



# SLOVENSKI STANDARD

## SIST EN 61184:2008

01-december-2008

BUXca Yý U

SIST EN 61184:1999

SIST EN 61184:1999/A1:2003

SIST EN 61184:1999/A2:2005

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### Bajonetni okovi za žarnice in sijalke (IEC 61184:2008)

Bayonet lampholders (IEC 61184:2008)

Bajonett-Lampenfassungen (IEC 61184:2008)

Douilles à baïonnette (CEI 61184:2008)

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Ta slovenski standard je istoveten z: **EN 61184:2008**

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#### **ICS:**

29.140.10      Grla in držala žarnic      Lamp caps and holders

**SIST EN 61184:2008**

**en,fr**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61184**

September 2008

ICS 29.140.10

Supersedes EN 61184:1997 + A1:2001 + A2:2004

English version

**Bayonet lampholders**  
(IEC 61184:2008)

Douilles à baïonnette  
(CEI 61184:2008)

Bajonett-Lampenfassungen  
(IEC 61184:2008)

This European Standard was approved by CENELEC on 2008-08-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

## Foreword

The text of document 34B/1385/FDIS, future edition 3 of IEC 61184, prepared by SC 34B, Lamp caps and holders, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61184 on 2008-08-01.

This European Standard supersedes EN 61184:1997 + A1:2001 + A2:2004.

The significant technical changes with respect to EN 61184:1997 are as follows:

In EN 61184:2008, information to lampholders intended to be used in applications where they are accessible in normal use (class II as well as class I luminaires) are introduced. Additionally, in Table 11, lamp data where lamps no longer exist has been removed and requirements for shade holder rings have been amended to include shade rings according to EN 60399 into testing.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-08-01

In this standard, the following print types are used:

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

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61184:2008 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 standards indicated:

IEC 60061-4	NOTE	Harmonized as EN 60061-4:1992 (modified).
IEC 60238	NOTE	Harmonized as EN 60238:2004 (not modified).
IEC 61058-1	NOTE	Harmonized as EN 61058-1:2002 (modified).

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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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60061 (mod)	Series	Lamp caps and holders together with gauges for the control of interchangeability and safety	EN 60061	Series
IEC 60061-1 (mod)	- <sup>1)</sup>	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps	EN 60061-1	1993 <sup>2)</sup>
IEC 60061-2 (mod)	- <sup>1)</sup>	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders	EN 60061-2	1993 <sup>2)</sup>
IEC 60061-3 (mod)	- <sup>1)</sup>	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 3: Gauges	EN 60061-3	1993 <sup>2)</sup>
IEC 60064 (mod)	- <sup>1)</sup>	Tungsten filament lamps for domestic and similar general lighting purposes - Performance requirements	EN 60064 + A11	1995 <sup>2)</sup> 2007
IEC 60068-2-75	1997	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997
IEC 60112	2003	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	2003
IEC 60227 (mod)	Series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	- <sup>3)</sup>	-
IEC 60245 (mod)	Series	Rubber insulated cables - Rated voltages up to and including 450/750 V	- <sup>4)</sup>	-
IEC 60399	- <sup>1)</sup>	Barrel thread for lampholders with shade holder ring	EN 60399	2004 <sup>2)</sup>
IEC 60417	Data base	Graphical symbols for use on equipment	-	-
IEC 60432 (mod)	Series	Incandescent lamps - Safety specifications	EN 60432	Series

<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

<sup>3)</sup> The HD 21 series, which is related to, but not directly equivalent with the IEC 60227 series, applies instead.

<sup>4)</sup> The HD 22 series, *Cables of rated voltages up to and including 450/750 V and having cross-linked insulation*, which is related to, but not directly equivalent with the IEC 60245 series, applies instead.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60598-1 (mod)	- <sup>1)</sup>	Luminaires - Part 1: General requirements and tests	EN 60598-1	200X <sup>5)</sup>
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2007
IEC 60695-2-11	2000	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	EN 60695-2-11	2001
IEC 60695-11-5	2004	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005
ISO 4046-4	2002	Paper, board, pulps and related terms - Vocabulary - Part 4: Paper and board grades and converted products	-	-

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<sup>5)</sup> To be ratified.



IEC 61184

Edition 3.0 2008-07

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Bayonet lampholders** **STANDARD PREVIEW**  
**Douilles à baïonnette** **(standards.iteh.ai)**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## BAYONET LAMP HOLDERS

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61184 has been prepared by subcommittee 34B: Lamp caps and holders, of IEC technical committee 34: Lamps and related equipment.

This third edition cancels and replaces the second edition (1997) and its Amendments 1 (2000) and 2 (2004). This third edition constitutes a technical revision.

In this edition, information to lampholders intended to be used in applications where they are accessible in normal use (class II as well as class I luminaires) are introduced. Additionally, in Table 11, lamp data where lamps no longer exist has been removed and requirements for shade holder rings have been amended to include shade rings according to IEC 60399 into testing.

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

FDIS	Report on voting
34B/1385/FDIS	34B/1401/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.

