SLOVENSKI STANDARD
SIST EN 3475-413:2004

01-maj-2004

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 413: Wrap back test

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 413: Wrap back test

Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrtverwendung - Prüfverfahren - Teil 413: Wickelprüfung

Série aérospatiale - Câbles électriques à usage aéronautique - Méthodes d'essais - Partie 413: Contrôle par enroulement du scellement

Ta slovenski standard je istoveten z: **EN 3475-413:2002**

ICS:

49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

SIST EN 3475-413:2004 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3475-413

June 2002

ICS 49.060

English version

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 413: Wrap back test

Série aérospatiale - Câbles électriques à usage aéronautique - Méthodes d'essais - Partie 413: Contrôle par enroulement du scellement

Luft- und Raumfahrt - Elektrischen Leitungen für Luftfahrt Verwendung - Prüfverfahren - Teil 413: Wickelprüfung

This European Standard was approved by CEN on 20 January 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.

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.

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

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

Ref. No. EN 3475-413:2002 E

Foreword

This document (EN 3475-413:2002) 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 a method for detecting cracking, porosity and bad adhesion of the various layers of PTFE insulation tape on 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 3475-302 Aerospace series – Cables, electrical, aircraft use – Test methods – Part 302: Voltage proof test

3 Preparation of a specimen

The preparation of a specimen shall consist in winding a sufficient length of completed cable around itself at least 10 times, so that the cable itself acts as a mandrel.

4 Apparatus

An air circulating oven shall be required for this test.

5 Method

5.1 Procedure

The prepared specimen shall be placed in the oven at a temperature of (310 ± 5) °C for 3 h.

After the 3 h, the specimen shall be removed from the oven and cooled for at least 1 h at ambient temperature.

5.2 Requirements

After being returned to ambient temperature the PTFE cable insulation shall show no cracking or debonding of layers along the insulation.

The specimen shall pass the voltage proof test requirements specified in EN 3475-302:

- after being wound before ageing;
- after ageing, still wound;
- after being unwound and straightened.