



BSI Standards Publication

## Overhead electrical lines exceeding AC 1 kV

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Part 2-4: National Normative Aspects (NNA) for  
GERMANY (based on EN 50341-1:2012)

This is a preview of "BS EN 50341-2-4:2019". [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN 50341-2-4:2019. It supersedes BS EN 50341-2-4:2016, which is withdrawn.

This standard, together with the following list of National Normative Aspect standards, supersedes BS EN 50423-3:2005 and BS EN 50341-3:2001.

Country Code	Origin	Ref
AT	Austrian National Committee	BS EN 50341-2-1
BE	Belgian National Committee	BS EN 50341-2-2:2019
CH	Swiss National Committee	BS EN 50341-2-3
DE	German National Committee	BS EN 50341-2-4:2019
DK	Danish National Committee	BS EN 50341-2-5:2017
ES	Spanish National Committee	BS EN 50341-2-6:2017
FI	Finnish National Committee	BS EN 50341-2-7:2015
FR	French National Committee	BS EN 50341-2-8:2017
GB	British National Committee	BS EN 50341-2-9:2017+A1:2018
GR	Greek National Committee	BS EN 50341-2-10
IE	Irish National Committee	BS EN 50341-2-11
IS	Iceland National Committee	BS EN 50341-2-12:2018
IT	Italian National Committee	BS EN 50341-2-13:2017+A1:2017
LU	Luxemburg National Committee	No NNA available
NL	Nederland's National Committee	BS EN 50341-2-15:2019
NO	Norwegian National Committee	BS EN 50341-2-16:2016
PT	Portuguese National Committee	BS EN 50341-2-17
SE	Swedish National Committee	BS EN 50341-2-18:2016
CZ	Czech National Committee	BS EN 50341-2-19:2015
EE	Estonian National Committee	BS EN 50341-2-20:2018
PL	Polish National Committee	BS EN 50341-2-22:2016
SK	Slovak National Committee	BS EN 50341-2-23:2016

BS EN 50423-3:2005 and BS EN 50341-3:2001 will be withdrawn upon publication of the rest of the series.

The UK participation in its preparation was entrusted to Technical Committee PEL/11, Overhead Lines.

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A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

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#### **Amendments/corrigenda issued since publication**

Date	Text affected
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## EUROPÄISCHE NORM

May 2019

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Supersedes EN 50341-2-4:2016

English Version

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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	Page
European foreword .....	6
1 Scope .....	7
1.1 General.....	7
1.2 Field of application .....	7
2 Normative references, definitions and symbols .....	7
2.1 Normative references .....	7
2.2 Definitions.....	13
2.3 Symbols.....	18
3 Basis of design .....	23
3.2 Requirements of overhead lines .....	23
3.2.1 Basic requirements .....	23
3.2.2 Reliability requirements.....	23
3.2.5 Strength coordination .....	23
3.2.6 Additional considerations .....	23
3.4 Actions.....	24
3.4.3 Classification of actions by their nature and/or the structural response .....	24
3.6 Design values.....	24
3.6.3 Design value of a material property .....	24
3.6.4 Combination value of a variable action .....	24
4 Actions on lines .....	25
4.1 Introduction.....	25
4.3 Wind loads.....	25
4.4 Wind forces on overhead line components .....	27
4.4.1 Wind forces on conductors .....	27
4.4.2 Wind forces on insulator sets .....	29
4.4.3 Wind forces on lattice towers .....	30
4.4.4 Wind forces on poles.....	32
4.5 Ice loads .....	32
4.5.2 Ice forces on conductors .....	32
4.6 Combined wind and ice loads .....	34
4.6.4 Equivalent diameter $D_I$ of ice-covered conductor .....	34
4.6.6 Combination of wind velocities and ice loads .....	34
4.8 Security loads.....	34
4.8.1 General.....	34
4.9 Safety loads.....	34
4.9.1 Construction and maintenance loads.....	34
4.9.2 Loads related to the weight of lines men .....	35
4.10 Forces due to short-circuit currents.....	35
4.11 Other special forces .....	35
4.12 Load cases .....	35
4.12.1 General.....	35
4.12.2 Standard load cases .....	36
4.13 Partial factors for actions.....	39
5 Electrical requirements.....	40
5.2 Currents.....	40
5.2.1 Normal current .....	40
5.4 Classification of voltages and over-voltages.....	40

This is a preview of "BS EN 50341-2-4:2019". [Click here to purchase the full version from the ANSI store.](#)

