SLOVENSKI STANDARD
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 311: Low air pressure

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 311: Niedriger Luftdruck

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 311: Basse pression atmosphérique

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries 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of an identical text or by endorsement, at the latest by April 1998, and conflicting national standards shall be withdrawn at the latest by April 1998.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies a method of assessing the ability of elements of connection to operate at low air pressure.

It shall be used together with EN 2591.

This method forms part of test EN 2591-302.

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	Aerospace series - Elements of electrical and optical connection - Test methods - General
EN 2591-207	Aerospace series - Elements of electrical and optical connection - Test methods - Part 207: Voltage proof test
EN 2591-302	Aerospace series - Elements of electrical and optical connection - Test methods - Part 302: Climatic sequence [1)]

3 Preparation of specimens

3.1 Specimens shall be prepared according to the technical specification.

Unless otherwise specified, 50 % of cables shall be of the minimum diameter, 50 % of the maximum diameter, evenly distributed.

3.2 Unless specified in the technical specification, the following details shall be stated:

- specimen mated or unmated and fitted with protective cover (if applicable);
- mounting method, type of cable and definition of specimen wiring;
- preconditioning and initial measurements (if applicable);
- method according to EN 2591-207 and voltage value.

4 Apparatus

The test chamber shall have provisions for sealing of electrical cables going in and out of the chamber. The volume of the chamber shall not exceed 1 m^3.

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

5 Method

5.1 Preconditioning and initial measurements (if applicable)

They shall be carried out as specified.

5.2 Severity

It shall be selected from the values listed in table 1.

Table 1

Altitude	Corresponding pressure	
m	kPa	mbar
15 000	12,1	121
21 000	4,7	47
30 000	1,1	11

5.3 Procedure

5.3.1 The chamber pressure shall be reduced from ambient to the specified value within 5 min to 15 min and maintained for 30 min.

5.3.2 Intermediate measurements and requirements

The test EN 2591-207 shall be carried out using the specified method and voltage value.

5.3.3 The chamber pressure shall then be returned to the ambient pressure level within 1 min.