



**SLOVENSKI STANDARD**  
**SIST EN 60154-1:1998/A1:1998**  
**01-april-1998**

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**Flanges for waveguides - Part 1: General requirements - Amendment A1 (IEC 60154-1:1982/A1:1993)**

Flanges for waveguides -- Part 1: General requirements

Flansche für Hohlleiter -- Teil 1: Allgemeine Anforderungen

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

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**Ta slovenski standard je istoveten z: EN 60154-1:1994/A1:1994**

SIST EN 60154-1:1998/A1:1998  
<https://standards.iteh.ai/catalog/standards/sist/fec7ecb0-d627-4598-ae15-9ce4a6aac76/sist-en-60154-1-1998-a1-1998>

**ICS:**

33.120.10      Koaksialni kabli. Valovodi      Coaxial cables. Waveguides

**SIST EN 60154-1:1998/A1:1998**      **en**

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EUROPEAN STANDARD

EN 60154-1/A1

NORME EUROPEENNE

EUROPAISCHE NORM

November 1994

UDC 621.372.831:001.4:620.111.1:621.753.1  
ICS 33.120.10

Descriptors: Waveguides, flanges, general requirements

### Amendment A1 to the English version of EN 60154-1

**Flanges for waveguides**  
**Part 1: General requirements**  
(IEC 154-1:1982/A1:1993)

**Brides pour guides d'ondes**  
**Première partie: Prescriptions**  
**générales**  
(CEI 154-1:1982/A1:1993)

**Flansche für Hohlleiter**  
**Teil 1: Allgemeine Anforderungen**  
(IEC 154-1:1982/A1:1993)

## ITeH STANDARD PREVIEW

This amendment A1 modifies the European Standard EN 60154-1:1994. It 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 amendment 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 amendment 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

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EN 60154-1:1994/A1:1994

#### FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not amendment 1:1993 to the International Standard IEC 154-1:1982 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as amendment A1 to EN 60154-1 on 5 July 1994.

The following dates were fixed:

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

#### ENDORSEMENT NOTICE

The text of amendment 1:1993 to the International Standard IEC 154-1:1982 was approved by CENELEC as an amendment to the European Standard without any modification.

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
154-1

1982

AMENDEMENT 1  
AMENDMENT 1

1993-05

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Amendement 1

**Brides pour guides d'ondes**

**Partie 1:**

**Prescriptions générales**  
**(standards.iteh.ai)**

Amendment 1

<https://standards.iteh.ai/catalog/standards/sist/fec7ecb0-d627-4598-ac15-906412120000/sist/60154-1:1998/A1:1998>  
**Flanges for waveguides**

**Part 1:**

**General requirements**

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Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembe Genève, Suisse



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

**K**

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

## FOREWORD

This amendment has been prepared by sub-committee 46B: Waveguides and their accessories, of IEC technical committee No. 46: Cables, wires, waveguides, r.f. connectors and accessories for communication and signalling.

The text of this amendment is based on the following documents:

DIS	Report on Voting
46B(CO)117	46B(CO)120

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

The dimensions and tolerances contained herein are in conformance with ISO 4014 and ISO 4759/1.

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*Add the following new clause 3:*  
<https://standards.iteh.ai/catalog/standards/sist/fec7ecb0-d627-4598-ae15-9ce4a6aac76/sist-en-60154-1-1998-a1-1998>

3. Metric thread precision shoulder bolts and precision pins used for alignment of flanges

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*Add the following new clause:*

3. Metric thread precision shoulder bolts and precision pins used for alignment of flanges

The shank diameter of the alignment shafts contained herein is identical with the diameter of the alignment bolts in this standard. Alignment bolt lengths have been so chosen to permit the use of additional hardware such as washers, lockwashers, and either plain or self-locking nuts.

