 1 Scope

This part of IEC 60884 applies to plugs and fixed or portable socket-outlets for AC only, with or without earthing contact, with a rated voltage greater than 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.

Compatible plugs and socket-outlets, when combined, form a plug and socket-outlet system. Standardized systems used around the world are reported in IEC/TR 60083.

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

This document covers only those requirements for mounting boxes which are necessary for the tests on the socket-outlet.

NOTE 1 Requirements for general purpose mounting boxes are given in IEC 60670-1.

This document also applies to:

- plugs which are a part of cord sets;
- plugs and portable socket-outlets which are a part of cord extension sets;
- plugs and socket-outlets which are a component of an appliance, unless otherwise stated in the standard for the relevant appliance; and
- plugs and socket-outlets incorporating pilot lights.

This document does not apply to:

- plugs, socket-outlets and couplers for industrial purposes;
- appliance couplers;
- plugs, fixed and portable socket-outlets for extra low voltage (ELV);

NOTE 2 ELV values are specified in IEC 60364-4-41.

- fixed socket-outlets combined with fuses, automatic switches, etc.

Plugs of this document are intended to be energised by socket-outlets.

NOTE 3 Use in any other manner could result in unsafe conditions within the installation if proper precautions are not taken. When energy producing equipment is connected to the fixed installation via plugs of this document all safety aspects of the products and the installation need to be evaluated by the manufacturer of the energy producing equipment.

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.

In locations where special conditions prevail, such as in ships, vehicles and the like and in hazardous locations, for example where explosions are liable to occur, additional requirements can be applicable.