

**SLOVENSKI STANDARD**  
**SIST EN 4057-406:2009**  
**01-junij-2009**

---

**Aeronautika - Kabelske spojke za vezalno pasovje - Preskusne metode - 406. del:  
Zadrževanje zapornega mehanizma**

Aerospace series - Cable ties for harnesses - Test methods - Part 406: Locking device retention

Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 406:  
Verschlusszungen Auszugskraft

**PRE STANDARD PREVIEW**

**(standards.iteh.ai)**

Série aérospatiale - Frettes de câblage pour harnais - Méthodes d'essais - Partie 406 :  
Rétention du système de verrouillage [SIST EN 4057-406:2009](#)

<https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-6134bbc3af10/sist-en-4057-406-2009>

**Ta slovenski standard je istoveten z: EN 4057-406:2006**

---

**ICS:**

49.060 Ščepki za električno opremljeni sistem in električne naprave in sisteme Aerospace electric  
čepki za električno opremljeni sistem in električne naprave in sisteme equipment and systems

**SIST EN 4057-406:2009**

en,de

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 4057-406:2009

<https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-6134bbc3afl0/sist-en-4057-406-2009>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 4057-406

December 2006

ICS 49.060

English Version

Aerospace series - Cable ties for harnesses - Test methods -  
Part 406: Locking device retention

Série aérospatiale - Frettes de câblage pour harnais -  
Méthodes d'essais - Partie 406 : Rétention du système de  
verrouillage

Luft- und Raumfahrt - Befestigungsbänder für  
Leitungsbündel - Prüfverfahren - Teil 406:  
Verschlussungen Auszugskraft

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.

*SIST EN 4057-406:2009*

*<https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-6134bbc3af10/sist-en-4057-406-2009>*



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

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

## Contents

	Page
<b>Foreword</b> .....	<b>3</b>
<b>1 Scope</b> .....	<b>4</b>
<b>2 Normative references</b> .....	<b>4</b>
<b>3 Preparation of specimen</b> .....	<b>4</b>
<b>4 Apparatus</b> .....	<b>4</b>
<b>5 Procedure</b> .....	<b>4</b>
<b>6 Requirements</b> .....	<b>4</b>

## iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 4057-406:2009

<https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-6134bbc3af10/sist-en-4057-406-2009>

## Foreword

This document (EN 4057-406:2006) 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.

## ITEh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 4057-406:2009](#)

<https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-6134bbc3af10/sist-en-4057-406-2009>

## EN 4057-406:2006 (E)

### 1 Scope

This standard specifies the procedure for measuring the force required to pull out the metallic locking device from the head of the cable tie when the force is applied in the manner specified.

It shall be used together with EN 4057-100.

### 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 4057-100, *Aerospace series — Cable ties for harnesses — Test methods — Part 100: General*

### 3 Preparation of specimen

Section the head of the cable tie along the plane as shown in Figure 2, taking care not to move the locking device during this process.

Precondition the cable tie as required in EN 4057-100.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

A tensile tester that will separate at a constant rate of 25 mm/min and 50 mm/min and apply sufficient force to pull out the locking device.

SIST EN 4057-406:2009

<https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-61546bc3af10/sist-en-4057-406-2009>  
A sample mounting fixture as in Figure 1, capable of being fitted onto the tensile testing machine and suitable for the size of cable tie being tested.

