SLOVENSKI

STANDARD

SIST EN 60598-2-20:1999/A2:2004

september 2004

Svetilke – 2-20. del: Posebne zahteve - Svetlobni nizi (IEC 60598-2-20:1996/A2:2002, spremenjen)

Luminaires - Part 2-20: Particular requirements - Lighting chains (IEC 60598-2-20:1996/A2:2002, modified)

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<u>SIST EN 60598-2-20:1999/A2:2004</u> https://standards.iteh.ai/catalog/standards/sist/b17f8424-5859-498c-b3ae-7be77db3e72d/sist-en-60598-2-20-1999-a2-2004

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EUROPEAN STANDARD

EN 60598-2-20/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2004

ICS 29.140.40

English version

Luminaires Part 2-20: Particular requirements -Lighting chains (IEC 60598-2-20:1996/A2:2002, modified)

Luminaires Partie 2-20: Règles particulières -Guirlandes lumineuses (CEI 60598-2-20:1996/A2:2002, modifiée) Leuchten Teil 2-20: Besondere Anforderungen -Lichtketten (IEC 60598-2-20:1996/A2:2002, modifiziert)

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SIST EN 60598-2-20:1999/A2:2004

This amendment A2 modifies the European Standard EN 60598-2-20:1997; it was approved by CENELEC on 2004-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 Central Secretariat or to any CENELEC member.

This amendment 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of amendment 2:2002 to the International Standard IEC 60598-2-20:1996, prepared by SC 34D, Luminaires, of IEC TC 34, Lamps and related equipment, together with the common modifications prepared by the Technical Committee CENELEC TC 34Z, Luminaires and associated equipment, was submitted to the formal vote and was approved by CENELEC as amendment A2 to EN 60598-2-20:1997 on 2004-02-01.

The following dates were fixed:

-	latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2005-02-01
_	latest date by which the national standards conflicting		

with the amendment have to be withdrawn

(dow) 2011-02-01

Annexes ZA and ZB have been added by CENELEC.

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Endorsement notice

The text of amendment 2:2002 to the International Standard IEC 60598-2-20:1996 was approved by CENELEC as an amendment to the European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

20.1 Scope

20.1.1 Replace "IEC 238:1991" by "IEC 60238:1998".

20.5 Marking

- **20.5.1** Amend item b), 2) to commence as follows:
 - 2) for series-connected lamps other than those in sealed chains, replace ...

Item e), **replace** the note by:

NOTE For the purpose of this subclause, a fused lamp is a lamp designed so as to break the circuit in the event of an overload either by means of a separate fuse incorporated within the lamp or by any other means e.g. a special filament. Such fuses or special filaments are not considered integral components (see 0.5.1 of EN 60598-1).

20.6 Construction iTeh STANDARD PREVIEW

20.6.1 Replace the text of this subclause by standards.iteh.ai)

Edison screw lampholders E14 and E27 shall meet the requirements of EN 60238:1998. <u>SIST EN 60598-2-20:1999/A2:2004</u>

Edison screw lampholders E5 and E10 and similar small lampholders of the push-in type shall meet the appropriate requirements of EN 60238:1998 as modified by Annex ZB.

Edison screw lampholders larger than E10 with non-metallic screw threads shall meet the requirements of 12.1 of EN 60238:1998.

NOTE E10 and small lampholders may have screw threads of insulating material.

In lighting chains fitted with parallel connected lamps, E27 and B22 lampholders with insulation piercing contacts shall meet the requirements of this section. In addition, E27 lampholders with insulation piercing contacts shall meet the requirements of 12.1 of EN 60238:1998.

Bayonet lampholders shall meet the requirements of IEC 61184.

In lighting chains where non-standardized lamps (e.g. lamps of the push-in type) are used, the lamps are regarded as parts of the lighting chain and tested accordingly.

20.6.6 Replace the text of this subclause by:

Compliance with the mechanical strength requirements of 4.13 of EN 60598-1 for E14 and E27 lampholders incorporated in lighting chains shall be checked by the tests given in Clause 15 of EN 60238:1998.

E5 and E10 and similar small lampholders of push-in type shall be checked by the tests given in Clause 15 of EN 60238:1998 as modified by Annex ZB.

The tests are made on three samples of the lampholder without lamps inserted. After the test, the relevant compliance requirements of 4.13 of EN 60598-1 shall be met.

20.7 Creepage distances and clearances

Replace the text of this subclause by:

The provisions of Section 11 of EN 60598-1 apply except that

- for Edison screw lampholders E10, E14 and E27, Clause 17 of EN 60238:1998/A1:1999 applies,
- for Edison screw lampholders E5 and similar small lampholders of push-in type, Clause 17 of EN 60238:1998 and EN 60238:1998/A1:1999, as modified by Annex ZB, applies.

20.10 External and internal wiring

20.10.1 Replace the text of this subclause by:

Subclause 5.2.2 of EN 60598-1 does not apply. Internal and external cables of lighting chains, sealed chains and external cables of sealed chains shall not be lighter than the following:

-	for ordinary lighting chains using series-connected lampholders	H03VH7-H
-	for Class II ordinary lighting chains using parallel-connected lampholders	H03VV-F or H03VVH2-F
-	for Class III lighting chains using parallel-connected lampholders and with a maximum rated wattage exceeding 50 WEVIEW	H03VVH2-F
-	for other lighting chains using series-connected lampholders	H03RN-F (see NOTE) (HD 22.8)
-	for other lighting chains using parallel-connected/lampholders https://standards.iteh.ai/catalog/standards/sist/b17f8424-5859-498c-b3ae- 7be77db3e72d/sist-en-60598-2-20-1999-a2-2004	H05RNH2-F or H05RN-F (HD 22.4 and HD 22.8)
-	for other lighting chains where the length of cable between the supply plug and the nearest lampholder exceeds 3 m for that part of the cable	H07RN-F

NOTE HO3RN-F is only suitable for use with the following lampholders: E5, E10, E14 and B15 or similar miniaturised (small) lampholders.

