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Amendement 13

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

**Quatrième partie:
Guide et information générale**

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Amendment 13

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

**Part 4:
Guidelines and general information**

*Les feuilles de cet amendement sont à insérer dans la
CEI 60061-4 (1990)*

*The sheets contained in this amendment are to be inserted
in IEC 60061-4 (1990)*

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International Electrotechnical Commission
Telefax: +41 22 919 0300

e-mail: inmail@iec.ch

3, rue de Varembe Geneva, Switzerland
IEC web site <http://www.iec.ch>



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International Electrotechnical Commission
Telefax: +41 22 919 0300

3, rue de Varembé Geneva, Switzerland
e-mail: inmail@iec.ch IEC web site <http://www.iec.ch>



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AVANT-PROPOS

Le présent amendement a été établi par le sous-comité 34B: Culots et douilles, du comité d'études 34 de la CEI: Lampes et équipements associés.

Le texte de cet amendement est issu des documents suivants:

FDIS	Rapport de vote
34B/1544/FDIS	34B/1558/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cet amendement.

Le comité a décidé que le contenu de cet amendement et de la publication de base ne sera pas modifié avant la date de stabilité indiquée sur le site web de la CEI sous "http://webstore.iec.ch" dans les données relatives à la publication recherchée. A cette date, la publication sera

- reconduite;
- supprimée;
- remplacée par une édition révisée, ou
- amendée.

FOREWORD

This amendment has been prepared by subcommittee 34B: Lamp caps and holders, of IEC technical committee 34: Lamps and related equipment.

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

<https://standards.iteh.ai/catalog/standards/sist/af5ef5b1-d651-4b1a-80db-de042c9f6313/iec-60061-4-1990-amd13-2010>

FDIS	Report on voting
34B/1544/FDIS	34B/1558/RVD

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

The committee has decided that the contents of this amendment and the base 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.
-

INTERNATIONAL DESIGNATION OF LAMP CAPS AND HOLDERS

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.

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.

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

**INTERNATIONAL DESIGNATION OF LAMP CAPS
AND HOLDERS**

3 Primary designation letters

3.1 Part (a)

3.1.1 General

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.

B - Bayonet cap

BA - Bayonet cap, originally intended for Automobile use

BM - Bayonet cap for pit lamp

C - Printed circuit cap

E - screw cap (Edison)

EXAMPLE E27 - a screw cap

F - cap with one projected contact.

Different forms of the contact are indicated by a small letter after the letter F, as follows:

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a - cylindrical pin

b - fluted pin

c - pin of special shape

EXAMPLE Fa4 - a cap with one cylindrical contact pin

G - two or more projecting contacts, such as pins or posts

H - cap with heat spreader

NOTE A heat spreader is used to spread the heat generated by the LED over a larger surface area but is not intended as a heat sink. In normal use it would be thermally joined to a part of the luminaire performing the heat sink function.

The second designation letter can be used as a modifier according to clause 3.1.2.

EXAMPLE CH14.65d - a printed circuit cap with heat spreader and two contact pads on a circle of 14,65 mm

K - cap with cable connections

P - Prefocus cap

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<p>R - Recessed contact cap</p> <p>S - Shell cap - without protruding elements to hold the cap in the lampholder</p> <p>SV - Shell cap with conical end (V-shaped)</p> <p>T - Telephone lamp cap</p> <p>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.</p> <p>NOTE Some earlier designs resembled a Wedge in shape; this led to the introduction of the reference letter "W".</p> <p>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.</p>		
<p>3.1.2 Modifier I</p>	<p>PREVIEW (standards.iteh.ai)</p>	
<p>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.</p> <p>EXAMPLE PK22s - a prefocus cap with cable connection.</p>		
<p>3.1.3 Modifier II</p>		
<p>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.</p>		
<p>If mechanically fixed contacts are at an angled position to the cap axis, the letter J is used.</p>		
<p>EXAMPLES:</p>		
<ul style="list-style-type: none"> • BY22d - a B22 cap meeting special requirements. • GY16 - a G16 cap which is not interchangeable with the primary G16 cap. • PGJ13 - a PG13 cap with the contacts at an angled position to the cap axis. 		
<p>7007-1-6</p>		<p>IEC 60061-4 CEI 60061-4</p>

**INTERNATIONAL DESIGNATION OF LAMP CAPS
AND HOLDERS**

3.1.4 Modifier III

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

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)

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

This value is rounded to a maximum of one digit behind the decimal point (if appropriate).

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

For:

B, BA, BM, K, S and SV - the diameter of the shell

EXAMPLE BA15d - bayonet (automobile) cap having a shell diameter of approximately 15 mm.

C - the circle on which the contacts are situated.

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

EXAMPLE G13 - a two-pin cap having a pin spacing of approximately 13 mm.

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.

3.3 Part (c)

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

**INTERNATIONAL DESIGNATION OF LAMP CAPS
AND HOLDERS**

The following code letters are used in this group:

- | | | |
|---|---|--|
| s | - | for one contact |
| d | - | for two contacts |
| | | EXAMPLE E26d - an E26 cap having two bottom contacts |
| t | - | for three contacts |
| q | - | for four contacts |
| | | EXAMPLE G10q - a cap having four contact pins. |
| 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.

3.4 Part (d)

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)

3.5.1 General

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.

3.5.2 SV (festoon) caps

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.