



BSI Standards Publication

Luminaires

Part 1: General requirements and tests

This is a preview of BS EN IEC 60598-1:2024+A11:2024. [Click here to purchase the full version from the ANSI store](#)

National foreword

This British Standard is the UK implementation of EN IEC 60598-1:2024+A11:2024. It is derived from IEC 60598-1:2024. It supersedes BS EN IEC 60598-1:2021+A11:2022 which will be withdrawn on 31 December 2027.

The UK participation in its preparation was entrusted to Technical Committee CPL/34/4, Luminaires.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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This publication has been prepared under a mandate given to the European Standards Organizations by the European Commission and the European Free Trade Association. It is intended to support requirements of the EU legislation detailed in the European Foreword. A European Annex, usually Annex ZA or ZZ, describes how this publication relates to that EU legislation.

For the Great Britain market (England, Scotland and Wales), if UK Government has designated this publication for conformity with UKCA marking (or similar) legislation, it may contain an additional National Annex. Where such a National Annex exists, it shows the correlation between this publication and the relevant UK legislation. If there is no National Annex of this kind, the relevant Annex ZA or ZZ in the body of the European text will indicate the relationship to UK regulation applicable in Great Britain. References to EU legislation may need to be read in accordance with the UK designation and the applicable UK law. Further information on designated standards can be found at www.bsigroup.com/standardsandregulation.

For the Northern Ireland market, UK law will continue to implement relevant EU law subject to periodic confirmation. Therefore Annex ZA/ZZ in the European text, and references to EU legislation, are still valid for this market.

UK Government is responsible for legislation. For information on legislation and policies relating to that legislation, consult the relevant pages of www.gov.uk.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2024.

Amendments/corrigenda issued since publication

| Date | Text affected |
|---------------|---|
| 31 March 2025 | CENELEC amendment A11:2024 text inserted and designator and National Foreword corrected |

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EUROPÄISCHE NORM

December 2024

ICS 29.140.40

Supersedes EN IEC 60598-1:2021; EN IEC 60598-1:2021/A11:2022

English Version

Luminaires - Part 1: General requirements and tests (IEC 60598-1:2024)

Luminaires - Partie 1: Exigences générales et essais
(IEC 60598-1:2024)Leuchten - Teil 1: Allgemeine Anforderungen und
Prüfungen
(IEC 60598-1:2024)

This European Standard was approved by CENELEC on 2024-12-11. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

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European foreword

The text of document 34D/1739/FDIS, future edition 10 of IEC 60598-1, prepared by SC 34D "Luminaires" of IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60598-1:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-12-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-12-31 document have to be withdrawn

This document supersedes EN IEC 60598-1:2021 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of EN IEC 60598-1:2024/A11:2024.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60598-1:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

| | |
|--------------------|---|
| IEC 60061 (series) | NOTE Approved as EN 60061 (series) |
| IEC 60068-2-2:2007 | NOTE Approved as EN 60068-2-2:2007 (not modified) |
| IEC 60079 (series) | NOTE Approved as EN IEC 60079 (series) |
| IEC 60081 | NOTE Approved as EN 60081 |
| IEC 60086-1 | NOTE Approved as EN IEC 60086-1 |
| IEC 60086-2 | NOTE Approved as EN IEC 60086-2 |

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| | | |
|----------------------|------|--|
| IEC 60216 (series) | NOTE | Approved as EN 60216 (series) |
| IEC 60228 | NOTE | Approved as EN IEC 60228 |
| IEC 60269 (series) | NOTE | Approved as EN 60269 (series) |
| IEC 60357 | NOTE | Approved as EN 60357 |
| IEC 60364 (series) | NOTE | Approved as HD 60364 (series) |
| IEC 60364-4-41 | NOTE | Approved as HD 60364-4-41 |
| IEC 60364-5-51 | NOTE | Approved as HD 60364-5-51 |
| IEC 60364-5-54:2011 | NOTE | Approved as HD 60364-5-54:2011 (not modified) + A11:2017 |
| IEC 60364-7-701 | NOTE | Approved as HD 60364-7-701 |
| IEC 60364-7-702 | NOTE | Approved as HD 60364-7-702 |
| IEC 60400 | NOTE | Approved as EN 60400 |
| IEC 60432-3 | NOTE | Approved as EN 60432-3 |
| IEC 60598-2-2 | NOTE | Approved as EN IEC 60598-2-2 |
| IEC 60598-2-3 | NOTE | Approved as EN 60598-2-3 |
| IEC 60598-2-5 | NOTE | Approved as EN 60598-2-5 |
| IEC 60664 (series) | NOTE | Approved as EN 60664 (series) |
| IEC 60664-1:2020 | NOTE | Approved as EN IEC 60664-1:2020 (not modified) |
| IEC 60664-3 | NOTE | Approved as EN 60664-3 |
| IEC 60682 | NOTE | Approved as EN 60682 |
| IEC 60695 (series) | NOTE | Approved as EN IEC 60695 (series) |
| IEC 60695-2 (series) | NOTE | Approved as EN IEC 60695-2 (series) |
| IEC 60838 (series) | NOTE | Approved as EN 60838 (series) |
| IEC 60901 | NOTE | Approved as EN 60901 |
| IEC 60921 | NOTE | Approved as EN 60921 |

