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## **Komponenter i åskskyddsanläggningar – Del 2: Ledare och jordelektroder**

*Lightning protection system components (LPSC) –  
Part 2: Requirements for conductors and earth electrodes*

Som svensk standard gäller europastandarden EN 62561-2:2012. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62561-2:2012.

### **Nationellt förord**

Europastandarden EN 62561-2:2012

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 62561-2, First edition, 2012 - Lightning protection system components (LPSC) - Part 2: Requirements for conductors and earth electrodes**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 50164-2, utgåva 2, 2009, gäller ej fr o m 2015-03-16.

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EUROPEAN STANDARD

**EN 62561-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 50164-2:2008

English version

**Lightning Protection System Components (LPSC) -  
Part 2: Requirements for conductors and earth electrodes  
(IEC 62561-2:2012, modified)**

Composants des systèmes de protection  
contre la foudre (CSPF) -  
Partie 2: Exigences pour les conducteurs  
et les électrodes de terre  
(CEI 62561-2:2012, modifiée)

Blitzschutzsystembauteile (LPSC) -  
Teil 2: Anforderungen an Leiter und Erder  
(IEC 62561-2:2012, modifiziert)

This European Standard was approved by CENELEC on 2012-03-16. 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.

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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 document 81/417/FDIS, future edition 1 of IEC 62561-2, prepared by IEC/TC 81, "Lightning protection", was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62561-2:2012.

A draft amendment, which covers common modifications to IEC 62561-2 (81/417/FDIS), was prepared by CLC/TC 81X "Lightning protection" and approved by CENELEC.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-03-16
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2015-03-16

This document supersedes EN 50164-2:2008.

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.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62561-2:2012 are prefixed "Z".

## Endorsement notice

The text of the International Standard IEC 62561-2:2012 was approved by CENELEC as a European Standard with agreed common modifications.

**Add** the following new annexes:

## **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 Where 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 60068-2-52<br>+ corr. July | 1996<br>1996 | Environmental testing –<br>Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)                        | EN 60068-2-52 | 1996        |
| IEC 62305-3                    | -            | Protection against lightning –<br>Part 3: Physical damage to structures and life hazard                                 | EN 62305-3    | -           |
| IEC 62305-4                    | -            | Protection against lightning –<br>Part 4: Electrical and electronic systems within structures                           | EN 62305-4    | -           |
| IEC 62561-1                    | -            | Lightning Protection System Components (LPSC) –<br>Part 1: Requirements for connection components                       | EN 62561-1    | -           |
| ISO 1460                       | -            | Metallic coatings – Hot dip galvanized coatings on ferrous metals – Gravimetric determination of the mass per unit area | EN ISO 1460   | -           |
| ISO 1461                       | -            | Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods                     | EN ISO 1461   | -           |
| ISO 2178                       | -            | Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method                       | EN ISO 2178   | -           |
| ISO 6892-1                     | 2009         | Metallic materials – Tensile testing –<br>Part 1: Method of test at room temperature                                    | EN ISO 6892-1 | 2009        |
| ISO 6957                       | 1988         | Copper alloys – Ammonia test for stress corrosion resistance                                                            | -             | -           |
| ISO 6988                       | 1985         | Metallic and other non-organic coatings – Sulfur dioxide test with general condensation of moisture                     | EN ISO 6988   | 1994        |

## **Bibliography**

**Add** the following reference:

EN 50164-2:2008, *Lightning Protection Components (LPC) – Part 2: Requirements for conductors and earth electrodes*

**Replace** the 2<sup>nd</sup> and 4<sup>th</sup> references by the following:

EN 60228, *Conductors of insulated cables (IEC 60228)*

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

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## INTRODUCTION

This part of IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC) used for the installation of a lightning protection system (LPS) designed and implemented according to the IEC 62305 series of standards.

## LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

### Part 2: Requirements for conductors and earth electrodes

#### 1 Scope

This part of IEC 62561 specifies the requirements and tests for:

- metallic conductors (other than “natural” conductors) that form part of the air termination system and down conductors;
- metallic earth electrodes that form part of the earth termination system.

#### 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.

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

IEC 60228, *Conductors of insulated cables*

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

IEC 62305-4, *Protection against lightning – Part 4: Electrical and electronic systems within structures*

IEC 62561-1, *Lightning protection system components (LPSC) – Part 1: Requirements for connection components*

ISO 1460, *Metallic coatings – Hot dip galvanized coatings on ferrous materials – Gravimetric determination of the mass per unit area*

ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods*

ISO 2178, *Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method*

ISO 6892-1:2009, *Metallic materials – Tensile testing – Part 1: Method of test at room temperature*

ISO 6957:1988, *Copper alloys – Ammonia test for stress corrosion resistance*

ISO 6988:1985, *Metallic and other non-organic coatings – Sulphur dioxide test with general condensation of moisture*