When ordering, the designation comprises the following:

- For type of alignment shaft:
  - B = bolt
  - P = pin
- For size:
  - bolts: M followed by a number [X]      M[X] = size
  - pins: M followed by a number [X]      M[X] = size
- For material:
  - A = stainless steel
  - X = material agreed upon between user and manufacturer
- A letter indicating finish:
  - U = untreated
  - T = tin
  - Z = zinc
  - C = cadmium
  - X = alternative finish agreed upon between user and manufacturer.
- For bolts, additional numbers to indicate the overall length and the length of the unthreaded portion:
 

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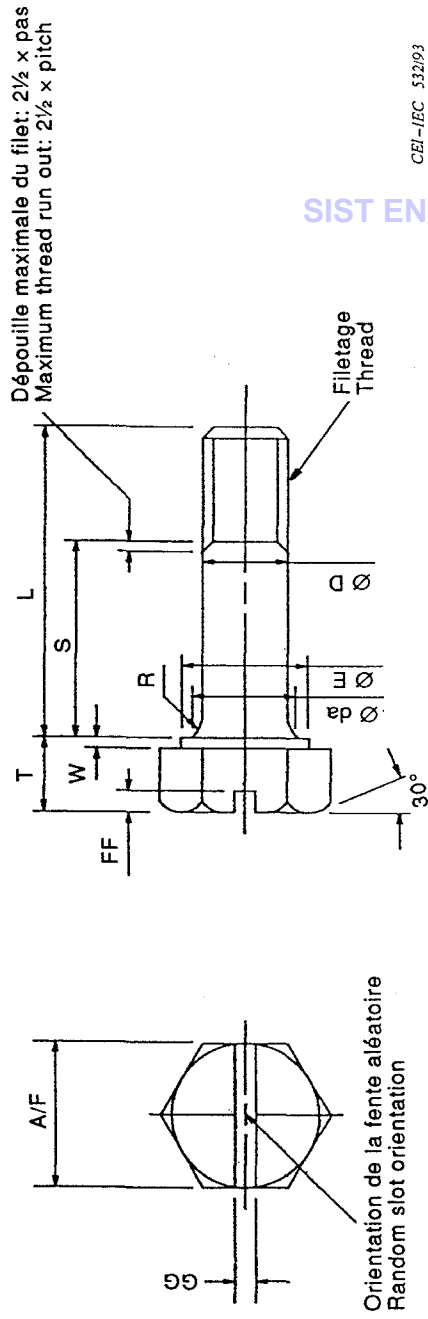
*Example:* BM 4 AU 18 x 9 is a bolt size M4 made from stainless steel, untreated, overall length of 18 mm and the length of the unthreaded portion 9 mm.

It should be noted that the bolts for R 100, 120, 140 and 180 are of the same length, but the bolts for R 100 have a larger (4,152 mm) diameter plain shank. When ordering these, therefore, it should be indicated for which flange/waveguide size they are to be used.

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<https://standards.iteh.ai/catalog/standards/sist/fec7ecb0-d627-4598-ae15-388111111111/sist-en-60154-1-1998-a1-1998>  
Représentation du boulon  
Bolt figure



CEI-IEC 532/93

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Tableau 1 – Désignation de type de bride pour guide d'ondes – U/P/CAR 32-70  
 Table 1 – Type designation of waveguide flanges – U/P/CAR 32-70

<https://standards.iteh.ai/catalog/standards/sist/7ec90-d627-4598-a15-9ce4a6aac76/sist-en-60154-1-0268-11-1998>

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
U/P/CAR 32	M6 x 1,0	9,78	10,00	6,328	6,35	9,48	6,8	4,3	0,3	0,40	27,00	14,50	21,00	7,50	1,65	1,70
U/P/CAR 40	M6 x 1,0	9,78	10,00	6,328	6,35	9,48	6,8	4,3	0,3	0,40	27,00	14,50	21,00	7,50	1,65	1,70
U/P/CAR 48	M5 x 0,8	7,78	8,00	4,982	5,00	7,55	5,7	3,7	0,2	0,35	22,00	12,00	16,00	6,00	1,50	1,40
U/P/CAR 58	M5 x 0,8	7,78	8,00	4,982	5,00	7,55	5,7	3,7	0,2	0,35	22,00	12,00	16,00	6,00	1,50	1,40
U/P/CAR 70	M5 x 0,8	7,78	8,00	4,982	5,00	7,55	5,7	3,7	0,2	0,35	22,00	12,00	16,00	6,00	1,50	1,40

