

SLOVENSKI STANDARD oSIST prEN IEC 62368-1:2019

01-april-2019

Oprema za avdio/video, informacijsko in komunikacijsko tehnologijo - 1. del: Varnostne zahteve

Audio/video, information and communication technology equipment - Part 1: Safety requirements

Einrichtungen für Audio/Video-, Informations- und Kommunikationstechnik - Teil 1: Sicherheitsanforderungen

Équipements des technologies de l'audio/vidéo, de l'information et de la communication - Partie 1: Exigences de sécurité

Ta slovenski standard je istoveten z: prEN IEC 62368-1:2019

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sistemi na splošno systems in general

35.020 Informacijska tehnika in Information technology (IT) in

tehnologija na splošno general

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English Version

Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2018)

Équipements des technologies de l'audio/vidéo, de l'information et de la communication - Partie 1: Exigences de sécurité (IEC 62368-1:2018)

Einrichtungen für Audio/Video-, Informations- und Kommunikationstechnik - Teil 1: Sicherheitsanforderungen (IEC 62368-1:2018)

This draft European Standard is submitted to CENELEC members for enquiry. Deadline for CENELEC: 2019-04-19.

The text of this draft consists of the text of IEC 62368-1:2018 (108/701/FDIS).

If this draft becomes a European Standard, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN IEC 62368-1:2019) consists of the text of IEC 62368-1:2018 prepared by IEC/TC 108 "Safety of electronic equipment within the field of audio/video, information technology and communication technology".

This document is currently submitted to the Enquiry.

The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level
- (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement
- (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn
- (dow) dor + 36 months (to be confirmed or modified when voting)

This document will supersede EN 62368-1:2014, EN 60950-22:2017 and EN 60950-23:2006.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of prEN IEC 62368-1:2018/prA11:2018.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication IEC 60027-1	<u>Year</u>	<u>Title</u> Letters symbols to be used in electrical	EN/HD	<u>Year</u>
IEC 00027-1	-	technology - Part 1: General	-	-
IEC 60065	-	Audio, video and similar electronic apparatus - Safety requirements	EN 60065	-
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60068-2-11	Feh	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist	EN 60068-2-11	-
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 60073	-	Basic and safety principles for man- machine interface, marking and	EN 60073	-
		identification - Coding principles for indicators and actuators		
IEC 60076-14	-	Power transformers - Part 14: Liquid- immersed power transformers using high-	EN 60076-14	-
IEC/TR 60083	-	temperature insulation materials Plugs and socket-outlets for domestic and similar general use standardized in	-	-
IEC 60085	-	member countries of IEC Electrical insulation - Thermal evaluation and designation	EN 60085	-
IEC 60086-4	-	Primary batteries - Part 4: Safety of lithium batteries	EN 60086-4	-
IEC 60086-5	-	Primary batteries - Part 5: Safety of batteries with aqueous electrolyte	EN 60086-5	-
IEC 60107-1	1997	Methods of measurement on receivers for television broadcast transmissions - Part 1 General considerations - Measurements at radio and video frequencies	:	1997
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	-
IEC 60127 IEC 60227-1	series -	Miniature fuses Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 1: General requirements	EN 60127 -	series -
IEC 60227-2 + A1	1997 2003	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 2: Test methods	-	-

