

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Connectors for electronic equipment –

**Partie 7-4: Detail specification for 8-way, unshielded, free and fixed connectors,
for data transmission with frequencies up to 250 MHz**

Connecteurs pour équipements électroniques –

**Partie 7-4: Spécification particulière pour les fiches et les embases non blindées
à 8 voies pour la transmission de données à des fréquences jusqu'à 250 MHz**



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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

N

ICS 31.220.10

ISBN 978-2-88910-231-0

CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 General	7
1.1 Scope.....	7
1.2 Normative references	7
2 Terms and definitions	8
3 Common features and isometric view	8
4 Cable terminations and internal connections – Fixed and free connectors	8
5 Gauges	8
6 Characteristics	8
6.1 General.....	8
6.2 Pin and pair grouping assignment.	8
6.3 Classification into climatic category.....	8
6.4 Electrical characteristics.....	8
6.4.1 Creepage and clearance distances	8
6.4.2 Voltage proof.....	8
6.4.3 Current-temperature derating	9
6.4.4 Initial contact resistance – Interface only (separable fixed and free contact)	9
6.4.5 Input to output d.c. resistance	9
6.4.6 Input to output d.c. resistance unbalance.....	9
6.4.7 Initial insulation resistance	9
6.4.8 Transfer Impedance.....	9
6.4.9 Coupling attenuation.....	9
6.5 Transmission characteristics	9
6.5.1 General	9
6.5.2 Insertion loss.....	9
6.5.3 Return loss.....	10
6.5.4 Propagation delay	10
6.5.5 Delay skew.....	10
6.5.6 NEXT	10
6.5.7 Power sum NEXT (for information only)	10
6.5.8 FEXT.....	10
6.5.9 Power sum FEXT (for information only)	11
6.5.10 Transverse conversion loss	11
6.5.11 Transverse conversion transfer loss	11
6.6 Mechanical.....	11
7 Tests and test schedule.....	11
7.1 General.....	11
7.2 Arrangement for contact resistance test:	11
7.3 Arrangement for vibration test	11
7.4 Test procedures and measuring methods	11
7.5 Preconditioning	12
7.6 Wiring and mounting of specimens	12
7.6.1 Wiring.....	12
7.6.2 Mounting	12

7.7 Test schedules	12
7.7.1 Basic (minimum) test schedule	12
7.7.2 Full test schedule	12
Bibliography.....	14
Table 1 – Test Group EP	13

INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT –

Partie 7-4: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmission with frequencies up to 250 MHz

FOREWORD

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International Standard IEC 60603-7-4 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This second edition of IEC 60603-7-4 cancels and replaces the first edition issued in 2005, and constitutes a technical revision.

The main technical changes with regard to the previous edition are as follows:

- Removal of test methods that are now referenced to IEC 60512-26-100.
- Addition of TCL and TCTL requirements.
- Removal of the electrical, mechanical, dimensional, environmental conditioning tests by reference to IEC 60603-7.

