

Irish Standard I.S. EN 2283:2010

Aerospace series - Testing of aircraft wiring

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I.S. EN 2283:2010

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English Version

Aerospace series - Testing of aircraft wiring

Série aérospatiale - Vérification des câblages d'aéronefs

Luft- und Raumfahrt - Prüfung der Verkabelung von Luftfahrzeugen

This European Standard was approved by CEN on 4 March 2010.

CEN 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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

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EN 2283:2010 (E)

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EN 2283:2010 (E)

Foreword

This document (EN 2283:2010) 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of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

This document supersedes EN 2283:1996.

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

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Introduction

Due to the diversity of aircraft, manufacturing and installing methods for wiring, the tests defined in Clause 1 are carried out at different stages in the manufacturing programme:

- after assembly of cables into bundles before installation in the aircraft;
- after installation of bundles into the aircraft;
- after repairs or modifications.

1 Scope

This European Standard specifies:

- the tests for finished wiring, including connectors and, if necessary, terminals, terminal ends, junction boxes, circuit breakers, etc.;
- these tests do not concern equipment installed in the aircraft (see operation of systems and do not apply to the wiring used instrumentation;
- the requirements for verification of aircraft electrical wiring;
 - continuity of circuits;
 - dielectric strength;
 - insulation resistance.

2 Normative references

The following referenced documents are indispensable for the application 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 2282, Aerospace series – Characteristics of aircraft electrical supplies

EN 61557-2, Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 2: Insulation resistance (IEC 61557-2:2007)

EN 61557-4, Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 4: Resistance of earth connection and equipotential bonding (IEC 61557-4:2007)

ISO 2678, Environmental tests for aircraft equipment – Insulation resistance and high voltage tests for electrical equipment



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