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Standards

Irish Standard  
I.S. EN 62561-4:2011

# Lightning protection system components (LPSC) -- Part 4: Requirements for conductor fasteners (IEC 62561-4:2010 (MOD))

## I.S. EN 62561-4:2011

*Incorporating amendments/corrigenda issued since publication:*

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**EUROPEAN STANDARD**

**EN 62561-4**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

March 2011

ICS 29.020; 91.120.40

Supersedes EN 50164-4:2008

English version

**Lightning protection system components (LPSC) -  
Part 4: Requirements for conductor fasteners  
(IEC 62561-4:2010, modified)**

Composants de système de protection  
contre la foudre (CSPF) -  
Partie 4: Exigences pour les fixations de  
conducteur  
(CEI 62561-4:2010, modifiée)

Blitzschutzsystembauteile (LPSC) -  
Teil 4: Anforderungen an Leitungshalter  
(IEC 62561-4:2010, modifiziert)

This European Standard was approved by CENELEC on 2011-02-21. 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 Central Secretariat 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 Central Secretariat 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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of the International Standard IEC 62561-4:2010, prepared by IEC TC 81, Lightning protection, together with common modifications prepared by the Technical Committee CENELEC TC 81X, Lightning protection, was submitted to the formal vote and was approved by CENELEC as EN 62561-4 on 2011-02-21.

This European Standard supersedes EN 50164-4:2008.

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

The following dates were fixed:

- |                                                                                                                                          |       |            |
|------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2012-02-21 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn                                               | (dow) | 2014-02-21 |

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## Endorsement notice

The text of the International Standard IEC 62561-4:2010 was approved by CENELEC as a European Standard with agreed common modifications as given below.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62305-1:2006      NOTE    Harmonized as en 62305-1:2006 (not modified).

## COMMON MODIFICATIONS

**Through the complete document:**

**Replace** all IEC 62305 references by EN 62305.

**Replace** all IEC 62561 references by EN 62561.

## 2 Normative references

**Replace** the first six references to IEC standards with the following:

EN 60068-2-52:1996, *Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)* (IEC 60068-2-52:1996)

EN 62305-1, *Protection against lightning – Part 1: General principles* (IEC 62305-1)

EN 62305-3, *Protection against lightning – Part 3: Physical damage to structures and life hazard* (IEC 62305-3)

EN 62305-4, *Protection against lightning – Part 4: Electrical and electronic systems within the structure* (IEC 62305-4)

EN ISO 4892-2:2006, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps* (ISO 4892-2:2006)

EN ISO 6988:1994, *Metallic and other non-organic coatings – Sulfur dioxide test with general condensation of moisture* (ISO 6988:1985)

**Subclause 6.3.1**

**Delete** at the end of the 1<sup>st</sup> paragraph the word “fastening” after “... for screwed...”.

**Subclause 6.3.2**

**Delete** at the end of the 1<sup>st</sup> paragraph the word “fastening” after “... for screwed...”.

**Subclause 6.3.3**

**Delete** at the end of the 1<sup>st</sup> paragraph the word “fastening” after “... for screwed...”.

**Replace** the 3<sup>rd</sup> paragraph by the paragraph:

“The specimens are deemed to have passed this part of the test if the conductor or metal parts of the conductor fastener do not exhibit any corrosive deterioration and if its plastic parts show no sign of disintegration and no cracks visible to normal or corrected vision.”

**Subclause 8.1**

**Add** in the 1<sup>st</sup> line of the clause after “...general requirements for type test reports issued by the ...”.

**Delete** “...test reports.” at the end of the sentence.

**Annex A**

**Clause A.1**

**Replace** “ISO 60068-2-52:1996” by “EN 60068-2-52:1996”.

In the NOTE **replace** “ISO 60068-2-52:1996” by “EN 60068-2-52:1996”.

**Clause A.2**

**Replace** “ISO 6988:1985” by “EN ISO 6988:1994”.

In the NOTE **replace** “ISO 6988:1985” by “EN ISO 6988:1994”.

**Bibliography**

**Add** the following reference:

“EN 60068-2-75:1997, *Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests* (IEC 60068-2-75:1997)”.

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

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.

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 60068-2-75	1997	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997
ISO 4892-3	2006	Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps	EN ISO 4892-3	2006
ISO 4892-4	2004	Plastics - Methods of exposure to laboratory light sources - Part 4: Open-flame carbon-arc lamps	-	-
ISO 6957	1988	Copper alloys - Ammonia test for stress corrosion resistance	-	-

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –****Part 4: Requirements for conductor fasteners**

## FOREWORD

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International Standard IEC 62561-4 has been prepared by IEC technical committee 81: Lightning protection.

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

FDIS	Report on voting
81/369/FDIS	81/379/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.

A list of all the parts in the IEC 62561 series, under the general title *Lightning protection system components (LPSC)*, can be found on the IEC website.



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.<sup>4</sup>

**I.S. EN 62561-4:2011**

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**INTRODUCTION**

This Part 4 of IEC 62561 deals with the requirements and tests for conductor fasteners as being a lightning protection system component (LPSC) designed and implemented according to the IEC 62305 series of standards.

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