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Lightning protection system components (LPSC) - Part 4: Requirements for conductor fasteners

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/24

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EN IEC 62561-4

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November 2023

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English Version

**Lightning protection system components (LPSC) - Part 4:
Requirements for conductor fasteners
(IEC 62561-4:2023)**

Composants des systèmes de protection contre la foudre
(CSPF) - Partie 4: Exigences pour les fixations de
conducteurs
(IEC 62561-4:2023)

Blitzschutzsystembauteile (LPSC) - Teil 4: Anforderungen
an Leitungshalter
(IEC 62561-4:2023)

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EN IEC 62561-4:2023 (E)**European foreword**

The text of document 81/734/FDIS, future edition 3 of IEC 62561-4, prepared by IEC/TC 81 "Lightning protection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62561-4:2023.

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- latest date by which the national standards conflicting with the (dow) 2024-05-24 document have to be withdrawn

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 62305-1	NOTE	Approved as EN 62305-1
IEC 62305-4	NOTE	Approved as EN 62305-4
IEC 62561-4:2017	NOTE	Approved as EN 62561-4:2017 (not modified)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-52	2017	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	EN IEC 60068-2-52	2018
IEC 60068-2-75	2014	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	2014
IEC 62305-3 (mod)	2010	Protection against lightning - Part 3: Physical damage to structures and life hazard	EN 62305-3	2011
IEC 62561-1	-	Lightning protection system components (LPSC) - Part 1: Requirements for connection components	EN IEC 62561-1	-
ISO 4892-2	-	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps	EN ISO 4892-2	-
ISO 4892-3	2016	Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps	EN ISO 4892-3	2016
ISO 4892-4	-	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	-	-
ISO 22479	2019	Corrosion of metals and alloys – Sulfur dioxide test in a humid atmosphere (fixed gas method)	EN ISO 22479	2022



IEC 62561-4

Edition 3.0 2023-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Lightning protection system components (LPSC) –
Part 4: Requirements for conductor fasteners**

**Composants des systèmes de protection contre la foudre (CSPF) –
Partie 4: Exigences pour les fixations de conducteurs**



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Edition 3.0 2023-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Lightning protection system components (LPSC) –
Part 4: Requirements for conductor fasteners**

**Composants des systèmes de protection contre la foudre (CSPF) –
Partie 4: Exigences pour les fixations de conducteurs**

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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms and definitions	8
4 Classification.....	8
4.1 According to the material of the conductor fastener.....	8
4.2 According to the fixing arrangement of the conductor within the conductor fastener	8
4.3 According to the conductor clamping arrangement	8
5 Requirements	8
5.1 General.....	8
5.2 Environmental requirements	9
5.2.1 Corrosion resistance.....	9
5.2.2 Ultraviolet (UV) light resistance	9
5.3 Mechanical strength.....	9
5.3.1 Perpendicular and axial loads.....	9
5.3.2 Impact tests.....	9
5.4 Installation instructions	9
5.5 Marking.....	10
5.5.1 Content of marking	10
5.5.2 Durability and legibility.....	10
6 Tests	10
6.1 General test conditions	10
6.2 Preparation of the specimen	11
6.3 Environmental influence test	11
6.3.1 General	11
6.3.2 Metallic.....	11
6.3.3 Non-metallic	12
6.3.4 Composite	12
6.4 Resistance to mechanical effects	13
6.4.1 Lateral load test.....	13
6.4.2 Axial load test.....	14
6.4.3 Impact test.....	15
6.5 Installation instructions	15
6.5.1 General conditions.....	15
6.5.2 Acceptance criteria	15
6.6 Marking test.....	15
6.6.1 General test conditions	15
6.6.2 Acceptance criteria	15
6.7 Construction	16
7 Electromagnetic compatibility (EMC)	16
8 Structure and content of the test report.....	16
8.1 General.....	16
8.2 Report identification.....	16
8.3 Specimen description.....	17

8.4	Conductor	17
8.5	Standards and references	17
8.6	Test procedure.....	17
8.7	Testing equipment, description	17
8.8	Measuring instruments description	17
8.9	Results and parameters recorded	17
8.10	Statement of pass and fail	18
Annex A (normative) Resistance to corrosion for metallic and composite conductor fasteners		19
A.1	General.....	19
A.2	Salt mist treatment.....	19
A.3	Humid sulphurous atmosphere treatment	19
A.4	Ammonia atmosphere treatment.....	19
Annex B (normative) Environmental test for non-metallic and composite conductor fasteners – Resistance to ultraviolet light.....		20
B.1	General.....	20
B.2	Test	20
B.3	First alternative test to Clause B.2	20
B.4	Second alternative test to Clause B.2	20
Annex C (normative) Applicability of previous tests		21
Annex D (normative) Flow chart of tests for conductor fastener		22
Bibliography.....		23
Figure 1 – Basic arrangement of specimens.....		12
Figure 2 – Basic arrangement of lateral load test		13
Figure 3 – Typical arrangement for axial movement test		14
Figure D.1 – Flowchart of tests for conductor fastener		22
Table C.1 – Differences in the requirements for conductor fasteners complying with IEC 62561-4:2010 or 62561-4:2017		21

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

Part 4: Requirements for conductor fasteners

FOREWORD

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

This third edition cancels and replaces the second edition published in 2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alignment with the latest edition of ISO IEC 60068-2-52:2017 relating to salt mist atmosphere treatment;
- b) alignment with the new edition of ISO 22479:2019 relating to humid sulphurous atmosphere treatment;
- c) new normative annex for the applicability of previous tests.

The text of this International Standard is based on the following documents:

Draft	Report on voting
81/734/FDIS	81/740/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all the parts in the IEC 62561 series, published 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 document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

This part of IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC), specifically conductor fasteners used for the installation of a lightning protection system (LPS) designed and implemented in accordance with the IEC 62305 series.

LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

Part 4: Requirements for conductor fasteners

1 Scope

This part of IEC 62561 deals with the requirements and tests for metallic and non-metallic conductor fasteners that are used to retain and support the air-termination, down-conductor and earth-termination systems.

This document does not cover the fixing of conductor fasteners to the fabric of structures due to the vast number and types used in modern day construction.

Testing of components for an explosive atmosphere is not covered by this document. Extra requirements for the components can be necessary for LSCs intended for use in hazardous atmospheres.

NOTE In CENELEC member countries, testing requirements of components for explosive atmospheres are specified in CLC/TS 50703-2.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60068-2-52:2017, *Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)*

IEC 60068-2-75:2014, *Environmental testing – Part 2: Tests – Test Eh: Hammer tests*

IEC 62305-3:2010, *Protection against lightning – Part 3: Physical damage to structures and life hazard*

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

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

ISO 4892-3:2016, *Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps*

ISO 4892-4, *Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame carbon-arc lamps*

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