



NSAI
Standards

Irish Standard
I.S. EN 62444:2013

Cable glands for electrical installations (IEC 62444:2010 (MOD))

I.S. EN 62444:2013

Incorporating amendments/corrigenda issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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I.S. EN 62444:2013

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62444

October 2013

ICS 29.120.10

Supersedes EN 50262:1998 + corr. Oct.1998 + A1:2001 + A2:2004

English version

Cable glands for electrical installations
(IEC 62444:2010, modified)

Presse-étoupes pour installations
électriques
(CEI 62444:2010, modifiée)

Kabelverschraubungen für elektrische
Installationen
(IEC 62444:2010, modifiziert)

This European Standard was approved by CENELEC on 2013-09-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard 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 CEN-CENELEC Management Centre 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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

This document (EN 62444:2013) consists of the text of IEC 62444:2010 prepared by IEC/TC 23 "Electrical accessories", together with the common modifications prepared by CLC/TC 213 "Cable management systems".

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2014-09-23
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-09-23

This document supersedes EN 50262:1998.

EN 62444:2013 includes the following significant technical changes with respect to EN 50262:1998:

- 1 Scope
- 3 Terms and definitions
- 5 General conditions for tests
- 6 Classification
- 9 Mechanical properties
- 9.5 Resistance to impact
- 10.3.2 Electrical current test
- 12.2 Resistance to corrosion
- Table 2 – Pull forces for cable retention and cable anchorage

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62444:2010 are prefixed "Z".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 62444:2010 was approved by CENELEC as a European Standard with agreed common modifications.

COMMON MODIFICATIONS

1. Scope

Delete the third paragraph.

2. Normative references

Replace by:

See Annex ZA.

Annex A

Delete Annex A.

Bibliography

In the Bibliography, **add** the following notes for the standards indicated:

IEC 60079 series NOTE Harmonized in EN 60079 series.

IEC 60335 series NOTE Harmonized in EN 60335 series.

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Annex ZA
(normative)**Normative references to international publications
with their corresponding European publications**

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60423	2007	Conduit systems for cable management - Outside diameters of conduits for electrical installations and threads for conduits and fittings	EN 60423	2007
IEC 60529	1989	Degrees of protection provided by	EN 60529	1991
+ A1	1999	enclosures (IP Code)	+ corr. May + A1	1993 2000
IEC 60695-2-11	2000	Fire hazard testing -	EN 60695-2-11	2001
+ corr. January	2001	Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products		
ISO 868	2003	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)	EN ISO 868	2003
ISO 4287	1997	Geometrical Product Specifications (GPS) - Surface texture: Profile method - Terms, definitions and surface texture parameters	EN ISO 4287	1998
ISO 9227	2006	Corrosion tests in artificial atmospheres - Salt spray tests	EN ISO 9227	2006

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CABLE GLANDS FOR ELECTRICAL INSTALLATIONS

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62444 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories.

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

FDIS	Report on voting
23A/606/FDIS	23A/618/RVD

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

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

NOTE The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

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The committee has decided that the contents of this 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.

CABLE GLANDS FOR ELECTRICAL INSTALLATIONS

1 Scope

This Standard provides requirements and tests for the construction and performance of cable glands. This standard covers complete cable glands as supplied by the manufacturer or the supplier responsible for placing the product on the market. This standard does not cover cable glands for mineral insulated cables.

This standard covers cable glands with IEC 60423 metric entry threads.

This standard can be used as a guide for cable glands with other type of entry threads.

NOTE Certain cable glands may also be used "in Hazardous Areas." Regard should then be taken of other or additional requirements necessary for the enclosure to be installed in such conditions, for example as specified in the IEC 60079 series.

2 Normative references

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

IEC 60423:2007, *Conduit systems for cable management – Outside diameters of conduits for electrical installations and threads for conduits and fittings*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*
Amendment 1 (1999)¹

IEC 60695-2-11:2000, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products*

ISO 868:2003, *Plastics and ebonite – Determination of indentation hardness by means of durometer (Shore hardness)*

ISO 4287:1997, *Geometrical product specifications (GPS) – Surface texture: Profile method – Terms, definitions and surface texture parameters*

ISO 9227:2006, *Corrosion tests in artificial atmospheres – Salt spray tests*

3 Terms and definitions

For the purposes of this document, the following definitions apply.

3.1 cable gland

a device designed to permit the entry of a cable, flexible cable or insulated conductor into an enclosure, and which provides sealing and retention. It may also provide other functions such as earthing, bonding, insulation, cable guarding, strain relief or a combination of these

¹ There is a consolidated edition 2.1 (2001) that includes IEC 60529 (1989) and its amendment 1 (1999).

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