SLOVENSKI STANDARD

SIST EN 4057-407:2006

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Aeronavtika – Kabelske spojke za vezalno pasovje – Preskusne metode – 407. del: Overjanje nastavitev orodja

Aerospace series - Cable ties for harnesses - Test methods - Part 407: Verification of application tool settings

Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 407: Werkzeugverifikation

Série aérospatiale - Frettes de câblage pour harnais - Méthodes d'essais - Partie 407 : Vérification du réglage des outils de mise en oeuvre

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Aerospace series - Cable ties for harnesses - Test methods - Part 407: Verification of application tool settings

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Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 407: Werkzeugverifikation

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This European Standard (EN 4057-407:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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.

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1 Scope

This standard specifies the procedure for verifying tensile loads applied on cable ties by application tools.

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*

MS 90387, *Tool, hand, adjustable for plastic and metal tiedown straps*

3 Apparatus

The verification tool shown in Figure 1 consists of a supporting structure, a tensometer (range from 50 N to 600 N) with a direct readout and a device for recording the maximum force reading, and an application tool guide.

4 Procedure

Adjust the application tool to the size of the cable tie and ensure that the tensometer is positioned directly in line with the tool strap guide.

Insert the cable tie horizontally into the tool and attach the cable tie head to the tensometer. Position the tensometer recording needle above the scale needle, ensuring that the latter is at zero. If not, adjust the tensometer to read zero. Ensuring that the tool under test remains stationary, exert a steady pressure on the handle, until the cable tie strap is cut. Record the measured tensile force. If necessary adjust the application tool so that the strap is cut at the maximum application force recommended in the cable tie product standard with a tolerance of ± 5 %.

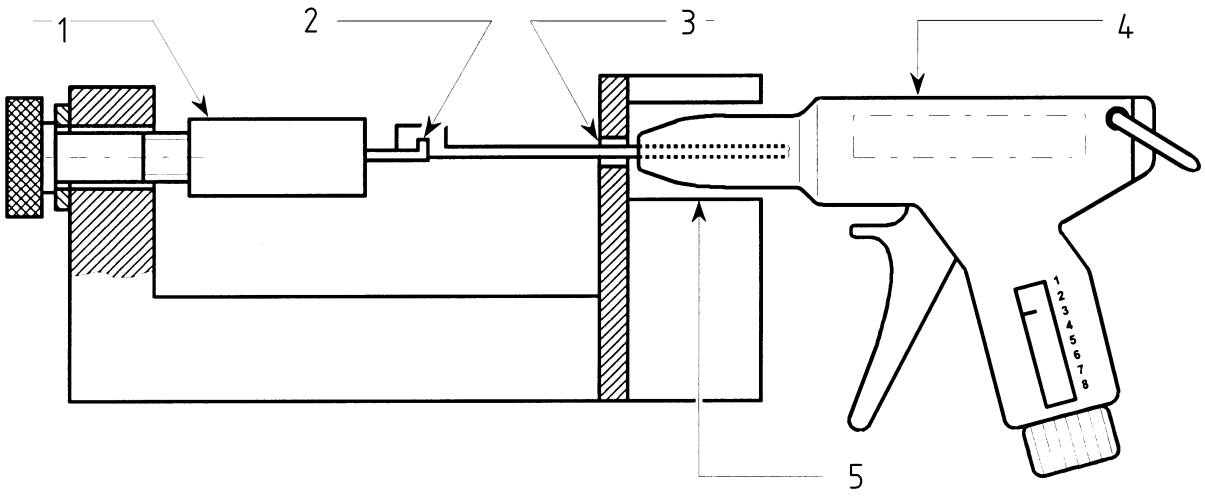
Confirm that the correct tensile force is repeatable, by taking readings for five identical cable ties.

The above procedure shall be repeated for all sizes and types of cable tie, for which the tool will be used.

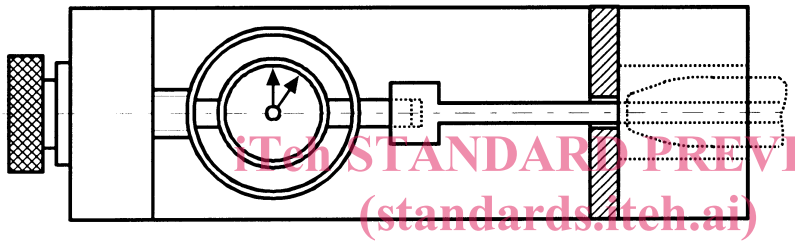
5 Requirements

The values shall be as specified on products standards.

Front view



Top view



Key

1 Tensometer
2 Hook for horizontal strap
3 Slot for cable tie
4 Application tool as per MS90387
5 Tool guide

Figure 1 — General tool configuration