SLOVENSKI STANDARD

SIST HD 123.4 S1:2002

prva izdaja september 2002

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

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<u>SIST HD 123.4 S1:2002</u> https://standards.iteh.ai/catalog/standards/sist/40023450-228d-47cf-ae80-5719cd407634/sist-hd-123-4-s1-2002

ICS 33.120.10

Referenčna številka SIST HD 123.4 S1:2002(en)

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INFORMATION SHEET

HD 123.4 S1

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 ISSUE 3

1988-01-20

Hollow metallic waveguides Part 4: Relevant specifications for circular waveguides

Guides d'ondes métalliques creux Quatrième partie: Spécifications particulières pour les guides d'ondes circulaires Metallische Hohlleiter Teil 4: Allgemeine Empfehlungen für Rundhohlleiter

RD: IEC 153-4 (1973) ed 2; IEC/SC 46B (not appended)

The Harmonization Document consists of the following : E W

- TitLe Page

(standards ritehai) Directive: -

 SIST HD 123.4 S1:2002

 https://standards.iteb.ai/catalog/standards/sist/40023450-228d-47cF.ae80

 date of ratification : 5719275740798 hd-123-4-s1-2002

 date of announcement :

 date of latest publication : 1977-01-01

 date of withdrawal :

List of national deviations

LIST OF NATIONAL STANDARDS IS GIVEN OVERLEAF

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AŢ		NOS
BE	:	NOS
СН	:	SEV/ASE 3070.1966
DE	:	DIN 47 302 Teil 2/03.80; DIN 47 302 Teil 10/02.79
DK	:	NOS
ES	:	NOS
FI	:	NOS
FR	:	NOS
GB	:	BS 9220 NOO4 Amended to 1971, Amdt 1 : 1968, Amdt 2 : 1971
GR	:	NOS
IE	;	NOS
IT	;	CEI 46-2 (1970)
LU	:	NOS
NL	:	NEN 10 153-4 (1969) iTeh STANDARD PREVIEW
NO	:	NOS (standards.iteh.ai)
РТ	:	NOS
SE	;	<u>SIST HD 123.4 S1:2002</u> SEN 43 D2 D1 (1968) المتحافة:/SENdataB.itO2ai/Ottaldg&@ards/sist/40023450-228d-47cf-ae80-

5719cd407634/sist-hd-123-4-s1-2002

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NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI **IEC** 60153-4

Deuxième édition Second edition 1973-01

Guides d'ondes métalliques creux

Quatrième partie: Spécifications particulières pour les guides d'ondes circulaires

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Hollow metallic waveguides

Part 4: <u>SIST HD 123.4 S1:2002</u> https://standards.iteh.ai/catalog/standards/sist/40023450-228d-47cf-ae80-Relevant_specifications_for circular waveguides

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Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия CODE PRIX PRICE CODE



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOLLOW METALLIC WAVEGUIDES

Part 4: Relevant specifications for circular waveguides

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 recommendations and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

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PREFACE

This publication was prepared by Sub-Committee 46B, Waveguides and their Accessories, of Technical Committee No. 46, Cables, Wires and Waveguides for Telecommunication Equipment.

It contains Part 4: Relevant Specifications for Circular Waveguides, of the complete IEC recommendation for hollow metallic waveguides, and it is intended to be used in conjunction with Part 1, General Requirements and Measuring Methods, which is issued as IEC Publication 153-1.

Detail specifications for other types of waveguide are issued in companion publications.

The amendments and supplements contained in this second edition of Publication 153-4 have been approved in several Six Months' Rule documents.

The amendments to Table Ia were discussed at meetings in Baden-Baden in June 1965, in London in September 1968 and in The Hague in November 1970. The resulting drafts were submitted to the National Committees for approval under the Six Months' Rule as follows:

Document 46B(Central Office)25, circulated in November 1965 Document 46B(Central Office)46, circulated in September 1969 Document 46B(Central Office)49, circulated in April 1971. The following countries voted explicitly in favour of publication:

Document	Document	Document
46B(Central Office)25	46B(Central Office)46	46B(Central Office)49
Australia	Australia	Australia
Belgium	Belgium	Belgium
Denmark	Czechoslovakia	Czechoslovakia
France	Denmark	Denmark
Germany	Germany	France
Israel	Israel	Germany
Italy	Italy	Iran
Japan	Japan	Israel
Netherlands	Netherlands	Italy
Norway	Poland	Japan
Sweden	Romania	Korea (Democratic People's
Switzerland	South Africa	Republic of)
Turkey	Sweden	Netherlands
United Kingdom	Switzerland	Poland
United States of America	Turkey	Portugal
	United Kingdom	Sweden
	United States of America	Switzerland
		Turkey
		United Kingdom

The amendments to Table Ib were reviewed by SC 46B and submitted to the National Committees for approval under the Six Months' Rule, document 46B(Central Office)27, in April 1966.

United States of America

The following countries voted explicitly in favour of publication:

Australia SIST HD 12	3Japan <u>002</u>							
Belgiumndards.iteh.ai/catalog/standarNethetlands50-228d-47cf-ae80-								
Czechoslovakia5719cd407634/sist-hPoland4-s1-2002								
Denmark	Sweden							
Finland	Switzerland							
Germany	Turkey							
Hungary	United Kingdom							
Israel	United States of America							
Italy	Union of Soviet							
	Socialist Republics							

Certain other amendments contained in this publication are of an editorial nature and were deemed necessary by the Editing Committee of SC 46B.

DIMENSIONAL DEVIATIONS

The values for the permissible deviations in this recommendation follow the principles given in ISO Recommendation R286, ISO System of Limits and Fits, where:

Deviation is defined as:

Algebraical difference between a size (actual, maximum, etc.) and the corresponding basic size.

Upper deviation is defined as:

Algebraical difference between the maximum limit of size and the corresponding basic size.

And lower deviation is defined as:

Algebraical difference between the minimum limit of size and the corresponding basic size.

It should be noted that the upper and lower deviations may have like signs, unlike signs or either deviation may be zero. This permits the basic sizes of mating shafts and holes to be identical.

The older concept of plus tolerances and minus tolerances has an undesirable limitation, in that the basic sizes of mating shafts and holes cannot be identical for clearance fits.

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