



SLOVENSKI STANDARD

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Vznožki in okovi sijalk skupaj s kalibri za nadzorovanje izmenljivosti in varnosti – 1. del: Vznožki sijalk

Lamp caps and holders together with gauges for the control of interchangeability and safety -- Part 1: Lamp caps

Lampensockel und -fassungen sowie Lehren zur Kontrolle der Austauschbarkeit und Sicherheit -- Teil 1: Lampensockel

Culots de lampes et douilles ainsi que calibres pour le contrôle de l'interchangeabilité et de la sécurité -- Partie 1: Culots de lampes

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Ta slovenski standard je istoveten z: **EN 60061-1:1993**

ICS:

29.140.10 Grla in držala žarnic Lamp caps and holders

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EUROPEAN STANDARD

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March 1993

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Supersedes HD 65.1 S1:1978

Descriptors: Lighting equipment, lamp cap, interchangeability, safety

ENGLISH VERSION

**Lamp caps and holders together with gauges for
the control of interchangeability and safety
Part 1: Lamp caps**
(IEC 61-1:1969 + supplements A:1970 to N:1992,
modified)

**Culots de lampes et douilles
ainsi que calibres pour le
contrôle de l'interchangea-
bilité et de la sécurité**
Première partie: Culots de
lampes

(CEI 61-1:1969 + compléments
A:1970 à N:1992, modifiée)

**Lampensockel und -fassungen
sowie Lehren zur Kontrolle der
Austauschbarkeit und Sicherheit**
Teil 1: Lampensockel

(IEC 61-1:1969 + Ergänzungen
A:1970 bis N:1992, modifiziert)

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This European Standard was approved by CENELEC on 1993-03-09.

CENELEC members are bound to comply with the 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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

This European Standard based on the International Standard IEC 61-1:1969 + supplements A:1970 to N:1992 along with common modifications was prepared by CENELEC Technical Committee TC 34Z, Luminaires and associated equipment.

NOTE: IEC 61-1:1969 + supplements A:1970 to K:1983 were published as a consolidated edition.

It was submitted to the CENELEC Unique Acceptance Procedure (UAP) in May 1992 and was approved by CENELEC as EN 60061-1 on 9 March 1993.

This European Standard supersedes HD 65.1 S1:1978.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-03-01
- latest date of withdrawal of conflicting national standards (dow) 1994-03-01

For products which have complied with HD 65.1 S1:1978 before 1994-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1999-03-01.

Endorsement notice

The text of the International Standard IEC 61-1:1969 and its supplements A:1970 to N:1992 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

Standard Sheet	Common modification
7004-6-1	Delete this sheet
7004-21A-1	Delete this sheet
7004-24A-1	Delete this sheet
7004-26-1	Delete this sheet
7004-28-1	Delete this sheet

Add the following note:

[SIST EN 60061-1:1999](https://standards.iteh.ai/catalog/standards/sist/63dc1cd4-5bbf-4580-8628-9261-1999)

[https://standards.iteh.ai/catalog/standards/sist/63dc1cd4-5bbf-4580-8628-](https://standards.iteh.ai/catalog/standards/sist/63dc1cd4-5bbf-4580-8628-9261-1999)

Attention is drawn to the fact that lamp caps and lampholders with designation P29t, PY43d and PZ43t [standard sheets 7004-66, 7004-88, 7004-89, 7005-66, 7005-88, 7005-89, 7006-88, 7006-88A and 7006-89] are not listed in ECE Regulation 37'.

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**Culots de lampes et douilles ainsi que calibres pour le contrôle
de l'interchangeabilité et de la sécurité**

Première partie: Culots de lampes
iTeh STANDARD PREVIEW
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**Lamp caps and holders together with gauges for the control
of interchangeability and safety**

Part 1: Lamp caps



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CULOTS DE LAMPES ET DOUILLES
AINSI QUE CALIBRES POUR LE
CONTRÔLE DE L'INTERCHANGEA-
BILITÉ ET DE LA SÉCURITÉ

Première partie: Culots de lampes

LAMP CAPS AND HOLDERS
TOGETHER WITH GAUGES FOR THE
CONTROL OF INTERCHANGEABILITY
AND SAFETY

Part 1: Lamp caps

INTRODUCTION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LAMP CAPS AND HOLDERS TOGETHER WITH GAUGES FOR THE CONTROL OF INTERCHANGEABILITY AND SAFETY

Part 1: Lamp caps

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote this international unification, the IEC expresses the wish that all National Committees having as yet no national rules, when preparing such rules, should use the IEC recommendations as the fundamental basis for these rules in so far as national conditions will permit.
- 4) The desirability is recognized of extending international agreement on these matters through an endeavour to harmonize national standardization rules with these recommendations in so far as national conditions will permit. The National Committees pledge their influence towards that end.