5.4.2	Representative power frequency voltages .....	40
5.4.5	Representative fast-front overvoltage .....	40
5.5	Minimum air clearance distances to avoid flashovers .....	40
5.5.3	Empirical method based on European experience .....	40
5.6	Load cases for calculation of clearances .....	41
5.6.3	Wind loads for determination of electric clearances .....	41
5.6.4	Ice loads for the determination of electric clearances .....	41
5.6.5	Combined wind and ice loads .....	42
5.8	Internal clearances within the span and at the top of support .....	42
5.9	External clearances .....	43
5.9.1	General .....	43
5.9.2	External clearances to ground in areas remote from buildings, roads etc. ....	45
5.9.3	External clearances to residential and other buildings .....	46
5.9.4	External clearances to crossing traffic routes .....	47
5.9.5	External clearances to adjacent traffic routes .....	48
5.9.6	External clearances to other power lines or overhead telecommunication lines .....	48
5.11	Electric and magnetic fields .....	49
5.11.1	Electric and magnetic fields under a line .....	49
5.11.2	Electric and magnetic field induction .....	49
5.11.3	Interference with telecommunication circuits .....	49
6	Earthing systems .....	49
6.1	Introduction .....	49
6.1.2	Requirements for dimensioning of earthing systems .....	49
6.1.3	Earthing measures against lightning effects .....	51
6.3	Rating with regard to thermal strength .....	51
6.3.2	Current rating calculation .....	51
6.4	Dimensioning with regard to human safety .....	52
6.4.2	Touch voltage limits at different locations .....	52
6.4.3	Basic design of earthing systems with regard to permissible touch voltage .....	52
6.4.4	Measures in systems with isolated neutral or resonant earthing .....	53
6.5	Site inspection and documentation of earthing systems .....	53
7	Supports .....	54
7.1	Initial design considerations .....	54
7.2	Materials .....	54
7.2.1	Steel materials, bolts, nuts and washers, welding consumables .....	54
7.2.6	Wood .....	54
7.2.8	Other materials .....	54
7.3	Lattice steel towers .....	55
7.3.1	General .....	55
7.3.5	Structural analysis .....	55
7.3.6	Ultimate limit states .....	55
7.3.8	Resistance of connections .....	56
7.4	Steel poles .....	57
7.4.1	General .....	57
7.4.5	Structural analysis .....	57
7.4.6	Ultimate limit states (EN 1993-1-1:2005 – Chapter 6) .....	57
7.4.7	Serviceability limit states .....	58
7.4.8	Resistance of connections .....	58

This is a preview of "BS EN 50341-2-4:2019". [Click here to purchase the full version from the ANSI store.](#)

7.5	Wood poles .....	58
7.5.2	Basis of design .....	58
7.5.3	Materials .....	59
7.5.5	Ultimate limit states .....	59
7.5.6	Serviceability limit states .....	59
7.5.7	Resistance of connections .....	59
7.6	Concrete poles .....	59
7.6.2	Basis of Design .....	59
7.6.4	Ultimate limit states .....	60
7.6.5	Serviceability limit states .....	60
7.7	Guyed structures .....	60
7.7.1	General .....	60
7.7.3	Materials .....	60
7.8	Other structures .....	61
7.9	Corrosion protections and finishes .....	61
7.9.1	General .....	61
7.9.2	Galvanising .....	61
7.9.4	Paint over galvanising in plant (Duplex system) .....	61
7.9.7	Protection of wood poles .....	61
7.10	Maintenance facilities .....	61
7.10.1	Climbing .....	61
7.10.2	Maintainability .....	63
7.10.3	Safety requirements .....	63
8	Foundations .....	63
8.2	Basis of geotechnical design .....	63
8.2.2	Geotechnical design by calculation .....	63
8.2.3	Design by prescriptive measures .....	64
8.2.4	Load tests and tests on experimental models .....	64
8.6	Interaction between support foundations and soil .....	64
9	Conductors and earth wires .....	64
9.2	Aluminium based conductors .....	64
9.2.1	Characteristics and dimensions .....	64
9.2.3	Conductor service temperatures and grease characteristics .....	65
9.3	Steel based conductors .....	66
9.3.1	Characteristics and dimensions .....	66
9.3.3	Conductor service temperatures and grease characteristics .....	66
9.3.4	Mechanical requirements .....	67
9.6	General requirements .....	67
9.6.2	Partial factors for conductors .....	67
9.6.3	Minimum cross sections .....	68
9.6.4	Sag-tension calculations .....	68
10	Insulators .....	69
10.1	Introduction .....	69
10.4	Pollution performance requirements .....	70
10.7	Mechanical requirements .....	70
11	Hardware .....	73
11.1	Introduction .....	73
11.2	Electrical requirements .....	73



This is a preview of "BS EN 50341-2-4:2019". Click here to purchase the full version from the ANSI store.