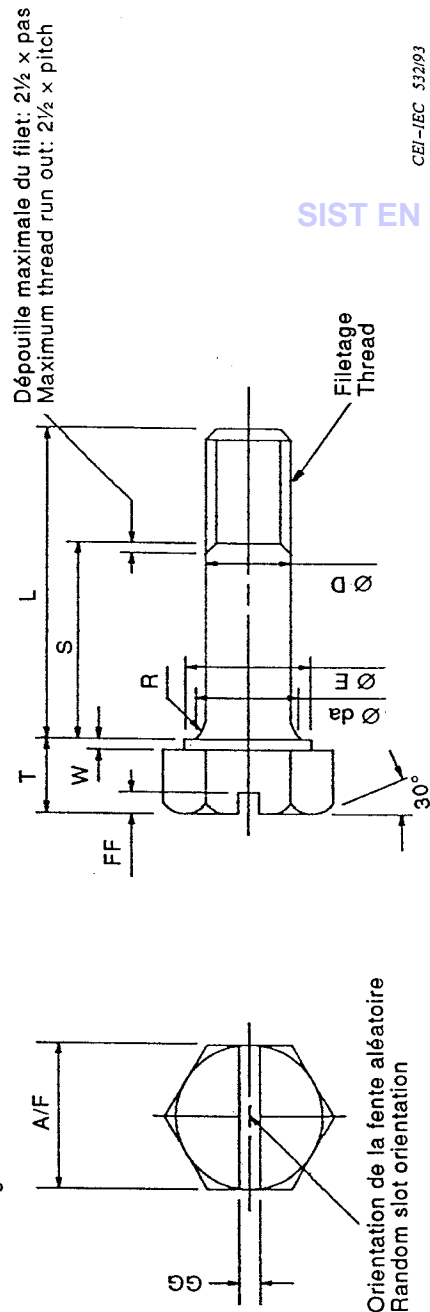
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Représentation d'un boulon  
Bolt figure



CEI-IEC 532/93

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Tableau 2 – Désignation de type de bride pour guide d'ondes – U/P/CBR 84-320  
 Table 2 – Type designation of waveguide flanges – U/P/CBR 84-320

1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16		17
													A/F	Ø D		Ø E +0 -0,25	T ± 0,15	
Désignation de type de bride pour guide d'ondes Type designa- tion of wave- guide flanges	Filetage Thread	Min. Max.							Min.	Max.	L ± 0,50	S ± 0,50	L ± 0,50	S ± 0,50		FF ± 0,13	GG ± 0,13	
U/P/CBR 84	M4 x 0,7	6,78	7,00	4,152	4,170	6,55	4,7	2,9	0,10	0,35	21,00	12,00	15,00	6,00		1,40	1,30	
U/P/CBR 100	M4 x 0,7	6,78	7,00	4,152	4,170	6,55	4,7	2,9	0,10	0,35	16,00	8,00	12,00	4,00		1,40	1,30	
U/P/CBR 120	M4 x 0,7	6,78	7,00	3,982	4,000	6,55	4,7	2,9	0,10	0,35	16,00	8,00	12,00	4,00		1,40	1,30	
U/P/CBR 140	M4 x 0,7	6,78	7,00	3,982	4,000	6,55	4,7	2,9	0,10	0,35	16,00	8,00	12,00	4,00		1,40	1,30	
U/P/CBR 180	M4 x 0,7	6,78	7,00	3,982	4,000	6,55	4,7	2,9	0,10	0,35	16,00	8,00	11,00	4,00		1,40	1,30	
U/P/CBR 220	M3 x 0,5	5,38	5,50	2,986	3,000	5,08	3,6	2,1	0,10	0,30	14,00	8,00	11,00	4,00		1,00	0,90	
U/P/CBR 260	M3 x 0,5	5,38	5,50	2,986	3,000	5,08	3,6	2,1	0,10	0,30	12,00	5,00	9,00	2,50		1,00	0,90	
U/P/CBR 320	M3 x 0,5	5,38	5,50	2,986	3,000	5,08	3,6	2,1	0,10	0,30	12,00	5,00	9,00	2,50		1,00	0,90	

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