

<b>STN</b>	<b>Skúšobné metódy na kovové káble a iné pasívne komponenty Časť 4-7: Elektromagnetická kompatibilita (EMC) Skúšobná metóda na meranie prenosovej impedancie <math>Z_T</math> a tlmenia tienenia <math>a_S</math> alebo tlmenia spojenia <math>a_C</math> konektorov a súborov Triaxiálna metóda rúrka v rúrke Zmena A1</b>	<b>STN EN IEC 62153-4-7/A1</b>  34 7012
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Metallic cables and other passive components test methods - Part 4-7: Electromagnetic compatibility (EMC) -Test method for measuring of transfer impedance  $Z_T$  and screening attenuation  $a_S$  or coupling attenuation  $a_C$  of connectors and assemblies - Triaxial tube in tube method

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. 03/26

STN EN IEC 62153-4-7 z decembra 2021 sa bez tejto zmeny A1 môže používať do 31. 12. 2028.

Obsahuje: EN IEC 62153-4-7:2021/A1:2025, IEC 62153-4-7:2021/AMD1:2025



EUROPEAN STANDARD

**EN IEC 62153-4-7:2021/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2025

ICS 33.100.10; 33.120.10

English Version

**Metallic cables and other passive components test methods -  
Part 4-7: Electromagnetic compatibility (EMC) - Test method for  
measuring of transfer impedance  $Z_T$  and screening attenuation  
 $a_S$  or coupling attenuation  $a_C$  of connectors and assemblies -  
Triaxial tube in tube method  
(IEC 62153-4-7:2021/AMD1:2025)**

Méthodes d'essai des câbles métalliques et autres  
composants passifs - Partie 4-7: Compatibilité  
électromagnétique (CEM) - Méthode d'essai pour mesurer  
l'impédance de transfert,  $Z_T$ , et l'affaiblissement  
d'écrantage,  $a_S$ , ou l'affaiblissement de couplage,  $a_C$ , des  
connecteurs et des cordons - Méthode triaxiale en tubes  
concentriques  
(IEC 62153-4-7:2021/AMD1:2025)

Prüfverfahren für metallene Kabel und andere passive  
Bauteile - Teil 4-7: Elektromagnetische Verträglichkeit  
(EMV) - Prüfverfahren zur Messung des  
Kopplungswiderstands  $Z_T$  und der Schirmdämpfung  $a_S$   
oder Kopplungsdämpfung  $a_C$  von Steckverbindern und  
Baugruppen - Triaxiales Rohr-in-Rohr-Verfahren  
(IEC 62153-4-7:2021/AMD1:2025)

This amendment A1 modifies the European Standard EN IEC 62153-4-7:2021; it was approved by CENELEC on 2025-12-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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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 62153-4-7:2021/A1:2025 (E)****European foreword**

The text of document 46/1061/FDIS, future edition 3 of IEC 62153-4-7/AMD1, prepared by 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 62153-4-7:2021/A1:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-12-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-12-31 document have to be withdrawn

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**Endorsement notice**

The text of the International Standard IEC 62153-4-7:2021/AMD1:2025 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 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.cencenelec.eu](http://www.cencenelec.eu).

*Replace IEC 62153-4-9:2018 with:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62153-4-9	2018	Metallic communication cable test methods - Part 4 - 9: Electromagnetic compatibility (EMC) - Coupling attenuation of screened balanced cables, triaxial method	-	-
+ A1	2020		-	-
+ A2	2024		-	-

*Replace IEC 62153-4-15:2015 with:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62153-4-15	2021	Metallic cables and other passive components test methods - Part 4-15: Electromagnetic compatibility (EMC) - Test method for measuring transfer impedance and screening attenuation - or coupling attenuation with triaxial cell	EN IEC 62153-4-15	2021
+ A1	2024		+ A1	2024



IEC 62153-4-7

Edition 3.0 2025-11

# INTERNATIONAL STANDARD

AMENDMENT 1

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**Metallic cables and other passive components test methods -  
Part 4-7: Electromagnetic compatibility (EMC) -Test method for measuring of  
transfer impedance  $Z_T$  and screening attenuation  $a_s$  or coupling attenuation  $a_c$  of  
connectors and assemblies - Triaxial tube in tube method**



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IEC Secretariat  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Metallic cables and other passive components test methods -  
Part 4-7: Electromagnetic compatibility (EMC) -  
Test method for measuring of transfer impedance  $Z_T$  and screening  
attenuation  $a_S$  or coupling attenuation  $a_C$  of connectors and assemblies -  
Triaxial tube in tube method**

**AMENDMENT 1****FOREWORD**

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Amendment 1 to IEC 62153-4-7:2021 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

## IEC 62153-4-7:2021/AMD1:2025 © IEC 2025

The text of this Amendment is based on the following documents:

Draft	Report on voting
46/1061/FDIS	46/1070/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 Amendment 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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications/](http://www.iec.ch/publications/).

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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## INTRODUCTION to Amendment

The goal of this amendment is:

- to extend coupling attenuation measurements to unscreened connectors and cable assemblies
- to extend coupling attenuation measurements of connectors and cable assemblies to low frequencies by introducing the LFCA
- to extend 10.5, expression of results by a conversion formula between scattering parameter and coupling attenuation
- to introduce the application of a 20 dB/dec envelope curve for coupling attenuation
- to introduce the effect and the mitigation techniques of higher order modes when doing high frequency measurements beyond the higher order mode cutoff-frequency of the triaxial outer system

IEC 62153-4-7:2021/AMD1:2025 © IEC 2025

## 2 Normative references

*Replace IEC 62153-4-9:2018 with the following:*

IEC 62153-4-9:2018, *Metallic communication cable test methods - Part 4 - 9: Electromagnetic compatibility (EMC) - Coupling attenuation of screened balanced cables, triaxial method*

IEC 62153-4-9:2018/AMD1:2020

IEC 62153-4-9:2018/AMD2:2024

*Replace IEC 62153-4-15:2015 with the following:*

IEC 62153-4-15:2021, *Metallic cables and other passive components test methods - Part 4-15: Electromagnetic compatibility (EMC) related test method for measuring transfer impedance and screening attenuation or coupling attenuation with triaxial cell*

IEC 62153-4-15:2021/AMD1:2024

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**