STN	Káblové súbory, káble, konektory a pasívne mikrovlnné súčiastky. Meranie tlmenia tienenia metódou dozvukovej komory.	STN EN 61726
		34 7705

Cable assemblies, cables, connectors and passive microwave components - Screening attenuation measurement by the reverberation chamber 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. 06/16

Obsahuje: EN 61726:2015, IEC 61726:2015

Oznámením tejto normy sa od 13.10.2018 ruší STN EN 61726 (34 7705) z júla 2001

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2016 Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 61726

November 2015

ICS 33.120.10; 33.120.30

Supersedes EN 61726:2000

**English Version** 

# Cable assemblies, cables, connectors and passive microwave components - Screening attenuation measurement by the reverberation chamber method (IEC 61726:2015)

Câbles, cordons, connecteurs et composants hyperfréquence passifs - Mesure de l'affaiblissement d'écran par la méthode de la chambre réverbérante (IEC 61726:2015) Konfektionierte Kabel, Kabel, Steckverbinder und passive Mikrowellenbauteile - Messung der Schirmdämpfung mit dem Strahlungskammerverfahren (IEC 61726:2015)

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# European foreword

The text of document 46/551/FDIS, future edition 3 of IEC 61726, prepared by IEC/TC 46 "Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61726:2015.

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)	2016-07-13
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2018-10-13

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# Annex ZA

(normative)

# Normative references to international publications with their corresponding European publications

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

Publication	Year	<u>Title</u>	<u>EN/HD</u>	Year
IEC TS 62153-4-1	-	Metallic communication cable test method	ds -	-
		- Part 4-1: Electromagnetic compatibility		
		(EMC) - Introduction to electromagnetic		
		screening measurements		
IEC 61000-4-21	-	Electromagnetic compatibility (EMC) Pa	artEN 61000-4-21	-
		4-21: Testing and measurement		
		techniques - Reverberation chamber test		
		methods		
IEC 61196-1	-	Coaxial communication cables - Part 1:	-	-
		Generic specification - General, definition	S	
		and requirements		



IEC 61726:2015-09(en)

# **IEC 61726**

Edition 3.0 2015-09

# INTERNATIONAL STANDARD

Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method





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# **IEC 61726**

Edition 3.0 2015-09

# INTERNATIONAL STANDARD

Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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# CONTENTS

FC	DREWO	RD	3
1	Scop	e	5
2	Norm	ative references	5
3	Term	s and definitions	5
4	Basic	description of the reverberation chamber method	5
5	Meas	surement of the screening attenuation of the device under test (DUT)	6
6	Desc	ription of the test set-up	6
	6.1	Reverberation chamber	
	6.2	Mode stirrer	
	6.3	Antennas	
	6.4	Test equipment	
	6.5	Device under test (DUT)	
	6.6	Linking devices	
7	Meas	surement procedure	8
	7.1	General	8
	7.2	Measurement of the DUT	
	7.2.1	General	
	7.2.2	Standard measurement	9
	7.2.3	Fast measurement	9
	7.3	Measurement of the insertion loss of the cavity	10
	7.4	Control of the test set-up	10
	7.4.1	Dynamic range	10
	7.4.2	Insertion loss of the chamber	11
	7.4.3	Measurement of a calibrator	11
	7.4.4	Measurement of lossy DUT	11
	7.5	Revolution speed of the mode stirrer	
	7.6	Test frequencies	11
	7.7	Voltage standing wave ratio (VSWR)	12
8	Evalu	ation of the test results	12
		informative) Relationship between transfer impedance and screening	
		n	
Ar	nnex B (	informative) Example of a calibrator	14
Bi	bliograp	hy	16
Fi	aure 1 –	- Example of a test set-up	7

Figure 1 – Example of a test set-up	7
Figure B.1 – Basic construction details	14

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### INTERNATIONAL ELECTROTECHNICAL COMMISSION

# CABLE ASSEMBLIES, CABLES, CONNECTORS AND PASSIVE MICROWAVE COMPONENTS – SCREENING ATTENUATION MEASUREMENT BY THE REVERBERATION CHAMBER METHOD

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International Standard IEC 61726 has been prepared by IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

This third edition cancels and replaces the second edition, published in 1999. This edition constitutes a technical revision.

It takes into account the latest developments in the design of reverberation chambers as described in IEC 61000-4-21, which is also referencing this standard as a possible test method. Furthermore, an alternative measurement procedure is added which is able to reduce the measurement time needed.

- 4 -

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

FDIS	Report on voting
46/551/FDIS	46/569/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

A bilingual version of this publication may be issued at a later date.

# CABLE ASSEMBLIES, CABLES, CONNECTORS AND PASSIVE MICROWAVE COMPONENTS – SCREENING ATTENUATION MEASUREMENT BY THE REVERBERATION CHAMBER METHOD

### 1 Scope

The requirements of modern electronic equipment have indicated a demand for a method for testing screening attenuation of microwave components over their whole frequency range. Convenient test methods exist for low frequencies and components of regular shape. These test methods are described in the relevant IEC product specifications (e.g. IEC 62153-4-3). For higher frequencies and for components of irregular shape, a new test method has become necessary and such a test method is described in this International Standard.

This International Standard describes the measurement of screening attenuation by the reverberation chamber test method, sometimes named mode stirred chamber, suitable for virtually any type of microwave component and having no theoretical upper frequency limit. It is only limited toward low frequencies due to the size of the test equipment, which is frequency-dependent and is only one of several methods of measuring screening attenuation.

For the purpose of this standard, examples of microwave components are waveguides, phase shifters, diplexers/multiplexers, power dividers/combiners etc.

### 2 Normative references

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.

IEC 61196-1, Coaxial communication cables – Part 1: Generic specification – General, definitions and requirements

IEC TS 62153-4-1, Metallic communication cable test methods – Part 4-1: Electromagnetic compatibility (EMC) – Introduction to electromagnetic screening measurements

IEC 61000-4-21, *Electromagnetic compatibility (EMC) – Part 4-21: Testing and measurement techniques – Reverberation chamber test methods* 

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