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SIST EN 60061-1 PREFACE

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Third Edition, 1969

This Publication has been prepared by Sub-Committee 34B: Lamp Caps and Holders, of IEC Technical Committee No. 34: Lamps and Related Equipment. It contains the recommendations of the IEC in regard to Lamp Caps and Holders in general use today, together with relevant gauges, with the object of securing International interchangeability. The gauges illustrated, although generally accepted in principle, are not necessarily the only form in which they can be made.

In view of the increased number of Standard Sheets contained in Publication 61, the opportunity has been taken, at the issue of this third edition, to split the single Publication into three parts, each part covering a single group. The separate parts are numbered 61-1, 61-2 and 61-3 and deal with lamp caps, lampholders, and gauges respectively.

Each part is dependent upon the other and a given part should always be studied in conjunction with the other parts.

Part 1 (IEC Publication 61-1) contains the Introduction to the Publication as a whole, and the Standard Sheets for Lamp Caps.

Part 2 (IEC Publication 61-2) contains the Standard Sheets for Lampholders.

Part 3 (IEC Publication 61-3) contains the Standard Sheets for Gauges.

As was done in the case of the two earlier editions, supplements containing new and revised sheets will be issued from time to time as IEC work on this subject progresses.

In order to facilitate use, each part contains a dated Contents list of the sheets included in that part. A revised Contents list will be issued at the same time as each future supplement.

IEC work on Lamp Caps and Holders, and Gauges, dates back to 1925, when an Advisory Committee (No. 6) for the standardization of Lamp Caps and Holders was appointed with the object of securing International interchangeability. In this work Advisory Committee No. 6 profited by the active co-operation of the Independent Committee on Standardization of Lamp Caps and Holders (INDECO) up to May 1939. During the war years, 1939-1945, no meetings could be held and it was not until early in 1947 that it was found possible to resume activities.

At this time the IEC Central Office wrote to the National Committees proposing the appointment of a small preparatory committee of representatives of manufacturers of both Lamp Caps and Lamp Holders. The outcome of this proposal was that a Committee was duly formed comprising experts from the majority of countries formerly represented by INDECO, with the addition of an expert from the U.S.A., and, at a later date, a representative from Sweden.

This Experts Preparatory Committee (EPC) took into account the work of the "INDECO" and the resultant recommendations were submitted to the National Committees by the full Sub-Committee on Lamp Caps and Holders (34B) for approval under the Six Months' Rule.

All the sheets contained in the present edition of Publication 61 have been approved under the Six Months' Rule, but as the draft sheets were submitted in the form of a large number of independent documents, it is not practicable to list the National Committees which voted in favour of publication of each sheet.

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INTRODUCTION

The following statement gives the reader an explanation of the general principles followed in:

- the designation of lamp caps * and holders;
- the numbering of the sheets;
- the symbols of dimensions.

International designation of lamp caps and holders

The use of the descriptive forms of designation such as "Goliath" screw cap or "Normal" bayonet cap is restricted. The more definite nomenclature used in previous editions has been amplified to provide a complete designation not only for the caps and holders already standardized, but also for other existing or projected types.

A few improvements have been effected in connection with the introduction of some new cap constructions.

Generally speaking, a lamp cap and the corresponding holder are designated by one or more letters, followed by a number. This designation gives a concise indication of the part which is essential to ensure interchangeability of the cap in the holder. Capital letters are used, sometimes followed by a small letter.

The letter or letters indicate the cap construction in accordance with the following code:

B — means bayonet

BA — means bayonet automobile

Note. — To distinguish whether a cap is a B or a BA cap, the following directives must be taken into account:

- the standard pin length for B15 caps is 0.91 mm, whereas for BA15 caps the standard pin length is 0.64 mm minimum;
- for BA caps, requirements, if any, for creepage distances are usually small in view of their operation at extra-low voltage.

BM — means bayonet for mining lamps

E — means screw thread

F — means single contact pin (post, tab, etc.); a shell made of conducting material must be insulated from the contact-making part of the pin

Note. — Different forms of pin are indicated by small letters after the letter F, as follows:

- a indicates a cylindrical pin;
- b indicates a fluted pin;
- c indicates a special shape of pin or protruding part.

G — means two or more contact pins (posts, tabs, etc.); a shell made of conducting material must be insulated from the contact making pins

Note. — This group incorporates the former bi-post caps.

* This standard makes use of the terms: "(lamp) caps"; "(lamp) bases" which, because of different interpretations in different countries, require explanation.

