O5: 1 Aerospace series - Cables, electrical, aircraft use - Test methods - Part 505: Tensile test on conductors and strands



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	This Estonian standard EVS-EN 3475-505:2012
sisaldab Euroopa standardi EN 3475-505:2012	consists of the English text of the European standard
ingliskeelset teksti.	EN 3475-505:2012.
S	
Standard on jõustunud sellekohase teate	This standard has been endorsed with a notification
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Euroopa standardimisorganisatsioonid on teinud	Date of Availability of the European standard is
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EUROPEAN STANDARD NORME EUROPÉENNE

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English Version

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 505: Tensile test on conductors and strands

Série aérospatiale - Câbles électriques à usage aéronautique - Méthodes d'essais - Partie 505: Résistance à la traction des conducteurs et des brins Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrtverwendung - Prüfverfahren - Teil 505: Zugfestigkeit der Einzeldrähte und Leiterseile

This European Standard was approved by CEN on 20 August 2011.

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

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Foreword

This document (EN 3475-505:2012) 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of an identical text or by endorsement, at the latest by September 2012, and conflicting national standards shall be withdrawn at the latest by September 2012.

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Scope

This European Standard specifies a method of measuring the tensile properties of strands, conductors and braids.

When required, it can be used also on cables.

It should be used together with EN 3475-100.

Normative references 2

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

EN 3475-100, Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General

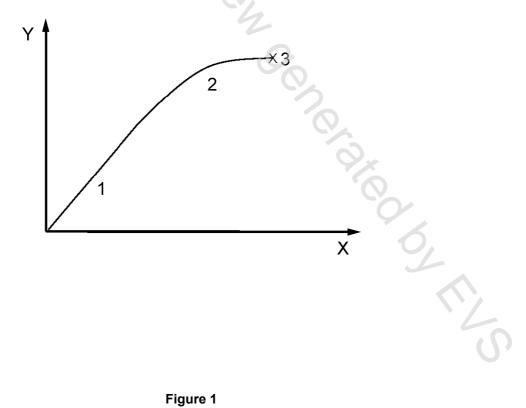
Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

ultimate tensile strength or tensile strength at break

the ultimate tensile strength also called the tensile strength at break of a material is the limit stress at which the material actually breaks, with sudden release of the stored elastic energy (released as noise and/or heat and/or more cracks e.g. for brittle materials). This point is the fracture marked X on the curve below. (see Figure 1).



Key

- Elastic region
- 2 Plastic region
- 3 Fracture
- Χ Strain
- Stress

Figure 1