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Connectors for electronic equipment – Part 02: Detail specification for 8-way, unshielded, free and fixed high density connectors for data transmission with frequencies up to 250 MHz and with current carrying capacity up to 1 A

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Part 02: Detail specification for 8-way, unshielded, free and fixed high density connectors for data transmission with frequencies up to 250 MHz and with current carrying capacity up to 1 A

FOREWORD

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International Standard IEC 62946-02 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

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

FDIS	Report on voting
48B/2537/FDIS	48B/2546/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 in the IEC 62946 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 document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

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INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning connectors given in this specification.

The IEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he is willing to give free licences with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with the IEC.

Information may be obtained from:

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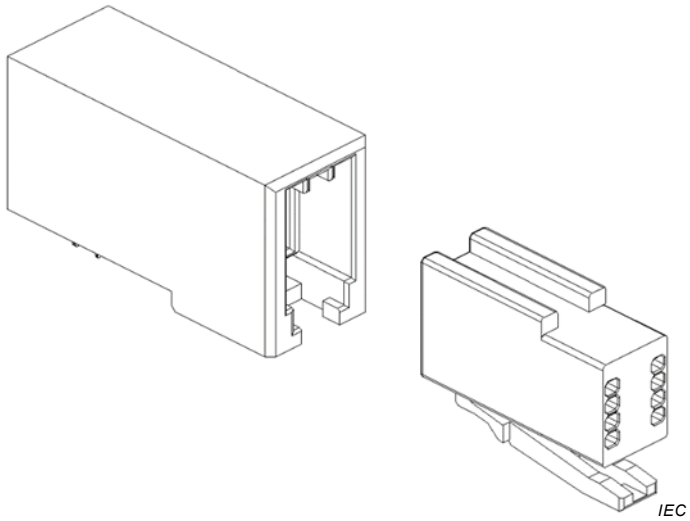
ISO (www.iso.org/patents) and IEC (http://patents.iec.ch) maintain on-line data bases of patents relevant to their standards. Users are encouraged to consult the data bases for the most up to date information concerning patents.

	IEC 62946-02, Ed. 1 (date of issue)
Subcommittee 48B: Electrical connectors	
 IEC	8-way, unshielded, free and fixed high density connectors for data transmission up to 250 MHz and with current carrying capacity up to 1 A.
	Fixed connectors are mounted on printed circuit board, the free connector is attached to wires.

CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –

Part 02: Detail specification for 8-way, unshielded, free and fixed high density connectors for data transmission with frequencies up to 250 MHz and with current carrying capacity up to 1 A

1 Scope

This part of IEC 62946 covers 8-way, unshielded free and fixed high density connectors for data transmission with frequencies up to 250 MHz and with extra low voltage current carrying capabilities up to 1 A, and is intended to specify the common dimensions, mechanical, electrical, signal integrity and environmental characteristics and tests for these 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, *International Electrotechnical Vocabulary (IEV) – Chapter 581: Electromechanical components for electronic equipment*

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

IEC 60512 (all parts), *Connectors for electronic equipment – Tests and measurements*

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

IEC 60512-1-100, *Connectors for electronic equipment – Tests and measurements – Part 1-100: General – Applicable publications*

IEC 60512-11-7, *Connectors for electronic equipment – Tests and measurements – Part 11-7: Climatic tests – Test 11g: Flowing mixed gas corrosion test*

IEC 60512-26-100, *Connectors for electronic equipment – Tests and measurements – Part 26-100: Measurement setup, test and reference arrangements and measurements for connectors according to IEC 60603-7 – Tests 26a to 26g*

IEC 61984, *Connectors – Safety requirements and tests*

ISO/IEC 11801, *Information technology – Generic cabling for customer premises*