
Aerospace series - Cables, electrical, aircraft use - Test methods - Part 506: Plating continuity

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Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt, Verwendung - Prüfverfahren - Teil 506: Gleichmäßigkeit des Überzugs

Série aérospatiale - Câbles électriques a usage aéronautique - Méthodes d'essai - Partie 506: Continuité du revêtement

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49.060

Številni sistemi za prenos
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Aerospace electric
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EUROPEAN STANDARD
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methods - Part 506: Plating continuity**

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Verwendung - Prüfverfahren - Teil 506: Gleichmäßigkeit
des Überzugs

This European Standard was approved by CEN on 6 August 2001.

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 Management Centre 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, 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

Foreword

This document (EN 3475-506:2002) 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 verifying the continuity of plating on strands from conductors or screens. 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
ASTM B33-81	Specification for tinned soft or annealed copper wire for electrical purposes ¹⁾
ASTM B298-87	Specification for silver coated soft annealed copper wire electrical purposes ¹⁾
ASTM B355-74	Specification for nickel coated soft annealed copper wire ¹⁾

3 Preparation of specimens

Remove three strands at least 150 mm long as specimens from the complete conductor or screen and carefully straighten them by hand.

Degrease the strands without damaging them and wipe them with a clean dry cloth. After cleaning, the strands shall not be touched with bare fingers.

The length of the specimen which is immersed shall be at least 110 mm.

4 Method ²⁾

Place the specimens for 30 s in a sodium polysulphide solution which has a density of 1,142 g/cm³ at 20 °C, then wash them carefully in distilled water.

In addition, for silver and nickel plating, the samples shall then be immersed for 15 s in a solution of hydrochloric acid which has a density of 1,088 g/cm³ at 20 °C.

The specimens shall then be washed carefully again in distilled water.

5 Requirements

There shall be no adherent or distinctly visible black spots when examined with the naked eye.

Any blackening occurring less than 15 mm from each end shall be disregarded.

1) This standard is published by: American Society for Testing and Materials (ASTM), 1916 Race St., Philadelphia, PA 19103

2) Examples of methods which can be used include:

- ASTM B33-81 for tin plating,
- ASTM B298-87 for silver plating,
- ASTM B355-74 for nickel plating.