

SLOVENSKI STANDARD
SIST EN 60061-4:1999/A1:1999
01-julij-1999

Vznožki in okovi žarnic in sijalk skupaj s kalibri za kontrolo medsebojne zamenljivosti in varnosti - 4. del: Smernice in splošne informacije - Dopolnilo A1 (IEC 60061-4A:1992+IEC 60061-4B:1994)

Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 4: Guidelines and general information

Lampensockel und -fassungen sowie Lehren zur Kontrolle der Austauschbarkeit und Sicherheit - Teil 4: Leitfaden und allgemeine Informationen

Culots de lampes et douilles ainsi que calibres pour le contrôle de l'interchangeabilité et de la sécurité - Partie 4: Guide et information générale

Ta slovenski standard je istoveten z: EN 60061-4:1992/A1:1995

ICS:

29.140.10 Grla in držala žarnic Lamp caps and holders

SIST EN 60061-4:1999/A1:1999 en

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EUROPEAN STANDARD

EN 60061-4/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1995

UDC 621.316.58.032.8:621-713-3:614.8
ICS 29.140.10

Descriptors: Lighting equipment, lamp cap, lampholder, control, standard gauge, interchangeability, safety, information

English version

**Lamp caps and holders together with gauges for the control
of interchangeability and safety
Part 4: Guidelines and general information
(IEC 61-4A:1992 + IEC 61-4B:1994)**

Culots de lampes et douilles ainsi que
calibres pour le contrôle de
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Partie 4: Guide et information générale
(CEI 61-4A:1992 + IEC 61-4B:1994)

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This amendment A1 modifies the European Standard EN 60061-4:1992; it was approved by CENELEC on 1995-09-20. 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.

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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 supplements A:1992 and B:1994 to the International Standard IEC 61-4:1990, prepared by SC 34B, Lamp caps and holders, of IEC TC 34, Lamps and related equipment, was submitted to the formal vote and was approved by CENELEC as amendment A1 to EN 60061-4:1992 on 1995-09-20 without any modification.

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) 1996-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-09-01

For products which have complied with EN 60061-4:1992 before 1996-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-09-01.

Endorsement notice

The text of supplements A:1992 and B:1994 to the International Standard IEC 61-4:1990 was approved by CENELEC as an amendment to the European Standard without any modification.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
61-4A

1992-04

Premier complément à la Publication 61-4 (1990)

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

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iTech (Standard) (iTech)
Quatrième partie:
Guide et information générale

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First supplement to Publication 61-4 (1990)

**Lamp caps and holders together with
gauges for the control of interchangeability
and safety**

**Part 4:
Guidelines and general information**

*Les feuilles de ce complément sont à insérer dans la
Publication 61-4 (1990)*

*The sheets contained in this supplement are to be
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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
61-4

Première édition
First edition
1992-04

Modifiée selon le Complément A (1991)
Amended in accordance with Supplement A (1991)

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iTeh **STANDARD PREVIEW**
Quatrième partie:
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<https://standards.iteh.ai/catalog/standards/sist/4c701dca-8517-4c97-ba77-777154111111>
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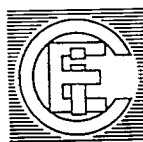
**Part 4:
Guidelines and general information**

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**INTERNATIONAL DESIGNATION OF LAMP CAPS
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1. Introduction

A coding system is in existence that can be used to assign designations to lamp caps and lampholders. Meaningful assignment can be made to the letters, numbers and symbols that make up this designation. The system has gained international acceptance and should be used as much as possible.

It is self-evident that there is a relationship between a certain lamp cap and the lampholder to be used with it. This relation is reflected in the relevant designation, part of which is used in common for the two products.

As a consequence of this system it is possible to compare caps and holders from various manufacturers and, where they are interchangeable, the same designation can be assigned to them. This system is also a powerful instrument for controlling proliferation of designs. Assignment of designations to new types of cap and holder is the prerogative of the experts group EPC of IEC Sub-Committee 34B.

2. Designation system

It is an objective of this system that each assigned designation should be short and as easily pronounceable as possible to stimulate its use in practice.

