SLOVENSKI STANDARD
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 325: Ice resistance

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 325: Beständigkeit gegen Eis

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 325: Résistance a la glace

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This European Standard was approved by CEN on 8 February 2002.

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 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 Management Centre has the same status as the official versions.

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

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Foreword

This document (EN 2591-325:2002) has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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 AECMA, 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of an identical text or by endorsement, at the latest by December 2002, and conflicting national standards shall be withdrawn at the latest by December 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom

1 Scope

This standard specifies two methods for measuring the ability for a connector to resist ice.

It shall be used together with EN 2591-100.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 2591-100 Aerospace series – Elements of electrical and optical connection – Test methods – Part 100: General [1)]

3 Preparation of specimens

The specimens shall be fitted with their normal accessories, and wired up in accordance with the technical specification.

The following details shall be specified in the technical specification:

– coupling and uncoupling torque.

4 Method

4.1 Method A, water immersion test

The specimens shall be totally immersed in water for 1 min and then shaken to remove excess water. They are then placed in chamber with the temperature maintained at $(-65\ ^{0}_{-5})$ °C for 1 h.

This procedure shall be repeated three times.

Immediately after the third immersion, the specimens shall be unmated and mated twice.

Coupling and uncoupling torque measurements shall be performed during the second operation.

1) Published as AECMA Prestandard at the date of publication of this standard

4.2 Method B, water spraying test

The specimens shall be placed in a chamber where the temperature is maintained at $(-18\ ^{0}_{-5})$ °C for 1 h.

Immediately after removal from the chamber, the specimens shall be sprayed with water at $(2\ ^{+5}_{0})$ °C over their entire surface for 5 min.

The spray shall be placed at a maximum of 305 mm distance from the specimen.

After spraying, the specimens shall be replaced in the chamber where the temperature is maintained at $(-18\ ^{0}_{-5})$ °C for 30 min.

Immediately after removal from the chamber, coupling and uncoupling torque measurements shall be performed.

5 Requirements

The torque measurements shall be within the limits specified in the technical specification.