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Aerospace series - Electrical bonding - Technical specification

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. 02/20

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EUROPEAN STANDARD
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EN 3371

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English Version

Aerospace series - Electrical bonding - Technical specification

Série aérospatiale - Métallisation - Spécification technique

Luft- und Raumfahrt - Elektrische Masseverbindung - Technische Lieferbedingungen

This European Standard was approved by CEN on 21 January 2019.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 3371:2019) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2020, and conflicting national standards shall be withdrawn at the latest by February 2020.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This document has taken into consideration STANAG 3659.

1 Scope

This document specifies the characteristics as well as the verification of bonding in on-board aircraft electrical systems.

They refer basically to requirements relating to the effect of lightning, return currents, electromagnetic interference, as well as to the accumulation of electrostatic charges and personnel shock hazard.

This standard states the maximum permissible resistance values which guarantee, according to the installation, good conductivity of the whole of the structure, of the whole installation and the bonding terminals; these values shall ensure correct operation of the systems.

The rules of installation are defined in EN 3197.

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.

EN 3197, *Aerospace series — Design and installation of aircraft electrical and optical interconnection systems*

STANAG 3659, *Electrical bonding requirements for metallic aircraft systems* [1)]

1) Published by: NATO EU Mil. - National (US) Mil. North Atlantic Treaty Organization http://www.nato.int/docu/standard.htm