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Hollow metallic waveguides - Part 4: Relevant specifications for circular waveguides

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. 06/18

Obsahuje: EN 60153-4:2017, IEC 60153-4:2017

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EN 60153-4

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ICS 33.120.10

Supersedes HD 123.4 S1:1977

English Version

Hollow metallic waveguides - Part 4: Relevant specifications for circular waveguides (IEC 60153-4:2017)

Guides d'ondes métalliques creux - Partie 4: Spécifications applicables aux guides d'ondes circulaires
(IEC 60153-4:2017)

Metallische Hohlleiter - Teil 4: Einzelbestimmungen für Rundhohlleiter
(IEC 60153-4:2017)

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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 60153-4:2017 (E)**European foreword**

The text of document 46F/344/CDV, future edition 3 of IEC 60153-4, prepared by SC 46F "RF and microwave passive components", of 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 60153-4:2017.

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) 2018-06-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-09-20

This document supersedes HD 123.4 S1:1977.

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

IEC 60153-1:2016	NOTE	Harmonized in EN 60153-1:2016.
ISO/IEC 17025:2005	NOTE	Harmonized as EN ISO/IEC 17025:2005.

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-726	1982	International electrotechnical vocabulary - Chapter 726: Transmission lines and waveguides	-	-
IEC 60261	-	Sealing test for pressurized waveguide tubing and assemblies	HD 138 S2	-



IEC 60153-4

Edition 3.0 2017-08

INTERNATIONAL STANDARD



Hollow metallic waveguides – Part 4: Relevant specifications for circular waveguides





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Hollow metallic waveguides – Part 4: Relevant specifications for circular waveguides

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOLLOW METALLIC WAVEGUIDES –

Part 4: Relevant specifications for circular waveguides

FOREWORD

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International Standard IEC 60153-4 has been prepared by subcommittee 46F: RF and microwave passive components, of IEC technical committee TC:46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

This third edition cancels and replaces the second edition published in 1973-1. This edition constitutes a technical revision.

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

- a) Expand and revise the operation frequency range for waveguides;
- b) Revise the allowance of aperture dimensions;
- c) Revise the test method for aperture dimensions;
- d) Revise the equation of attenuation.

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

CDV	Report on voting
46F/344/CDV	46F/356/RVC

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

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

A list of all the parts in the IEC 60153 series, published under the general title *Hollow metallic waveguides*, can be found on the IEC website.

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

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

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HOLLOW METALLIC WAVEGUIDES –

Part 4: Relevant specifications for circular waveguides

1 Scope

This part of IEC 60153 specifies straight hollow metallic tubing of circular waveguides for use as waveguides in electronic equipment.

The aim of this recommendation is to specify for hollow metallic waveguides:

- a) the details necessary to ensure compatibility and, as far as essential, interchangeability;
- b) test methods;
- c) uniform requirements for the electrical and mechanical properties.

2 Normative references

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.

IEC 60050-726:1982, *International Electrotechnical Vocabulary. Transmission lines and waveguides*

IEC 60261, *Sealing test for pressurized waveguide tubing and assemblies*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN