



SLOVENSKI STANDARD
SIST EN IEC 62641:2022/A11:2022

01-december-2022

Vodniki za nadzemne vode - Žice iz aluminija in aluminijeve zlitine za koncentrično pletene vodnike - Dopolnilo A11

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

Leiter für Freileitungen - Drähte aus Aluminium und Aluminiumlegierung für Leiter aus konzentrisch verseilten Drähten

Conducteurs pour lignes aériennes - Fils d'aluminium et en alliage d'aluminium pour conducteurs toronnés à couches concentriques

<https://standards.iteh.ai/catalog/standards/sist/0de34ed2-fada-4f14-a73f-2778fbbd8c17/sist-en-iec-62641-2022-a11-2022>

Ta slovenski standard je istoveten z: EN IEC 62641:2022/A11:2022

ICS:

29.240.20	Daljnovodi	Power transmission and distribution lines
77.150.10	Aluminijski izdelki	Aluminium products

SIST EN IEC 62641:2022/A11:2022 **en,fr,de**

EUROPEAN STANDARD

EN IEC 62641:2022/A11

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2022

ICS 29.240.20; 29.060.01

English Version

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

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alliage d'aluminium pour conducteurs toronnés à couches
concentriques

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Aluminiumlegierung für Leiter aus konzentrisch verseilten
Drähten

This amendment A11 modifies the European Standard EN IEC 62641:2022; it was approved by CENELEC on 2022-04-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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EN IEC 62641:2022/A11:2022 (E)

European foreword

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this document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website

iTeh STANDARD PREVIEW
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SIST EN IEC 62641:2022/A11:2022

<https://standards.iteh.ai/catalog/standards/sist/0de34ed2-fada-4f14-a73f-2778fbbd8c17/sist-en-iec-62641-2022-a11-2022>

1 Modification to Contents

Add at the end of the table of contents “Annex C (normative) Special national conditions”

2 Modification to 3.12, “thermal resistance”

Replace the phrasing “not less than 0,90 after heating” with “not less than 0,85 for single tested wires and 0,90 for average of all tested wires after heating”.

3 Modification to 3.13, “thermal resistant aluminium alloy”

Replace the complete phrasing of the note with “The operation temperature of conventional aluminium alloy wires and hard-drawn aluminium wires is limited to 80°C.”

4 Modification to Clause 4, “Material”

Insert the material “AL7” between “AL5” and “in Table 1”.

5 Modification to 6.4.8.3, “Requirements”

Replace the phrasing “shall not be less than 0,90.” with “shall not be less than 0,85 for single tested wires and 0,90 for average of all tested wires.”

6 Modification to Table 1, “Designation and properties for calculation purposes”

Insert one line “AL7” after the line for “AL5”:

”

https://standards.iteh.ai/catalog/standards/sist/2-564f11-a-57,5f778-bbd8c3-60-st-en-iec-62641-2022-a11-2022	AL7	30,500 ^e	30,000 ^f	56,5 ^e	57,5 ^f	3,60
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7 Modification to Table 3, “Minimum mechanical properties for Ax and ALx wires”

Insert the following lines for “AL7” at the end of the table:

”

	AL7	1,50	2,50	300	3,0
		2,50	3,00	290	3,0
		3,00	3,50	275	3,0
		3,50	4,00	265	3,0
		4,00	5,00	255	3,0

”

8 Addition of Annex C, “Special national conditions”

Add the following Annex C at the end of the document:

“Annex C
(normative)

Special national conditions

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the European Standard or Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

<u>Clause</u>	<u>Special national condition</u>
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5	France
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 Joints in AL4 wire shall be made by electric butt welding, or cold pressure welding. Cold pressure welded joints shall be annealed by approximately 250 mm on both sides of the joint.

 The tensile strength of a joint shall be not less than 130 N/mm² and not more than 205 N/mm².

6.4.5	Austria and Germany
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 For aluminium alloy wires, eight turns shall be wrapped around a mandrel having the same diameter as that of the wire. Six of these turns shall be wound off and then wound on again. The wire shall not break.”

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