

STN	Vidlice a zásuvky na používanie v domácnostiach a na podobné účely Časť 1: Všeobecné požiadavky	STN IEC 60884-1 35 4520
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Plugs and socket-outlets for household and similar purposes
Part 1: General requirements

Prises de courant pour usages domestiques et analogues
Partie 1: Exigences générales

Táto slovenská technická norma obsahuje anglickú verziu medzinárodnej normy IEC 60884-1: 2022 vrátane jej opravy IEC 60884-1: 2022/COR1: 2023 a má postavenie oficiálnej verzie.

This Slovak standard includes the English version of the International standard IEC 60884-1: 2022 including its correction IEC 60884-1: 2022/COR1: 2023 and has the status of the official version.

Nahradenie predchádzajúcich dokumentov

Táto slovenská technická norma nahrádza STN IEC 60884-1 z marca 2004 v celom rozsahu.

142602

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

Anotácia

Táto časť IEC 60884 platí pre vidlice a pevné alebo pohyblivé zásuvky určené len na striedavý prúd, s ochranným kontaktom alebo bez neho, s menovitým napätím vyšším ako 50 V, avšak neprevyšujúcim 440 V, s menovitým prúdom maximálne 32 A, určené na používanie v domácnosti a na podobné účely vo vnútornom alebo vonkajšom prostredí.

Kompatibilné vidlice a zásuvky po spojení tvoria systém vidlice a zásuvky. Normalizované systémy používané vo svete sú uvedené v IEC/TR 60083.

Menovitý prúd je pri príslušenstvách vybavených bezskrutkovými svorkami obmedzený najviac na 16 A.

Tento dokument zahŕňa len tie požiadavky na montážne škatule, ktoré sú potrebné na skúšanie zásuvky.

POZNÁMKA 1. – Požiadavky na montážne škatule na všeobecné použitie sú uvedené v IEC 60670-1.

Tento dokument platí aj pre:

- vidlice, ktoré sú súčasťou šnúrových súprav;
- vidlice a prenosné zásuvky, ktoré sú súčasťou predlžovacích šnúrových prívodov;
- vidlice a zásuvky, ktoré sú súčasťou spotrebiča, ak norma pre príslušný spotrebič neustanovuje inak;
- vidlice a zásuvky so zabudovanými signalizačnými svetlami.

Tento dokument neplatí pre:

- vidlice, zásuvky a spojky na priemyselné použitie;
- prístrojové spojky;
- vidlice, pevné a prenosné zásuvky pre malé napätie (ELV);

POZNÁMKA 2. – Hodnoty ELV sú špecifikované v IEC 60364-4-41.

- pevné zásuvky kombinované s poistkami, automatickými spínačmi a pod.

Vidlice podľa tohto dokumentu sú určené na napájanie zo zásuviek.

POZNÁMKA 3. – Používanie akýmkoľvek iným spôsobom môže viesť k nebezpečným stavom v elektrickej inštalácii, ak sa neprijmú primerané opatrenia. Ak sa zariadenie vyrábajúce energiu pripája k pevnej elektrickej inštalácii prostredníctvom vidlíc podľa tohto dokumentu, výrobca zariadenia vyrábajúceho energiu musí posúdiť všetky bezpečnostné aspekty výrobkov a elektrickej inštalácie.

Vidlice a zásuvky vyhovujúce tomuto dokumentu sú vhodné na používanie pri teplotách okolitého vzduchu, ktoré spravidla neprevyšujú +40 °C, pričom ich priemerná teplota za 24 h neprevyšuje +35 °C, a dolná hranica teploty okolitého vzduchu je –5 °C.

Na miestach, kde sa vyskytujú osobitné podmienky, napríklad na lodiach, vo vozidlách a podobne, a v nebezpečných priestoroch, napríklad tam, kde môže dôjsť k výbuchu, môžu platiť dodatočné požiadavky.

Národný predhovor

Normatívne referenčné dokumenty

Na nasledujúce dokumenty sa odkazuje v texte takým spôsobom, že časť ich obsahu alebo celý obsah predstavuje požiadavky tohto dokumentu. Pri datovaných odkazoch sa používa len citované vydanie. Pri nedatovaných odkazoch sa používa najnovšie vydanie citovaného dokumentu (vrátane akýchkoľvek zmien).

POZNÁMKA 1. – Ak bola medzinárodná publikácia zmenená spoločnými modifikáciami, čo je indikované označením (mod), použije sa príslušná EN/HD.

POZNÁMKA 2. – Aktuálne informácie o platných a zrušených STN možno získať na webovej stránke www.unms.sk.