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| | | |
|------------------------|------|--|
| IEC 60923 | NOTE | Approved as EN 60923 |
| IEC 60929 | NOTE | Approved as EN 60929 |
| IEC 61140:2016 | NOTE | Approved as EN 61140:2016 (not modified) |
| IEC 61184 | NOTE | Approved as EN 61184 |
| IEC 61195 | NOTE | Approved as EN 61195 |
| IEC 61199:2011 | NOTE | Approved as EN 61199:2011 (not modified) |
| IEC 61199:2011/A1:2012 | NOTE | Approved as EN 61199:2011/A1:2013 (not modified) |
| IEC 61199:2011/A2:2014 | NOTE | Approved as EN 61199:2011/A2:2015 (not modified) |
| IEC 61210 | NOTE | Approved as EN 61210 |
| IEC 61558-2-5 | NOTE | Approved as EN 61558-2-5 |
| IEC 61995 (series) | NOTE | Approved as EN 61995 (series) |
| IEC 62031 | NOTE | Approved as EN IEC 62031 |
| IEC 62035 | NOTE | Approved as EN 62035 |
| IEC 62133-1 | NOTE | Approved as EN 62133-1 |
| IEC 62368 (series) | NOTE | Approved as EN IEC 62368 (series) |
| IEC 62368-3:2017 | NOTE | Approved as EN IEC 62368-3:2020 (not modified) |
| IEC 62471:2006 | NOTE | Approved as EN 62471:2008 |
| IEC 62504:2014 | NOTE | Approved as EN 62504:2014 (not modified) |
| IEC 62722 (series) | NOTE | Approved as EN IEC 62722 (series) |

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European foreword to amendment A11

This document (EN IEC 60598-1:2024/A11:2024) has been prepared by CLC/TC 34, "Lighting".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-12-31
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2027-12-31

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This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

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Annex ZB (normative)

Special national conditions

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the European Standard or Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

Clause Special national condition

6.4 **Denmark**

Supply cords of class I luminaires, which are delivered without a plug, shall be provided with a visible tag with the following text:

Vigtigt !
Lederen med grøn/gul isolation
må kun tilsluttes en klemme mærket



If essential for the safety of the luminaire, the tag shall in addition be provided with a diagram, which shows the connection of the other conductors, or be provided with the following text:

For tilslutning af de øvrige ledere,
se medfølgende vejledning.

“ø” may be replaced by “oe”; “æ” may be replaced by “ae”.

8.2.18 **Denmark**

Socket-outlets intended for providing power to other appliances shall be in compliance with DS60884-2-D1:2017, the Standard Sheets being applied as follows:

Class I Standard Sheet DK 1-3a, DK 1-1c and DK 1-1d

For class I luminaires, the earthing contact of the socket-outlet shall be electrically connected to the earthing terminal of the appliance.

Class II luminaires with a degree of protection not higher than IPX0, Standard Sheet DKA 1-4a can be used.

EXEMPTION:

Socket-outlets supplied from isolation transformers (shaver supply units) and socket-outlets on outdoor luminaires may be in accordance with the requirement of DS60884-2-D1:2017 for fixed socket-outlets.

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8.2.1 Cyprus

Domestic luminaires intended for connection to a standard United Kingdom 13 A socket must be pre-fitted with an approved plug complying with BS 1363.

Cord sets for domestic luminaires for connection with an appliance inlet must be pre-fitted with an approved plug complying with BS 1363.

Plugs must be fitted with the correct fuse.

Denmark

Supply cords on single-phase portable luminaires having a rated current not exceeding 13 A

shall be provided with a plug according to the following table:

| Class of luminaire | DS60884-2-D1:2017 | EN 50075 Standard Sheet |
|--------------------|------------------------------|----------------------------|
| Class I | DK 2-1a, C 2b, C 3b or C 4 | |
| Class II | DKA 2-1a, DKA 2-1b, C 5, C 6 | I |

For luminaires having an appliance inlet, the plug on the supply cord shall comply with the above requirements.

If multi-phase luminaires and single-phase luminaires having a rated current exceeding 13 A are provided with a supply cord with a plug, the plug shall comply with the following table or EN 60309.

| Plug | |
|--|--------------------------|
| Class of luminaire | DS60884-2-D1:2017 |
| Class I | DK 6-1a |
| Class II | DK 6-1a* |
| * Earthing contact not connected. | |

Finland

For luminaires provided with non-detachable flexible cables and cords and a plug, the plug shall comply with the requirements of SFS 5610 and EN 50075, the Standard Sheets to be applied being as follows:

- Class I luminaires SFS 5610, sheet IV or VII or IVA or VIIA
- Class II luminaires SFS 5610, sheet XVI (alt I only) or
SFS 5610, sheet XVII or EN 50075, sheet I

United Kingdom

Domestic luminaires intended for connection to a standard United Kingdom 13 A socket must be pre-fitted with an approved plug complying with BS 1363.

Cord sets for domestic luminaires for connection with an appliance inlet must be pre-fitted with an approved plug complying with BS 1363.

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Annex ZC (informative)

A-deviations

A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN and/or CENELEC member.

This European Standard falls under Directive 2014/35/EU.

NOTE (from CEN/CENELEC IR Part 2:2018, 2.16) Where standards fall under EC Directives or Regulations, it is the view of the Commission of the European Communities (OJ No C 59; 1982-03-09) that the effect of the decision of the Court of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p. 3583) is that compliance with A-deviations is no longer mandatory and that the free movement of products complying with such a standard should not be restricted within the EC except under the safeguard procedure provided for in the relevant Directive or Regulation.

