

INTERNATIONAL STANDARD

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**Connectors for electronic equipment –
Part 7: Detail specification for 8-way, unshielded, free and fixed connectors**

**Connecteurs pour équipements électroniques –
Partie 7: Spécification particulière pour les fiches et les embases non écrantées
à 8 voies**



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CONTENTS

FOREWORD	5
INTRODUCTION	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	10
4 Common features and typical connector pair	12
4.1 View showing typical fixed and free connectors (see Figure 2)	12
4.2 Mating information	13
4.2.1 General	13
4.2.2 Contacts – mating conditions	14
4.2.3 Fixed connector	16
4.2.4 Free connector	19
5 Cable terminations and internal connections – Fixed and free connectors	20
5.1 General	20
5.2 Termination types	21
5.2.1 Solder terminations	21
5.2.2 Solderless terminations	21
6 Gauges	21
6.1 Fixed connectors	21
6.2 Free connectors	24
7 Characteristics	27
7.1 General	27
7.2 Pin and pair grouping assignment	27
7.3 Classification into climatic category	27
7.4 Electrical characteristics	28
7.4.1 Creepage and clearance distances	28
7.4.2 Voltage proof	28
7.4.3 Current-temperature derating	28
7.4.4 Interface contact resistance – initial only	29
7.4.5 Input to output DC resistance	29
7.4.6 Input-to-output DC resistance unbalance	29
7.4.7 Initial insulation resistance	30
7.4.8 Transfer impedance	30
7.5 Transmission characteristics	30
7.6 Mechanical characteristics	30
7.6.1 Mechanical operation	30
7.6.2 Effectiveness of connector coupling devices	30
7.6.3 Insertion and withdrawal forces	30
8 Tests and test schedule	30
8.1 General	30
8.2 Arrangement for interface contact resistance test	31
8.3 Arrangement for vibration test (test phase CP1)	32
8.4 Test procedures and measuring methods	32
8.5 Preconditioning	33
8.6 Wiring and mounting of specimens	33

- 8.6.1 Wiring 33
- 8.6.2 Mounting 33
- 8.7 Test schedules..... 33
 - 8.7.1 General 33
 - 8.7.2 Basic (minimum) test schedule 33
 - 8.7.3 Full test schedule 33
- Annex A (normative) Gauging continuity procedure..... 40
 - A.1 Object..... 40
 - A.2 Preparation of the specimens..... 40
 - A.3 Test method..... 40
 - A.4 Final measurements..... 40
 - A.5 Description of the continuity gauge 40
- Annex B (normative) Locking device mechanical operation 43
 - B.1 Object..... 43
 - B.2 Preparation of the specimens..... 43
 - B.3 Test method..... 43
 - B.4 Final measurements..... 43
- Annex C (normative) Gauge requirements 44
 - C.1 Fixed connectors 44
 - C.2 Free connectors 44
- Annex D (normative) Keystone connector information 45
 - D.1 Fixed connector, female contacts Keystone type – Type A, variant 03 in the previous edition of this standard 45
 - D.2 Mounting dimensions for type A, Keystone type variant 03..... 46
- Annex E (normative) Levels of compatibility 47
 - E.1 General..... 47
 - E.2 Intermountability 48
 - E.3 Intermateability 49
 - E.4 Intermountability and intermateability 49
 - E.5 Interoperability 50
 - E.6 Interchangeability 50
 - E.7 Backward compatibility 50
- Bibliography..... 52

- Figure 1 – IEC 60603-7 family document diagram 7
- Figure 2 – View showing typical fixed and free connectors..... 12
- Figure 3 – Contact interface dimensions with terminated free connector 14
- Figure 4 – Fixed connector details 17
- Figure 5 – Free connector view..... 19
- Figure 6 – Fixed connector "Go" gauge..... 22
- Figure 7 – Fixed connector "No-go" gauges 23
- Figure 8 – Free connector "No-go" gauges..... 25
- Figure 9 – Free connector "Go" gauge 26
- Figure 10 – Fixed connector pin and pair grouping assignment (front view of connector) 27
- Figure 11 – Connector de-rating curve 29
- Figure 12 – Arrangement for interface contact resistance test..... 31

