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**Nadzemni električni vodi za izmenične napetosti nad 1 kV - 2-24. del: Nacionalna normativna določila (NNA) za Romunijo (na podlagi EN 50341-1:2012)**

Overhead electrical lines exceeding AC 1 kV - Part 2-24: National Normative Aspects (NNA) for Romania (based on EN 50341-1:2012)

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**Overhead electrical lines exceeding AC 1 kV - Part 2-24:  
National Normative Aspects (NNA) for Romania (based on  
EN 50341-1:2012)**

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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.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

The following statements 1 to 6 are required from CLC/TC 11 for all NNAs; the statement 7 has been added by the Romanian National Committee (NC).

1. The Romanian National Committee is identified by the following address:

Romanian Standards Association (Asociația de Standardizare din România - ASRO)  
Standardization Department  
Mihai Eminescu Street No 238, Sector 2, Cod 020085, Bucharest, Romania  
Phone: +40 21 316 32 96  
Fax: +40 21 316 08 70  
email: [asro@asro.ro](mailto:asro@asro.ro)  
[www.asro.ro](http://www.asro.ro)

Name of the relevant technical body: Romanian Technical Committee no 165 “Overhead power lines” (ASRO/CT 165 - *Linii electrice aeriene*)

2. The Romanian NC and its technical body (ASRO/CT 165 - *Linii electrice aeriene*) prepared this Part 2-24 of EN 50341, listing the Romanian National Normative Aspects (NNA) under its sole responsibility, and duly passed it through the CENELEC and CLC/TC 11 procedures.

NOTE The Romanian NC also takes sole responsibility for the technically correct co-ordination of this EN 50341-2-24:2024 with EN 50341-1:2012. It performed the necessary checks in the frame of quality assurance/control. However, it is noted that this quality control was made in the framework of the general responsibility of a standards committee under the national laws/regulations.

3. This EN 50431-2-24, hereafter referred to as Part 2-24, is normative in Romania and informative in other countries.
4. This Part 2-24 shall be read in conjunction with EN 50341-1, hereafter referred to as Part 1. All clause numbers used in this NNA correspond to those of Part 1. Specific subclauses, which are prefixed “RO”, shall be read as amendments to the relevant text in Part 1. Any necessary clarification regarding the application of this NNA in conjunction with Part 1 shall be referred to the Romanian NC who will, in co-operation with CLC/TC 11, clarify the requirements.

Where no reference is made in this NNA to a specific subclause, then Part 1 applies.

5. In case of “boxed values” defined in Part 1, amended values, (if any) which are defined in Part 2-24 shall be taken into account in Romania.

However, any “boxed value”, whether in Part 1 or in this Part-2-24, shall not be amended in the direction of greater risk in a Project Specification.

6. The National Romanian standards/regulations related to overhead electrical lines exceeding 1 kV AC are listed in 2.1 of this Part 2-24.

NOTE All national standards referred to in this Part 2-24 will be replaced by the relevant European Standards as soon as they become available and are declared by the Romanian NC to be applicable and thus reported to the secretary of CLC/TC 11.

7. The subclauses 2.1/RO.1, 2.1/RO.2, 2.1/RO.2.1.1 and 2.1/RO.2.1.2 are “A-dev”.  
The subclauses 4.3.1/RO.1, 4.5.1/RO.1 and 4.6.1/RO.1 are “snc”.  
All other subclauses RO.X are “ncpt”.

This second edition replaces the first edition published in 2019. This new edition reviews and complements the previous one.

## 0 Introduction

### 0.7 Language

#### (ncpt) RO.1 Language

This standard EN 50341-2-24 (Part 2-24) is published in English and Romanian languages.

## 1 Scope

### 1.1 General

#### 1.1 RO.1 General

(ncpt) This standard EN 50341-2-24 (Part 2-24) gives the requirements for design and construction of overhead electrical lines with nominal voltages exceeding A.C. 1 kV operating at 50 Hz frequency.

This Part 2-24 applies to new overhead electrical lines, as well as in the following cases:

- the extension of existing overhead electrical lines;
- the deviation of some portions of the existing overhead electrical lines in accordance with the provisions of technical regulations in force issued by the National Energy Regulatory Authority (see article 39 of ANRE Order 25/2016);
- new supports to be used for the replacement and/or relocation of existing supports.

This Part 2-24 is not applicable for the existing overhead electrical lines unless specifically required by Project Specification. The overhead electrical lines, that are in different stages of design or construction, can be completed in conformity with the standards in force at the beginning of project.

For the application of this standard for specific requirements relating to modernization, increasing safety and transport capacity of existing overhead electrical lines, reference shall be specified in the Project Specification. At the same time, the correlation between relevant regulations and associated standards shall be established in the Project Specifications.

The extension of existing electrical lines is considered as new overhead electrical lines, except the junction points that shall be detailed in the Project Specifications.

### 1.2 Field of application

#### 1.2 RO.1 Overhead electrical lines having uninsulated, pre-insulated and insulated conductors

(ncpt) This Part 2-24 is applicable for the design and construction of overhead electrical lines with uninsulated, pre-insulated and insulated conductors where the internal and external clearances can be smaller than those specified in Part 1 (SR EN 50341-1:2013).

## 2 Normative references, definitions and symbols

### 2.1 Normative references

#### 2.1 RO.1 Application of normative references in Part 1

(A-dev) The normative references in Part 1 (SR EN 50341-1:2013) are applicable, unless otherwise specified in this Part 2-24. Moreover, in Romania, the Eurocodes series adopted as national standards shall be applied pursuant the technical regulations on construction field.

#### 2.1 RO.2 References to national laws, technical regulations and standards

(A-dev) The following national acts and normative documents contain provisions for design, construction and mounting of the overhead electrical lines. These normative acts (laws, governmental decisions, decrees) and normative documents (national technical regulations and standards) are mentioned in the text so that their content, in whole or in part, constitutes requirements of this standard (Part 2-24).