BS EN IEC 62641:2022+A11:2022

BSI Standards Publication

Conductors for overhead lines — Aluminium and aluminium alloy wires for concentric lay stranded conductors

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National foreword

This British Standard is the UK implementation of EN IEC 62641:2022+A11:2022. It is derived from IEC 62641:2022. It supersedes BS EN IEC 62641:2022, which will be withdrawn on 6 December 2022.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by ⟨A11⟩ ⟨A11⟩.

The UK participation in its preparation was entrusted to Technical Committee GEL/7, Overhead electrical conductors.

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Date	Text affected
30 November 2022	Implementation of CENELEC amendment A11:2022

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62641:2022+A11

May 2022

ICS 29.060.01; 29.240.20

Supersedes EN 62004:2009, EN 50183:2000,
EN 60889:1997

English Version

Conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors (IEC 62641:2022)

Conducteurs pour lignes aériennes - Fils d'aluminium et en alliage d'aluminium pour conducteurs toronnés à couches concentriques
(IEC 62641:2022)

Leiter für Freileitungen - Drähte aus Aluminium und Aluminiumlegierung für Leiter aus konzentrisch verseilten Drähten
(IEC 62641:2022)

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European Committee for Electrotechnical Standardization
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European foreword

The text of document 7/713/FDIS, future edition 1 of IEC 62641, prepared by IEC/TC 7 "Overhead electrical conductors" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62641:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-04-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-04-11

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The text of the International Standard IEC 62641:2022 was approved by CENELEC as a European Standard without any modification.

European foreword to amendment A11

This document (EN IEC 62641:2022/A11:2022) has been prepared by CLC/TC 7X "Overhead electrical conductors".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-04-11
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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60050	(series)	International Electrotechnical Vocabulary (IEV)	-	-
IEC 60468	-	Method of measurement of resistivity of metallic materials	-	-
IEC TR 61597	-	Overhead electrical conductors - Calculation methods for stranded bare conductors	-	-
ISO 6892-1	-	Metallic materials – Tensile testing – Part 1: Method of test at room temperature	EN ISO 6892-1	-
ISO 7801	-	Metallic materials – Wire - Reverse bend test	-	-
ISO 7802	-	Metallic materials – Wire - Wrapping test	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONDUCTORS FOR OVERHEAD LINES – ALUMINIUM AND ALUMINIUM ALLOY WIRES FOR CONCENTRIC LAY STRANDED CONDUCTORS

FOREWORD

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IEC 62641 has been prepared by IEC technical committee 7: Overhead electrical conductors. It is an International Standard.

This first edition cancels and replaces the second edition of IEC 60104 published in 1987, the first edition of IEC 60121 published in 1960, the first edition of IEC 60889 published in 1987, and the first edition of IEC 62004 published in 2007. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous editions of IEC 60104, IEC 60121, IEC 60889 and IEC 62004:

a) designations of aluminium alloys are modified;
b) aluminium alloys A4, AL4 and AL5 are added;
c) wire diameter ranges for indicating mechanical properties are modified and extended;
d) test methods are merged.

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