

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

Edison screw lampholders

Douilles à vis Edison pour lampes

IEC 60238:2004/AMD2:2011

<https://standards.iteh.ai/catalog/standards/sist/60238/def8-ea5e-46f9-8454-208f6525ba62/iec-60238-2004-amd2-2011>



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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

G

ICS 29.140.10

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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/1577/FDIS	34B/1593/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- withdrawn,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.

2 Definitions

Add the following two new definitions:

2.28

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

2.29

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.

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 fourth paragraph (“Lampholders complying with the...”), Note 3 and the fifth paragraph, added by Amendment 1, 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.

Add the following new Note 3 to Subclause 7.1 below the first indent “- type reference”:

NOTE 3 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.

Add the following new Note 4 to Subclause 7.1 below the second indent “- type reference”:

NOTE 4 Note 3 applies.

Add the following new Note 5 to Subclause 7.1 below the third indent “- type reference”:

NOTE 5 Note 3 applies.

Renumber the existing last note as Note 6.

14 Moisture resistance, insulation resistance and electrical strength

14.4 Replace the tenth paragraph (“Immediately after the insulation...”) 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.

17 Creepage distances and clearances

Replace the existing Table 13a by the following new table:

Distances mm	Rated voltage V			
	50	150	250	500 ⁴⁾
1 Between live parts of different polarity, and 2 Between live parts and external metal parts, if not covered with insulating material: (this includes screws of backplate lampholders)				
Basic insulation				
- Creepage distances				
insulation PTI \geq 600 ¹⁾	0,6	0,8	1,5	3
PTI $<$ 600 ¹⁾	1,2	1,6	2,5	5
- Clearances ⁴⁾	0,2	0,8	1,5	3
Reinforced insulation				
- Creepage distances				
insulation PTI \geq 600 ¹⁾	-	1,6	3	6
PTI $<$ 600 ¹⁾	-	3,2	5	6
- Clearances ⁴⁾	-	1,6	3	6
3 Clearances for backplate lampholders *				
- between live parts of different polarity, and - between live parts and the boundary of the space for the supply wires in backplate lampholders not specifically intended for building in:	0,6	0,8	1,5	3
NOTE Values for creepage distances and clearances may be found for intermediate values of rated voltages by linear interpolation between tabulated values. No values are specified for rated voltages below 25 V as the voltage test of 14.4 is considered sufficient.				
* These values take account of possible unevenness of the mounting surface.				

Annex B – Guidance for requirements in IEC 61058-1 applicable to switches in lampholders (see 13.2)

7.1.4 According to number of operating cycles

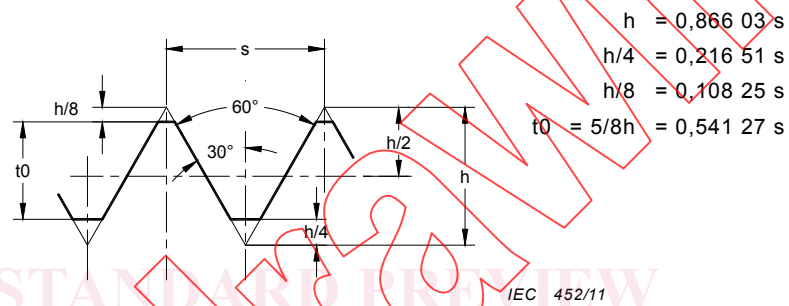
Replace the existing first paragraph by the following:

Only 7.1.4.4 is applicable.

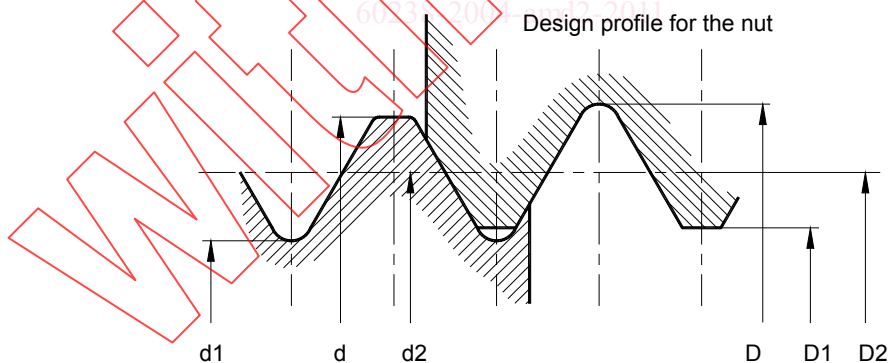
Figure 1a – Nipple thread for lampholders. Basic profile and design profile for the nut and for the screw