This system is based on several sub-parts made up of letters, numbers and symbols, each part having its own characteristics. Only one designation shall be assigned to a particular cap and holder. This system does not attempt to identify materials. Parts of a designation are joined directly together with no spaces or other separator marks.

A completed designation of caps and holders takes the form as follows:

designation of lamp cap: (a) (b) (c) - (d) / (e) x (f)
 designation of lampholder: (a) (b) (c) - (d)

NOTE - The use of an abbreviated lamp cap designation is permitted unless this might cause misunderstanding.

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The section of the designation preceding the oblique stroke refers to information which is important with regard to interchangeability of lamps fitted with a certain cap in the corresponding lampholder. That particular section of the designation will be the same for both the cap and its associated holder. The part of the lamp cap designation following the oblique stroke, if present, refers to certain important dimensions of the cap which are not a necessary part of the interchangeability requirements of the lamp in the lampholder. Such dimensions are, however, important for the mutual interchangeability of lamp caps of different origin on one type of lamp.

Remark:

Contrary to North American terminology, the IEC designates as "base" only the contact-making and fixing part of a capless lamp.

3. Primary designation letters

3.1 Part (a) of a designation consists of one or more capital letters indicating the type of lamp cap. Although the following list refers to lamp caps, it has an analogous meaning for the holder.

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- | | | |
|----|---|--|
| B | - | Bayonet cap |
| BA | - | Bayonet cap, originally intended for Automobile use |
| BM | - | Bayonet cap for Miner's lamp |
| E | - | screw cap (Edison) |
| F | - | cap with one projected contact.
Different forms of the contact are indicated by a small letter after the letter F, as follows:
a - cylindrical pin
b - fluted pin
c - pin of special shape |
| G | - | two or more projecting contacts, such as pins or posts |
| K | - | cap with cable connections |
| P | - | Prefocus cap |
| R | - | Recessed contact cap |
| S | - | Shell cap - without protruding elements to hold the cap in the lampholder |
| SV | - | Shell cap with conical end (V-shaped) |
| T | - | Telephone lamp cap |

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- W** - a base wherein the electrical contact with the lampholder is made directly through the lead-in wires which lie on the surface of the base, the glass part (or the part of other insulating material) being essential for the fit in the holder. This designation also covers a separate cap of insulating material as a substitute for the integral base and meeting the same interchangeability requirements.

NOTE - Some earlier designs resembled a Wedge in shape; this led to the introduction of the reference letter "W".

Examples: E27 - a screw cap
Fa4 - a cap with one cylindrical contact pin

- X** - if it is not possible to apply a designation by following the rules listed, such lamp caps will be designated with a capital letter "X" followed by a serial number.

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Example: X511 - a glass base with two separate metal wings.

3.1.1 Modifier I

If a lamp cap has additional characteristics covered by one of the above capital letters which can be indicated by further capital letters, the whole combination of letters will be shown, the most significant letter(s) being placed first.

Example: PK22s - a prefocus cap with cable connection.

3.1.2 Modifier II

A lamp cap characterized in accordance with the rules in this specification may receive a designation already reserved for an existing cap. If such caps are not (or not perfectly) interchangeable with due regard to electrical or mechanical requirements, a capital X, Y, Z or U, or a combination of two or more of these, is added to the primary designation of the cap. These modifying letters follow the primary designation.

Examples: BY22d - a B22 cap meeting special requirements.
GY16 - a G16 cap which is not interchangeable with the primary G16 cap.

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3.1.3 Modifier III

In exceptional cases part (a) of a designation may be preceded by a number, usually a 2.

This indicates that the complete fit is built-up from two (or more) single, similar fits.

Example: 2G13 - A fit consisting of two G13 caps, juxtaposed at a certain distance. (Such a cap is used on U-shaped fluorescent lamps.)

3.2 Part (b) of a designation consists of a number, which indicates the approximate value in millimetres of the principal dimension of the fit.

