



**SLOVENSKI STANDARD
SIST EN 3475-406:2004**

01-maj-2004

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 406: Cold bend test

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Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt, Verwendung - Prüfverfahren - Teil 406: Wickeln bei Kälte

Série aérospatiale - Câbles électriques a usage aéronautique - Méthodes d'essai - Partie 406: Enroulement a froid

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Ta slovenski standard je istoveten z: EN 3475-406:2002

ICS:

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

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3475-406

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English version

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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

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Foreword

This document (EN 3475-406:2002) 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 determining the behaviour of a finished cable after a cold bend test. 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

Take a length of at least 750 mm from a finished cable.

4 Apparatus

The test shall require a cold chamber and a supported horizontal mandrel. The mandrel diameter and mass shall be given in the technical specification.

5 Method

5.1 Procedure

Unless otherwise indicated in the product standard, attach one of the ends of the specimen of at least 750 mm length to a horizontal mandrel and load the other end.

Place the unit in a chamber at a temperature of (-55 ± 2) °C for 1 h.

Turn the mandrel at the rate of 2 rpm to 3 rpm until the total length of the specimen is wound around the mandrel. Turn the mandrel in the opposite direction until the total length of the specimen is wound, the compressed part in the first operation becoming the stretched part in the second.

The cycle shall be performed twice.

5.2 Requirements

After being returned to ambient temperature the cable insulation shall show no cracking or crazing.

After completion of this test the specimen shall pass the voltage test defined in EN 3575-302.