In this standard, the following print types are used:

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

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

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## INTRODUCTION

This standard covers safety requirements for bayonet lampholders and includes references to IEC 60061 for the control of interchangeability and safety of the cap and holder fit.

NOTE Safety requirements ensure that electrical equipment constructed in accordance with these requirements does not endanger the safety of persons, domestic animals or property when properly installed and maintained and used in applications for which it was intended.

The thermal characteristics of lampholders are specified by the rated operating temperature (symbol T), which is the highest temperature for which the lampholder is designed. The temperature rating and the resistance to heat specified in this standard are based on two different principles, as presently found in IEC 60238 for Edison screw lampholders and in other national standards for bayonet lampholders. After experience, it may be possible to rationalize the systems in future editions of this standard.

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## BAYONET LAMPHOLDERS

### 1 General

#### 1.1 Scope

This International Standard applies to bayonet lampholders B15d and B22d for connection of lamps and semi-luminaires to a supply voltage of 250 V.

This standard also covers lampholders which are integral with a luminaire or intended to be built into appliances. It covers the requirements for the lampholder only.

For all other requirements, such as protection against electric shock in the area of the terminals, the requirements of the relevant appliance standard shall be observed and tested after building into the appropriate equipment, when that equipment is tested according to its own standard. Lampholders for use by luminaire manufacturers only are not for retail sale.

NOTE Where lampholders are used in luminaires, their maximum operating temperatures are specified in IEC 60598-1.

B15 denotes the cap/holder fit as defined by IEC 60061-1, sheet 7004-11 and IEC 60061-2, sheet 7005-16 with the corresponding gauges.

B22 denotes the cap/holder fit as defined by IEC 60061-1, sheet 7004-10 and IEC 60061-2, sheet 7005-10 with the corresponding gauges.

#### 1.2 Normative references

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.

IEC 60061 (all parts), *Lamp caps and holders together with gauges for the control of interchangeability and safety*

IEC 60061-1, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps*

IEC 60061-2, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders*

IEC 60061-3, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges*

IEC 60064, *Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements*

IEC 60068-2-75:1997, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60112:2003, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

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

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

IEC 60399, *Barrel thread for lampholders with shade holder ring*

IEC 60417, *Graphical symbols for use on equipment*

IEC 60432 (all parts), *Incandescent lamps – Safety specifications*

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

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

IEC 60664-1:2007, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 60695-2-11:2000, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products*

IEC 60695-11-5:2004, *Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance*

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

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## 2 Terms and definitions

SIST EN 61184:2008

For the purposes of this document, the following terms and definitions apply.

NOTE For clarification of some definitions, see also Figure 4.

### 2.1 Materials

#### 2.1.1

##### **plastic lampholder**

lampholder, the exterior of which is made wholly of plastic material

NOTE The exterior is any part of the lampholder which, when wired and fully assembled and fitted with the testing device shown in Figure 7, can be touched directly by the standard test finger of IEC 60529.

#### 2.1.2

##### **ceramic lampholder**

lampholder, the exterior of which is made wholly of ceramic material (see note to 2.1.1)

#### 2.1.3

##### **metal lampholder**

lampholder, the exterior of which is made wholly or partly of metal (see note to 2.1.1)

### 2.2 Means of fixing

#### 2.2.1

##### **cord grip lampholder**

lampholder incorporating a method of retaining a flexible cord by which it may be suspended (see Figure 4a)

**2.2.2****threaded entry lampholder**

lampholder incorporating a threaded component at the point of entry of the supply wires permitting the lampholder to be mounted on a mating threaded support (formerly called nipple lampholder) (see Figure 4b)

**2.2.3****backplate lampholder**

lampholder so designed as to be suitable for mounting, by means of an associated or integral backplate, directly on to a supporting surface or appropriate box (see Figure 4c)

**2.3****terminal/contact assembly**

part or assembly of parts which provides a means of connection between the termination of a supply conductor and the contact-making surfaces of the corresponding lamp cap as well as resilient means to maintain contact pressure

- a) rising type, where the terminal is allowed to rise parallel with the lamp axis on insertion of a lamp cap;
- b) non-rising type, where the terminal is not allowed to rise on insertion of a lamp cap

NOTE The terminal and the barrel may be a unique element.

**2.4****union ring**

cylindrical component which joins together separate external parts of the lampholder

**2.5****shade ring**

cylindrical component having an internal thread or other means to engage a corresponding support on the outer shell and intended to carry or retain a shade

**2.6****skirt** (plastic lampholders only)

component similar to a shade ring but having a longer cylindrical form to extend to the full length of the lampholder body

**2.6.1****protective shield** (plastic lampholders only)

component similar to a skirt but having a flared open end to protect the user from accidental contact with the lamp cap (see Figure 9)

**2.7****dome**

part of a cord grip lampholder or threaded entry lampholder which shields the connecting terminals

**2.8****barrel**

part of a lampholder which serves for mechanical connection of the lamp cap with the lampholder

**2.9****lampholder for building-in**

lampholder designed to be built into a luminaire, an additional enclosure or the like