



SLOVENSKI STANDARD

SIST EN 3475-701:2018

01-februar-2018

Nadomešča:

SIST EN 3475-701:2004

**Aeronavtika - Električni kabli za uporabo v letalih - Preskusne metode - 701. del:
Odstranljivost in oprijemljivost izolacije vodnika**

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

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

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

Ta slovenski standard je istoveten z: EN 3475-701:2017

ICS:

29.060.20	Kabli	Cables
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

SIST EN 3475-701:2018

en,fr,de

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EUROPEAN STANDARD

EN 3475-701

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

ICS 49.060

Supersedes EN 3475-701:2002

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 Luftfahrtverwendung - Prüfverfahren - Teil 701: Abisolierbarkeit und Haftfestigkeit der Isolierung auf dem Leiter

This European Standard was approved by CEN on 23 July 2017.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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European foreword

This document (EN 3475-701:2017) 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 European 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 April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

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

This document supersedes EN 3745-701:2002.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 3475-701:2017 (E)

1 Scope

This European Standard specifies methods of measuring the strippability and adherence of the insulation to a conductor of a finished cable.

When a particular method is not specified in the detail product specification, method A shall be used.

Method B is recommended for wires insulated with materials showing a Low adhesion to the conductor due to the poor repeatability of the test Method A with this type of wires.

It shall be used together with EN 3475-100.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2812, *Aerospace series — Stripping of electric cables*

EN 3475-100, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General*

3 Preparation of specimens

3.1 General

Measurement shall be done on samples directly out of a reel or out of a coil with a minimum of deformation.

3.2 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.

3.3 Adherence of insulation to the conductor

3.3.1 Method A

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.

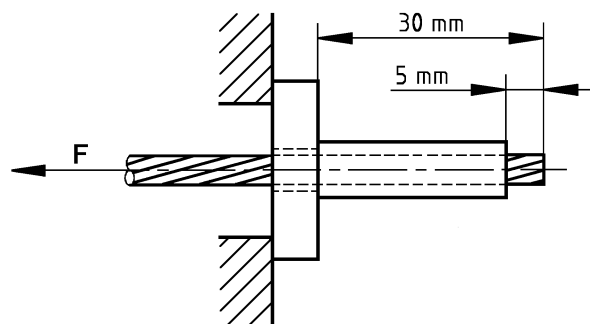


Figure 1

3.3.2 Method B

The adherence of the insulation shall be adequate when tests are carried out on the specimens prepared according to Figure 2.

The insulation shall be cut around the whole periphery of each specimen 5 mm and 55 mm from one end.

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

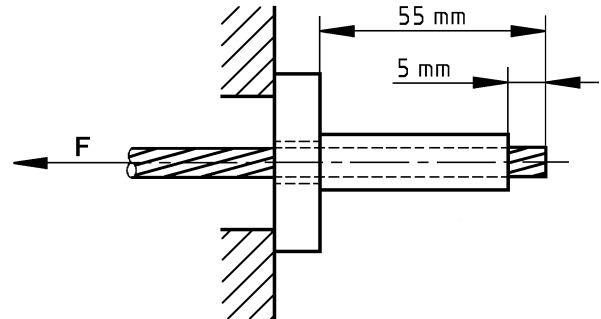


Figure 2

4 Methods

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

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

A suitable tool shall be used.

4.2 Methods for adherence of the insulation

4.2.1 Method A

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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.

4.2.2 Method B

Three (3) measurements per sample are required.

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.

EN 3475-701:2017 (E)**5.2 Requirement for adherence of the insulation****5.2.1 Method A**

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

5.2.2 Method B

The minimum value of each measurement of the force of adherence shall be at least equal to the value specified in the product standard.

If one measurement is less than the value specified in the product standard, two (2) other measurements are done.

The median value of the five (5) measurements shall be at least equal to the value specified in the product standard.

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