

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Guides d'ondes métalliques creux –
Partie 4: Spécifications applicables aux guides d'ondes circulaires**





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

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOLLOW METALLIC WAVEGUIDES –**Part 4: Relevant specifications for circular waveguides**

FOREWORD

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IEC 60153-4 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 2017. This edition constitutes a technical revision.

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

- a) change of the designation scheme for small circular waveguides (e.g. C 25.5k instead of C 25500);
- b) revision of Table 1:
 - correction of two waveguide designations (now C 1.2k, C 12k);
 - correction of three waveguide diameters (C 140, C 1.4k, C 14k);
 - tightening of inner diameter tolerances for waveguides smaller than C 890;
 - deletion of waveguide attenuation values for aluminium, gold, and brass;

- c) deletion of Table 2 (duplication) and replacement with the table of intermediate waveguide sizes originally envisaged here;
- d) addition of an equation for calculating the attenuation of waveguides made of any material.

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

Draft	Report on voting
46F/616/FDIS	46F/621/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.

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

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 under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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