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IRISH STANDARD

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ICS 29.240.20

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**CONDUCTORS FOR OVERHEAD LINES
ALUMINIUM-MAGNESIUM-SILICON ALLOY
WIRES**

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EUROPEAN STANDARD
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EUROPÄISCHE NORM

EN 50183

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English version

Conductors for overhead lines
Aluminium-magnesium-silicon alloy wires

Conducteurs pour lignes aériennes
Fils en alliage d'aluminium-
magnésium-silicium

Leiter für Freileitungen
Drähte aus Aluminium-Magnesium-
Silizium-Legierung

This European Standard was approved by CENELEC on 1999-10-01. 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.

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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

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 7, Overhead electrical conductors.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50183 on 1999-10-01.

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) 2000-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-10-01

Annexes designated "normative" are part of the body of the standard;
In this standard, annex A is normative.

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1 Scope

This standard is applicable to heat treated aluminium-magnesium-silicon alloy wires for the manufacture of stranded conductors for overhead power transmission purposes. It specifies the mechanical and electrical properties of wires in the range of 1,50 mm to 5,00 mm diameter.

The types are designated AL2 to AL7.

Additional properties may be agreed between the purchaser and the manufacturer.

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 1715-2	<i>Aluminium and aluminium alloys — Drawing Stock — Part 2: Specific requirements for electrical applications</i>
EN 10002-1	<i>Metallic materials — Tensile testing — Part 1: Method of test at ambient temperature</i>
EN 10204	<i>Metallic products — Types of inspection documents</i>
IEC 60468	<i>Method of measurement of resistivity of metallic materials</i>
IEC 60050-466	<i>International Electrotechnical Vocabulary (IEV) — Chapter 466: Overhead Lines</i>
ISO 7801	<i>Metallic materials — Wire — Reverse bend test</i>
ISO 7802	<i>Metallic materials — Wire — Wrapping test</i>

3 Definitions

In addition to the definitions given in IEC 60050-466, the following definition applies:

3.1

lot

a group of reels or coils manufactured by the same manufacturer under similar conditions of production

NOTE 1 A lot may consist of part of or all the purchased quantity

NOTE 2 The constitution of a lot may be agreed between the purchaser and the manufacturer.

4 Material

The wires shall be processed from drawing stock specified in EN 1715-2 and shall receive an ageing treatment as the final operation.

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