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Luminaires - Part 2-20: Particular requirements - Lighting chains

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/15

Obsahuje: EN 60598-2-20:2015, IEC 60598-2-20:2014

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EN 60598-2-20

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2015

ICS 29.140.40

Supersedes EN 60598-2-20:2010

English Version

**Luminaires -
Part 2-20: Particular requirements - Lighting chains
(IEC 60598-2-20:2014)**

Luminaires -
Partie 2-20: Exigences particulières - Guirlandes
lumineuses
(IEC 60598-2-20:2014)

Leuchten -
Teil 2-20: Besondere Anforderungen - Lichterketten
(IEC 60598-2-20:2014)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 34D/1145/FDIS, future edition 4 of IEC 60598-2-20, prepared by SC 34D "Luminaires" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60598-2-20:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-09-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-12-30

This document supersedes EN 60598-2-20:2010.

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 60598-2-20:2014 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60598-2-21 NOTE Harmonized as EN 60598-2-21.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|---------------|-------------|
| IEC 60227-5 | 2011 | Polyvinyl chloride insulated cables of rated - voltages up to and including 450/750 V - Part 5: Flexible cables (cords) | - | - |
| IEC 60238 | - | Edison screw lampholders | EN 60238 | - |
| IEC 60245-4 | 2011 | Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables | - | - |
| IEC 60320 | Series | Appliance couplers for household and similar general purposes | EN 60320 | Series |
| IEC 60529 | - | Degrees of protection provided by enclosures (IP Code) | EN 60529 | - |
| IEC 60598-1 | - | Luminaires - Part 1: General requirements and tests | EN 60598-1 | - |
| IEC 60906 | Series | IEC system of plugs and socket-outlets for household and similar purposes | - | - |
| IEC 61184 | - | Bayonet lampholders | EN 61184 | - |
| IEC 61347-2-11 | - | Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires | EN 61347-2-11 | - |
| IEC 61347-2-13 | - | Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules | EN 61347-2-13 | - |
| IEC 61984 | 2008 | Connectors - Safety requirements and tests | EN 61984 | 2009 |
| ISO 4046-4 | 2002 | Paper, board, pulps and related terms - Vocabulary - Part 4: Paper and board grades and converted products | - | - |



INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Luminaires –
Part 2-20: Particular requirements – Lighting chains**

**Luminaires –
Partie 2-20: Exigences particulières – Guirlandes lumineuses**





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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Luminaires –
Part 2-20: Particular requirements – Lighting chains**

**Luminaires –
Partie 2-20: Exigences particulières – Guirlandes lumineuses**

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CONTENTS

| | |
|--|----|
| FOREWORD..... | 4 |
| 20.1 Scope..... | 6 |
| 20.2 Normative references..... | 6 |
| 20.3 Terms and definitions | 7 |
| 20.4 General test requirements..... | 7 |
| 20.5 Classification of luminaires | 7 |
| 20.5.1 General..... | 7 |
| 20.5.2 Protection against electric shock | 7 |
| 20.5.3 Protection against dust, solid objects and moisture | 8 |
| 20.6 Marking | 8 |
| 20.6.1 General..... | 8 |
| 20.6.2 Lighting chain marking..... | 8 |
| 20.6.3 Lighting chain and packing marking | 8 |
| 20.6.4 Packing or instruction marking..... | 8 |
| 20.7 Construction | 9 |
| 20.7.1 General..... | 9 |
| 20.7.2 Lampholders | 9 |
| 20.7.3 Terminal blocks..... | 10 |
| 20.7.4 Terminals and supply connections | 10 |
| 20.7.5 Gaskets | 10 |
| 20.7.6 Mechanical strength | 10 |
| 20.7.7 Lamp bridging devices..... | 10 |
| 20.7.8 Control units..... | 10 |
| 20.7.9 Lamp rotation | 11 |
| 20.7.10 Lamp insertion/withdrawal force..... | 11 |
| 20.7.11 Lamp mechanical requirements | 11 |
| 20.8 Creepage distances and clearances..... | 12 |
| 20.9 Provisions for earthing | 12 |
| 20.10 Terminals | 12 |
| 20.11 External and internal wiring | 12 |
| 20.11.1 General..... | 12 |
| 20.11.2 Cables for lighting chains | 12 |
| 20.11.3 Cord anchorage test..... | 13 |
| 20.11.4 Plugs and cable length | 13 |
| 20.11.5 Maximum length of extendable class II lighting chains..... | 13 |
| 20.12 Protection against electric shock..... | 13 |
| 20.12.1 General..... | 13 |
| 20.12.2 Divisible plug..... | 13 |
| 20.12.3 Electrification of decorations..... | 14 |
| 20.12.4 Contacts of push-in lampholders..... | 14 |
| 20.12.5 Blanking plugs..... | 15 |
| 20.13 Endurance tests and thermal tests | 15 |
| 20.13.1 General..... | 15 |
| 20.13.2 Test voltage | 15 |
| 20.13.3 Lamp bridging devices..... | 16 |

