



SLOVENSKI STANDARD
SIST EN 4057-100:2009
01-maj-2009

Aeronavtika - Kabelske spojke za vezalno pasovje - Preskusne metode - 100. del: Splošno

Aerospace series - Cable ties for harnesses - Test methods - Part 100: General

Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 100: Allgemeines

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Série aérospatiale - Frettes de câblage pour harnais - Méthodes d'essais - Partie 100 : Généralités

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

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4057-100

December 2006

ICS 49.060

English Version

**Aerospace series - Cable ties for harnesses - Test methods -
Part 100: General**

Série aérospatiale - Frettes de câblage pour harnais -
Méthodes d'essais - Partie 100 : Généralités

Luft- und Raumfahrt - Befestigungsbänder für
Leitungsbündel - Prüfverfahren - Teil 100: Allgemein

This European Standard was approved by CEN on 28 October 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, 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

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Foreword

This document (EN 4057-100:2006) 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 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 June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

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

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

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EN 4057-100:2006 (E)**1 Scope**

This standard specifies the general requirements and test procedures for cable ties for harnesses for aircraft use. This standard does not include accessories such as mounting brackets, identification lags or reusable cable ties.

2 Normative references

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

EN 4056-001, *Aerospace series — Cable ties for harnesses — Part 001: Technical specification*

EN 4057, *Aerospace series — Cable ties for harnesses — Test methods*

3 Definitions

For the purposes of this standard the definitions in EN 4056-001 apply.

4 General test conditions**4.1 Preparation of specimens for test**

Unless otherwise specified, the specimens shall be placed in a chamber maintained at a temperature of $(20 \pm 2) ^\circ\text{C}$ with a relative humidity of $(20 \pm 5) \%$ for 24 h. Immediately upon removal from the chamber the specimens shall be stored $(20 \pm 5) ^\circ\text{C}$, in an airtight container for a minimum of 30 min. When required, the specimens shall be installed on the test fixtures immediately on removal from the airtight container.

4.2 Installation of specimens on test fixtures

Cable ties shall be installed with a qualified application tool, set to the required tension as defined in the appropriate product standard.

4.3 Atmospheric environment

The tests shall be carried out under the following normal atmospheric environment:

- temperature of $(20 \pm 5) ^\circ\text{C}$. In the event of a dispute, the tests shall be conducted at $(23 \pm 2) ^\circ\text{C}$;
- relative humidity (r.h.) not greater than 80 %.

5 Reporting results

The following details shall be reported:

- a) Approved of drawing;
- b) Materials and colours;
- c) Type and size code;
- d) Application tool type and application torsion values;
- e) Test-results.

6 Test methods

See Table 1, 2 and 3.

Table 1 — General tests

EN 4057 Part	Title	Remarks
201	Visual examination	
202	Examination of mass and dimensions	

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Table 2 — Environmental tests

EN 4057 Part	Title	Remarks
301	Salt mist test	Applicable only to ties containing metallic parts
302	Flammability	
303	Resistance to fluids	
304	Loop tensile strength at maximum working temperature	
305	Colour fastness	Applicable only to coloured ties. Not applicable to natural
306	Heat ageing test	
307	Resistance to ultraviolet radiation	

Table 3 — Mechanical tests

EN 4057 Part	Title	Remarks
401	Loop tensile strength	
402	Life cycle	
404	Low temperature installation	
405	Compass safe distance	Applicable only to ties containing metallic parts.
406	Locking device retention	Applicable only to ties containing metallic parts.
407	Verification of application tool settings	

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