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DRAFT

INTERNATIONAL
STANDARD

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965-3

ISO/TC 1

Secretariat: SAC

Voting begins on:
2021-04-01

Voting terminates on:
2021-05-27

ISO general purpose metric screw threads — Tolerances —

Part 3: Limit deviations for screw threads

Filetages métriques ISO pour usages généraux — Tolérances —

iTeh STANDARD REVIEW
Partie 3. Écarts limites pour filetages
(standards.iteh.ai)

ISO/FDIS 965-3

<https://standards.iteh.ai/catalog/standards/sist/eceff68b8-48e0-4d64-a70d-d06b228f6494/iso-fdis-965-3>

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Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

THIS STANDARD IS REVIEWED (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 1, *Screw threads*.

[ISO/FDIS 965-3](http://ISO/FDIS_965-3)

This fourth edition cancels¹ and replaces the third edition (ISO 965-3:1998) and has been technically revised.
d06b228fb494/iso-fdis-965-3

The main changes compared to the previous edition are as follows:

- in the document title, “constructional” has been deleted;
- in [Clause 1](#), the third paragraph has been added;
- in [Clause 4](#), the phrase “basic profiles” has been replaced by “basic profile and fundamental deviation” (first paragraph of ISO 965-3:1998; second paragraph of ISO 965-3:2020);
- in [Clause 4](#) and [Table 1](#), the deviation formula and values for the minor diameter of external threads have been deleted;
- in [Table 1](#) four tolerance classes (4g, 5g4g, 8e and 9e8e) have been added.

A list of all parts in the ISO 965 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO general purpose metric screw threads — Tolerances —

Part 3: Limit deviations for screw threads

1 Scope

This document specifies limit deviations for pitch and crest diameters for ISO general purpose metric screw threads (M) conforming to ISO 261 having basic profile in accordance with ISO 68-1.

The limit deviations specified are derived from the fundamental deviations and tolerances specified in ISO 965-1.

This document is applicable to ISO general purpose metric screw threads with the recommended tolerance classes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5408, *Screw threads — Vocabulary*

[ISO/FDIS 965-3](#)

<https://standards.iteh.ai/catalog/standards/sist/eceff68b8-48e0-4d64-a70d-d06b228f6494/iso-fdis-965-3>

3 Terms and definitions

For the purposes of this part of document, the terms and definitions given in ISO 5408 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Limit deviations

Limit deviations are given in [Table 1](#).

For internal threads as well as external threads, the actual root contour shall not in any point transgress the basic profile and fundamental deviation.

For coated threads, the tolerances apply to the parts before coating, unless otherwise stated. After coating the actual thread profile shall not in any point transgress the maximum material limits for position H or h respectively.

NOTE These provisions are intended for thin coatings, for example those obtained by electroplating.