11.2.1	Requirements applicable to all fittings.....	73
11.2.2	Requirements applicable to current carrying fittings .....	73
11.6	Mechanical requirements .....	73
12	Quality assurance, checks and taking-over .....	75
Annex G (normative)	Calculation methods for earthing systems .....	76
G.4	Touch voltage and body current.....	76
G.4.1	Equivalence between touch voltage and body current .....	76
Annex J (normative)	Angles in lattice steel towers .....	77
J.2	General.....	77
J.3	Tensile resistance of angles connected through one leg.....	77
J.4	Buckling resistance of angles in compression .....	78
J.4.1	Flexural buckling resistance .....	78
J.4.2	Effective non-dimensional slenderness for flexural buckling .....	79
J.4.2.4	Effective non-dimensional slenderness $\bar{\lambda}_{\text{eff}}$ .....	79
J.4.3	Slenderness of members .....	79
J.4.3.2	Leg members and chords .....	79
J.4.3.3	Primary bracing pattern .....	80
J.4.3.4	Compound members.....	84
J.4.4	Secondary (or redundant) bracing members .....	85
J.5	Design resistance of bolted connections.....	85
J.5.1	General.....	85
Annex M (informative)	Geotechnical and structural design of foundations .....	86
M.3	Sample semi-empirical models for resistance estimation .....	86
M.3.1	Geotechnical design by calculation .....	86
M.3.1.1	General.....	86
M.3.1.2	Monoblock foundations .....	86
M.3.1.3	Slab foundations.....	86
M.3.1.4	Grillage-type slab foundations.....	86
M.3.1.5	Single-pile foundations .....	87
M.3.1.6	Separate stepped block foundations, pad and chimney foundations .....	87
M.3.1.9	Pile foundations.....	87
M.3.2	Structural design of concrete foundations .....	87
Annex AA (informative)	Assumptions for ice loads .....	88
Literature.....		90

## Figures

Figure 4/DE.1	– Map of wind zones for the Federal Republic of Germany according to DIN EN 1991-1-4/NA:2010-12.....	26
Figure 4/DE.2	– Wind action on conductors and resulting wind force in any wind direction.....	28
Figure 4/DE.3	– Wind action on towers .....	32
Figure 5/DE.1	– Description of the wake behind a wind energy converter, where $\tan \beta = 0,1$ shall be assumed.....	47
Figure 6/DE.1	– Separated earthing systems with connection via an overhead line .....	50
Figure 6/DE.2	– Separated earthing systems with connection via cable .....	51
Figure J.4/DE.1	– Slenderness $\lambda$ of leg members.....	80
Figure J.4/DE.2	– Usual diagonal bracings .....	81
Figure J.4/DE.3	– Application of secondary and spatial bracing systems.....	81
Figure AA.1	– Ice load zone map for the German Federal Republic (informative) .....	89

This is a preview of "BS EN 50341-2-4:2019". [Click here to purchase the full version from the ANSI store.](#)

## Tables

Table 3/DE.1 – Material partial factors for towers and poles .....	24
Table 4/DE.1 – Aerodynamic drag factors $c_x$ .....	29
Table 5/DE.1 – Nominal voltages in 380 kV systems and related maximum operational voltages and maximum voltage for equipment .....	40
Table 5/DE.2 – Nominal voltages in the grid and voltage-related minimum clearances .....	46
Table 6/DE.1 – Cumulative frequency of lightning currents on towers of lines with shield wires .....	51
Table 6/DE.2 – Decisive currents for rating of the earthing system .....	52
Table 7/DE.1 – Dimensions of connections and edge distances of jointing components .....	57
Table 9/DE.1 – Mechanical characteristics, permissible everyday stress for standard conductors according to DIN EN 50182:2001-12 .....	65
Table 9/DE.2 – Permissible conductor temperature in case of short-circuit load for conductors using aluminium as conducting material .....	66
Table 9/DE.3 – Permissible conductor temperature in case of short-circuit load for conductor made of steel .....	67
Table 9/DE.4 – Mechanical characteristics, permissible everyday stresses for standardized conductors made of steel wires according to DIN VDE 0212-399 (VDE 0212-399) and to DIN EN 50182:2001-12 .....	67
Table 9/DE.5 – Minimum cross sections .....	68
Table 10/DE.1 – Material partial factors for insulators .....	72

This is a preview of "BS EN 50341-2-4:2019". [Click here to purchase the full version from the ANSI store.](#)

## 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)  
 Stresemannallee 15 (VDE Haus)  
 D-60596 Frankfurt/Main  
 Germany  
 phone ++49 69 6308-(0) 224  
 Fax ++49 69 6312-925

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.

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## 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.