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Interested committees:

Title: Draft BS EN IEC 62561-1 Lightning protection system components (LPSC). Part 1: Requirements for connection components.

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- iii) requires additional national guidance or information

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## Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

## UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

## Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

## Template for comments and secretariat observations

|                  |                        |
|------------------|------------------------|
| Date: xx/xx/20xx | Document: ISO/DIS xxxx |
|------------------|------------------------|

| 1  | 2                                          | (3)                          | 4               | 5                                                                                                                                  | (6)                                                                      | 7                                                  |
|----|--------------------------------------------|------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------|
| MB | Clause No./ Subclause No./Annex (e.g. 3.1) | Paragraph/Figure/ Table/Note | Type of comment | Commend (justification for change) by the MB                                                                                       | Proposed change by the MB                                                | Secretariat observations on each comment submitted |
|    | 3.1                                        | Definition 1                 | ed              | Definition is ambiguous and needs clarifying.                                                                                      | Amend to read '...so that the mains connector to which no connection...' |                                                    |
|    | 6.4                                        | Paragraph 2                  | te              | The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK. | Delete reference to UV photometer.                                       |                                                    |



81/647/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

**IEC 62561-1 ED3**

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CLOSING DATE FOR COMMENTS:

**2021-03-26**

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**81/642/RR**

IEC TC 81 : LIGHTNING PROTECTION

SECRETARIAT:

Italy

SECRETARY:

Mrs Marina Bernardi

OF INTEREST TO THE FOLLOWING COMMITTEES:

SC 37A, TC 64, SC 86A, TC 88

PROPOSED HORIZONTAL STANDARD:

☐

Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☒ SAFETY

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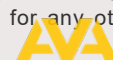
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TITLE:

**Lightning protection system components (LPSC) - Part 1: Requirements for connection components**

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

### Part 1: Requirements for connection components

#### FOREWORD

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International Standard IEC 62561-1 has been prepared by IEC technical committee 81: Lightning protection.

**This second edition cancels and replaces the first edition, published in 2012. This edition constitutes a technical revision.**

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

- a) definitions of connection types mentioned in the scope of document have been added;
- b) location classification has been expanded in detail;
- c) requirements for approved measuring system have been added under clause 8.9.

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

| FDIS | Report on voting |
|------|------------------|
| xxx  | xxx              |

130  
131 Full information on the voting for the approval of this International Standard can be found in  
132 the report on voting indicated in the above table.

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

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

136 The committee has decided that the contents of this document will remain unchanged until the  
137 stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to  
138 the specific document. At this date, the document will be

- 139 • reconfirmed,
- 140 • withdrawn,
- 141 • replaced by a revised edition, or
- 142 • amended.

143

144

## INTRODUCTION

145

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

149

150

# LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

## Part 1: Requirements for connection components

### 1 Scope

This part of IEC 62561 specifies the requirements and tests for metallic connection components that form part of a lightning protection system (LPS). Typically, these can be connectors, clamps, bonding and bridging components, expansion pieces and test joints.

For the purposes of this document the following connection types are considered as connection components: exothermic, brazing, welding, clamping, crimping, seaming, screwing or bolting.

Testing of components for an explosive atmosphere is not covered by this document.

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

IEC 62561-2, *Lightning protection system components (LPSC) – Part 2: Requirements for conductors and earth electrodes*

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)*

### 3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 3.1

##### connection component

part of an external LPS which is used for the connection of conductors to each other or to metallic installations

EXAMPLE The scope clause refers to examples.

#### 3.2

##### conductor

element intended to carry electric current

IEV ref 151-12-05

Note 1 to entry: Metal installation is not intended to carry electrical current.