

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

**Bayonet lampholders**

**Douilles à baïonnette**

IEC 61184:2008/AMD1:2011

<https://standards.iteh.ai/catalog/standards/sist/b72b4d50-b30a-44ea-a341-917e97bc1ac8/iec-61184-2008-amd1-2011>



## THIS PUBLICATION IS COPYRIGHT PROTECTED

Copyright © 2011 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester.

If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de la CEI ou du Comité national de la CEI du pays du demandeur.

Si vous avez des questions sur le copyright de la CEI ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de la CEI de votre pays de résidence.

IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland  
Email: [inmail@iec.ch](mailto:inmail@iec.ch)  
Web: [www.iec.ch](http://www.iec.ch)

### About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

### About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

- Catalogue of IEC publications: [www.iec.ch/searchpub](http://www.iec.ch/searchpub)

The IEC on-line Catalogue enables you to search by a variety of criteria (reference number, text, technical committee,...). It also gives information on projects, withdrawn and replaced publications.

- IEC Just Published: [www.iec.ch/online\\_news/justpub](http://www.iec.ch/online_news/justpub)

Stay up to date on all new IEC publications. Just Published details twice a month all new publications released. Available on-line and also by email.

- Electropedia: [www.electropedia.org](http://www.electropedia.org)

The world's leading online dictionary of electronic and electrical terms containing more than 20 000 terms and definitions in English and French, with equivalent terms in additional languages. Also known as the International Electrotechnical Vocabulary online.

- Customer Service Centre: [www.iec.ch/webstore/custserv](http://www.iec.ch/webstore/custserv)

If you wish to give us your feedback on this publication or need further assistance, please visit the Customer Service Centre FAQ or contact us:

Email: [csc@iec.ch](mailto:csc@iec.ch)  
Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00

### A propos de la CEI

La Commission Electrotechnique Internationale (CEI) est la première organisation mondiale qui élabore et publie des normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

### A propos des publications CEI

Le contenu technique des publications de la CEI est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

- Catalogue des publications de la CEI: [www.iec.ch/searchpub/cur\\_fut-f.htm](http://www.iec.ch/searchpub/cur_fut-f.htm)

Le Catalogue en-ligne de la CEI vous permet d'effectuer des recherches en utilisant différents critères (numéro de référence, texte, comité d'études,...). Il donne aussi des informations sur les projets et les publications retirées ou remplacées.

- Just Published CEI: [www.iec.ch/online\\_news/justpub](http://www.iec.ch/online_news/justpub)

Restez informé sur les nouvelles publications de la CEI. Just Published détaille deux fois par mois les nouvelles publications parues. Disponible en-ligne et aussi par email.

- Electropedia: [www.electropedia.org](http://www.electropedia.org)

Le premier dictionnaire en ligne au monde de termes électroniques et électriques. Il contient plus de 20 000 termes et définitions en anglais et en français, ainsi que les termes équivalents dans les langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International en ligne.

- Service Clients: [www.iec.ch/webstore/custserv/custserv\\_entry-f.htm](http://www.iec.ch/webstore/custserv/custserv_entry-f.htm)

Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions, visitez le FAQ du Service clients ou contactez-nous:

Email: [csc@iec.ch](mailto:csc@iec.ch)  
Tél.: +41 22 919 02 11  
Fax: +41 22 919 03 00

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

**Bayonet lampholders**

**Douilles à baïonnette**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

PRICE CODE  
CODE PRIX

**H**

ICS 29.140.10

ISBN 978-2-88912-465-7

## 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:

FDIS	Report on voting
34B/1587/FDIS	34B/1599/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.

The contents of the corrigendum of December 2012 have been included in this copy.

<https://standards.iteh.ai/catalog/standards/sist/b72f4d50-b30a-44ea-a341-917e97bc1ac8/iec-61184-2008-amd1-2011>

## 1 General

### 1.1 Scope

*Replace, in the penultimate sentence, B15 by B15d.*

*Replace, in the last sentence, B22 by B22d.*

## 2 Terms and definitions

*Add the following two new definitions:*

### 2.25

#### **enclosed reinforced insulated lampholder**

lampholder for building-in, so designed that on its own it fulfils the requirements for double or reinforced insulated parts in class II applications

### 2.26

#### **partly reinforced insulated lampholder**

lampholder for building-in, so designed that some parts of the lampholder require additional means to fulfil the requirements with regard to double or reinforced insulation

NOTE In some cases, the dimensions might be achieved only after mounting into the luminaire.