IEC 60245-1	-	Rubber insulated cables - Rated voltages up to and including 450/750 V Part 1: General requirements	-	-
IEC 60296	-	Fluids for electrotechnical applications - Unused mineral insulating oils for transformers and switchgear	EN 60296	-
IEC 60309	series	Plugs, socket-outlets and couplers for industrial purposes	EN 60309	series
IEC 60317-0	series	Specifications for particular types of winding wires	EN 60317-0	series
IEC 60317-0-7	2017	Specifications for particular types of winding wires - Part 0-7: General requirements - Fully insulated (FIW) zero-defect enamelled round copper wire	EN 60317-0-7	2017
IEC 60317-43	-	Specifications for particular types of winding wires - Part 43: Aromatic polyimide tape wrapped round copper wire, class 240	EN 60317-43	-
IEC 60317-56	-	Specifications for particular types of winding wires - Part 56: Solderable fully insulated (FIW) zero-defect polyurethane enamelled round copper wire, class 180	EN 60317-56	-
IEC 60320	series	Appliance couplers for household and similar general purposes	EN 60320	series
IEC 60320-1	-	Appliance couplers for household and similar general purposes - Part 1: General	EN 60320-1	-
IEC 60332-1-2	<u>T</u> eh	requirements Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single	EN 60332-1-2	-
IEC 60332-1-3 https://	- standard	insulated wire or cable - Procedure for 1 kW pre-mixed flame Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for	EN 60332-1-3 -8311-477c-acb1-	-
IEC 60332-2-2	-	determination of flaming droplets/particles Tests on electric and optical fibre cables under fire conditions - Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable - Procedure	EN 60332-2-2	-
IEC 60384-14	-	for diffusion flame Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN 60384-14	-
IEC 60417	Data- base	Graphical symbols for use on equipment	-	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems - Part 1:	EN 60664-1	2007
IEC 60664-3	-	Principles, requirements and tests Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection	EN 60664-3 f	-
IEC 60691	2015	against pollution Thermal-links - Requirements and application guide	EN 60691	2016

IEC 60695-2-11	-	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for	EN 60695-2-11	-
IEC 60695-10-2	-	end-products (GWEPT) Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method	EN 60695-10-2	-
IEC 60695-10-3	-	Fire hazard testing - Part 10-3: Abnormal heat - Mould stress relief distortion test	EN 60695-10-3	-
IEC 60695-11-5	2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2017
IEC 60695-11-10	-	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	-
IEC 60695-11-20	2015	Fire hazard testing - Part 11-20: Test flames - 500 W flame test method	EN 60695-11-20	2015
IEC/TS 60695-11- 21	-	Fire hazard testing - Part 11-21: Test flames - 500 W vertical flame test method for tubular polymeric materials	-	-
IEC 60728-11	2016	Cable networks for television signals, sound signals and interactive services - Part 11: Safety	EN 60728-11	2017
-	-		+ A11	2018
IEC 60730 IEC 60730-1 (mod)	series 2013	Automatic electrical controls Automatic electrical controls - Part 1:	EN 60730 EN 60730-1	series 2016
		General requirements		
IEC 60738-1	2006	Thermistors - Directly heated positive temperature coefficient - Part 1: Generic specification	EN 60738-1	2006
IEC 60747-5-5	2007	Semiconductor devices - Discrete devices - Part 5-5: Optoelectronic devices - Photocouplers	EN 60747-5-5	2011
+ A1 https://s	2013 ds		43A1-477c-acb1-	2015
IEC 60825-1	-	Safety of laser products - Part 1:68-1-202 Equipment classification and requirements	EN 60825-1	-
IEC 60825-2	-	Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS)		-
IEC 60825-12	-	Safety of laser products - Part 12: Safety of free space optical communication systems used for transmission of information	EN 60825-12	-
IEC 60836	-	Specifications for unused silicone insulating liquids for electrotechnical	EN 60836	-
IEC 60851-3	2009	purposes Winding wires - Test methods - Part 3: Mechanical properties	EN 60851-3	2009
+ A1	2013	oonaoo	+ A1	2013
IEC 60851-5	2008	Winding wires - Test methods - Part 5: Electrical properties	EN 60851-5	2008
+ A1	2011		+ A1	2011
IEC 60884-1	-	Plugs and socket-outlets for household and similar purposes Part 1: General requirements	-	-
IEC 60896-11	-	Stationary lead-acid batteries - Part 11: Vented types - General requirements and	EN 60896-11	-
IEC 60896-21	2004	methods of tests Stationary lead-acid batteries - Part 21: Valve regulated types - Methods of test	EN 60896-21	2004