Table 1 — Limit deviations

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
0,99	1,4	0,2	-	-	-	-	-	3h4h	0	-24	0	-36	
			-	-	-	-	-	4g	-17	-47	-17	-53	
			4H	40	0	38	0	4h	0	-30	0	-36	
			-	-	-	-	-	5g4g	-17	-55	-17	-53	
			5G	-	-	-	-	5g6g	-17	-55	-17	-73	
			5H	-	-	-	-	5h4h	0	-38	0	-36	
			-	-	-	-	-	5h6h	0	-38	0	-56	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-17	-65	-17	-73	
			6H	-	-	-	-	6h	0	-48	0	-56	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
0,99	1,4	0,25	8G	-	-	ISO/FDIS 965-3	8g	-	-	-	-	-	
			-	-	-	9e8e	48e0-4d64-a70d-	-	-	-	-	-	
			8H	-	-	d06b228f6494/iso-fdis-965-3	9g8g	-	-	-	-	-	
			-	-	-	-	-	3h4h	0	-26	0	-42	
			-	-	-	-	-	4g	-18	-52	-18	-60	
			4H	45	0	45	0	4h	0	-34	0	-42	
			-	-	-	-	-	5g4g	-18	-60	-18	-60	
			5G	74	18	74	18	5g6g	-18	-60	-18	-85	
			5H	56	0	56	0	5h4h	0	-42	0	-42	
			-	-	-	-	-	5h6h	0	-42	0	-67	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-18	-71	-18	-85	
			6H	-	-	-	-	6h	0	-53	0	-67	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread					External thread					
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm	μm	μm	μm	μm	μm	μm	μm	μm	μm	μm	
0,99	1,4	0,3	-	-	-	-	-	3h4h	0	-28	0	-48	
			-	-	-	-	-	4g	-18	-54	-18	-66	
			4H	48	0	53	0	4h	0	-36	0	-48	
			-	-	-	-	-	5g4g	-18	-63	-18	-66	
			5G	78	18	85	18	5g6g	-18	-63	-18	-93	
			5H	60	0	67	0	5h4h	0	-45	0	-48	
			-	-	-	-	-	5h6h	0	-45	0	-75	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	93	18	103	18	6g	-18	-74	-18	-93	
			6H	75	0	85	0	6h	0	-56	0	-75	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
1,4	2,8	0,2	iTeh STANDARD PREVIEW (standards.itech.ai) https://standards.itech.ai/catalog/standards/sist/ceff68b8-48ec-9a64-a70d-06b228f6494/iso-fdis-965-3					ISO/FDIS 965-3 https://standards.itech.ai/catalog/standards/sist/ceff68b8-48ec-9a64-a70d-06b228f6494/iso-fdis-965-3					
			-	-	-	-	-	3h4h	0	-25	0	-36	
			-	-	-	-	-	4g	-17	-49	-17	-53	
			4H	42	0	38	0	4h	0	-32	0	-36	
			-	-	-	-	-	5g4g	-17	-57	-17	-53	
			5G	-	-	-	-	5g6g	-17	-57	-17	-73	
			5H	-	-	-	-	5h4h	0	-40	0	-36	
			-	-	-	-	-	5h6h	0	-40	0	-56	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-17	-67	-17	-73	
			6H	-	-	-	-	6h	0	-50	0	-56	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm	μm	μm	μm	μm	μm	μm	μm	μm	μm		
1,4	2,8	0,25	-	-	-	-	-	3h4h	0	-28	0	-42	
			-	-	-	-	-	4g	-18	-54	-18	-60	
			4H	48	0	45	0	4h	0	-36	0	-42	
			-	-	-	-	-	5g4g	-18	-63	-18	-60	
			5G	78	18	74	18	5g6g	-18	-63	-18	-85	
			5H	60	0	56	0	5h4h	0	-45	0	-42	
			-	-	-	-	-	5h6h	0	-45	0	-67	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-18	-74	-18	-85	
			6H	-	-	-	-	6h	0	-56	0	-67	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	iTeh STANDARD PREVIEW (standards.itech.ai)				7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			ISO/FDIS 965-3 https://standards.itech.ai/catalog/standards/sist/cefris/965-48e0-4d64-a70d				9e8e	-	-	-	-		
			8H	-	-	-	-	9g8g	-	-	-	-	
1,4	2,8	0,35	-	-	-	-	-	3h4h	0	-32	0	-53	
			-	-	-	-	-	4g	-19	-59	-19	-72	
			4H	53	0	63	0	4h	0	-40	0	-53	
			-	-	-	-	-	5g4g	-19	-69	-19	-72	