A-deviations in non EU countries are valid instead of the respective provisions of the European Standard until the national situation causing the A-deviation has changed.

| <u>Clause</u> | <u>Deviation</u> |
|---------------|------------------|
|---------------|------------------|

| | |
|----------------|---------------|
| 7 and 8 | France |
|----------------|---------------|

(Arrêté of the 22th September 1969)

Socket-outlets 10/16 A intended for providing power to other appliances except those supplied by an isolating transformer shall be shuttered.

(Arrêté du 30 décembre 2011 portant règlement de sécurité pour la construction des immeubles de grande hauteur et leur protection contre les risques d'incendie et de panique)

Section VIII, Installations électriques et éclairage

Article GH 48, Eclairage

§ 1 Généralités:

c) Les parties externes des luminaires satisfont à l'essai au fil incandescent, la température du fil incandescent étant de:

– 850°C pour les luminaires dans les escaliers et les circulations horizontales communes ;

– 650°C pour les luminaires dans les locaux.

United Kingdom

(Approved Document B of the United Kingdom Building Regulations)

Particular fire protection requirements relating to thermoplastic diffusers are listed in Subclause 6.15 of the above Regulations.

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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 Where 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.cencenelec.eu.

| Publication | Year | Title | EN/HD | Year |
|----------------------|-----------|--|---------------------------|--------------------------|
| IEC 60061-2 (mod) | - | Lamp caps and holders together with gauge for the control of interchangeability and safe - Part 2: Lampholders | EN 60061-2 + A1 to A57 | 1993 |
| IEC 60061-3 | - | Lamp caps and holders together with gauge for the control of interchangeability and safety - Part 3: Gauges | EN 60061-3 + A1 to A58 | 1993 |
| IEC 60068-2-6 | - | Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal) | EN 60068-2-6 | 2008 |
| IEC 60068-2-14 | 2023 | Environmental testing – Part 2-14: Tests – T N: Change of temperature | EN IEC 60068-2-14 | 2023 |
| IEC 60068-2-31 | 2008 | Environmental testing – Part 2-31: Tests – T Ec: Rough handling shocks, primarily for equipment-type specimens | EN 60068-2-31 | 2008 |
| IEC 60068-2-75 | - | Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests | EN 60068-2-75 | 2014 |
| IEC/TR 60083 | - | Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC | IEC/TR 60083 | 2015 |
| IEC 60085 | - | Electrical insulation - Thermal evaluation and designation | EN 60085 | 2008 |
| IEC 60112 | 2020 | Method for the determination of the proof and the comparative tracking indices of solid insulating materials | EN IEC 60112 | 2020 |
| IEC 60155 | - | Glow-starters for fluorescent lamps | EN 60155 + A1 + A2 | 1995 1995 2007 |
| IEC 60227 | all parts | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V | EN 50525 ¹ | all parts (see below) |

¹ EN 50525 Series, which is related to, but not directly equivalent with IEC 60227 Series, applies instead.

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|---------------|-------------|
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 1: General requirements | EN 50525-1 | 2011 |
| | | | + A1 | 2022 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-11: Cables for general applications - Flexible cables with thermoplastic PVC insulation | EN 50525-2-11 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-12: Cables for general applications - Cables with thermoplastic PVC insulation for extensible leads | EN 50525-2-12 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-21: Cables for general applications - Flexible cables with crosslinked elastomeric insulation | EN 50525-2-21 | 2011 |
| | | | + AC | 2013 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-22: Cables for general applications - High flexibility braided cables with crosslinked elastomeric insulation | EN 50525-2-22 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-31: Cables for general applications - Single core non-sheathed cables with thermoplastic PVC insulation | EN 50525-2-31 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-41: Cables for general applications - Single core cables with crosslinked silicone rubber insulation | EN 50525-2-41 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-42: Cables for general applications - Single core non-sheathed cables with crosslinked EVA insulation | EN 50525-2-42 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-51: Cables for general applications - Oil resistant control cables with thermoplastic PVC insulation | EN 50525-2-51 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-71: Cables for general applications - Flat tinsel cables (cords) with thermoplastic PVC insulation | EN 50525-2-71 | 2011 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|---------------|-------------|
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 2-72: Cables for general applications - Flat divisible cables (cords) with thermoplastic PVC insulation | EN 50525-2-72 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 2-81: Cables for general applications - Cables with crosslinked elastomeric covering for arc welding | EN 50525-2-81 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 2-82: Cables for general applications - Cables with crosslinked elastomeric insulation for decorative chair | EN 50525-2-82 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 2-83: Cables for general applications - Multicore cables with crosslinked silicone rubber insulation | EN 50525-2-83 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 3-11: Cables with special fire performance - Flexible cables with halogen-free thermoplastic insulation, and low emission of smoke | EN 50525-3-11 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 3-21: Cables with special fire performance - Flexible cables with halogen-free crosslinked insulation, and low emission of smoke | EN 50525-3-21 | 2011 |
| | | | + AC | 2013 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 3-31: Cables with special fire performance - Single core non-sheathed cables with halogen-free thermoplastic insulation, and low emission of smoke | EN 50525-3-31 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/75V (U0/U) - Part 3-41: Cables with special fire performance - Single core non-sheathed cables with halogen-free crosslinked insulation and low emission of smoke | EN 50525-3-41 | 2011 |
| IEC 60238 | 2016 | Edison screw lampholders | EN IEC 60238 | 2018 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|-----------------------|--------------------------|
| IEC 60245 | all parts | Rubber insulated cables - Rated voltages up to and including 450/750 V | EN 50525 ² | all parts (see below) |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 1: General requirements | EN 50525-1 | 2011 |
| | | | + A1 | 2022 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-11: Cables for general applications - Flexible cables with thermoplastic PVC insulation | EN 50525-2-11 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-12: Cables for general applications - Cables with thermoplastic PVC insulation for extensible leads | EN 50525-2-12 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-21: Cables for general applications - Flexible cables with crosslinked elastomeric insulation | EN 50525-2-21 | 2011 |
| | | | + AC | 2013 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-22: Cables for general applications - High flexibility braided cables with crosslinked elastomeric insulation | EN 50525-2-22 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-31: Cables for general applications - Single core non-sheathed cables with thermoplastic PVC insulation | EN 50525-2-31 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-41: Cables for general applications - Single core cables with crosslinked silicone rubber insulation | EN 50525-2-41 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-42: Cables for general applications - Single core non-sheathed cables with crosslinked EVA insulation | EN 50525-2-42 | 2011 |
| | | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-51: Cables for general applications - Oil resistant control cables with thermoplastic PVC insulation | EN 50525-2-51 | 2011 |