| | | |
|---------------------|--|----|
| 20.13.4 | Short-circuit test of rectifier | 16 |
| 20.14 | Resistance to dust, solid objects and moisture | 16 |
| 20.15 | Insulation resistance and electric strength | 16 |
| 20.16 | Resistance to heat, fire and tracking | 17 |
| Annex A (normative) | Requirements for interconnecting connectors for use in lighting chains | 18 |
| Bibliography | | 20 |
| Figure 1 | – Example of a connector to a divisible plug for lighting chains..... | 14 |
| Figure 2 | – Example of test device suitable for checking security of lampholder contacts | 15 |
| Table 1 | – Cables for lighting chains | 12 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –

Part 2-20: Particular requirements – Lighting chains

FOREWORD

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International Standard IEC 60598-2-20 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

This fourth edition cancels and replaces the third edition (2010).

This edition includes the following significant technical changes with respect to the previous edition, where the requirements for rope lights (sealed lighting chains) have been removed and are now dealt with in IEC 60598-2-21.

The text of this standard is based on the following documents:

| FDIS | Report on voting |
|---------------|------------------|
| 34D/1145/FDIS | 34D/1153/RVD |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard is intended to be read in conjunction with IEC 60598-1 Luminaires – Part 1: General requirements and tests.

In this standard, the following print types are used:

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

A list of all the parts in the IEC 60598 series, published under the general title *Luminaires* can be found on the IEC website.

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

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

LUMINAIRES –

Part 2-20: Particular requirements – Lighting chains

20.1 Scope

This part of IEC 60598 specifies requirements for lighting chains fitted with series, parallel or a combination of series/parallel connected light sources for use either indoors or outdoors on supply voltages not exceeding 250 V.

For combinations where rope lights (also known as sealed lighting chains) are included, see IEC 60598-2-21.

Lighting chains provided with fixed or detachable attachments e.g. ornamental or decorative, are considered to be covered by this standard.

For lighting chains fitted with lampholders of the push-in type, the appropriate requirements of this standard applies.

NOTE 1 A Christmas tree lighting chain is an example of a lighting chain fitted with series or series/parallel connected lamps. A chain for illuminating ski-tracks or promenades is an example of a lighting chain fitted with parallel connected lamps.

For lighting chains with non-standardised lamps (e.g. lamps of the push-in type) the lamps are regarded as a part of the lighting chain and consequently included in the testing.

NOTE 2 For products where the lighting chain is permanently fixed to a frame or pre-lit Christmas tree the relevant clauses of IEC 60598-2-4 and/or IEC 60598-2-7 can also apply.

NOTE 3 In some countries the term "strings" is used instead of "chains".

NOTE 4 Candlestick luminaires are tested according to IEC 60598-2-4.

20.2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60227-5:2011, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 5: Flexible cables (cords)*

IEC 60238, *Edison screw lampholders*

IEC 60245-4:2011, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 4: Cords and flexible cables*

IEC 60320 (all parts), *Appliance couplers for household and similar general purposes*

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

IEC 60598-1, *Luminaires – Part 1: General requirements and tests*

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– 7 –

IEC 60906 (all parts), *IEC System of plugs and socket-outlets for household and similar purposes*

IEC 61184, *Bayonet lampholders*

IEC 61347-2-11, *Lamp controlgear – Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires*

IEC 61347-2-13, *Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules*

IEC 61984:2008, *Connectors – Safety requirements and tests*

ISO 4046-4:2002, *Paper, board, pulps and related terms – Vocabulary – Part 4: Paper and board grades and converted products*

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