			5G	86	19	99	19	5g6g	-19	-69	-19	-104	
			5H	67	0	80	0	5h4h	0	-50	0	-53	
			-	-	-	-	-	5h6h	0	-50	0	-85	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-34	-97	-34	-119	
			6G	104	19	119	19	6g	-19	-82	-19	-104	
			6H	85	0	100	0	6h	0	-63	0	-85	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-19	-99	-19	-104	
			7H	-	-	-	-	7h6h	0	-80	0	-85	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread					External thread					
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm	μm	μm	μm	μm	μm	μm	μm	μm	μm	μm	
1,4	2,8	0,4	-	-	-	-	-	3h4h	0	-34	0	-60	
			-	-	-	-	-	4g	-19	-61	-19	-79	
			4H	56	0	71	0	4h	0	-42	0	-60	
			-	-	-	-	-	5g4g	-19	-72	-19	-79	
			5G	90	19	109	19	5g6g	-19	-72	-19	-114	
			5H	71	0	90	0	5h4h	0	-53	0	-60	
			-	-	-	-	-	5h6h	0	-53	0	-95	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-34	-101	-34	-129	
			6G	109	19	131	19	6g	-19	-86	-19	-114	
			6H	90	0	112	0	6h	0	-67	0	-95	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-19	-104	-19	-114	
			7H	-	-	-	-	7h6h	0	-85	0	-95	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	ISO/FDIS 965-3	-	8g	-	-	-	-	
1,4	2,8	0,45	https://standards.iteh.ai/catalog/standards/sist/ceff68b8-48ec-9a64-a70d-06b228f6494/iso-fdis-965-3					9e8e	-	-	-	-	
			-	-	-	-	-	3h4h	0	-36	0	-63	
			-	-	-	-	-	4g	-20	-65	-20	-83	
			4H	60	0	80	0	4h	0	-45	0	-63	
			-	-	-	-	-	5g4g	-20	-76	-20	-83	
			5G	95	20	120	20	5g6g	-20	-76	-20	-120	
			5H	75	0	100	0	5h4h	0	-56	0	-63	
			-	-	-	-	-	5h6h	0	-56	0	-100	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-35	-106	-35	-135	
			6G	115	20	145	20	6g	-20	-91	-20	-120	
			6H	95	0	125	0	6h	0	-71	0	-100	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-20	-110	-20	-120	
			7H	-	-	-	-	7h6h	0	-90	0	-100	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm	μm	μm	μm	μm	μm	μm	μm	μm	μm		
2,8	5,6	0,35	-	-	-	-	-	3h4h	0	-34	0	-53	
			-	-	-	-	-	4g	-19	-61	-19	-72	
			4H	56	0	63	0	4h	0	-42	0	-53	
			-	-	-	-	-	5g4g	-19	-72	-19	-72	
			5G	90	19	99	19	5g6g	-19	-72	-19	-104	
			5H	71	0	80	0	5h4h	0	-53	0	-53	
			-	-	-	-	-	5h6h	0	-53	0	-85	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-34	-101	-34	-119	
			6G	109	19	119	19	6g	-19	-86	-19	-104	
			6H	90	0	100	0	6h	0	-67	0	-85	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	iTeh STANDARD PREVIEW (standards.itech.ai)				7g6g	-19	-104	-19	-104	
			7H	-	-	-	-	7h6h	0	-85	0	-85	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			ISO/FDIS 965-3 https://standards.itech.ai/catalog/standards/sist/cefris/965-48e0-4d64-a70d				9e8e	-	-	-	-		
			8H	-	-	d06b228f6494/iso-fdis-969g8g	-	9g8g	-	-	-	-	
2,8	5,6	0,5	-	-	-	-	-	3h4h	0	-38	0	-67	
			-	-	-	-	-	4g	-20	-68	-20	-87	
			4H	63	0	90	0	4h	0	-48	0	-67	
			-	-	-	-	-	5g4g	-20	-80	-20	-87	
			5G	100	20	132	20	5g6g	-20	-80	-20	-126	
			5H	80	0	112	0	5h4h	0	-60	0	-67	
			-	-	-	-	-	5h6h	0	-60	0	-106	
			-	-	-	-	-	6e	-50	-125	-50	-156	
			-	-	-	-	-	6f	-36	-111	-36	-142	
			6G	120	20	160	20	6g	-20	-95	-20	-126	
			6H	100	0	140	0	6h	0	-75	0	-106	
			-	-	-	-	-	7e6e	-50	-145	-50	-156	