² EN 50525 series, which is related to, but not directly equivalent with IEC 60245 series, applies instead.

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|---------------|-------------|
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 2-71: Cables for general applications - Flat tinsel cables (cords) with thermoplastic PVC insulation | EN 50525-2-71 | 2011 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 2-72: Cables for general applications - Flat divisible cables (cords) with thermoplastic PVC insulation | EN 50525-2-72 | 2011 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 2-81: Cables for general applications - Cables with cross-linked elastomeric covering for arc welding | EN 50525-2-81 | 2011 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 2-82: Cables for general applications - Cables with cross-linked elastomeric insulation for decorative chair | EN 50525-2-82 | 2011 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 2-83: Cables for general applications - Multicore cables with cross-linked silicone rubber insulation | EN 50525-2-83 | 2011 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 3-11: Cables with special performance - Flexible cables with halogen-free thermoplastic insulation, and low emission of smoke | EN 50525-3-11 | 2011 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 3-21: Cables with special performance - Flexible cables with halogen-free crosslinked insulation, and low emission of smoke | EN 50525-3-21 | 2011 |
| | | | + AC | 2013 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 3-31: Cables with special performance - Single core non-sheathed cables with halogen-free thermoplastic insulation and low emission of smoke | EN 50525-3-31 | 2011 |
| | | Electric cables - Low voltage energy cables rated voltages up to and including 450/750 V (U0/U) - Part 3-41: Cables with special performance - Single core non-sheathed cables with halogen-free crosslinked insulation and low emission of smoke | EN 50525-3-41 | 2011 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|------------------|--------------------------|
| IEC 60320 | all parts | Appliance couplers for household and similar general purposes | EN 60320 | all parts (see below) |
| | | Appliance couplers for household and similar general purposes - Part 1: General requirements | EN IEC 60320-1 | 2021 |
| | | Appliance couplers for household and similar general purposes - Part 2-1: Sewing machine couplers | EN IEC 60320-2-1 | 2021 |
| | | Appliance couplers for household and similar general purposes - Part 2-3: Appliance coupler with a degree of protection higher than IPX0 | EN IEC 60320-2-3 | 2021 |
| | | Appliance couplers for household and similar general purposes - Part 2-4: Appliance couplers dependent on appliance weight for engagement | EN IEC 60320-2-4 | 2021 |
| | | Appliance couplers for household and similar general purposes - Part 3: Standard sheets and gauges | EN 60320-3 | 2014 |
| | | | + A1 | 2021 |
| | | | + A2 | 2022 |
| IEC 60335-1 | 2020 | Household and similar electrical appliances – Safety – Part 1: General requirements | EN IEC 60335-1 | 2023 |
| IEC 60360 | - | Standard method of measurement of lamp cap temperature rise | EN 60360 | 1998 |
| IEC 60384-14 | - | 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 | 2013 |
| | | | + A1 | 2016 |
| IEC 60417 | database | Graphical symbols for use on equipment | - | - |
| IEC 60432-1 (mod) | 1999 | Incandescent lamps - Safety specifications - Part 1: Tungsten filament lamps for domestic and similar general lighting purposes | EN 60432-1 | 2000 |
| + A1 | 2005 | | + A1 | 2005 |
| + A2 | 2011 | | + A2 | 2012 |
| IEC 60432-2 (mod) | 1999 | Incandescent lamps - Safety specifications - Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes | EN 60432-2 | 2000 |
| + A1 (mod) | 2005 | | + A1 | 2005 |
| + A2 | 2012 | | + A2 | 2012 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|---------------------|-------------|--|---|------------------------------|
| IEC 60529 | - | Degrees of protection provided by enclos (IP Code) | EN 60529 + corr. May + A1 + A2 | 1991 1993 2000 2013 |
| IEC 60570 (mod) | 2003 | Electrical supply track systems for luminaire | EN 60570 | 2003 |
| + A1 | 2017 | | + A1 | 2018 |
| + A2 | 2019 | | + A2 | 2020 |
| IEC 60598-2 | all parts | Luminaires - Part 2: Particular requirements | EN 60598-2 | all parts |
| IEC 60598-2-4 (mod) | 2017 | Luminaires - Part 2: Particular requirements Section 4: Portable general purpose luminaires | EN 60598-2-4 | 2018 |
| IEC 60603 | all parts | Connectors for frequencies below 3 MHz for with printed boards | EN 60603 | all parts (see below) |
| | | Connectors for frequencies below 3 MHz for with printed boards - Part 1: Ger specification - General requirements and g for the preparation of detail specifications, assessed quality | EN 60603-1 | 1998 |
| | | Connectors for frequencies below 3 MHz for with printed boards - Part 12: Detail specifica for dimensions, general requirements and t for a range of sockets designed for use integrated circuits | EN 60603-12 | 1998 |
| | | Connectors for frequencies below 3 MHz for with printed boards - Part 13: Detail specifica for two-part connectors of assessed quality printed boards for basic grid of 2,54 mm (0,1 with free connectors for non-access insulation displacement terminations (ID) | EN 60603-13 | 1998 |
| | | Connectors for frequencies below 3 MHz for with printed boards - Part 14: Detail specifica for circular connectors for low-frequency a and video applications such as audio, video audio-visual equipment | EN 60603-14 | 1998 |