The term "cap" is used to define a separate component which has to be affixed to the lamp bulb to provide engagement in the corresponding lamp-holder.

The term "base" is used to define an *integral* part of the lamp bulb suitably shaped to provide engagement in the lamp-holder.

In the United States of America and Canada, the term "base" is used to describe both the above situations and the term "cap" is not used at all.

The above designations may be too general, and it is therefore often necessary to give an additional indication to distinguish characteristics such as the following, given in the order in which they appear below:

1) *For either a cap or a holder:*

— a small letter indicating the number of contacts (plates, pins, plungers, springs or tubes) or flexible connections:

“s” for one

“d” for two

“t” for three

“q” for four

“p” for five

— a number, a letter or possibly a combination of symbols preceded by a hyphen, indicating the number of locating elements such as pins, lugs, slots, etc. or other indication essential for the fit.

Examples:

B22d-3 (90°/135°) A bayonet cap with a shell diameter of 22 mm approximately, having two contacts and three locating pins with an angular distribution of 90° and two times 135°, or a bayonet holder with an internal diameter of 22 mm approx., having two contact plungers and three slots with an angular distribution of 90° and two times 135°.

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G25t-59 A three pin cap with a shell diameter of 59 mm approximately the centres of the pins being situated on a circle with a diameter of 25 mm approx., or alternatively a holder with an internal diameter of 59 mm approx., with three contact tubes, situated on a circle of approx. 25 mm diameter.

Note. — In the latter example, it should be obvious that the number 59, in view of its size, does not refer to the number of locating elements.

2) *For a cap:*

— a number preceded by an oblique stroke, giving in millimetres the approximate over-all length of the cap, including protruding insulation, but excluding the height of protruding contact plates, the length of any pins or flexible connections and the height of protruding conductor bushes.

Note. — The length of SV (festoon) caps is measured between a circle of 3.5 mm diameter on the cone and the open end of the cap. In order to avoid misunderstanding this length is stated behind a hyphen but before the oblique stroke if this is used.

— a number preceded by the multiplication sign \times , giving in millimetres the approximate outside diameter either of the skirt or of the open end of the shell. In the case of a spun-in cap or of a cap with a fixed liner having a reduced opening, the approximate inside diameter of the open end of the shell is referred to.

In certain cases a cap may belong to one construction group, yet nevertheless show in addition properties of one or more different groups. The symbols for each of these groups are then given, the more important ones being placed first.

Example:

EK40 An E40 cap with one flexible connection.

The S-cap (shell cap) may be shaped in such a way that part of the shell constitutes a pin, or may be provided with a bottom screw without intermediate insulation. In such cases, the letter F is added after the S.

Examples:

SFa9-2.5 Shell cap with a diameter of 9 mm approximately having one cylindrical pin, of 2.5 mm diameter approx.

SFc10-4 Shell cap with a diameter of 10 mm approximately having one threaded pin, of 4 mm diameter approx.

SFaP26-10 A shell cap SFa26-10 which allows adjustment for the purpose of prefocus (P).

If a cap can be seen as a combination of two or more identical caps, the designation will be the same as for the single cap, but preceded by the number of caps combined.

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Example:

2G9.5d/16.5 × 49 A combination of two bi-pin caps G9.5d with a height of 16.5 mm approximately and a total largest dimension of the open end of the shell of 49 mm.

<https://standards.iteh.ai/catalog/standards/sist/63dc1cd4-5bbf-4580-8628->

[ea57d446a020/sist-en-60061-1-1999](https://standards.iteh.ai/catalog/standards/sist/63dc1cd4-5bbf-4580-8628-)

Caps which have the same designation according to the above rules, but which nevertheless, because of some particular feature(s), would not be interchangeable, are differentiated by adding an X, Y or Z after the letter(s) for the more current (or already classified) type. For example: BA15 caps, for which the pins have different lengths or are offset so as to prevent them from engaging with a normal BA15 lamp-holder, are designated, by BAX15 and BAY15 respectively.

Note. — If necessary, the indications XX, XY, XZ
YX, YY, YZ
ZX, ZY and ZZ may be used.

It is stressed that the part of the designation which gives the character of the cap and determines in the first instance the fit in the holder, is placed before the oblique stroke where this is used.

Examples:

E14/25 × 17 Screw cap with a crest diameter of the thread of 14 mm approximately, an over-all length of 25 mm approx., and a skirt diameter of 17 mm approx.

E27/25 × 24 Screw cap with a crest diameter of the thread of 27 mm approximately, an over-all length of 25 mm approx., and a shell spun-in to 24 mm approx.

EX27 Left-hand screw cap with a crest diameter of the thread of 27 mm approximately or a holder for this cap.