

Overhead electrical lines exceeding AC 1 kV - Part 2-22:
National Normative Aspects (NNA) for Poland (based
on EN 50341-1:2012)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 50341-2-22:2022 sisaldab Euroopa standardi EN 50341-2-22:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 50341-2-22:2022 consists of the English text of the European standard EN 50341-2-22:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.03.2022.	Date of Availability of the European standard is 25.03.2022.
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ICS 29.240.20

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English Version

**Overhead electrical lines exceeding AC 1 kV - Part 2-22:
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50341-1:2012)**

To be completed

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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

1. The Polish Committee for Standardization (NC) is identified by the following address:

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Name of the relevant technical body: Komitet Techniczny nr 80 ds. "Ogólnych w Sieciach Elektroenergetycznych" (Technical Committee No 80 "for General Issues in Power Networks").

2. The Polish NC has prepared this Part 2-22 (EN 50341-2-22) listing the Polish National Normative Aspects (NNA), under its sole responsibility, and duly passed it through the CENELEC and CLC/TC11 procedures.

NOTE:

The Polish NC also takes sole responsibility for the technically correct co-ordination of this NNA with EN 50341-1. It has performed the necessary checks in the frame of quality assurance / control. However, it is noted that this quality control has been made in the framework of the general responsibility of a standards committee under the national laws / regulations.

3. This NNA is normative in Poland and informative for other countries.
4. This NNA has to be read in conjunction with Part 1 (EN 50341-1). All clause numbers used in this NNA correspond to those of Part 1. Specific subclauses, which are prefixed "PL", are to 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 Polish NC who will, in co-operation with CLC/TC11, clarify the requirements.

Where no reference is made in this NNA to a specific sub-clause, then Part 1 shall apply.

5. In case of "boxed values" defined in Part 1, amended values (if any), which are defined in this NNA, shall be taken into account in Poland.

However, any boxed value whether in Part 1 or in this NNA, shall not be amended in the direction of greater risk in the Project Specification.

NOTE:

All national standards referred to in this Part 2-22 will be replaced by the relevant European Standards as soon as they become available and declared by the Polish NC to be applicable and thus reported to the secretary of CLC/TC 11.

1 Scope

1.1 General

(ncpt) PL.1 Scope of application

This NNA applies to designing and constructing of new overhead lines with nominal system voltages exceeding 1 kV AC.

“New overhead line” means a totally new line between two points, A and B, built up with new components.

The standard PN-EN 50341-1 (Part 1) with this NNA does not apply to modernisation, reconstruction and renovation of the existing lines, unless otherwise specified in the Project Specification.

1.2 Field of application

(ncpt) PL.1 All Dielectric Self Supporting (ADSS) cables

This NNA applies to All Dielectric Self Supporting (ADSS) cables only within the scope of their impact on the supports and minimum clearances which shall be taken as for insulated cable systems.

(ncpt) PL.2 Telecommunication equipment

This NNA relates to the telecommunication equipment mounted on the new overhead line supports.

2 Normative references, definitions and symbols

2.1 Normative references

(ncpt) PL.1 General

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 non-dated references the last edition of the referred document (including all modifications) is applicable.

(A-Dev) PL.2 Normative references

Reference	Title
PN-EN 1992-1-1:2008	Eurocode 2: Design of concrete structures – Part 1-1: General rules and rules for buildings <i>Eurokod 2: Projektowanie konstrukcji z betonu -- Część 1-1: Reguły ogólne i reguły dla budynków</i>
PN-EN 1993-1-1:2006	Eurocode 3: Design of steel structures – Part 1-1: General rules and rules for buildings <i>Eurokod 3: Projektowanie konstrukcji stalowych -- Część 1-1: Reguły ogólne i reguły dla budynków</i>
PN-EN 1993-1-6:2009	Eurocode 3: Design of steel structures – Part 1-6: Strength and stability of shell structures <i>Eurokod 3: Projektowanie konstrukcji stalowych -- Część 1-6: Wytrzymałość i stateczność konstrukcji powłokowych</i>
PN-EN 1993-1-8:2006	Eurocode 3: Design of steel structures – Part 1-8: Design of joints <i>Eurokod 3: Projektowanie konstrukcji stalowych -- Część 1-8: Projektowanie węzłów</i>
PN-EN 1993-3-1:2008	Eurocode 3: Design of steel structures – Part 3-1: Towers, masts and chimneys – Towers and masts <i>Eurokod 3: Projektowanie konstrukcji stalowych -- Część 3-1: Wieże, maszty i kominy -- Wieże i maszty</i>
PN-EN 1997-1:2008	Eurocode 7: Geotechnical design – Part 1: General rules <i>Eurokod 7: Projektowanie geotechniczne -- Część 1: Zasady ogólne</i>

PN-EN 1997-1:2008/NA:2011	National Normative Aspects for Poland based on Eurocode 7: Geotechnical design – Part 1: General rules <i>Załącznik krajowy do PN-EN 1997-1:2008 Eurokod 7: Projektowanie geotechniczne -- Część 1: Zasady ogólne</i>
PN-EN 1090-1	Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components <i>Wykonanie konstrukcji stalowych i aluminiowych -- Część 1: Zasady oceny zgodności elementów konstrukcyjnych</i>
PN-EN 1090-2:2018-09	Execution of steel structures and aluminium structures – Part 2: Technical requirements for the execution of steel structures <i>Wykonanie konstrukcji stalowych i aluminiowych -- Część 2: Wymagania techniczne dotyczące konstrukcji stalowych</i>
PN-EN 12843	Precast concrete products - Masts and poles <i>Prefabrykaty z betonu -- Maszty i słupy</i>
PN-EN 14229	Structural timber - Wooden poles for overhead lines <i>Drewno konstrukcyjne -- Słupy drewniane do linii napowietrznych</i>
PN-EN ISO 1461	Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods <i>Powłoki cynkowe nanoszone na stal metodą zanurzeniową -- Wymagania i metody badań</i>
PN-EN ISO 10684	Fasteners – Hot dip galvanized coatings <i>Części złączne -- Powłoki cynkowe nanoszone metodą zanurzeniową</i>
PN-B-02482:1983	Building foundations – Bearing capacity of piles and pile foundations <i>Fundamenty budowlane -- Nośność pali i fundamentów palowych</i>
PN-B-02483:1978	Large diameter bored piles – Specifications and tests <i>Pale wielkośrednicowe wiercone -- Wymagania i badania</i>
PN-B-03322:1980	Electric overhead lines – Foundations of supporting structures – Static calculations and design <i>Elektroenergetyczne linie napowietrzne -- Fundamenty konstrukcji wsporczych -- Obliczenia statyczne i projektowanie</i>
PN-EN 61773	Overhead lines – Testing of foundations for structures <i>Elektroenergetyczne linie napowietrzne -- Badanie fundamentów konstrukcji wsporczych</i>
PN-E-06303:1998	Exposure of outdoor insulation to pollution and selection of insulators under polluted conditions <i>Narażenie zabrudzeniowe izolacji napowietrznej i dobór izolatorów do warunków zabrudzeniowych</i>
PN-EN 60071-1	Insulation co-ordination – Part 1: Definitions, principles and rules <i>Koordinacja izolacji -- Część 1: Definicje, zasady i reguły</i>
PN-EN 50182:2002	Conductors for overhead lines – Round wire concentric lay stranded conductors <i>Przewody do linii napowietrznych -- Przewody z drutów okrągłych skręconych współosiowo</i>