| | | Connectors for frequencies below 3 MHz for with printed boards - Part 2: Detail specifica for two-part connectors with assessed qu for printed boards, for basic grid of 2,54 mm in) with common mounting features | EN 60603-2 | 1998 |
| | | | + A1 | 2005 |
| | | Connectors for frequencies below 3 MHz for with printed boards - Part 3: Two-connectors for printed boards having cont spaced at 2,54 mm (0,1 in) centres staggered terminations at that same spacin | EN 60603-3 | 1998 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|----------------|-------------|
| | | Connectors for frequencies below 3 MHz for use with printed boards - Part 4: Two-part connectors for printed boards having contacts spaced at 1,91 mm (0,075 in) centres and staggered terminations at that same spacing | EN 60603-4 | 1998 |
| | | Connectors for frequencies below 3 MHz for use with printed boards - Part 5: Edge-socket connectors and two-part connectors for double-sided printed boards with 2,54 mm (0,1 in) spacing | EN 60603-5 | 1998 |
| | | Connectors for frequencies below 3 MHz for use with printed boards - Part 6: Edge-socket connectors and printed-board connectors with 2,54 mm (0,1 in) contact spacing for single or double-sided printed boards of 1,6 mm (0,063 in) nominal thickness | EN 60603-6 | 1998 |
| | | Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors | EN IEC 60603-7 | 2020 |
| | | Connectors for electronic equipment - Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors | EN 60603-7-1 | 2011 |
| | | Connectors for electronic equipment - Part 7-2: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 100 MHz | EN 60603-7-2 | 2010 |
| | | Connectors for electronic equipment - Part 7-3: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 100 MHz | EN 60603-7-3 | 2010 |
| | | Connectors for electronic equipment - Part 7-4: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz | EN 60603-7-4 | 2010 |
| | | Connectors for electronic equipment - Part 7-41: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz | EN 60603-7-41 | 2010 |
| | | Connectors for electronic equipment - Part 7-5: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz | EN 60603-7-5 | 2010 |
| | | Connectors for electronic equipment - Part 7-51: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz | EN 60603-7-51 | 2010 |
| | | Connectors for electronic equipment - Part 7-7: Detail specification for 8-way, shielded, free and fixed connectors for data transmission with frequencies up to 600 MHz | EN 60603-7-7 | 2010 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|-----------------------|--------------------------|
| | | Connectors for electronic equipment - Part 7- Detail specification for 8-way, shielded, free fixed connectors, for data transmission frequencies up to 1 000 MHz | EN 60603-7-71 | 2010 |
| | | Connectors for electronic equipment - Part 7- Detail specification for 8-way, shielded, free fixed connectors, for data transmissions frequencies up to 2 000 MHz | EN 60603-7-81 | 2016 |
| | | | + AC | 2017 |
| | | Connectors for electronic equipment - Part 7- Detail specification for 8-way, 12 contact shielded, free and fixed connectors, for transmission with frequencies up to 2 000 MHz | EN 60603-7-82 | 2016 |
| | | Connectors for frequencies below 3 MHz for with printed boards - Part 8: Two- connectors for printed boards, for basic grade 2,54 mm (0,1 in), with square male contact 0,63 mm x 0,63 mm | EN 60603-8 | 1998 |
| IEC 60662 (mod) | - | High pressure sodium vapour lamps | EN 60662 | 2012 |
| | | | + A11 | 2019 |
| IEC 60664-4 | 2005 | Insulation coordination for equipment within low voltage systems - Part 4: Consideration of high frequency voltage stress | EN 60664-4 | 2006 |
| IEC 60669-1 | - | Switches for household and similar fixed electrical installations – Part 1: General requirements | EN 60669-1 | 2018 |
| IEC 60669-2-1 | - | Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices | EN 60669-2-1 | 2021 |
| | | | + corrigendum Oct. | 2006 |
| IEC 60684 | all parts | Flexible insulating sleeving | EN 60684 | all parts (see below) |
| | | Flexible insulating sleeving - Part 1: Definition and general requirements | EN 60684-1 | 2003 |
| | | Flexible insulating sleeving - Part 2: Method of test | EN 60684-2 | 2011 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving Sheets 100 to 105: Extruded PVC sleeving | EN 60684-3-100 to 105 | 2001 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving Sheets 116 and 117: Extruded polychloroprene for general purpose | EN 60684-3-116 | 2011 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving Sheets 121 to 124: Extruded silicone sleeving | EN 60684-3-121 to 124 | 2001 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|-----------------------|-------------|
| | | Flexible insulating sleeving - Part 3: Specification for individual types of sleeving - Sheet 136: Extruded fluorosilicone sleeving - General purpose | EN 60684-3-136 | 1998 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheets 145 to 147: Extruded PTFE sleeving | EN 60684-3-145 to 147 | 2001 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 151: Extruded PVC/nitrile rubber - General purpose | EN 60684-3-151 | 1998 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 165: Extruded polyolefin, flame retarded, limited fire hazard sleeving | EN 60684-3-165 | 2004 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 205: Heat-shrinkable chlorinated polyolefin sleeving, flame retarded, nominal shrink ratio 1,7:1 and 2:1 | EN 60684-3-205 | 2011 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 209: Heat-shrinkable polyolefin sleeving, general purpose, flame retarded | EN 60684-3-209 | 2010 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 211: Heat-shrinkable