## 5 Standard ratings

### 5.2 Standard rated currents

*Replace, in the first dashed item, B15 by B15d.*

*Replace, in the second dashed item, B22 by B22d.*

## 6 Classification

*Replace the existing Subclause 6.5 by the following:*

### 6.5 According to protection against electric shock:

- unenclosed lampholders;
- enclosed lampholders;
- independent lampholders;
- partly reinforced insulated lampholders;
- enclosed reinforced insulated lampholders.

NOTE Where a lampholder is used with a working voltage of 50 % or less of its maximum rating, it may be regarded as equivalent to a reinforced insulated lampholder.

## 7 Marking

*Replace, in Subclause 7.1, the third paragraph (“Lampholders complying with the...”), the following note and the last paragraph by the following new text:*

Enclosed reinforced insulated lampholders offer an adequate level of protection for use in luminaires where they are accessible in normal use. This information shall be indicated in the manufacturer’s catalogue or the like.

For partly reinforced insulated lampholders, sufficient creepage distances and clearances to outer accessible surfaces will require additional protection to some parts of the lampholder by the luminaire design or by use of additional attachment(s) or cover(s). This information shall be indicated in the manufacturer’s catalogue or the like.

*Replace the note of the 6<sup>th</sup> dashed item in Subclause 7.1 with the following new note:*

NOTE Available technical documentation of the manufacturer like printed catalogues or online catalogues should allow a clear identification of a lampholder either by a unique catalogue number or by an identifying reference on the holder, specifying the essential characteristic features and the basic design of the product supplemented by a clear description. Variations of the basic design like for example different cable length, fixing means, colours etc., which do not affect safety or performance of the lampholder, may be disregarded in the type reference marked on the product. Variations included in the type testing procedure are listed in the corresponding test reports.

## 8 Dimensions

Replace, in the first dashed item of Subclause 8.2, B15 by B15d.

Replace, in the second dashed item of Subclause 8.2, B22 by B22d.

### Table 2 – Minimum dimensions of pillar type terminals

Replace, in the first column of the table, B15 by B15d and B22 by B22d.

## 12 Construction

Replace, in the second sentence of Subclause 12.1, B15 by B15d and B22 by B22d.

## 14 Moisture resistance, insulation resistance and electrical strength

Replace, in 14.3, the 8<sup>th</sup> paragraph (“Immediately after the insulation resistance...”) by the following new paragraph:

Immediately after the insulation resistance test, an a. c. voltage of substantially sine wave form, with a frequency of 50 Hz or 60 Hz and with an r. m. s. value of  $(2 U + 1\,000)$  V (where  $U$  is the rated voltage) is applied for 1 min between the points prescribed. For enclosed and unenclosed reinforced insulated lampholders, the test voltage shall be determined from Table 10.2 of IEC 60598-1. Additionally, for switched lampholders, this voltage shall be applied between live parts of different polarity and other metal parts with the switch both closed and open.

### Table 6 – Maximum deformation values

Replace, in the first column of the table, B15 by B15d and B22 by B22d.

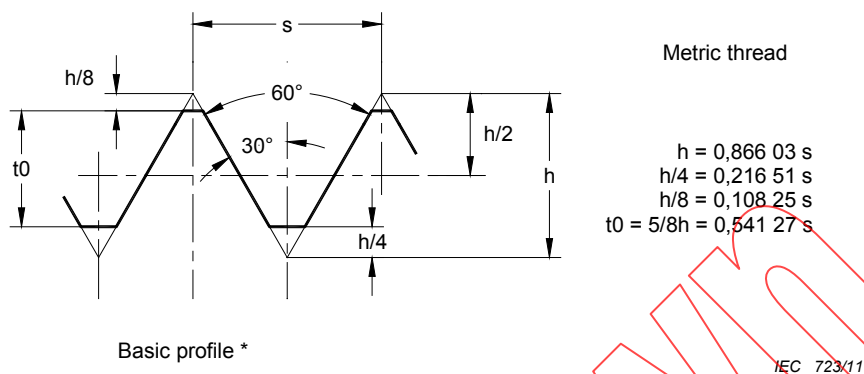
### Table 8 – Minimum distances for a. c. (50/60 Hz) sinusoidal voltages – Impulse withstand category II

Replace the existing table by the following:

