SLOVENSKI STANDARD
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Aerospace series - Cables, electrical, aircraft use - Test methods - Part 405: Bending at ambient temperature

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Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt, Verwendung - Prüfverfahren - Teil 405: Biegen bei Raumtemperatur

Série aérospatiale - Câbles électriques à usage aéronautique - Méthodes d'essai - Partie 405: Courbure a la température ambiante

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 3475-405:2002) 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of an identical text or by endorsement, at the latest by July 2002, and conflicting national standards shall be withdrawn at the latest by July 2002.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 cable after a bend test at ambient temperature.

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 specimen at least 750 mm in length from a finished cable.

4 Apparatus

A horizontally supported mandrel shall be required for this test. The diameter of the mandrel and the load weight to be used shall be given in the technical specification.

5 Method

5.1 Procedure

Fix one end of the specimen to the mandrel and load the other end.

Turn the mandrel at between two and three turns per minute until the total length of the specimen is wound around it. Move 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 Requirement

On completion, the specimen shall pass the voltage proof test defined in EN 3475-302.