

---

**Flanges for waveguides - Part 1: General requirements (IEC 60154-1:1982)**

Flanges for waveguides -- Part 1: General requirements

Flansche für Hohlleiter -- Teil 1: Allgemeine Anforderungen

Brides pour guides d'ondes -- Partie 1: Prescriptions générales

**Ta slovenski standard je istoveten z: EN 60154-1:1994**[SIST EN 60154-1:1998](https://standards.iteh.ai/catalog/standards/sist/fb5f13c2-540a-4950-8947-6512e37fb5e4/sist-en-60154-1-1998)<https://standards.iteh.ai/catalog/standards/sist/fb5f13c2-540a-4950-8947-6512e37fb5e4/sist-en-60154-1-1998>**ICS:**

33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

**SIST EN 60154-1:1998****en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60154-1:1998](https://standards.iteh.ai/catalog/standards/sist/fb5f13c2-540a-4950-8947-6512e37ff5e4/sist-en-60154-1-1998)

<https://standards.iteh.ai/catalog/standards/sist/fb5f13c2-540a-4950-8947-6512e37ff5e4/sist-en-60154-1-1998>

EUROPEAN STANDARD

EN 60154-1

NORME EUROPEENNE

EUROPAISCHE NORM

November 1994

UDC 621.372.831:001.4:620.111.1:621.753.1  
ICS 33.120.10

Supersedes HD 129.1 S2:1984

Descriptors: Waveguides, flanges, general requirements

## ENGLISH VERSION

Flanges for waveguides  
Part 1: General requirements  
(IEC 154-1:1982)Brides pour guides d'ondes  
Première partie: Prescriptions  
générales  
(CEI 154-1:1982)Flansche für Hohlleiter  
Teil 1: Allgemeine Anforderungen  
(IEC 154-1:1982)

## iTeh STANDARD PREVIEW

(standards.iteh.ai)

This European Standard was approved by CENELEC on 1994-07-05.  
CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations  
which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German).  
A version in any other language made by translation under the responsibility of  
a CENELEC member into its own language and notified to the Central Secretariat  
has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium,  
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,  
Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

## CENELEC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B-1050 Brussels

### FOREWORD

At the request of CENELEC 78th Technical Board, HD 129.1 S2:1984 (IEC 154-1:1982) was submitted to the CENELEC voting procedure for conversion into a European Standard.

The text of the International Standard was approved by CENELEC as EN 60154-1 on 5 July 1994.

The following dates were fixed:

- latest date of publication of  
a harmonized national standard (dop) 1995-07-15
- latest date of withdrawal of  
conflicting national standards (dow) -

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

## **iTeh STANDARD PREVIEW** **ENDORSEMENT NOTICE** **(standards.iteh.ai)**

The text of the International Standard IEC 154-1:1982 was approved by CENELEC as a European Standard without any modification.

<https://standards.iteh.ai/catalog/standards/sist/f5f13c2-540a-4950-8947-6512e37ff5e4/sist-en-60154-1-1998>

## ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD  
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE : When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
50(726)	1982	International Electrotechnical Vocabulary (IEV) Chapter 726: Transmission, lines and waveguides	-	-
68	series	Environmental testing	HD 323 EN 60068	series series
153	series	Hollow metallic waveguides	HD 123	series

Other publication quoted:

[SIST EN 60154-1:1998](#)

<https://standards.iteh.ai/catalog/standards/sist/f5f13c2-540a-4950-8947-6512e37f5e4/sist-en-60154-1-1998>

ISO Recommendation R 286: ISO System of limits and fits  
Part 1: General, tolerances and deviations

-----

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60154-1:1998](https://standards.iteh.ai/catalog/standards/sist/fb5f13c2-540a-4950-8947-6512e37ff5e4/sist-en-60154-1-1998)

<https://standards.iteh.ai/catalog/standards/sist/fb5f13c2-540a-4950-8947-6512e37ff5e4/sist-en-60154-1-1998>

NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC

60154-1

Deuxième édition  
Second edition  
1982-01

Brides pour guides d'ondes

Première partie:  
Prescriptions générales

iTeh STANDARD PREVIEW  
Flanges for waveguides  
(standards.iteh.ai)

Part 1: [SIST EN 60154-1:1998](https://standards.iteh.ai/catalog/standards/sist-en-60154-1-1998)

<https://standards.iteh.ai/catalog/standards/sist-en-60154-1-1998>  
General requirements

© IEC 1982 Droits de reproduction réservés — Copyright - all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission  
Telefax: +41 22 919 0300

3, rue de Varembé Geneva, Switzerland  
e-mail: [inmail@iec.ch](mailto:inmail@iec.ch) IEC web site <http://www.iec.ch>



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

G

Pour prix, voir catalogue en vigueur  
For price, see current catalogue

## CONTENTS

	Page
FOREWORD . . . . .	5
PREFACE . . . . .	5
SCOPE . . . . .	7
OBJECT . . . . .	7
Clause	
1. General . . . . .	7
1.1 Terminology . . . . .	7
1.2 Flange designation . . . . .	7
1.3 Standard atmospheric conditions for testing . . . . .	9
1.4 Visual inspection . . . . .	9
2. Mechanical requirements . . . . .	9
2.1 General requirements both for mounted and unmounted flanges . . . . .	9
2.2 General requirements for mounted flanges (assemblies) . . . . .	13
2.3 Additional requirements for unmounted flanges . . . . .	13

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 60154-1:1998

<https://standards.iteh.ai/catalog/standards/sist/fb5f13c2-540a-4950-8947-6512e37ff5e4/sist-en-60154-1-1998>

---



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FLANGES FOR WAVEGUIDES****Part 1: General requirements**

## FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

**iTeh STANDARD PREVIEW**

PREFACE  
(standards.iteh.ai)

This standard has been prepared by Sub-Committee 46B: Waveguides and their Accessories, of IEC Technical Committee No. 46: Cables, Wires and Waveguides for Telecommunication Equipment.

It forms the second edition of Part 1 of IEC Publication 154 dealing with flanges for waveguides.  
<https://standards.iteh.ai/catalog/standards/sist/154-502-540a-4950-8947-6512e37ff5e4/sist-en-60154-1-1998>

Detail information on the specific types of flanges is given in the relevant specifications issued as separate publications.

A draft amending the scope was circulated to the National Committees for comment under the Accelerated Procedure in January 1978. Subsequently, a draft, Document 46B(Central Office)88, was submitted to the National Committees for approval under the Six Months' Rule in October 1980.

The National Committees of the following countries voted explicitly in favour of publication:

Belgium	Sweden
Egypt	Switzerland
France	Turkey
German Democratic Republic	Union of Soviet
Germany	Socialist Republics
Poland	United Kingdom
Spain	United States of America

*Other IEC publications quoted in this standard:*

Publications Nos. 50(726): International Electrotechnical Vocabulary (I.E.V.) Chapter 726: Transmission Lines and Waveguides.

68: Basic Environmental Testing Procedures.

153: Hollow Metallic Waveguides.

*Other publication quoted:*

ISO Recommendation R 286: ISO System of Limits and Fits — Part 1: General, Tolerances and Deviations.