Figure 13 – Arrangement for vibration test	32
Figure A.1 – Continuity gauge	42
Figure A.2 – Continuity gauge insertion	42
Figure D.1 – Keystone connector	45
Figure D.2 – Panel drawing	46
Table 1 – Dimensions for Figure 3	15
Table 2 – Dimensions for Figure 4	18
Table 3 – Dimensions for Figure 5	20
Table 4 – Dimensions for Figure 6 and Figure 7	24
Table 5 – Dimensions for Figure 8	25
Table 6 – Dimensions for Figure 9	26
Table 7 – Climatic categories – selected values	27
Table 8 – Creepage and clearance distances	28
Table 9 – Test group P	34
Table 10 – Test group AP	34
Table 11 – Test group BP	36
Table 12 – Test group CP	37
Table 13 – Test group DP	38
Table 14 – Test group EP	39
Table 15 – Test group FP	39
Table A.1 – Dimensions for Figure A.1	41
Table D.1 – Dimensions for Figure D.1	45
Table D.2 – Dimensions for Figure D.2	46
Table E.1 – Levels of compatibility and required parameters	48

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CONNECTORS FOR ELECTRONIC EQUIPMENT –**Part 7: Detail specification for 8-way, unshielded,
free and fixed connectors**

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International Standard IEC 60603-7 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

This fourth edition cancels and replaces the third edition, published in 2008, its Amendment 1:2011 and its Amendment 2:2019. It constitutes a technical revision.

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

- Revised the definitions for intermateability and interoperability; added new definitions.
- Corrected dimension line for dimension AZ2 in Figure 5.
- Corrected dimension line for dimension F1 in Figure A.1.
- Revised the reference to ISO/IEC 11801 to ISO/IEC 11801-1.

- Added lower limiting temperature and upper limiting temperature definitions.
- Revised Table 1 to Table 8 so the column order is Minimum-Nominal-Maximum dimensions (ascending order).
- Corrected Table 7: Climatic category and Upper temperature values to 90 °C (to be consistent with the graph in Figure 10 and Note 1 in Figure 10).
- Revised the wording in 8.2, contact resistance, for clarification.
- Revised Figure 11 and Figure 12 and the wording in the Key below for clarification.
- Removed the sentences under the figure in the Introduction.
- Added Annex E.

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

FDIS	Report on voting
48B/2832/FDIS	8B/2843/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 60603-7 series, under the general title *Connectors for electronic equipment*, can be found on the IEC website.