IEC 60068-2-30 prijatá ako STN EN IEC 60068-2-30 Skúšanie vplyvu prostredia. Časť 2-30: Skúšky. Skúška Db: Vlhké teplo, cyklické (cyklus 12 h + 12 h) (34 5791)

IEC 60068-2-31 prijatá ako STN EN 60068-2-31 Skúšanie vplyvu prostredia. Časť 2-31: Skúšky. Skúška Ec: Nárazy pri hrubej manipulácii, prednostne pre druh vzoriek-zariadenia (34 5791)

IEC 60068-2-75 prijatá ako STN EN 60068-2-75 Skúšanie vplyvu prostredia. Časť 2-75: Skúšky. Skúška Eh: Skúšky kladivom (34 5791)

IEC 60112 prijatá ako STN EN IEC 60112 Metóda určovania porovnávacieho indexu a indexu odolnosti tuhých izolačných materiálov proti tvorbe plazivých stôp (34 6468)

súbor IEC 60227 prijatý ako súbor STN IEC 60227 Káble a vodiče izolované PVC na menovité napätie do 450/750 V vrátane (34 7656)

súbor IEC 60245 prijatý ako súbor STN IEC 60245 Káble a vodiče s gumovou izoláciou na menovité napätie do 450/750 V vrátane (34 7470)

IEC 60417 dosiaľ neprijatá

IEC 60423: 2007 prijatá ako STN EN 60423: 2008 Systémy elektroinštalčných rúrok na uloženie káblov. Vonkajšie priemery a závit elektroinštalčných rúrok a ich príslušenstva (37 0000)

IEC 60529: 1989 prijatá ako STN EN 60529: 1993 Stupne ochrany krytom (krytie – IP kód) (33 0330)

IEC 60529: 1989/AMD1: 1999 prijatá ako STN EN 60529: 1993/A1: 2002

IEC 60529: 1989/AMD2: 2013 prijatá ako STN EN 60529: 1993/A2: 2016

súbor IEC 60669 prijatý ako súbor STN EN IEC 60669 Spínače pre elektrické inštalácie v domácnostiach a podobné pevné elektrické inštalácie (35 4106)

IEC 60669-2-1: 2021 prijatá ako STN EN IEC 60669-2-1: 2023 Spínače pre elektrické inštalácie v domácnostiach a podobné pevné elektrické inštalácie. Časť 2-1: Osobitné požiadavky. Elektronické spínače (35 4106)

IEC 60695-2-10: 2021 prijatá ako STN EN IEC 60695-2-10: 2022 Skúšanie požiarneho nebezpečenstva. Časť 2-10: Skúšky žeravým/horúcim drôtom. Zariadenie a spoločný skúšobný postup (34 5630)

IEC 60695-2-11: 2021 prijatá ako STN EN IEC 60695-2-11: 2022 Skúšanie požiarneho nebezpečenstva. Časť 2-11: Skúšky žeravým/horúcim drôtom. Skúšky horľavosti finálnych výrobkov žeravým drôtom (GWEPT) (34 5630)

IEC 60884-2-1 dosiaľ neprijatá

IEC 61032: 1997 prijatá ako STN EN 61032: 2001 Ochrana osôb a zariadení krytmi. Sondy na overenie (33 0333)

súbor IEC 61058 prijatý ako súbor STN EN IEC 61058 Spínače na spotrebiče (35 4107)

IEC 61545 dosiaľ neprijatá

ISO/IEC Guide 51 dosiaľ neprijatý

ISO 1456: 2009 prijatá ako STN EN ISO 1456: 2010 Kovové a iné anorganické povlaky. Elektrolyticky vylúčené povlaky niklu, niklu-chrómu, medi-niklu a medi-niklu-chrómu (ISO 1456: 2009) (03 8513)

ISO 2081: 2018 prijatá ako STN EN ISO 2081: 2020 Kovové a iné anorganické povlaky. Elektrolyticky vylúčené povlaky zinku na železe alebo oceli s dodatočnou úpravou (ISO 2081: 2018) (03 8511)

ISO 2093: 1986 dosiaľ neprijatá

Súvisiace dokumenty

súbor STN IEC 60050 prijatý ako Medzinárodný elektrotechnický slovník (dostupný na www.electropedia.org) (33 0050)

STN EN IEC 60228 Jadrá káblov (34 7201)

súbor STN EN IEC 60320 Nástrčky a prívodky na spotrebiče pre domácnosť a na podobné všeobecné účely (35 4508)

STN EN IEC 60352-2: 2025 Nespájkované spoje. Časť 2: Zatlačované spoje. Všeobecné požiadavky, skúšobné metódy a praktický návod (35 4061)

STN 33 2000-4-41: 2019 Elektrické inštalácie nízkeho napätia. Časť 4-41: Zaistenie bezpečnosti. Ochrana pred zásahom elektrickým prúdom (33 2000)