IEC 60896-22	-	Stationary lead-acid batteries - Part 22: Valve regulated types - Requirements	EN 60896-22	-
IEC 60906-1	-	IEC system of plugs and socket-outlets for household and similar purposes - Part 1:	-	-
IEC 60906-2	-	Plugs and socket-outlets 16 A 250 V a.c. IEC system of plugs and socket-outlets for household and similar purposes - Part 2: Plugs and socket-outlets 15 A 125 V a.c. and 20 A 125 V a.c.	-	-
IEC 60947-1	-	Low-voltage switchgear and controlgear - Part 1: General rules	EN 60947-1	-
IEC 60947-5-5	-	Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function	EN 60947-5-5	-
IEC 60950-1	-	Information technology equipment - Safety - Part 1: General requirements	EN 60950-1	-
IEC 60990	2016	Methods of measurement of touch current and protective conductor current	EN 60990	2016
IEC 60998-1	-	Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements	EN 60998-1	-
IEC 60999-1	-	Connecting devices - Electrical copper conductors - Safety requirements for	EN 60999-1	-
		screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm2 up to 35 mm2 (included)		
IEC 60999-2	-	Connecting devices - Electrical copper conductors - Safety requirements for	EN 60999-2	-
		screw-type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors above 35 mm2 up to 300 mm2 (included)		
IEC 61039	_	Classification of insulating liquids	EN 61039	-
IEC 61051-1	-	Varistors for use in electronic equipment - Part 1: Generic specification	-	-
IEC 61051-2 +A1	1991 2009	Varistors for use in electronic equipment - Part 2: Sectional specification for surge suppression varistors	-	-
IEC 61056-1	-	General purpose lead-acid batteries (valve-regulated types) - Part 1: General requirements, functional characteristics - Methods of test	EN 61056-1	-
IEC 61056-2	-	General purpose lead-acid batteries (valve-regulated types) - Part 2: Dimensions, terminals and marking	EN 61056-2	-
IEC 61058-1	2016	Switches for appliances - Part 1: General requirements	EN IEC 61058-1	2018
IEC 61099	-	Insulating liquids - Specifications for unused synthetic organic esters for electrical purposes	EN 61099	-
IEC 61204-7	-	Low-voltage switch mode power supplies - Part 7: Safety requirements	EN IEC 61204-7	-
IEC 61293	-	Marking of electrical equipment with ratings related to electrical supply - Safety requirements	EN 61293	-

IEC 61427	series	Secondary cells and batteries for renewable energy storage - General requirements and methods of test - Part 1:	EN 61427	series
IEC/TS 61430	-	Photovoltaic off-grid application Secondary cells and batteries - Test methods for checking the performance of devices designed for reducing explosion	-	-
IEC 61434	-	hazards - Lead-acid starter batteries Secondary cells and batteries containing alkaline or other non-acid electrolytes - Guide to designation of current in alkaline secondary cell and battery standards	EN 61434	-
IEC 61558-1	2017	Safety of transformers, reactors, power supply units and combinations thereof - Part 1: General requirements and tests	FprEN 61558-1	2017
IEC 61558-2-16	-	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units	EN 61558-2-16	-
IEC 61643-11 (mod)	2011	Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods	EN 61643-11	2012
- IEC 61643-331	2017	Components for low-voltage surge protection - Part 331: Performance requirements and test methods for metal oxide varistors (MOV)	+ A11 EN IEC 61643-331	2018 2018
IEC 61810-1	2015	Electromechanical elementary relays - Par 1: General and safety requirements	tEN 61810-1	2015
IEC 61959 https://	standard		EN 61959c-acb l - 0	-
IEC 61965 IEC 61984	-	Mechanical safety of cathode ray tubes Connectors - Safety requirements and tests	EN 61965 EN 61984	- -
IEC 62133	series	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications	EN 62133	series
IEC 62133-1	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems	EN 62133-1	-
IEC 62133-2	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems	EN 62133-2	-
IEC 62281	-	Safety of primary and secondary lithium cells and batteries during transport	EN 62281	-

