

Aluminium-clad steel wires for electrical purposes

The European Standard EN 61232:1995 with the incorporation of amendment A11:2000 has the status of a British Standard

ICS 29.060.10

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GEL/7, Wrought aluminium for electrical purposes, upon which the following bodies were represented:

- Aluminium Federation
- British Cable Makers Confederation
- Electricity Association
- International Wire and Machinery Association
- Co-opted member

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 July 1997

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Amendments issued since publication

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National foreword

This British Standard has been prepared by Technical Committee GEL/7 and is the English language version of EN 61232:1995 *Aluminium-clad steel wires for electrical purposes*, including amendment A11:2000, published by the European Committee for Electrotechnical Standardization (CENELEC). It was derived by CENELEC from IEC 61232:1993 published by the International Electrotechnical Commission (IEC).

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**. Where a common modification has been introduced by amendment, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC amendment A11 are indicated by **[C11]** **[C11]**.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index” or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 12, an inside back cover and a back cover.

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Descriptors: Electric conductor, bare conductor, metallic wire, steel, aluminium covering, electrical property, mechanical property, test

English version

Aluminium-clad steel wires for electrical purposes

(includes amendment A11:2000)
(IEC 61232:1993, modified)

Fils d'acier revêtus d'aluminium pour usages
électriques
(inclut l'amendement A11:2000)
(CEI 61232:1993, modifiée)

Aluminium-ummantelte Stahldrähte für die
Elektrotechnik
(enthält Änderung A11:2000)
(IEC 61232:1993, modifiziert)

This European Standard was approved by CENELEC on 1994-12-06. Amendment A11 was approved by CENELEC on 2000-01-01. CENELEC 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 CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B-1050 Brussels

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Foreword

The text of the International Standard IEC 1232:1993, prepared by IEC TC 7, Bare aluminium conductors, together with common modifications prepared by the Technical Committee CENELEC TC 7, was submitted to the formal vote and was approved by CENELEC as EN 61232 on 1994-12-06.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1995-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1995-12-01

For products which have complied with the relevant national standard before 1995-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-12-01.

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. In this standard, Annex ZA is normative and Annex A and Annex B are informative. Annex ZA has been added by CENELEC.

Foreword to amendment A11

This amendment was prepared by the Technical Committee CENELEC TC7, Overhead electrical conductors.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A11 to EN 61232:1995 on 2000-01-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2001-05-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2003-01-01

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. In this standard, Annex ZB and Annex ZC are informative.

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Introduction

Aluminium-clad steel wires have been used as all aluminium-clad steel stranded wires for overhead ground wire purposes and as reinforcement of aluminium conductors for over-head line conductor purposes. In some cases, they are also used as phase conductors. Since various national standards exist in each country for the aluminium-clad steel wires, this International Standard establishes the requirements for properties.

It should be noted that this standard has been prepared after consideration of the existing IEC 888.