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Standards

Irish Standard  
I.S. EN 50341-2-4:2019

Overhead electrical lines exceeding AC 1 kV - Part 2-4: National Normative Aspects (NNA) for GERMANY (based on EN 50341-1:2012)

**I.S. EN 50341-2-4:2019**

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## National Foreword

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EUROPEAN STANDARD

**EN 50341-2-4**

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**Overhead electrical lines exceeding AC 1 kV - Part 2-4: National  
Normative Aspects (NNA) for GERMANY (based on EN 50341-  
1:2012)**

This European Standard was approved by CENELEC on 2019-04-10.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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; statement 7 was added by the German National Committee (NC).

- 1 The German National Committee is identified by the following address:

Deutsche Elektrotechnische Kommission im DIN und VDE (DKE)  
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Name of the relevant technical body: Komitee 421 (K 421) "Freileitungen" (Overhead power lines)

- 2 The German NC and its technical body K 421 "Overhead power lines" of Deutsche Elektrotechnische Kommission im DIN und VDE (DKE) prepared this Part 2-4 of EN 50341, listing the German National Normative Aspects (NNA) under its sole responsibility, and duly passed it through the CENELEC and CLC/TC 11 procedures.

NOTE The German NC also takes sole responsibility for the technically correct co-ordination of this EN 50341-2-4:2019 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 50431-2-4, hereafter referred to as Part 2-4, is normative in Germany and informative in other countries.
- 4 This Part 2-4 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 "DE", 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 German NC who will, in co-operation with CLC/TC 11, clarify the requirements.

When 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 2-4 shall be taken into account in Germany.

However, any "boxed value", whether in Part 1 or in this Part 2-4, shall not be amended in the direction of greater risk in a Project Specification.

- 6 The National German standards/regulations related to overhead electrical lines exceeding 1 kV AC are listed in 2.1 of this Part 2-4.

NOTE All national standards referred to in this Part 2-4 will be replaced by the relevant European Standards as soon as they become available and are declared by the German NC to be applicable and thus reported to the secretary of CLC/TC 11.

- 7 5.11.1/DE.1 is an "A-dev"  
 4.3/DE.1, 4.4.1/DE.1, 4.5.2/DE.1, 5.2.1/DE.1, 5.4.5/DE.1, 5.6.3.2/DE.1, 5.6.3.3/DE.1, 5.6.4/DE.1, 5.6.5/DE.1, and 9.6.4/DE.1 are "snc".  
 All other subclauses DE.X are "ncpt".

This second edition replaces the first edition published in 2016.

This edition includes the following changes with respect to the previous edition:

- the positions with a technical change have a vertical line in the left margin for identification and
- editorial changes were shaded words.

## 1 Scope

### 1.1 General

#### 1.1 DE.1 General

(ncpt) (Supplement to DIN EN 50341-1 (VDE 0210-1):2013-11, clause 1.1)

This EN applies to planning and installation of overhead lines with nominal voltages above AC 1 kV.

This EN needs not to be adopted to existing installations. Installations in the planning and construction stage may be completed adopting the standard edition valid at the beginning of planning.

### 1.2 Field of application

#### 1.2 DE.1 Application to conductors with components for telecommunication

(ncpt) (Supplement to DIN EN 50341-1 (VDE 0210-1):2013-11, 1.2)

In Germany this EN is applicable to all types of conductors (according to the information in clause 1.2) which contain components for telecommunication.

#### 1.2 DE.2 Application to installation of telecommunication equipment on supports

(ncpt) (Supplement to DIN EN 50341-1 (VDE 0210-1):2013-11, 1.2)

In Germany this EN is applicable to the installation of telecommunication equipment on overhead line supports. Reference is made to 4.11.1/DE.1 "Extension of utilization".

## 2 Normative references, definitions and symbols

### 2.1 Normative references

The following documents which are quoted partly or as a whole in this document are necessary for the application of this document. In case of dated reference only the referred edition is applicable. In case of non-dated references the last edition of the referred document (including all modifications) is applicable.

DAST 022<sup>1</sup>, *Guideline of DAST for hot-dip-zinc-coating of prefabricated load-bearing steel components*

*DAST-Richtlinie – Feuerverzinken von tragenden Stahlbauteilen*

DIN 1054:2010-12, *Subsoil – Verification of the safety of earthworks and foundations – Supplementary rules to DIN EN 1997-1:2009-09 + NA:2010-12*

*Baugrund – Sicherheitsnachweise im Erd- und Grundbau – Ergänzende Regelungen zu DIN EN 1997-1:2009-09 + NA:2010-12*

DIN 4102-7, *Fire behaviour of building materials and building components – Part 7: Roofing – Definitions, requirements and testing*

*Brandverhalten von Baustoffen und Bauteilen – Teil 7: Bedachungen – Begriffe, Anforderungen und Prüfungen*

DIN 48006-1, *Insulators for overhead lines – Part 1: Long-rod insulators LP with socket caps*  
*Isolatoren für Starkstrom-Freileitungen – Langstabisolatoren mit Pfannenkappen*

<sup>1</sup> SOURCE: Stahlbau Verlags- und Service GmbH, Sohnstraße 65, 40237 Düsseldorf.

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