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

FDIS	Report on voting
48B/2137/FDIS	48B/2178/RVD

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

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

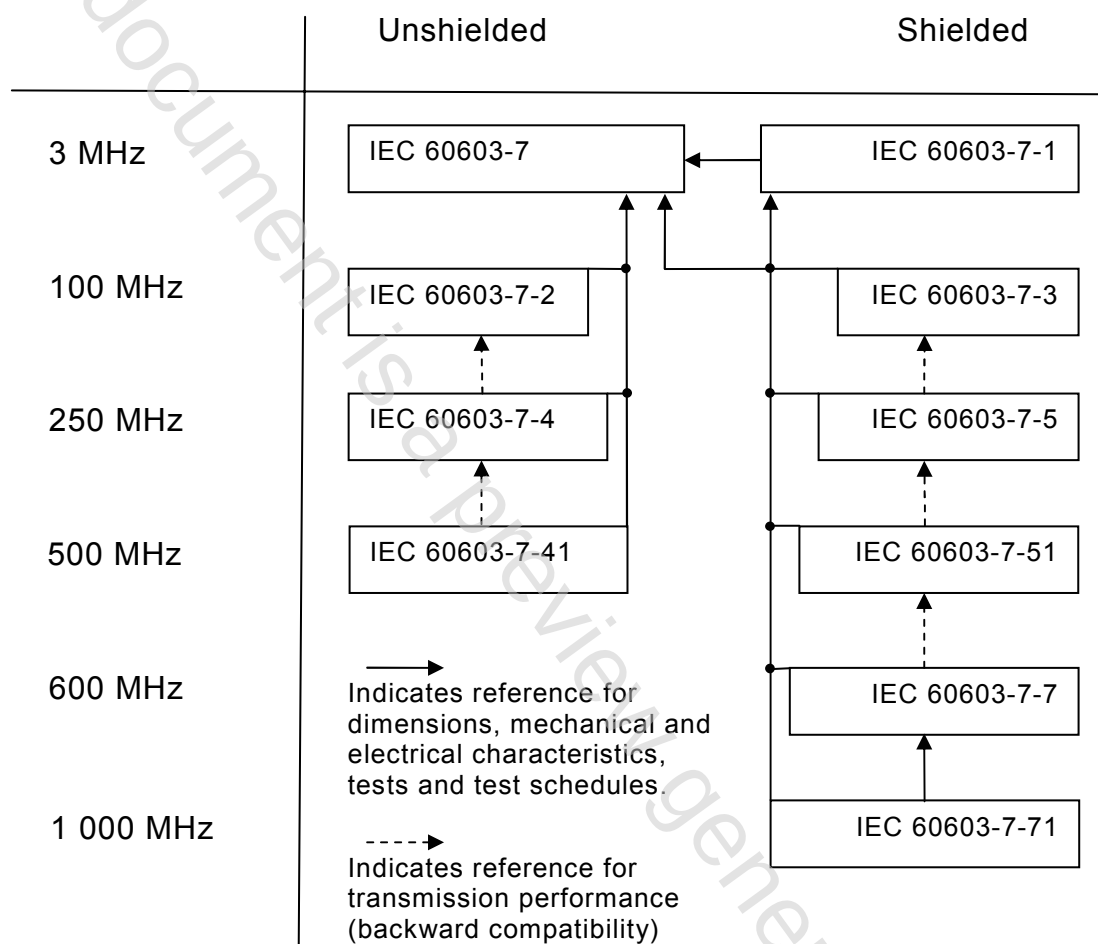
A list of all parts of IEC 60603 series, under the general title *Connectors for electronic equipment*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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 specification regarding a component of a higher number document all lower numbered documents shall be considered as well. The following diagram shows the interrelation of the documents:



CONNECTORS FOR ELECTRONIC EQUIPMENT –

Partie 7-4: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmission with frequencies up to 250 MHz

1 General

1.1 Scope

This part of IEC 60603 covers 8-way, unshielded, free and fixed connectors, references dimensional, mechanical, electrical and environmental characteristics and tests in IEC 60603-7, and specifies electrical transmission requirements for frequencies up to 250 MHz. These connectors are typically used as category 6 connectors in class E cabling systems specified in ISO/IEC 11801.

These connectors are intermateable and interoperable with other IEC 60603-7 series connectors as defined in Clause 2 of IEC 60603-7.

These connectors are backward compatible with other IEC 60603-7 series connectors.

NOTE Transmission performance categories: in this IEC standard, the term “category”, when used in reference to transmission performance, refers to those categories defined by ISO/IEC 11801.

1.2 Normative references

The following referenced documents are indispensable for the application 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 60512-1-100, *Connectors for electronic equipment – Part 1-100: General – Applicable publications*

IEC 60512-2-1, *Connectors for electronic equipment – Tests and measurements – Part 2-1: Electrical continuity and contact resistance tests – Test 2a: Contact resistance – Millivolt level method*

IEC 60512-27-100, *Connectors for electronic equipment – Tests and measurements – Part 27-100: Signal integrity tests up to 500 MHz on IEC 60603-7 series connectors – Tests 27a to 27g¹*

IEC 60603-7:2008, *Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors*

IEC 61156 (all parts): *Multi-core and symmetrical pair/quad cables for digital communications*

IEC 62153-4-12:2009, *Metallic communication cable test methods – Part 4-12: Electromagnetic compatibility (EMC) – Coupling attenuation or screening attenuation of connecting hardware – Absorbing clamp method*

¹ To be published.