

Electromagnetic compatibility (EMC) - Part 4-12:
Testing and measurement techniques - Ring wave
immunity test

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 61000-4-12:2017 sisaldab Euroopa standardi EN 61000-4-12:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 61000-4-12:2017 consists of the English text of the European standard EN 61000-4-12:2017.
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English Version

**Electromagnetic compatibility (EMC) - Part 4-12: Testing and
measurement techniques - Ring wave immunity test
(IEC 61000-4-12:2017)**

Compatibilité électromagnétique (CEM) -
Partie 4-12: Techniques d'essai et de mesure - Essai
d'immunité à l'onde sinusoïdale fortement amortie
(IEC 61000-4-12:2017)

Elektromagnetische Verträglichkeit (EMV) -
Teil 4-12: Prüf- und Messverfahren - Prüfung der
Störfestigkeit gegen gedämpfte Sinusschwingungen (Ring
wave)
(IEC 61000-4-12:2017)

This European Standard was approved by CENELEC on 2017-08-22. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

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European foreword

The text of document 77B/764/CDV, future edition 3 of IEC 61000-4-12, prepared by SC 77B "High frequency phenomena" of IEC/TC 77 "Electromagnetic compatibility" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61000-4-12:2017.

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standards conflicting with the
document have to be withdrawn

This document supersedes EN 61000-4-12:2006.

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Endorsement notice

The text of the International Standard IEC 61000-4-12:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068-1	NOTE	Harmonized as EN 60068-1.
IEC 61000-4-5	NOTE	Harmonized as EN 61000-4-5.
IEC 61000-4-18	NOTE	Harmonized as EN 61000-4-18.
IEC 61010-1	NOTE	Harmonized as EN 61010-1.

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	Series	International Electrotechnical Vocabulary (IEV)	-	-

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INTRODUCTION

IEC 61000 is published in separate parts according to the following structure:

Part 1: General

General considerations (introduction, fundamental principles)

Definitions, terminology

Part 2: Environment

Description of the environment

Classification of the environment

Compatibility levels

Part 3: Limits

Emission limits

Immunity limits (in so far as they do not fall under the responsibility of the product committees)

Part 4: Testing and measurement techniques

Measurement techniques

Testing techniques

Part 5: Installation and mitigation guidelines

Installation guidelines

Mitigation methods and devices

Part 6: Generic standards

Part 9: Miscellaneous

Each part is further subdivided into several parts, published either as international standards or as technical specifications or technical reports, some of which have already been published as sections. Others will be published with the part number followed by a dash and a second number identifying the subdivision (example: IEC 61000-6-1).

This part is an International Standard which gives immunity requirements and test procedures related to ring waves. It should be noted that edition 1 of IEC 61000-4-12, published in 1995, covered immunity tests against two phenomena, ring waves and damped oscillatory waves. This situation was changed in edition 2, published in 2006, where IEC 61000-4-12 covered the ring wave phenomena only and the damped oscillatory wave phenomenon was moved into a new standard IEC 61000-4-18.