

Edition 3.0 2017-05

INTERNATIONAL STANDARD



Connectors for electrical and electronic equipment. Product requirements – Part 3-104: Detail specification for 8-way, shielded free and fixed connectors for data transmissions with frequencies up to 2 000 MHz

IEC 61076-3-104:2017 https://standards.iteh.ai/catalog/standards/sist/a529eee2-90f1-4578-ab7e-968b2c4a44e7/iec-61076-3-104-2017





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 3-104: Detail specification for 8-way, shielded free and fixed connectors for data transmissions with frequencies up to 2 000 MHz

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International Standard IEC 61076-3-104 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

This third edition of IEC 61076-3-104 cancels and replaces the second edition, published in 2006, and constitutes a technical revision.

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

- a) the title has been changed to incorporate transmissions with frequencies up to 2 000 MHz;
- b) the drawings of some styles have been corrected for clarification;
- c) Figures 23 and 24 have been updated;

- d) Figure 3 has been updated to include reference dimensions and dimensional format changes;
- e) the dimensions of Figure 7 have been updated;
- f) the type designation and ordering information has been removed for consistency with the most updated sectional specification;
- g) the test schedule was updated to include appropriate IEC 60512 Test Nos;
- h) the electrical performance requirements have been revised for 2 GHz level;
- i) interchangeability information has been added for performance categories.

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

FDIS	Report on voting
48B/2560/FDIS	48B/2565/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 the IEC 61076 series, published under the general title *Connectors for electronic equipment – Product requirements*, 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

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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 4.2.2 and 4.2.4.

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CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 3-104: Detail specification for 8-way, shielded free and fixed connectors for data transmissions with frequencies up to 2 000 MHz

1 Scope

This part of IEC 61076 establishes uniform specifications, type testing requirements for 8-way, shielded free and fixed connectors for data transmissions with frequencies up to 2 000 MHz, and used as category 7_A connectors in class F_A cabling systems specified in ISO/IEC 11801-1. It contains all test methods and sequences, severity and preferred values for dimensions and characteristics.

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 the STANDARD PREVIEW

IEC 60050-581, International Electrotechnical Vocabulary – Part 581: Electromechanical components for electronic equipment

IEC 61076-3-104:2017

IEC 60068-1, Environmental testing ite Part Jan General and guidance 78-ab7e-

968b2c4a44e7/jec-61076-3-104-2017

IEC 60169-15, Radio-frequency connectors – Part 15: R.F. coaxial connectors with inner diameter of outer conductor 4.13 mm (0.163 in) with screw coupling – Characters impedance 50 ohms (Type SMA)

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

IEC 60352-3, Solderless connections – Part 3: Solderless accessible insulation displacement connections – General requirements, test methods and practical guidance

IEC 60352-4, Solderless connections – Part 4: Solderless non-accessible insulation displacement 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 60512-1-1, Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination

- IEC 60512-1-2, Connectors for electronic equipment Tests and measurements Part 1-2: General examination Test 1b: Examination of dimension and mass
- 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 60512-2-5, Connectors for electronic equipment Tests and measurements Part 2-5: Electrical continuity and contact resistance tests Test 2e: Contact disturbance
- IEC 60512-3-1, Connectors for electronic equipment Tests and measurements Part 3-1: Insulation tests Test 3a: Insulation resistance
- IEC 60512-4-1, Connectors for electronic equipment Tests and measurements Part 4-1: Voltage stress tests Test 4a: Voltage proof
- IEC 60512-6-4, Connectors for electronic equipment Tests and measurements Part 6-4: Dynamic stress tests Test 6d: Vibration (sinusoidal)
- IEC 60512-9-1, Connectors for electronic equipment Tests and measurements Part 9-1: Endurance tests Test 9a: Mechanical operation
- IEC 60512-9-2, Connectors for electronic equipment Tests and measurements Part 9-2: Endurance tests Test 9b: Electrical load and temperature EVIE
- IEC 60512-11-4, Connectors for electronic equipment—Tests and measurements Part 11-4: Climatic tests Test 11d: Rapid change of temperature

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- IEC 60512-11-7, Connectors for electronic equipment \$2\text{Tests} and measurements Part 11-7: Climatic tests Test 11g: Flowing mixed gas corrosion test 117
- IEC 60512-13-2, Connectors for electronic equipment Tests and measurements Part 13-2: Mechanical operation tests Test 13b: Insertion and withdrawal forces
- IEC 60512-15-6, Connectors for electronic equipment Tests and measurements Part 15-6: Connector tests (mechanical) Test 15f: Effectiveness of connector coupling devices
- 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 Test 26a to 26g
- IEC 60512-28-100, Connectors for electronic equipment Tests and measurements Part 28-100: Signal integrity tests up to 1 000 MHz on IEC 60603-7 and IEC 61076-3 series connectors Test 28a to 28g
- IEC 61076-1:2006, Connectors for electronic equipment Product requirements Part 1: Generic specification
- IEC 61076-3:2008, Connectors for electronic equipment Product requirements Part 3: Rectangular connectors Sectional specification
- IEC 61156 (all parts), Multicore and symmetrical pair/quad cables for digital communications
- IEC 61156-2, Multicore and symmetrical pair/quad cables for digital communications Part 2: Symmetrical pair/quad cables with transmission characteristics up to 100 MHz Horizontal floor wiring Sectional specification

IEC 61156-3, Multicore and symmetrical pair/quad cables for digital communications – Part 3: Work area cable – Sectional specification

IEC 61156-4, Multicore and symmetrical pair/quad cables for digital communications – Part 4: Riser cables – Sectional specification

IEC 61156-5, Multicore and symmetrical pair/quad cables for digital communications – Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Horizontal floor wiring - Sectional specification

IEC 61156-6, Multicore and symmetrical pair/quad cables for digital communications – Part 6: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Work area wiring - Sectional specification

IEC 61156-7, Multicore and symmetrical pair/quad cables for digital communications – Part 7: Symmetrical pair cables with transmission characteristics up to 1 200 MHz - Sectional specification for digital and analog communication cables

IEC 61156-9, Multicore and symmetrical pair/quad cables for digital communications – Part 9: Cables for channels with transmission characteristics up to 2 GHz – Sectional specification

IEC 61156-10, Multicore and symmetrical pair/quad cables for digital communications -Part 10: Cables for cords with transmission characteristics up to 2 GHz - Sectional specification iTeh STANDARD PREVIEW

IEC 62153-4-12, Metallic communication cable test methods - Part 4-12: Electromagnetic compatibility (EMC) - Coupling attenuation or screening attenuation of connecting hardware -Absorbing clamp method IEC 61076-3-104:2017

https://standards.iteh.ai/catalog/standards/sist/a529eee2-90f1-4578-ab7e-ISO/IEC 11801-1¹, Information technology Tie Generic cabling for customer premises — Part 1:

General requirements

ISO 1302, Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation

Recommendation ITU-T K.44:2012, Resistibility test for telecommunication equipment exposed to overvoltages and overcurrents – Basic recommendation

EN 50289-1-14, Communication cables - Specifications for test methods - Part 1-14: Electrical test methods - Coupling attenuation or screening attenuation of connecting hardware

3 Technical information

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61076-1, IEC 60512-1 and IEC 60050-581 and the following apply.

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

IEC Electropedia: available at http://www.electropedia.org/

¹ To be published.