sleeving, semi-rigid polyolefin, shrink ratio 2:1 | EN 60684-3-211 | 2007 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 212: Heat-shrinkable polyolefin sleeveings | EN 60684-3-212 | 2006 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 214: Heat-shrinkable, polyolefin sleeving, not flame retarded, thick and medium wall | EN IEC 60684-3-214 | 2019 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 216: Heat-shrinkable, flame-retarded, limited-fire-hazard sleeving | EN IEC 60684-3-216 | 2019 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 228: Heat-shrinkable, semi-rigid polyvinylidene fluoride sleeving, flame retarded, fluid resistant, shrink ratio 2:1 | EN 60684-3-228 | 2004 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 229: Heat-shrinkable semi-flexible, polyvinylidene fluoride sleeving, flame retarded, fluid resistant, shrink ratio 2:1 | EN 60684-3-229 | 2003 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--|-------------|--------------|-----------------------|-------------|
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 233: Heat-shrinkable fluoroelastomer sleeving, flame retarded, fluid resistant, ratio 2:1 | | | EN 60684-3-233 | 2006 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheets 240 to 243: Heat-shrinkable sleeving | | | EN 60684-3-240 to 243 | 2002 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 246: Heat-shrinkable polyolefin sleeving, dual wall, not flame retarded | | | EN 60684-3-246 | 2007 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 247: Heat-shrinkable, polyolefin sleeving, dual wall, not flame retarded, thick and medium wall | | | EN IEC 60684-3-247 | 2019 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 248: General purpose, heat-shrinkable sleeving, dual wall polyolefin sleeving, flame retarded, shrink ratios 2:1, 3:1, 4:1 | | | EN 60684-3-248 | 2007 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 271: Heat-shrinkable elastomer sleeving, flame retarded, fluid resistant, ratio 2:1 | | | EN 60684-3-271 | 2011 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 280: Heat-shrinkable, polyolefin sleeving, anti-tracking | | | EN IEC 60684-3-280 | 2019 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 281: Heat-shrinkable, polyolefin sleeving, semiconductive | | | EN 60684-3-281 | 2010 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 282: Heat-shrinkable, polyolefin sleeving - Stress control | | | EN 60684-3-282 | 2010 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 283: Heat-shrinkable, polyolefin sleeving for bus-bar insulation | | | EN IEC 60684-3-283 | 2019 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 284: Heat-shrinkable sleeve applications, barrier applications | | | EN 60684-3-284 | 2014 |
| Flexible insulating sleeving - Pa Specifications for individual types of sleeving Sheet 285: Heat-shrinkable polyolefin sleeving for medium voltage joint insulation | | | EN 60684-3-285 | 2014 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|-----------------------|-------------|
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 300: Glass textile fibre sleeving, braided, uncoated | EN 60684-3-300 | 2002 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 320: Polyethylene terephthalate textile sleeving, lightly impregnated | EN 60684-3-320 | 2002 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheets 340 to 342: Expandable braided polyethylene terephthalate textile sleeving | EN 60684-3-340 to 342 | 2003 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheets 343 to 345: Expandable braided ethylene chlorotrifluoroethylene (E-CTFE) textile sleeving, uncoated | EN 60684-3-343 to 345 | 2002 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheets 400 to 402: Glass textile sleeving with silicone elastomer coating | EN 60684-3-400 to 402 | 2002 |
| | | Flexible insulating sleeving - Part 3: Specification for individual types of sleeving - Sheets 403 to 405: Glass textile sleeving with acrylic based coating | EN 60684-3-403 to 405 | 2002 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheets 406 to 408: Glass textile sleeving with PVC coating | EN 60684-3-406 to 408 | 2003 |
| | | Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 409: Glass textile sleeving with polyurethane (PUR)-based coating | EN 60684-3-409 | 1999 |
| | | Flexible insulating sleeving - Part 3: Specification for individual types of sleeving - Sheets 420 to 422: Polyethylene terephthalate textile sleeving with acrylic based coating | EN 60684-3-420 to 422 | 2002 |
| IEC 60695-2-11 | - | Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT) | EN IEC 60695-2-11 | 2021 |
| IEC 60695-11-5 | - | Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance | EN 60695-11-5 | 2017 |
| IEC 60990 | - | Methods of measurement of touch current and protective conductor current | EN 60990 | 2016 |
| IEC 60998-2-1 | - | Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units | EN 60998-2-1 | 2004 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|----------------------|--------------|
| IEC 60998-2-2 | - | Connecting devices for low-voltage circuit household and similar purposes - Part 2- Particular requirements for connecting devices as separate entities with screwless-clamping units | EN 60998-2-2 | 2004 |
| IEC 61032 | 1997 | Protection of persons and equipment enclosures - Probes for verification | EN 61032 | 1998 |
| IEC 61051-2 | 2021 | Varistors for use in electronic equipment - 2: Sectional specification for surge suppression varistors | EN IEC 61051-2 | 2021 |
| IEC 61058-1 | 2016 | Switches for appliances -- Part 1: General requirements | EN 61058-1 | 2018 |
