IEC 60838-2-3

Edition 1.1 2023-04
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Miscellaneous lampholders –
Part 2-3: Particular requirements – Lampholders for double-capped linear LED lamps

Douilles diverses pour lampes –
Partie 2-3: Exigences particulières – Douilles pour lampes LED linéaires à deux culots



IEC 60838-2-3:2016-05+AMD1:2023-04 CSV(en-fr)



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MISCELLANEOUS LAMPHOLDERS –

Part 2-3: Particular requirements – Lampholders for double-capped linear LED lamps

FOREWORD

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 60838-2-3 edition 1.1 contains the first edition (2016-05) [documents 34B/1851/FDIS and 34B/1857/RVD] and its amendment 1 (2023-04) [documents 34B/2150/CDV and 34B/2167/RVC].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 60838-2-3 has been prepared by subcommittee 34B: Lamp caps and holders, of IEC technical committee 34: Lamps and related equipment.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2-3 is to be used in conjunction with the latest edition of IEC 60838-1 and its amendments. It was established on the basis of the fifth edition (2016) of that standard.

A list of all parts in the IEC 60838 series, published under the general title *Miscellaneous lampholders*, can be found on the IEC website.

In this standard the following print types are used:

– *test specifications and compliance statements: in italic type*;

– NOTES: in small roman type.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under webstore.iec.ch in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
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- replaced by a revised edition, or
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MISCELLANEOUS LAMPHOLDERS –

Part 2-3: Particular requirements – Lampholders for double-capped linear LED lamps

1 Scope

This part of IEC 60838-2 applies to lampholders for double-capped linear LED lamps intended for building-in (to be used for general lighting service and with caps as listed in Annex A). Lampholders within the scope of this standard do not include heat management.

Double-capped linear LED lamps can also be used with lampholders originally been designated for other technologies. The requirementsfor these lampholders are covered by separate standards.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Clause 2 of IEC 60838-1 applies, together with the following additions.

IEC 60061-2, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders*

IEC 60061-3, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges*

IEC 60838-1, *Miscellaneous lamp holders – Part 1: General requirements and tests*

IEC 62504, *General lighting – Light emitting diode (LED) products and related equipment – Terms and definitions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60838-1 and in IEC 62504, as well as the following apply.

3.1
independent lampholder
lampholder so designed that it can be mounted separately from a luminaire, while at the same time providing all the necessary protection according to its classification and marking

[SOURCE: IEC 60238:2004, 2.5]

3.2
flexible lampholder for linear double-capped LED lamp
flexible lampholder
lampholder in which the base of each holder is rigidly mounted in the luminaire but which has one or both of the lampholders so designed as to allow axial movement of the contacts

Note 1 to entry: This note applies to the French language only.

[SOURCE: IEC 60400:2008 and IEC 60400:2008/AMD1:2011, 2.3, modified]

3.3
inflexible lampholder for linear double-capped LED lamp
inflexible lampholder
lampholder intended for rigid mounting and in which no axial movement of the contacts is provided or is needed, either for the insertion and removal of the lamp or as compensation for variation in lamp lengths

[SOURCE: IEC 60400:2008, 2.4, modified]

3.4
flexibly mounted lampholder for linear double-capped LED lamp
flexibly mounted lampholder
pair of lampholders which do not in themselves provide for any axial movement of the contact system but which are intended to be mounted in a luminaire in a specified manner so that the combination provides the necessary axial movement of the contact system

[SOURCE: IEC 60400:2008, 2.5, modified]

4 General requirements

The requirements of Clause 4 of IEC 60838-1 apply.

5 General conditions for tests

5.1 GX16t-5 lampholders

The requirements of Clause 5 of IEC 60838-1 apply together with the following additions.

5.1 In the case of flexible and inflexible lampholders (see 3.2 and 3.3 respectively), the specimens are mounted on two pairs of mounting sheets as specified in Figure 1.

One pair of holders is mounted so as to represent the minimum mounting distance for this pair of holders according to the manufacturer's mounting instructions; the other pair is mounted at the maximum distance. The matching mounting sheets are marked.

Together with these specimens, the manufacturer's mounting instructions (see 8.1) shall be supplied.