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Responsible committee: EPL/46 Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling

Interested committees:

Title: BS EN 60153-2 Hollow metallic waveguides

Part 2: Relevant specifications for ordinary rectangular waveguides

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

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- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



46F/641/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 60153-2 ED4

DATE OF CIRCULATION:

2023-04-14

CLOSING DATE FOR COMMENTS:

2023-07-07

SUPERSEDES DOCUMENTS:

46F/625/RR

IEC SC 46F : RF AND MICROWAVE PASSIVE COMPONENTS

SECRETARIAT:

United States of America

SECRETARY:

Mr John Morelli

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:

☐

Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☐ SAFETY

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TITLE:

Hollow metallic waveguides - Part 2: Relevant specifications for ordinary rectangular waveguides

NOTE FROM TC/SC OFFICERS:

please see attached CD

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOLLOW METALLIC WAVEGUIDES –

Part 2: Relevant specifications for ordinary rectangular waveguides

FOREWORD

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- IEC 60153-2 has been prepared by subcommittee 46F: RF and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.
- This fourth edition cancels and replaces the third edition published in 2016. This edition constitutes a technical revision.

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

- a) addition of a cross-sectional view of the waveguide;
- b) addition of informative content on the theoretical background of the standard;
- c) use of a lower case “k” in the waveguide designation, where appropriate;
- d) revision of main specification table (now Table 1):
 - two waveguides moved to the end of the table (R 35, R 41);
 - correction of a waveguide designation (now R 26k);
 - correction of a waveguide outside width (R 18);
 - relaxation of tolerances of waveguide outside dimensions (R 14 to R 70);
 - removed attenuation values of waveguides made of gold, aluminium, and stainless steel;
 - implementation of attenuation values for an idealised copper waveguide;
- e) relaxation of tolerances of waveguide outside dimensions for R 14 to R 70 in the table now referred to as Table 4;
- f) clarification of the electrical tests:
 - use of standard annealed copper as the reference material;
 - addition of an equation for calculating the theoretical attenuation of waveguides made of any material;
- g) addition of an informative cross reference for waveguide type designations (Annex A).

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

Draft	Report on voting
XX/XX/FDIS	XX/XX/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 the IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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

This International Standard is to be read in conjunction with IEC 60153-1.

The committee has decided that the contents of this document will remain unchanged until the stability date – indicated on the IEC website at webstore.iec.ch in the data related to the respective document – is reached. At this date, the document will be either:

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