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Metallic communication cable test methods - Part 4-5:
Electromagnetic compatibility (EMC) - Screening or
coupling attenuation - Absorbing clamp method

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.10.2021.	Date of Availability of the European standard is 01.10.2021.
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English Version

**Metallic communication cable test methods - Part 4-5:
Electromagnetic compatibility (EMC) - Screening or coupling
attenuation - Absorbing clamp method
(IEC 62153-4-5:2021)**

Méthodes d'essai des câbles métalliques de communication
- Partie 4-5: Compatibilité électromagnétique (CEM) -
Affaiblissement d'écran ou de couplage - Méthode de la
pince absorbante
(IEC 62153-4-5:2021)

Prüfverfahren für metallische Kommunikationskabel - Teil 4-
5: Elektromagnetische Verträglichkeit (EMV) -
Kopplungsdämpfung oder Schirmdämpfung - Verfahren mit
Absorberzangen
(IEC 62153-4-5:2021)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 46/819/FDIS, future edition 2 of IEC 62153-4-5, prepared by IEC/TC 46 “Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62153-4-5:2021.

The following dates are fixed:

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62153-4-3 NOTE Harmonized as EN 62153-4-3¹

¹ To be published. Stage at the time of publication: prEN 62153-4-3:2021.

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 60050-726	-	International Electrotechnical Vocabulary- (IEV) – Part 726: Transmission lines and waveguides		-
IEC/TS 62153-4-1	-	Metallic communication cable test methods- - Part 4-1: Electromagnetic compatibility (EMC) - Introduction to electromagnetic screening measurements		-
CISPR 16-1-3	2004	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power	EN 55016-1-3	2006
ITU-T G.117	1996	Transmission aspects of unbalance about-earth		-
ITU-T O.9	1999	Measuring arrangements to assess the-degree of unbalance about earth		-

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Metallic communication cable test methods –
Part 4-5: Electromagnetic compatibility (EMC) – Screening or coupling
attenuation – Absorbing clamp method**

**Méthodes d'essai des câbles métalliques de communication –
Partie 4-5: Compatibilité électromagnétique (CEM) – Affaiblissement d'écran ou
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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Metallic communication cable test methods –
Part 4-5: Electromagnetic compatibility (EMC) – Screening or coupling
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

METALLIC COMMUNICATION CABLE TEST METHODS –

Part 4-5: Electromagnetic compatibility (EMC) – Screening or coupling attenuation – Absorbing clamp method

FOREWORD

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IEC 62153-4-5 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

This second edition cancels and replaces the first edition published in 2006. This edition constitutes a technical revision.

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

- a) reorganisation of clauses and annexes;
- b) extension of frequency range to 2,4 GHz;
- c) application of a virtual balun respectively balunless test procedure with multiport VNA.

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

FDIS	Report on voting
46/819/FDIS	46/829/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.

This standard is intended to be read in conjunction with IEC TS 62153-4-1:2014, which describes the theoretical background.

A list of all parts in the IEC 62153-4-n series, under the general title: *Metallic communication cable test methods – Electromagnetic Compatibility (EMC)* can be found on the IEC website.

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