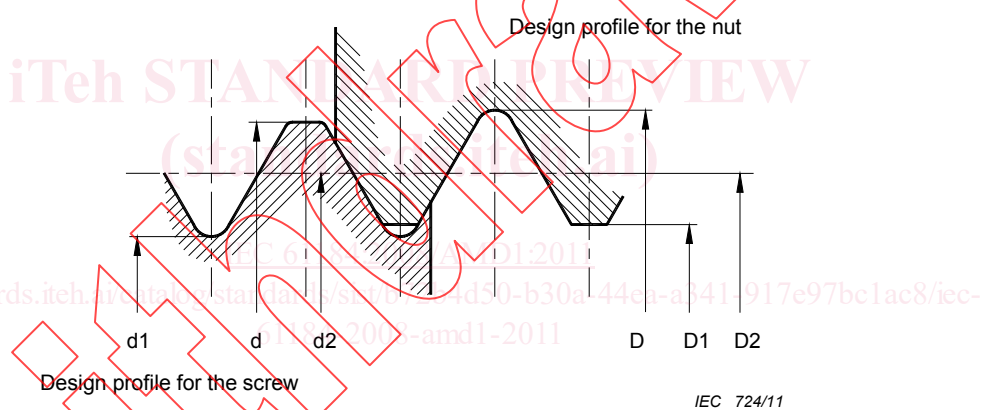
Rated voltage 250 V	Distances mm																		
<p>Between live parts of different polarity <sup>a</sup>, and</p> <p>Between live parts and external metal parts, if not covered with insulating material: (this includes screws of backplate lampholders) <sup>b</sup></p> <p><b>Basic insulation</b></p> <ul style="list-style-type: none"> <li>- Creepage distances           <table style="margin-left: 20px;"> <tr> <td style="padding-right: 10px;">insulation</td> <td>PTI <sup>a</sup> ≥ 600</td> <td style="text-align: right;">1,5 <sup>f</sup></td> </tr> <tr> <td></td> <td>PTI <sup>a</sup> &lt; 600</td> <td style="text-align: right;">2,5</td> </tr> </table> </li> <li>- Clearances <sup>d</sup> <table style="margin-left: 20px;"> <tr> <td></td> <td></td> <td style="text-align: right;">1,5 <sup>f</sup></td> </tr> </table> </li> </ul> <p><b>Reinforced insulation</b></p> <ul style="list-style-type: none"> <li>- Creepage distances           <table style="margin-left: 20px;"> <tr> <td style="padding-right: 10px;">insulation</td> <td>PTI <sup>a</sup> ≥ 600</td> <td style="text-align: right;">3</td> </tr> <tr> <td></td> <td>PTI <sup>a</sup> &lt; 600</td> <td style="text-align: right;">5</td> </tr> </table> </li> <li>- Clearances <sup>d</sup> <table style="margin-left: 20px;"> <tr> <td></td> <td></td> <td style="text-align: right;">3</td> </tr> </table> </li> </ul>	insulation	PTI <sup>a</sup> ≥ 600	1,5 <sup>f</sup>		PTI <sup>a</sup> < 600	2,5			1,5 <sup>f</sup>	insulation	PTI <sup>a</sup> ≥ 600	3		PTI <sup>a</sup> < 600	5			3	
insulation	PTI <sup>a</sup> ≥ 600	1,5 <sup>f</sup>																	
	PTI <sup>a</sup> < 600	2,5																	
		1,5 <sup>f</sup>																	
insulation	PTI <sup>a</sup> ≥ 600	3																	
	PTI <sup>a</sup> < 600	5																	
		3																	
<p>Clearances in case of backplate lampholders <sup>c, e</sup></p> <ul style="list-style-type: none"> <li>- between live parts and the mounting surface, and</li> <li>- between live parts and the boundary of the space for the supply wires:</li> </ul>	3,6																		
<p>NOTE Values for creepage distances and clearances may be found for intermediate values of working voltages by linear interpolation between tabulated values.</p>																			
<p>a PTI (proof tracking index) in accordance with IEC 60112.</p> <p>b In the case of creepage distances to parts not energized or not intended to be earthed, where no tracking can occur, the values specified for material with PTI ≥ 600 apply for all materials (irrespective of the real PTI). For creepage distances subjected to working voltages of less than 60 s duration, the values specified for materials with PTI ≥ 600 apply for all materials.</p> <p>c For creepage distances not liable to contamination by dust or moisture, the values specified for material with PTI ≥ 600 apply (independently of the real PTI).</p> <p>d For B15d lampholders the clearance is reduced to 1,4 mm.</p> <p>e These values take account of possible unevenness of the mounting surface.</p>																			

**Figure 13 – Nipple thread for lampholders – Basic profile and design profile for the nut and for the screw**

Replace the existing Figure 13 by the following new figure:



\* The basic profile is the profile to which the deviations defining the limits of the external threads are applied.



