



SLOVENSKI STANDARD SIST EN 3475-701:2004

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Aerospace series - Cables, electrical, aircraft use - Test methods - Part 701: Strippability and adherence of insulation to the conductor

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Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt, Verwendung - Prüfverfahren - Teil 701: Abisolierbarkeit und Haftfestigkeit der Isolierung auf dem Leiter

Série aérospatiale - Câbles électriques a usage aéronautique - Méthodes d'essais - Partie 701: Dénudabilité et adhérence de l'isolation sur le conducteur

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Ta slovenski standard je istoveten z: EN 3475-701:2002

ICS:

49.060 Številni sistemi za letalsko opremo in sisteme
Aerospace electric equipment and systems

SIST EN 3475-701:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3475-701

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ICS 49.060

English version

**Aerospace series - Cables, electrical, aircraft use - Test
methods - Part 701: Strippability and adherence of insulation to
the conductor**

Série aérospatiale - Câbles électriques à usage
aéronautique - Méthodes d'essais - Partie 701:
Dénudabilité et adhérence de l'isolation sur le conducteur

Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt,
Verwendung - Prüfverfahren - Teil 701: Abisolierbarkeit und
Haftfestigkeit der Isolierung auf dem Leiter

This European Standard was approved by CEN on 6 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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN 3475-701:2002) 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 standards, either by publication of an identical text or by endorsement, at the latest by August 2002, and conflicting national standards shall be withdrawn at the latest by August 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 the strippability and adherence of the insulation to a conductor of a finished cable.

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

EN 2812 Aerospace series – Stripping of electric cables ¹⁾

3 Preparation of specimens

3.1 Insulation stripping properties

Stripping shall be carried out without difficulty over 5 mm for cables with sections up to 5 mm² and over 8 mm for cables with a section greater than 5 mm² at the two ends of each specimen using the stripping tools in accordance with EN 2812.

The manufacturer shall state in the test report which tools have been used.

3.2 Adherence of insulation to the conductor

The adherence of the insulation shall be adequate when tests are carried out on the specimens prepared according to figure 1.

The insulation shall be cut around the whole periphery of each specimen 5 mm and 30 mm from one end (for sizes up to 5 mm²).

The insulation shall then be stripped from both ends to leave a length of insulation on the conductor.

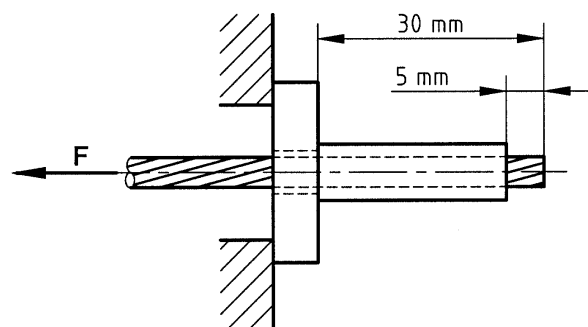


Figure 1

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

EN 3475-701:2002 (E)

4 Methods

4.1 Method for stripping capability of the jacket (screened cables)

The stripping capability is characterised by the time required to strip a 80 mm length of the jacket.

A suitable tool shall be used.

4.2 Method for adherence of the insulation

Pass the conductor through a calibrated hole (conductor diameter + 0,05 mm) and subject it to an increasing tensile force F until it slides inside the insulating cover.

The tensile speed shall be (100 ± 10) mm/min.

5 Requirements

5.1 Requirements for stripping capability of the jacket (screened cables)

The stripping operation shall not exceed 40 s for a suitably skilled operator.

5.2 Requirement for adherence of the insulation

The minimum values of the forces of adherence shall be at least equal to the values specified in the technical specification.

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