STN 33 2000-7-722: 2019 Elektrické inštalácie nízkeho napätia. Časť 7-722: Požiadavky na osobitné inštalácie alebo priestory. Napájanie elektrických vozidiel (33 2000)

STN EN 60512-16-4: 2009 Konektory pre elektronické zariadenia. Skúšky a merania. Časť 16-4: Mechanické skúšky spojení a vývodov. Skúška 16d: Pevnosť v ťahu (krmpované spojenia) (35 4055)

STN EN IEC 60598-2-20 Svetidlá. Časť 2-20: Osobitné požiadavky. Svetelné reťazce (36 0600)

STN EN IEC 60664-1 Koordinácia izolácie zariadení v nízkonapäťových napájacích sieťach. Časť 1: Zásady, požiadavky a skúšky (33 0420)

STN EN IEC 60670-1 Škatule a úplné kryty na elektrické príslušenstvá pre domácnosť a na podobné pevné elektrické inštalácie. Časť 1: Všeobecné požiadavky (37 0100)

súbor STN EN 60998 Spájacie zariadenia pre nízkonapäťové obvody pre domácnosť a na podobné účely (37 0670)

súbor STN EN 60999 ako Spájacie zariadenia. Medené vodiče. Bezpečnostné požiadavky na skrutkové a bezskrutkové upínacie jednotky (37 0670)

STN EN 61140 Ochrana pred zásahom elektrickým prúdom. Spoločné hľadiská pre inštaláciu a zariadenia (33 2010)

STN EN IEC 61540: 2026 Prenosné prúdové chrániče bez vstavanej nadprúdovej ochrany pre domácnosť a na podobné používanie (PRCD) (35 4184)

Upozornenie pre používateľov

Znenie opravy IEC 60884-1: 2022/COR1: 2023 sa nachádza na konci tohto dokumentu.

Vypracovanie

Spracovateľ: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

Technická komisia:

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PLUGS AND SOCKET-OUTLETS FOR
HOUSEHOLD AND SIMILAR PURPOSES –****Part 1: General requirements****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.
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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. The main document types developed by IEC are described in greater detail at 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.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

The contents of the corrigendum 1 (2023-12) have been included in this copy.

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.

This document gives additional requirements for accessories intended to be used with AWG cables, see Annex D (normative).

This document gives additional tests to be applied during the production of crimped connections in accessories, see Annex E (informative).

This document gives additional requirements for accessories provided with insulation-piercing terminals, see Annex F (normative).

This document gives additional specifications for accessories intended to be used in ambient temperatures below $-5\text{ }^{\circ}\text{C}$ down to and including $-45\text{ }^{\circ}\text{C}$, see Annex G (informative).

This document gives additional specifications for accessories intended to be used in ambient temperatures above $+40\text{ }^{\circ}\text{C}$ up to and including $+70\text{ }^{\circ}\text{C}$, see Annex H (informative).

This document gives additional requirements for plugs and socket-outlets for high load (HL). These plugs and socket-outlets are typically intended to be used for loads applying long and repetitive cycles up to the rated current of the accessories, see Annex I (normative).

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 60068-2-30, *Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 + 12 h cycle)*

IEC 60068-2-31, *Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens*

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

IEC 60112, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60245 (all parts), *Rubber insulated cables – Rated voltages up to and including 450/750 V*

IEC 60417, *Graphical symbols for use on equipment* (available at <http://www.graphical-symbols.info/equipment>)

IEC 60423:2007, *Conduit systems for cable management – Outside diameters of conduits for electrical installations and threads for conduits and fittings*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60529:1989/AMD1:1999

IEC 60529:1989/AMD2:2013

IEC 60669 (all parts), *Switches for household and similar fixed-electrical installations*

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

IEC 60695-2-10:2021, *Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure*

IEC 60695-2-11:2021, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end products (GWEPT)*

IEC 60884-2-1, *Plugs and socket-outlets for household and similar purposes – Part 2-1: Particular requirements for fused plugs*

IEC 61032:1997, *Protection of persons and equipment by enclosures – Probes for verification*

IEC 61058 (all parts), *Switches for appliances*

IEC 61545, *Connecting devices – Devices for the connection of aluminium conductors in clamping units of any material and copper conductors in aluminium bodied clamping units*

ISO/IEC Guide 51, *Safety aspects – Guidelines for their inclusion in standards*

ISO 1456:2009, *Metallic and other inorganic coatings – Electrodeposited coatings of nickel, nickel plus chromium, copper plus nickel and of copper plus nickel plus chromium*

ISO 2081:2018, *Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel*

ISO 2093:1986, *Electroplated coatings of tin – Specification and test methods*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN