



**SLOVENSKI STANDARD
SIST EN 3475-301:2004**

01-maj-2004

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 301: Ohmic resistance per unit length

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 301: Ohmic resistance per unit length

Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt, Verwendung - Prüfverfahren - Teil 301: Leiterwiderstand

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Série aérospatiale - Câbles électriques a usage aéronautique - Méthodes d'essai - Partie 301: Résistance électrique linéique

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Ta slovenski standard je istoveten z: EN 3475-301:2002

ICS:

49.060 Štejni sistemi in oprema za letalstvo in zrakoplovstvo Aerospace electric equipment and systems

SIST EN 3475-301:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3475-301

January 2002

ICS 49.060

English version

**Aerospace series - Cables, electrical, aircraft use - Test
methods - Part 301: Ohmic resistance per unit length**

Série aérospatiale - Câbles électriques à usage
aéronautique - Méthodes d'essai - Partie 301: Résistance
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Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt,
Verwendung - Prüfverfahren - Teil 301: Leiterwiderstand

This European Standard was approved by CEN on 5 August 2001.

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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 3475-301:2002) 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 July 2002, and conflicting national standards shall be withdrawn at the latest by July 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 a method of measuring electrical resistance per unit length.

It shall be used together with EN 3475-100.

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 3475-100 Aerospace series – Cables, electrical, aircraft use – Test methods – Part 100: General

3 Preparation of specimens

The specimens, having a minimum length of 1 m, shall be taken from finished cable.

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4 Method

The resistance of the conductor shall be stabilized to the ambient temperature and measured with the use of a suitable bridge. If the local ambient temperature θ is not 20 °C the measured resistance in ohms, R_{θ} , shall be corrected to 20 °C by use of the following formulae.

$$R_{\theta} = R_{20} [1 + 0,004 (\theta - 20)]$$

except for high strength copper alloy, where:

$$R_{\theta} = R_{20} [1 + 0,0035 (\theta - 20)]$$

5 Requirement

The resistance value, corrected to 20 °C shall be less than or equal to the value stated in the relevant product standard.