IEC/TS 62332-1	-	Electrical insulation systems (EIS) - Thermal evaluation of combined liquid and solid components - Part 1: General	- I	-
IEC 62440	2008	requirements Electric cables with a rated voltage not exceeding 450/750 V - Guide to use	-	-
IEC 62471 (mod)	2006	Photobiological safety of lamps and lamp systems	EN 62471	2008
IEC 62471-5	2015	Photobiological safety of lamps and lamp systems - Part 5: Image projectors	EN 62471-5	2015
IEC 62485-2	-	Safety requirements for secondary batteries and battery installations - Part 2:	EN IEC 62485-2	-
IEC 62619	-	Stationary batteries Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial	EN 62619	-
ISO 37	-	applications Rubber, vulcanized or thermoplastic Determination of tensile stress-strain properties	-	-
ISO 178	-	Plastics - Determination of flexural	EN ISO 178	-
ISO 179-1	-	properties Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test	EN ISO 179-1	-
ISO 180	Feh	Plastics - Determination of Izod impact strength	EN ISO 180	-
ISO 306	-	Plastics - Thermoplastic materials - Determination of Vicat softening temperature (VST)	EN ISO 306	-
ISO 527	series	Plastics - Determination of tensile	EN ISO 527	series
ISO 871 https://	standard		-2311-477c-acb1-	-
ISO 1798	-	temperature using a hot-air furnace -202 Flexible cellular polymeric materials - Determination of tensile strength and	EN ISO 1798	-
ISO 1817	2015	elongation at break Rubber, vulcanized or thermoplastic Determination of the effect of liquids	-	-
ISO 2719	-	Determination of flash point - Pensky- Martens closed cup method	EN ISO 2719	-
ISO 3231	-	Paints and varnishes - Determination of resistance to humid atmospheres containing sulfur dioxide	EN ISO 3231	-
ISO 3679	-	Determination of flash no-flash and flash point - Rapid equilibrium closed cup	EN ISO 3679	-
ISO 3864	series	method Graphical symbols - Safety colours and safety signs	-	-
ISO 3864-2	-	Graphical symbols - Safety colours and safety signs – Part 2: Design principles for product safety labels	-	-
ISO 4892-1	-	Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance	EN ISO 4892-1	-
ISO 4892-2	-	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-ard lamps	EN ISO 4892-2 c	-

ISO 4892-4	-	Plastics - Methods of exposure to laboratory light sources - Part 4: Open-flame carbon-arc lamps	-	-
ISO 7000	-	Graphical symbols for use on equipment - Registered symbols	-	-
ISO 7010	-	Graphical symbols - Safety colours and safety signs - Registered safety signs	EN ISO 7010	-
ISO 8256	-	Plastics - Determination of tensile-impact strength	EN ISO 8256	-
ISO 9772	-	Cellular plastics Determination of horizontal burning characteristics of small specimens subjected to a small flame	-	-
ISO 9773	-	Plastics - Determination of burning behaviour of thin flexible vertical specimens in contact with a small-flame ignition source	EN ISO 9773	-
ISO 14993	-	Corrosion of metals and alloys - Accelerated testing involving cyclic exposure to salt mist, dry and wet conditions	-	-
ISO 21207	-	Corrosion tests in artificial atmospheres - Accelerated corrosion tests involving alternate exposure to corrosion-promoting gases, neutral salt-spray and drying	-	-
ASTM D3574	-	Standard Test Methods for Flexible Cellular Materials - Slab, Bonded, and	-	-
ASTM D412	ileh	Molded Urethane Foams Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension	VIEW	-
ASTM 471-98	-	Standard Test Method for Rubber Property - Effect of Liquids	<i>!</i> -	-
- https	- s://standards	Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment"	EN 50332-1 -8311-477e-aeb1- 0	2013
-	-	Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Matching of sets with headphones if either or both are offered separately	EN 50332-2	-
-	-	Sound system equipment: Headphones and earphones associated with personal music players - maximum sound pressure level measurement methodology - Part 3: Measurement method for sound dose management	EN 50332-3	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Audio/video, information and communication technology equipment – Part 1: Safety requirements

Équipements des technologies de l'audio/vidéo, de l'information et de la communication – SIST EN IEC 62368-1:2020

Partie 1: Exigences de sécurité log/standards/sist/aa13a738-8311-477c-acb1-

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