			7G	145	20	200	20	7g6g	-20	-115	-20	-126	
			7H	125	0	180	0	7h6h	0	-95	0	-106	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread					External thread					
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm	μm	μm	μm	μm	μm	μm	μm	μm	μm	μm	
2,8	5,6	0,6	-	-	-	-	-	3h4h	0	-42	0	-80	
			-	-	-	-	-	4g	-21	-74	-21	-101	
			4H	71	0	100	0	4h	0	-53	0	-80	
			-	-	-	-	-	5g4g	-21	-88	-21	-101	
			5G	111	21	146	21	5g6g	-21	-88	-21	-146	
			5H	90	0	125	0	5h4h	0	-67	0	-80	
			-	-	-	-	-	5h6h	0	-67	0	-125	
			-	-	-	-	-	6e	-53	-138	-53	-178	
			-	-	-	-	-	6f	-36	-121	-36	-161	
			6G	133	21	181	21	6g	-21	-106	-21	-146	
			6H	112	0	160	0	6h	0	-85	0	-125	
			-	-	-	-	-	7e6e	-53	-159	-53	-178	
			7G	161	21	221	21	7g6g	-21	-127	-21	-146	
			7H	140	0	200	0	7h6h	0	-106	0	-125	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	ISO/FDIS 965-3	-	8g	-	-	-	-	
			https://standards.iteh.ai/catalog/standards/sist/ceff68b8-48ec-9a64-a70d-06b228f6494/iso-fdis-965-3					9e8e	-	-	-	-	
			8H	-	d06b228f6494/iso-fdis-965-3	9g8g	-	-	-	-	-	-	
2,8	5,6	0,7	-	-	-	-	-	3h4h	0	-45	0	-90	
			-	-	-	-	-	4g	-22	-78	-22	-112	
			4H	75	0	112	0	4h	0	-56	0	-90	
			-	-	-	-	-	5g4g	-22	-93	-22	-112	
			5G	117	22	162	22	5g6g	-22	-93	-22	-162	
			5H	95	0	140	0	5h4h	0	-71	0	-90	
			-	-	-	-	-	5h6h	0	-71	0	-140	
			-	-	-	-	-	6e	-56	-146	-56	-196	
			-	-	-	-	-	6f	-38	-128	-38	-178	
			6G	140	22	202	22	6g	-22	-112	-22	-162	
			6H	118	0	180	0	6h	0	-90	0	-140	
			-	-	-	-	-	7e6e	-56	-168	-56	-196	
			7G	172	22	246	22	7g6g	-22	-134	-22	-162	
			7H	150	0	224	0	7h6h	0	-112	0	-140	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm	μm	μm	μm	μm	μm	μm	μm	μm	μm		
2,8	5,6	0,75	-	-	-	-	-	3h4h	0	-45	0	-90	
			-	-	-	-	-	4g	-22	-78	-22	-112	
			4H	75	0	118	0	4h	0	-56	0	-90	
			-	-	-	-	-	5g4g	-22	-93	-22	-112	
			5G	117	22	172	22	5g6g	-22	-93	-22	-162	
			5H	95	0	150	0	5h4h	0	-71	0	-90	
			-	-	-	-	-	5h6h	0	-71	0	-140	
			-	-	-	-	-	6e	-56	-146	-56	-196	
			-	-	-	-	-	6f	-38	-128	-38	-178	
			6G	140	22	212	22	6g	-22	-112	-22	-162	
			6H	118	0	190	0	6h	0	-90	0	-140	
			-	-	-	-	-	7e6e	-56	-168	-56	-196	
			7G	172	22	258	22	7g6g	-22	-134	-22	-162	
			7H	150	0	236	0	7h6h	0	-112	0	-140	
			-	-	-	-	-	8e	-	-	-	-	
2,8	5,6	0,8	8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	d06b228f6494/iso-fdis-969g8g	-	9g8g	-	-	-	-	
			-	-	-	-	-	3h4h	0	-48	0	-95	
			-	-	-	-	-	4g	-24	-84	-24	-119	
			4H	80	0	125	0	4h	0	-60	0	-95	
			-	-	-	-	-	5g4g	-24	-99	-24	-119	
			5G	124	24	184	24	5g6g	-24	-99	-24	-174	
			5H	100	0	160	0	5h4h	0	-75	0	-95	
			-	-	-	-	-	5h6h	0	-75	0	-150	
			-	-	-	-	-	6e	-60	-155	-60	-210	
			-	-	-	-	-	6f	-38	-133	-38	-188	
			6G	149	24	224	24	6g	-24	-119	-24	-174	
			6H	125	0	200	0	6h	0	-95	0	-150	
			-	-	-	-	-	7e6e	-60	-178	-60	-210	
			7G	184	24	274	24	7g6g	-24	-142	-24	-174	
			7H	160	0	250	0	7h6h	0	-118	0	-150	
			-	-	-	-	-	8e	-60	-210	-60	-296	
			8G	224	24	339	24	8g	-24	-174	-24	-260	
			-	-	-	-	-	9e8e	-60	-250	-60	-296	
			8H	200	0	315	0	9g8g	-24	-214	-24	-260	

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