Internal and external cables of Class III lighting chains with a maximum rated wattage not exceeding 50 W and the internal conductors of sealed chains may have a cross-sectional area of less than 0,4 mm² provided that the current-carrying capacity and mechanical properties are adequate. For sealed chains class III chains, conductors without insulation are accepted, provided adequate precautions have been taken to ensure compliance with requirements of 5.3.1 of EN 60598-1.

Compliance is checked by inspection, measurement and by calculation.

The nominal cross-sectional area of the conductors for the cables listed above shall be not less than one of the following values:

- a) 0,5 mm² for lighting chains with E5 or E10 lampholders or similar small lampholders of push-in type;
- b) 0,75 mm² for lighting chains with E14, E27, B15 or B22 lampholders and fitted with seriesconnected lamps;
- c) 1,5 mm² for lighting chains with E14, E27, B15 or B22 lampholders and fitted with parallel connected lamps.

20.15 Resistance to heat, fire and tracking

Replace the text of this subclause by:

The provisions of Section 13 of EN 60598-1 apply except that

- for flexible pipes of sealed chains, the test of 13.2.1 is replaced by the test of Clause 8 of EN 60811-3-1,
- for lampholders, the tests of Clause 13 are replaced by the tests of
 - for E14 and E27 lampholders
- Clause 20 of EN 60238,
- for E5 and E10 and similar lampholders Clause 20 of EN 60238 modified by Annex ZB. of the push-in type
- Figure 1 Delete and substitute "Not used".

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Annex ZA

(normative)

Normative references to international publications With their corresponding European publications

The following referenced documents are indispensable for the application 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 Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	<u>EN/HD</u>	<u>Year</u>
IEC 60083	1975	Plugs and socket-outlets for domestic and similar general use – Standards		
IEC 60227 (mod)	Series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	HD 21	Series
IEC 60238 A1 A2	1998 1999 2002	Edison screw lampholders	EN 60238 A1 A2	1998 1999 2002
IEC 60245 (mod)	Series I	Rubber-insulated cables of rated voltages up to and including 450/750 V States and including 450/750 V	HD 22	Series
IEC 60320 (mod)	1981	Appliance couplers for household and similar general purposes 60598-2-20:1999/A2:2004	EN 60320-1 ¹⁾	1987
IEC 60598-1 (mod)	https:/ Sliding latest edition	/standards, itch.ai/catalog/standards/sist/b17f8424-5859- Luminaires 702/103e72d/sist-en-60598-2-20-1999-a2-2004 Part 1: General requirements and tests		Sliding latest edition
IEC 60811-3-1 + corr. May	1985 1986	Insulating and sheathing materials of electric and optical cables – Common test methods Part 3-1: Methods specific to PVC compounds - Pressure test at high temperature – Tests for resistance to cracking	EN 60811-3-1	1995
IEC 61184	_ 2)	Bayonet lampholders	EN 61184	1997 ³⁾
IEC 61347-1	2000	Lamp controlgear Part 1: General and safety requirements	EN 61347-1	2001
IEC 61347-2-11	2001	Lamp controlgear Part 2-11 Particular requirements for miscellaneous electronic circuits used with luminaries	EN 61347-2-11	2001
CISPR 14-1 A1	1993 1996	Electromagnetic compatibility - Requirements for household appliances, electric tools and	EN 55014-1 ⁴⁾	1993
+ corr. January A2	1997 1998	similar apparatus Part 1: Emission - Product family standard	A1 A2	1997 1999

¹⁾ EN 60320-1 is superseded by EN 60320-1:2001, which is based on IEC 60320-1:2001.

²⁾ Undated reference.

³⁾ Valid edition at date of issue.

⁴⁾ EN 55014-1 and its amendments are superseded by EN 55014-1:2000, which is based on CISPR 14-1:2000.

Annex ZB

(normative)

Requirements for Edison screw lampholders E5 and E10 and similar small lampholders of the push-in type

This annex consists of modifications to EN 60238:1998 + A1:1999 + A2:2002 to cover Edison screw lampholders E5 and E10 and similar small lampholders of push-in type.

<u>Subclause 1.1</u> Add at the end of the third paragraph:

It also applies to push-in lampholders, where applicable.

Subclause 9.1 In line 1 of the test specification add "E5 and" before "E10".

<u>Subclause 15.9</u> **Replace** the second paragraph of the test by:

The backplate of lampholders shall be fixed by means of screws to a rigid flat steel sheet as follows:

- 3 mm screws for lampholders E10;
- 4 mm for lampholders other than E10.

This sheet shall have two drilled and tapped holes at a distance equal to the distance between the axes of the fixing holes of the backplate. The screws shall be gradually tightened, the maximum torque applied being

- 0,5 Nm for 3 mm screws, and
- 1,2 Nm for 4 mm screws Teh STANDARD PREVIEW

These requirements do not apply to lampholders 55 ds.iteh.ai)

<u>SIST EN 60598-2-20:1999/A2:2004</u> https://standards.iteh.ai/catalog/standards/sist/b17f8424-5859-498c-b3ae-7be77db3e72d/sist-en-60598-2-20-1999-a2-2004