IEC 63067

Edition 1.0 2020-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrical installations for lighting and beaconing of aerodromes – Connecting devices – General requirements and tests

Installations électriques pour l'éclairage et le balisage des aérodromes – Dispositifs de connexion – Exigences générales et essais

IEC 63067:2020-06(en-fr)

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ICS 29.140.50; 93.120

ISBN 978-2-8322-8516-9

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ELECTRICAL INSTALLATIONS FOR LIGHTING AND BEACONING OF AERODROMES – CONNECTING DEVICES – GENERAL REQUIREMENTS AND TESTS

FOREWORD

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International Standard IEC 63067 has been prepared by IEC technical committee 97: Electrical installations for lighting and beaconing of aerodromes.

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

FDIS	Report on voting
97/216/FDIS	97/217/RVD

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

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

In this document, the following print types are used:

– conformity statements: *in italic type.*

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

- reconfirmed,
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- replaced by a revised edition, or
- amended.

INTRODUCTION

This document is based on the Federal Aviation Administration circular AC No. 150/5345-26D, which is listed in the bibliography for convenience.

ELECTRICAL INSTALLATIONS FOR LIGHTING AND BEACONING OF AERODROMES – CONNECTING DEVICES – GENERAL REQUIREMENTS AND TESTS

1 Scope

This document applies to plugs and receptacles for single or multiple pole connecting devices used for aeronautical ground lighting applications.

Additional requirements and usage of connecting devices are given in different parts of IEC 61820 series.

Connecting devices complying with this document are suitable for use in environmental class E11 according to IEC 61820-1.

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 60352-2:2006, *Solderless connections – Part 2: Crimped connections – General requirements, test methods and practical guidance*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 61820-1, *Electrical installations for aeronautical ground lighting at aerodromes – Part 1: Fundamental principles*

ISO 2859-1, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61820-1, and the following apply.

NOTE Where the terms "voltage" and "current" are used in this document, they are RMS values, unless otherwise specified.

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
plug
accessory having pin(s) designed to engage with the socket contact(s) of a receptacle, incorporating means for the electrical connection and insulated mechanical casting for retention of cable or wires