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ÕHU-KONTAKTLIINISÜSTEEMIDES KASUTATAVATELE  
KOMPOSIITISOLAATORITELE

Railway applications - Fixed installations - Electric  
traction - Specific requirements for composite  
insulators used for overhead contact line systems

## EESTI STANDARDI EESSÕNA

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See Eesti standard EVS-EN 62621:2016 sisaldab Euroopa standardi EN 62621:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 62621:2016 consists of the English text of the European standard EN 62621:2016.
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.
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English Version

**Railway applications - Fixed installations - Electric traction -  
Specific requirements for composite insulators used for  
overhead contact line systems  
(IEC 62621:2011)**

Applications ferroviaires - Installations fixes - Traction  
électrique - Exigences particulières pour les isolateurs  
composites destinés aux réseaux de lignes aériennes  
de contact  
(IEC 62621:2011)

Bahnanwendungen - Ortsfeste Anlagen - Zugförderung -  
Besondere Anforderungen an Verbundisolatoren für  
Oberleitungssysteme  
(IEC 62621:2011)

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

This document (EN 62621:2016) consists of the text of IEC 62621:2011 prepared by IEC/TC 9 "Electrical equipment and systems for railways".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-12-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-12-21

This document supersedes EN 50151:2003.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

## Endorsement notice

The text of the International Standard IEC 62621:2011 was approved by CENELEC as a European Standard without any modification.

## Annex ZA

(normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60587	-	Electrical insulating materials used under severe ambient conditions - Test methods for evaluating resistance to tracking and erosion	EN 60587	-
IEC/TS 60815-1	2008	Selection and dimensioning of high-voltage insulators intended for use in polluted conditions - Part 1: Definitions, information and general principles	-	-
IEC/TS 60815-3	2008	Selection and dimensioning of high-voltage insulators intended for use in polluted conditions - Part 3: Polymer insulators for a.c. systems	-	-
IEC 60826	-	Design criteria of overhead transmission lines	-	-
IEC 60850	2007 <sup>1)</sup>	Railway applications - Supply voltages of traction systems	EN 50163	2004
-	-		+ corr. May	2010
-	-		+ AC	2013
-	-		+ A1	2007
IEC 60913	-	Railway applications - Fixed installations - Electric traction overhead contact lines	EN 50119	-
IEC 61109	2008	Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria	EN 61109	2008

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1) IEC 60850:2007 is replaced by IEC 60850:2014, *Railway applications - Supply voltages of traction systems*.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61467	2008	Insulators for overhead lines - Insulator strings and sets for lines with a nominal voltage greater than 1 000 V - AC power arc tests	EN 61467	2008
IEC 61952	2008	Insulators for overhead lines - Composite line post insulators for A.C. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria	EN 61952	2008
IEC 62217	2005 <sup>2)</sup>	Polymeric insulators for indoor and outdoor use with a nominal voltage > 1 000 V - General definitions, test methods and acceptance criteria	EN 62217	2006 <sup>3)</sup>
-	-		+ corr. December	2006
IEC 62497-1	2010	Railway applications - Insulation coordination -	EN 50124-1	2001
-	-	Part 1: Basic requirements - Clearances and creepage distances for all electrical and electronic equipment	+ corr. December	2007
-	-		+ corr. May	2010
-	-		+ A1	2003
-	-		+ A2	2005
ISO 34-1	-	Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 1: Trouser, angle and crescent test pieces	-	-
ISO 37	-	Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties	-	-

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2) IEC 62217:2005 is replaced by IEC 62217:2012, *Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria*.

3) EN 62217:2006 is replaced by EN 62217:2013, *Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria* (IEC 62217:2012).

## **Annex ZZ**

(informative)

### **Correspondence between this European Standard and the Essential Requirements of EU Directive 2008/57/EC**

This European Standard has been prepared under a mandate given to CENELEC by the European Union and the European Free Trade Association and within its scope the standard covers all relevant essential requirements as given in Annex III of the EU Directive 2008/57/EC (also named as New Approach Directive 2008/57/EC Rail Systems: Interoperability).

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

**WARNING:** Other requirements and other EU Directives may be applicable to the products falling within the scope of this standard.

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