The relation between the principal dimension and the primary designation letter is as follows:

For:

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- B, BA, BM, K, S and SV - the diameter of the shell
 - E - the crest diameter of the screw thread
 - F - the diameter or other similar dimension of the contact
 - G - for two pins, the distance between the centres of the pins
 - for more than two pins, the diameter of the circumscribed circle on which the centres of the pins are situated
 - P - the most important dimension of that part by which the lamp is located laterally
 - R - the largest transverse dimension of that part of the insulating body which is essential for the fit in the holder
 - T - the external width measured across the contact plates
 - W - the combined thickness of the glass part (or the part of other insulating material) and one lead-in wire followed by the multiplication sign (x) and the width of the base.

- Examples: BA15d - bayonet (automobile) cap having a shell diameter of approximately 15 mm.
- G13 - a two-pin cap having a pin spacing of approximately 13 mm.

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3.3 Part (c) of a designation consists of lower case letters indicating the number of contacts, plates, pins, etc. or flexible connections.

The following code letters are used in this group:

s	-	for one contact
d	-	for two contacts
t	-	for three contacts
q	-	for four contacts
p	-	for five contacts

The shell of a cap shall not be considered as a contact regardless of whether it is a current carrying component or not. The contacts need not be of the same shape.

Examples: E26d - an E26 cap having two bottom contacts
G10q - a cap having four contact pins.

3.4 Part (d) of a designation, if necessary, consists of symbols preceded by a hyphen to indicate additional elements that are important for interchangeability (e.g. a number 3 for a 3-pin bayonet cap or an indication number for a key configuration).

Examples: B22d-3 - a B22 cap having three locating pins.
PG22-6,35 - a prefocus cap having a collar of approximately 22 mm diameter and two contact pins with a spacing of approximately 6,35 mm.

3.5 Part (e) of a designation consists of numbers immediately following an oblique stroke to indicate the approximate overall length of the cap expressed in millimeters. This length includes protruding insulation but excludes the height of contacts or pins.

Example: B15d/19 - a B15d cap having an overall length of approximately 19 mm.

3.5.1 The length of an SV (festoon) cap is measured between the open end of the shell and a circle of 3,5 mm diameter on the cone.

In order to avoid misunderstanding, this length is stated behind a hyphen but before the oblique stroke if used.

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3.6 Part (f) of a designation consists of a number for caps having a skirt or spun-in shell. A number in the (f) group position is preceded by the multiplication sign (x) in the designation. The number indicates the approximate outside diameter of the skirt (excluding any flare) or the inside diameter of the open-end, in millimeters.

Example: B22d/25x26 - a B22 cap having an overall length of approximately 25 mm and an outside skirt diameter of approximately 26 mm.

4. Other examples of designation and explanations

EP10/14x11 - prefocus screw cap having a crest screw thread diameter of approximately 10 mm, an overall length of approximately 14 mm, and a skirt diameter of approximately 11 mm.

B22d-3(90°/135°)/25x26 - bayonet cap having a diameter of approximately 22 mm, two contact plates, three locating pins radially disposed at angles of 90°, 135° and 135°, an overall length of approximately 25 mm and a skirt diameter of approximately 26 mm.

BAY15d/19 - bayonet (automobile) cap having offset locating pins, a diameter of approximately 15 mm, two contact plates and an overall length of approximately 19 mm.

K59d/80x63 - cap having two flexible connections, a shell diameter of approximately 59 mm, a shell length of approximately 80 mm and a skirt diameter of approximately 63 mm.

R17d/10x35 - recessed double contact cap having a largest transverse dimension of its insulating body of approximately 17 mm (essential for fit in holder), a shell height of approximately 10 mm and a shell diameter of approximately 35 mm.

SV8.5-8 - shell cap with conical end having a diameter of approximately 8,5 mm and a shell length of approximately 8 mm, measured between a circle of 3,5 mm diameter on the cone and the open end of the shell.

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T6.8 - telephone lamp cap having an external width of approximately 6,8 mm, measured across the contact plates.

EX10/13 - screw cap having an additional requirement about the creepage distance, a crest screw thread diameter of approximately 10 mm and an overall length of approximately 13 mm.

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