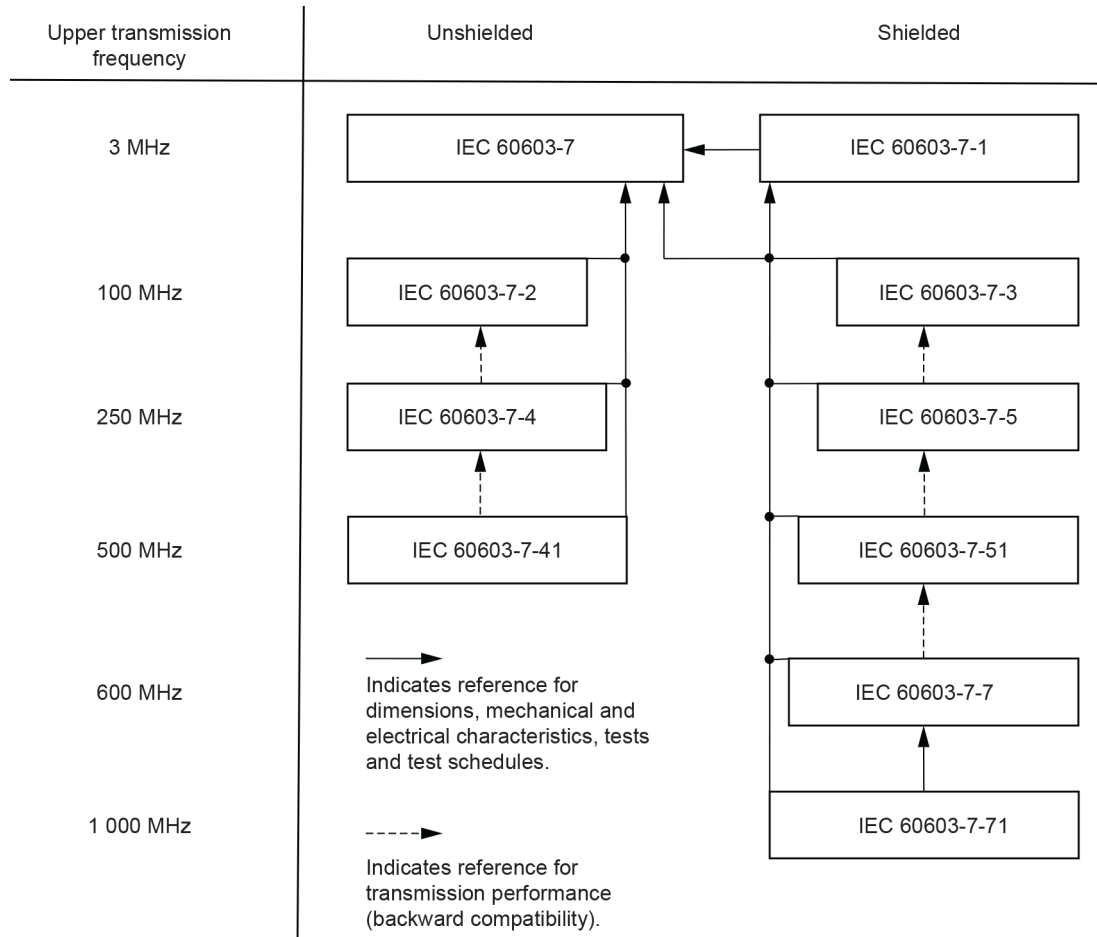
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INTRODUCTION

IEC 60603-7 is the base specification of the whole series. Subsequent specifications do not duplicate information given in the base document, but list only additional requirements. For complete specifications regarding a component of a higher numbered document, all lower numbered documents must be considered as well. Figure 1 shows the interrelation of the documents.



IEC

Figure 1 – IEC 60603-7 family document diagram

CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 7: Detail specification for 8-way, unshielded, free and fixed connectors

1 Scope

This part of IEC 60603-7 covers 8-way, unshielded, free and fixed connectors and is intended to specify the common dimensions (interface dimensions), mechanical, electrical and environmental characteristics and tests for the family of IEC 60603-7-x connectors.

These connectors are intermateable (according to IEC 61076-1 level 2) and interoperable with other IEC 60603-7 series connectors.

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.

IEC 60050-581:2008, *International Electrotechnical Vocabulary (IEV) – Part 581: Electromechanical components for electronic equipment*

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-38: *Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test*

IEC 60352-2, *Solderless connections – Part 2: Crimped connections – General requirements, test methods and practical guidance*

IEC 60352-3, *Solderless connections – Part 3: Accessible insulation displacement (ID) connections – General requirements, test methods and practical guidance*

IEC 60352-4, *Solderless connections – Part 4: Non-accessible insulation displacement (ID) connections – General requirements, test methods and practical guidance*

IEC 60352-5, *Solderless connections – Part 5: Press-in connections – General requirements, test methods and practical guidance*

IEC 60352-6, *Solderless connections – Part 6: Insulation piercing connections – General requirements, test methods and practical guidance*

IEC 60352-7, *Solderless connections – Part 7: Spring clamp connections – General requirements, test methods and practical guidance*

IEC 60512-1, *Connectors for electrical and electronic equipment – Tests and measurements – Part 1: Generic specification*

IEC 60512-1-1, *Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination*