

STN	Konštrukcie vonkajšieho elektrického vedenia Skúšky zaťaženia	STN EN IEC 60652 34 8205
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Overhead line structures - Loading tests

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/21

Obsahuje: EN IEC 60652:2021, IEC 60652:2021

Oznámením tejto normy sa od 03.09.2024 ruší
STN EN 60652 (34 8205) z júla 2004

133909

EUROPEAN STANDARD

EN IEC 60652

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2021

ICS 29.240.20

Supersedes EN 60652:2004 and all of its amendments
and corrigenda (if any)

English Version

**Overhead line structures - Loading tests
(IEC 60652:2021)**Essais mécaniques des structures de lignes aériennes
(IEC 60652:2021)Freileitungstragwerke - Belastungsprüfungen
(IEC 60652:2021)

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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

EN IEC 60652:2021 (E)**European foreword**

The text of document 11/276/FDIS, future edition 3 of IEC 60652, prepared by IEC/TC 11 “Overhead lines” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60652:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-06-03 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-09-03 document have to be withdrawn

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-466	1990	International Electrotechnical Vocabulary- (IEV) - Part 466: Overhead lines		-
AMD/1	2020		-	-
ISO/IEC 17025	2017	General requirements for the competence of testing and calibration laboratories	EN ISO/IEC 17025	2017
CIGRE 399	Brochure 2009	Improvement on the Tower Testing- Methodology		-



IEC 60652

Edition 3.0 2021-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Overhead line structures – Loading tests

Structures des lignes aériennes – Essais mécaniques

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IEC 60652

Edition 3.0 2021-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Overhead line structures – Loading tests

Structures des lignes aériennes – Essais mécaniques

INTERNATIONAL
ELECTROTECHNICAL
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COMMISSION
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INTERNATIONALE

ICS 29.240.20

ISBN 978-2-8322-9958-6

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OVERHEAD LINE STRUCTURES – LOADING TESTS

FOREWORD

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IEC 60652 has been prepared by IEC technical committee 11: Overhead lines. It is an International Standard.

This third edition cancels and replaces the second edition published in 2002. This edition constitutes a technical revision.

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

- a) Title modified;
- b) Added reference to CIGRE Brochure 399;
- c) In Clause 7, added test limitation for wind speed and direction during testing;
- d) In paragraph 10.5, added load increments for destruction tests;
- e) In paragraph 10.7, added a requirement for an agreement between client and testing station when testing supports made of creep-sensitive materials;
- f) In Clause 17, added requirements for sampling procedure to be provided in the test report.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
11/276/FDIS	11/277/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

OVERHEAD LINE STRUCTURES – LOADING TESTS

1 Scope

This document specifies the methods and procedures of testing supports for overhead lines.

It applies to the testing of supports and structures of overhead lines.

There is no restriction on the type of material used in the fabrication of the supports which may include, but not be limited to, metallic alloys, concrete, timber, laminated wood and composite materials. If required by the client, this document can also be applied to the testing of telecommunication supports, railway/tramway overhead electrification supports, electrical substation gantries, street lighting columns, wind turbine towers, ski-lift supports, etc.

Tests on reduced scale models of supports are not covered by this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-466:1990, *International Electrotechnical Vocabulary (IEV) – Part 466: Overhead lines*

IEC 60050-466:1990/AMD1:2020

ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories*

CIGRE Brochure 399:2009, *Improvement on the Tower Testing Methodology*

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