

Aerospace series — Stripping of electric cables

ICS 49.060

National foreword

This British Standard is the UK implementation of EN 2812:2009.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2009

© BSI 2009

ISBN 978 0 580 68925 3

Amendments/corrigenda issued since publication

Date	Comments

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2812

August 2009

ICS 49.060

English Version

Aerospace series - Stripping of electric cables

Série aérospatiale - Dénudages des câbles électriques

Luft- und Raumfahrt - Abisolieren von elektrischen
Leitungen

This European Standard was approved by CEN on 20 June 2009.

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

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2009 CEN All rights of exploitation in any form and by any means reserved
worldwide for CEN national Members.

Ref. No. EN 2812:2009: E

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Stripping processes and associated tools	4
4 Identification, inspection and calibration	6
5 Qualification	8
6 Health, safety and environmental aspects	10
Annex A (normative) Defects illustrations	11
Annex B (informative) Mechanical stripping	13
Annex C (informative) Laser stripping	14
Annex D (informative) Thermal stripping	15

Foreword

This document (EN 2812:2009) 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 February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

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, Bulgaria, 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.

1 Scope

This standard specifies the conditions for stripping and inspection of stripping tools and the stripped ends of electric cables for aerospace applications.

Various stripping processes exist. The choice of a process depends upon the properties of the particular cables to be stripped and/or on the specific requirements for the end product to be achieved.

The processes specified today in this document are:

- a) manual stripping;
- b) mechanical stripping;
- c) laser stripping;
- d) thermal stripping.

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 2083, *Aerospace series — Copper or copper alloy conductors for electrical cables — Product standard.*

EN 3475-701, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 701: Strippability and adherence of insulation to the conductor.*

EN 3719, *Aerospace series — Aluminium or aluminium alloy conductors for electrical cables — Product standard.*

EN 4434, *Aerospace series — Copper or copper alloy lightweight conductors for electrical cables — Product standard (Normal and tight tolerances).*

EN 4651, *Aerospace series — Copper-clad aluminium alloy conductors for electrical cables — Product standard.* ¹⁾

3 Stripping processes and associated tools

3.1 General recommendations

Precise definition of tools to use on a particular wire or cable standard is under the responsibility of the user.

It is particularly important to know from which ASD Product Norm conductors are coming (for examples: EN 2083, EN 3719, EN 4434, EN 4651) for the mechanical stripping process.

Availability of a common tool able to strip different gauges or cable sizes is recommended.

If tools are designed for particular applications, differentiation by colours is recommended.

1) Published as ASD Prestandard at the date of publication of this standard.