### 5 Procedure

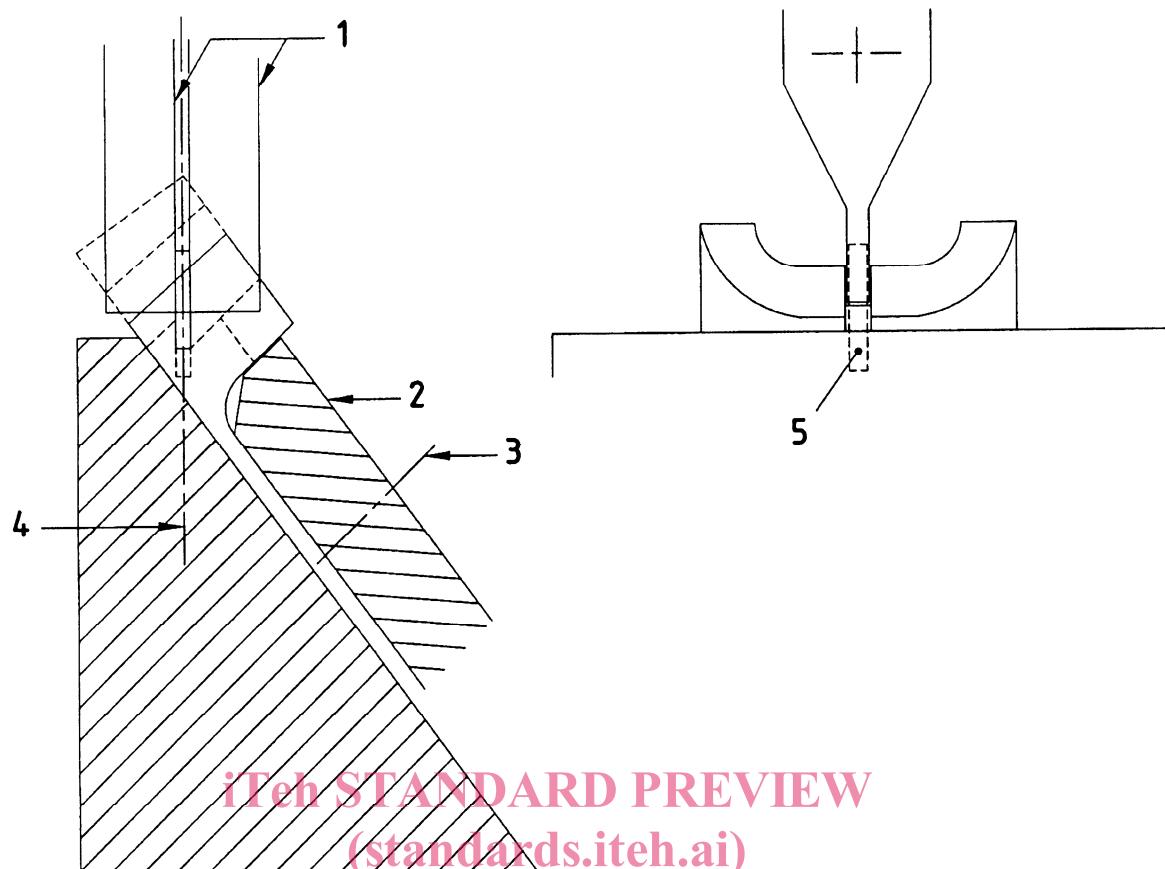
Securely mount the cable tie head in bottom fixture as shown in Figure 1.

Lock the top clamps onto the locking device and assemble into the tensile test machine ensuring that the locking device is aligned along the axis of pull.

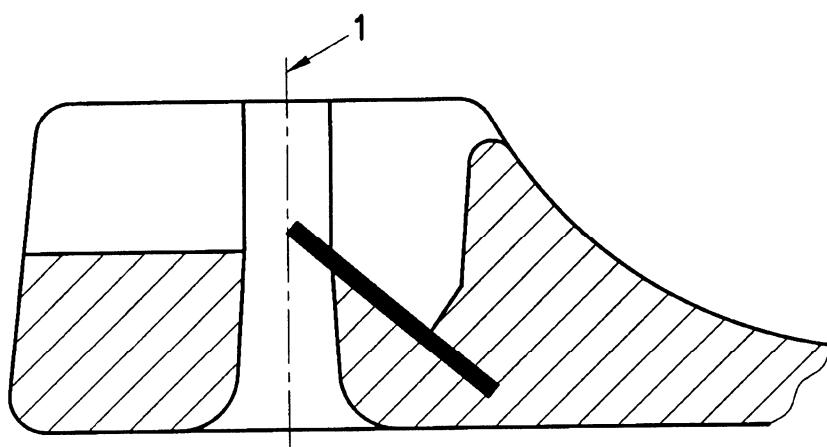
Separate the jaws of the tester at 25 mm/min and 50 mm/min and record the maximum force required to pull out the locking device from the cable tie head.

### 6 Requirements

The force to pull the locking device out from the head of the cable tie, shall meet the requirements specified in the appropriate product standard.

**Key**

1	Locking device grips	SIST EN 4057-406:2009
2	Clamp plate	<a href="https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-6134bbc3af10/sist-en-4057-406-2009">https://standards.iteh.ai/catalog/standards/sist/30e15d69-a858-42be-b85e-6134bbc3af10/sist-en-4057-406-2009</a>
3	Pinch bolt	
4	Locking device on centre line of pull	
5	Locking device	

**Figure 1 — Sample mounting fixture****Key**

1 Section on this plane

**Figure 2 — Head sectioning plane**