Replace the existing Figure 1a by the following new Figure 1a:

Metric thread



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



IEC 453/11

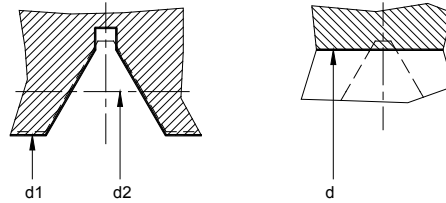
Dimensions in millimetres

Designation	s	Screw					Nut				
		d		d2		d1	D	D2		D1	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
M8×1	1	8,000	7,800	7,350	7,238	6,917	8,000	7,462	7,350	7,117	6,917
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
M16×1	1	16,000	15,800	15,350	15,190	14,917	16,000	15,510	15,350	15,117	14,917

Figure 2a – Gauges for metric ISO thread for nipples

Replace the existing title and Figure 2a by the following new title and figure:

Gauges for the screw



--- Basic profile (see figure 1a)
 [Hatched Box] "Go" gauge
 [Cross-hatched Box] "Not Go" gauge

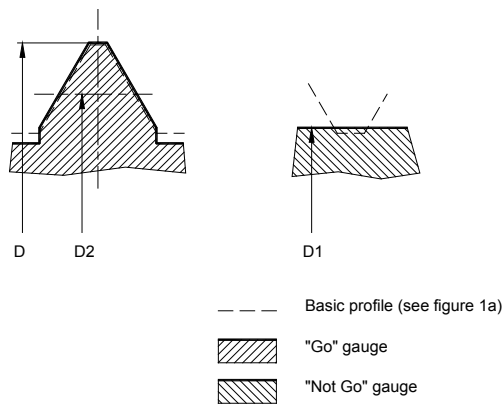
IEC 454/11

Dimensions in millimetres

Designation	s	d		d2		d1		Wear
			Tolerance		Tolerance		Tolerance	
M10×1	1	9,800	+0,004	9,350	-0,012	8,917	+0,004	0,012
			-0,004		-0,020		-0,004	
M13×1	1	12,800	+0,004	12,350	-0,012	11,917	+0,004	0,012
			-0,004		-0,020		-0,004	
M16×1	1	15,800	+0,004	15,350	-0,012	14,917	+0,004	0,012
			-0,004		-0,020		-0,004	

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

Gauges for the nut



IEC 455/11

Dimensions in millimetres

Designation	s	D		D2		D1		Wear
			Tolerance		Tolerance		Tolerance	
M10×1	1	10,000	+0,004	9,350	+0,012	9,117	+0,004	0,012
			-0,004		+0,020		-0,004	
M13×1	1	13,000	+0,004	12,350	+0,012	12,117	+0,004	0,012
			-0,004		+0,020		-0,004	
M16×1	1	16,000	+0,004	15,350	+0,012	15,117	+0,004	0,012
			-0,004		+0,020		-0,004	

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

Figure 2a – Gauges for metric thread for nipples

<https://standards.iteh.ai/catalog/standards/sist/6337/def8-ea5e-46f9-8454-208f6525ba62/iec-60238-2004-amd2-2011>

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/1577/FDIS	34B/1593/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.

2 Définitions

Ajouter les deux nouvelles définitions suivantes:

2.28

douille protégée à isolation renforcée

douille à incorporer conçue de façon qu'elle satisfasse par elle-même aux exigences des parties à isolation double ou renforcée dans les applications de classe II

2.29

douille à isolation partiellement renforcée

douille à incorporer conçue de façon que certaines parties de la douille nécessitent des dispositions supplémentaires pour satisfaire aux exigences concernant l'isolation double ou renforcée

NOTE Dans certains cas, les dimensions peuvent être satisfaites uniquement après montage dans le luminaire.