| IEC 61058-1-1 | - | Switches for appliances - Part 1-1: Requirements for mechanical switches | EN 61058-1-1 | 2016 |
| IEC 61058-1-2 | - | Switches for appliances - Part 1-2: Requirements for electronic switches | EN 61058-1-2 | 2016 |
| IEC 61058-2-1 | - | Switches for appliances - Part 2-1: Particular requirements for cord switches | EN 61058-2-1 | 2011 |
| IEC 61167 | - | Metal halide lamps | EN 61167 + A1 | 2018 2018 |
| IEC 61249 | all parts | Materials for printed boards and interconnecting structures | EN 61249 | all parts |
| IEC 61347 | all parts | Lamp controlgear | EN 61347 | all parts |
| IEC 61347-1 | 2015 | Lamp controlgear - Part 1: General and specific requirements | EN 61347-1 | 2015 |
| + A1 | 2017 | | + A1 | 2021 |
| IEC 61535 | 2023 | Installation couplers intended for permanent connection in fixed installations | EN IEC 61535 | 2019 |
| IEC 61558 | all parts | Safety of power transformers, power supply reactors and similar products | EN 61558 | all parts |
| IEC 61558-1 | 2017 | Safety of power transformers, power supply reactors and similar products -- Part 1: General requirements and tests | EN IEC 61558-1 | 2019 |
| IEC 61643-11 | - | Low-voltage surge protective devices - Part 11: Surge protective devices connected to voltage power systems - Requirements and test methods | EN 61643-11 + A11 | 2012 2018 |
| IEC 61643-331 | 2020 | Components for low-voltage surge protective devices - Part 331: Performance requirements and test methods for metal oxide varistors (MOV) | EN IEC 61643-331 | 2020 |
| IEC 61984 | 2008 | Connectors - Safety requirements and tests | EN 61984 | 2009 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|------------------|--------------------------|
| IEC 62133-2 | - | 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 2: Lithium systems | EN 62133-2 | 2017 |
| | | | + A1 | 2021 |
| | | | + AC | 2022 |
| IEC 62368-1 | 2018 | Audio/video, information and communication technology equipment - Part 1: Safety requirements | EN IEC 62368-1 | 2020 |
| IEC 62391-1 | - | Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification | EN IEC 61391-1 | 2022 |
| IEC 62391-2 | - | Fixed electric double-layer capacitors for use in electronic equipment - Part 2: Sectional specification - Electric double layer capacitors for power application | EN 62391-2 | 2006 |
| IEC 62471-7 | 2023 | Photobiological safety of lamps and lamp systems - Part 7: Light sources and luminaires primarily emitting visible radiation | EN IEC 62471-7 | 2023 |
| IEC 62493 | 2015 | Assessment of lighting equipment related to human exposure to electromagnetic fields | EN 62493 | 2015 |
| + A1 | 2022 | | + A1 | 2022 |
| IEC 62680 | all parts | Universal Serial Bus interfaces for data and power | EN 62680 | all parts (see below) |
| | | Universal serial bus interfaces for data and power - Part 1: Universal serial bus specification, revision 2.0 | EN 62680-1 | 2013 |
| | | Universal Serial Bus interfaces for data and power - Part 1-1: Universal Serial Bus interfaces - Common components - USB Battery Charging Specification, Revision 1.2 (TA 14) | EN 62680-1-1 | 2015 |
| | | Universal serial bus interfaces for data and power - Part 1-2: Common components - USB Power Delivery specification | EN IEC 62680-1-2 | 2022 |
| | | Universal serial bus interfaces for data and power - Part 1-3: Common components - USB Type-C® cable and connector specification | EN IEC 62680-1-3 | 2022 |
| | | Universal Serial Bus interfaces for data and power - Part 1-4: Common Components - USB Type-C™ Authentication Specification | EN IEC 62680-1-4 | 2018 |
| | | Universal serial bus interfaces for data and power - Part 1-5: Common components - USB Audio 3.0 device class definition | EN IEC 62680-1-5 | 2019 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|------------------|-------------|
| | | Universal serial bus interfaces for data and power - Part 1-6: Common components - Audio 3.0 device class definition basic function | EN IEC 62680-1-6 | 2019 |
| | | Universal serial bus interfaces for data and power - Part 1-7: Common components - Audio 3.0 device class definition data format | EN IEC 62680-1-7 | 2019 |
| | | Universal serial bus interfaces for data and power - Part 1-8: Common components - Audio 3.0 device class definition terminal connector | EN IEC 62680-1-8 | 2019 |
| | | Universal Serial Bus interfaces for data and power - Part 2-1: Universal Serial Bus Specification, Revision 2.0 (TA 14) | EN 62680-2-1 | 2015 |
| | | Universal Serial Bus interfaces for data and power - Part 2-2: Universal Serial Bus - Micro USB Cables and Connectors Specific Specification, Revision 1.01 (TA 14) | EN 62680-2-2 | 2015 |
| | | Universal Serial Bus interfaces for data and power - Part 2-3: Universal Serial Bus Cables and Connectors Class Document, Revision 1.01 (TA 14) | EN 62680-2-3 | 2015 |
| | | Universal serial bus interfaces for data and power - Part 3: USB battery charging specification, Revision 1.2 | EN 62680-3 | 2013 |
| | | Universal Serial Bus interfaces for data and power - Part 3-1: Universal Serial Bus Specification | EN 62680-3-1 | 2017 |
| | | Universal Serial Bus interfaces for data and power - Part 4-1: Universal Serial Bus Specification | EN IEC 62680-4-1 | 2022 |
| IEC/TR 62778 | 2014 | Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires | IEC/TR 62778 | 2014 |
| ISO 3864-1 | - | Graphical symbols – Safety colours and safety signs – Part 1: Design principles for safety signs and safety markings | ISO 3864-1 | 2011 |
| ISO 7000 | - | Graphical symbols for use on equipment | ISO 7000 | 2019 |
| ISO 8124-1 | 2022 | Safety of toys – Part 1: Safety aspects relating to mechanical and physical properties | ISO 8124-1 | 2022 |