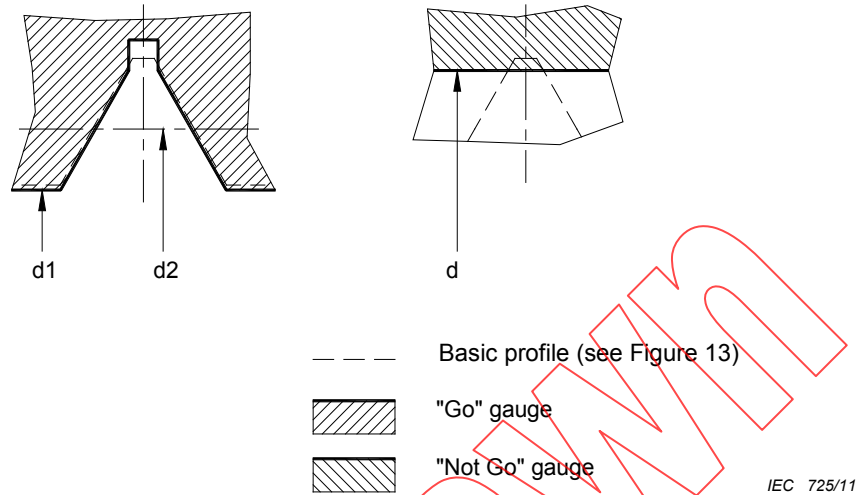
Dimensions in millimetres

Designation	s	Screw					Nut				
		d		d2		d1	D	D2		D1	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
M10×1	1	10,000	9,800	9,350	9,238	8,917	10,000	9,462	9,350	9,117	8,917
M13×1	1	13,000	12,800	12,350	12,190	11,917	13,000	12,510	12,350	12,117	11,917



**Figure 14 – Gauges for metric ISO thread for nipples**

Replace the existing title and figure by the following new title and figure:

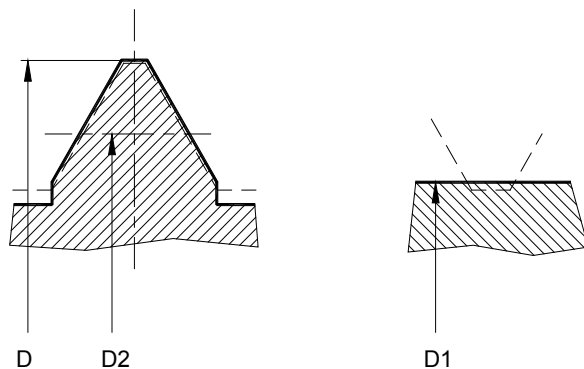


Dimensions in millimetres


Designation	s	d		d2		d1		Wear
			Tolerance		Tolerance		Tolerance	
M10×1	1	9,800	+0,004 -0,004	9,350	-0,012 -0,020	8,917	+0,004 -0,004	0,012
M13×1	1	12,800	+0,004 -0,004	12,350	-0,012 -0,020	11,917	+0,004 -0,004	0,012


NOTE The tolerances in the column d2 are purposely positioned both on one side of the dimension to safeguard a no-man's-land.

**Figure 14a – Gauges for the screw**



--- Basic profile (see Figure 13)

 "Go" gauge

 "Not Go" gauge

IEC 726/11

Dimensions in millimetres

Designation	s	D		D2		D1		Wear
			Tolerance		Tolerance		Tolerance	
M10×1	1	10,000	+0,004 -0,004	9,350	+0,012 +0,020	9,117	+0,004 -0,004	0,012
M13×1	1	13,000	+0,004 -0,004	12,350	+0,012 +0,020	12,117	+0,004 -0,004	0,012

NOTE The tolerances in the column D2 are purposely positioned both on one side of the dimension to safeguard a no-man's-land.

Figure 14b - Gauges for the nut

Figure 14 - Gauges for metric thread for nipples

Withdrawing

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

IEC 61184:2008/AMD1:2011

<https://standards.iteh.ai/catalog/standards/sist/b72b4d50-b30a-44ea-a341-917e97bc1ac8/iec-61184-2008-amd1-2011>