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Annex ZZ (informative)

Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

| Safety objectives of Directive 2014/35/EU | Clause(s) / sub-clause(s) of this EN | Remarks / Notes |
|---|---|--|
| 1. General conditions | | |
| a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document; | Clause 6 | To be used in conjunction with relevant part 2 |
| b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected; | Clause 4 Clause 7 | To be used in conjunction with relevant part 2 |
| c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is assured, providing that the equipment is used in applications for which it was made and is adequately maintained. | See item 2 and 3 of this table | |
| 2. Protection against hazards arising from the electrical equipment Measures of a technical nature shall be laid down in accordance with point 1, in order to ensure that: | | |

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| Safety objectives of Directive 2014/35/EU | Clause(s) / sub-clause(s) of this EN | Remarks / Notes |
|--|--|--|
| a) persons and domestic animals adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact; | Clause 7 Clause 9 Clauses 16 and 17 Clause 8 Clause 10 Clause 13 Clause 12 | All to be used in conjunction with relevant part 2 |
| b) temperatures, arcs or radiation v would cause a danger, are not produced; | Clause 7 Clause 13 Clause 14 Clause 12 | All to be used in conjunction with relevant part 2 |
| c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the elec equipment which are revealed experience; | Clause 7 Clause 13 | All to be used in conjunction with relevant part 2 |
| d) the insulation is suitable for foreseeable conditions. | Clause 11 Clause 12 Clause 13 | All to be used in conjunction with relevant part 2 |
| 3. Protection against hazards which may be caused by external influences on the electrical equipment Technical measures shall be laid dov accordance with point 1, in order to ensure that the electrical equipment: | | |
| a) meets the expected mecha requirements in such a way that per: domestic animals and property are endangered; | Clause 6 Clause 7 | All to be used in conjunction with relevant part 2 |
| b) is resistant to non-mechanical influences in expected environmental condition such a way that persons, domestic animals and property are not endangered; | Clause 11 Clause 15 | All to be used in conjunction with relevant part 2 |
| c) does not endanger persons, dom animals and property in foresee conditions of overload. | Clause 7 Clause 14 Clause 15 | All to be used in conjunction with relevant part 2 |

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

CONTENTS

| | |
|---|----|
| FOREWORD..... | 12 |
| INTRODUCTION..... | 15 |
| 1 Scope..... | 16 |
| 2 Normative references | 16 |
| 3 Terms and definitions | 19 |
| 4 General requirements | 43 |
| 4.1 General..... | 43 |
| 4.2 General test requirements and verification | 43 |
| 4.3 Components of luminaires..... | 45 |
| 4.4 Information for luminaire design in light sources and controlgear standards | 46 |
| 5 Classification of luminaires | 46 |
| 5.1 General..... | 46 |
| 5.2 Classification according to the type of protection against electric shock | 46 |
| 5.3 Classification according to the degree of protection against ingress of dust, solid objects and moisture | 46 |
| 5.4 Classification according to the material of the mounting surface for which the luminaire is designed | 47 |
| 5.5 Classification according to the circumstances of use..... | 47 |
| 6 Marking | 47 |
| 6.1 General..... | 47 |
| 6.2 Marking on luminaires | 47 |
| 6.3 Information to be marked on luminaires | 49 |
| 6.4 Additional information | 58 |
| 6.5 Test of marking..... | 63 |
| 7 Construction | 64 |
| 7.1 General..... | 64 |
| 7.2 Replaceable components | 64 |
| 7.3 Wireways | 64 |
| 7.4 Lampholders | 64 |
| 7.5 Starterholders | 66 |
| 7.6 Terminal blocks..... | 66 |
| 7.7 Terminals and supply connections | 67 |
| 7.8 Switches | 69 |
| 7.9 Insulating linings and sleeves | 70 |
| 7.10 Double and reinforced insulation..... | 70 |
| 7.11 Electrical connections and current-carrying parts | 72 |
| 7.12 Screws, connections (mechanical) and glands | 74 |
| 7.13 Mechanical strength..... | 77 |
| 7.14 Suspensions, fixings and means of adjustment | 80 |
| 7.15 Flammable materials..... | 83 |
| 7.16 Luminaires for mounting on normally flammable surfaces | 85 |
| 7.17 Drain holes | 87 |
| 7.18 Resistance to corrosion | 87 |
| 7.19 Ignitors | 87 |
| 7.20 Rough service luminaires..... | 87 |
| 7.21 Protective shield | 89 |
| 7.22 Attachments to lamps..... | 90 |