

STN	Konektory pre elektrické a elektronické zariadenia Skúšky a merania Časť 27-200: Dodatočné špecifikácie pre skúšky integrity signálu do 2 000 MHz na konektoroch podľa súboru IEC 60603-7 Skúšky 27a až 27g	STN EN IEC 60512-27-200 35 4055
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Connectors for electrical and electronic equipment - Tests and measurements - Part 27-200: Additional specifications for signal integrity tests up to 2 000 MHz on IEC 60603-7 series connectors - Tests 27a to 27g

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/23

Obsahuje: EN IEC 60512-27-200:2022, IEC 60512-27-200:2022

136307

EUROPEAN STANDARD

EN IEC 60512-27-200

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2022

ICS 31.220.10

English Version

**Connectors for electrical and electronic equipment - Tests and measurements - Part 27-200: Additional specifications for signal integrity tests up to 2 000 MHz on IEC 60603-7 series connectors - Tests 27a to 27g
(IEC 60512-27-200:2022)**

Connecteurs pour équipements électriques et électroniques
- Essais et mesures - Partie 27-200: Spécifications
supplémentaires pour les essais d'intégrité des signaux
jusqu'à 2 000 MHz sur les connecteurs de la série IEC
60603-7 - Essais 27a à 27g
(IEC 60512-27-200:2022)

Steckverbinder für elektrische und elektronische
Einrichtungen - Mess- und Prüfverfahren - Teil 27-200:
Zusätzliche Festlegungen für Signalintegritätsprüfungen bis
2 000 MHz bei Steckverbindern der Reihe IEC 60603-7 -
Prüfungen 27a bis 27g
(IEC 60512-27-200:2022)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60512-27-200:2022 (E)**European foreword**

The text of document 48B/2976/FDIS, future edition 1 of IEC 60512-27-200, prepared by SC 48B "Electrical connectors" of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60512-27-200:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-07-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-10-20

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The text of the International Standard IEC 60512-27-200:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60603-7-7 NOTE Harmonized as EN 60603-7-7

IEC 60603-7-71 NOTE Harmonized as EN 60603-7-71

IEC 60603-7-82 NOTE Harmonized as EN 60603-7-82

IEC 61076-3-110 NOTE Harmonized as EN 61076-3-110

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-581	-	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60512-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification	EN IEC 60512-1	-
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	EN 60512-26-100	-
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 27g	EN 60512-27-100	-
IEC 60512-28-100	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2 000 MHz - Tests 28a to 28g	EN IEC 60512-28-100	-
IEC 60603-7	-	Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors	EN IEC 60603-7	-
IEC 60603-7-1	-	Connectors for electronic equipment - Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors	EN 60603-7-1	-
IEC 60603-7-2	-	Connectors for electronic equipment - Part 7-2: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 100 MHz	EN 60603-7-2	-

EN IEC 60512-27-200:2022 (E)

IEC 60603-7-3	-	Connectors for electronic equipment - Part EN 60603-7-3 7-3: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 100 MHz	-
IEC 60603-7-4	-	Connectors for electronic equipment - Part EN 60603-7-4 7-4: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz	-
IEC 60603-7-5	-	Connectors for electronic equipment - Part EN 60603-7-5 7-5: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz	-
IEC 60603-7-41	-	Connectors for electronic equipment - Part EN 60603-7-41 7-41: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz	-
IEC 60603-7-51	-	Connectors for electronic equipment - Part EN 60603-7-51 7-51: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz	-
IEC 60603-7-81	-	Connectors for electronic equipment - Part EN 60603-7-81 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 2 000 MHz	-
IEC 61156-1	-	Multicore and symmetrical pair/quad cables for digital communications - Part 1: Generic specification	-
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	-
IEC 61935-2	-	Specification for the testing of balanced and coaxial information technology cabling - Part 2: Cords as specified in ISO/IEC 11801-1 and related standards	EN 61935-2 -
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 60512-27-200

Edition 1.0 2022-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Connectors for electrical and electronic equipment – Tests and measurements –
Part 27-200: Additional specifications for signal integrity tests up to 2 000 MHz
on IEC 60603-7 series connectors – Tests 27a to 27g**

**Connecteurs pour équipements électriques et électroniques – Essais et
mesures –
Partie 27-200: Spécifications supplémentaires pour les essais d'intégrité des
signaux jusqu'à 2 000 MHz sur les connecteurs de la série IEC 60603-7 –
Essais 27a à 27g**

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IEC 60512-27-200

Edition 1.0 2022-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Connectors for electrical and electronic equipment – Tests and measurements –
Part 27-200: Additional specifications for signal integrity tests up to 2 000 MHz
on IEC 60603-7 series connectors – Tests 27a to 27g**

**Connecteurs pour équipements électriques et électroniques – Essais et
mesures –
Partie 27-200: Spécifications supplémentaires pour les essais d'intégrité des
signaux jusqu'à 2 000 MHz sur les connecteurs de la série IEC 60603-7 –
Essais 27a à 27g**

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ICS 31.220.10

ISBN 978-2-8322-5666-4

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –
TESTS AND MEASUREMENTS –****Part 27-200: Additional specifications for signal integrity tests
up to 2 000 MHz on IEC 60603-7 series connectors –
Tests 27a to 27g**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60512-27-200 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment. It is an International Standard.

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

Draft	Report on voting
48B/2976/FDIS	48B/2988/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts of IEC 60512 series, under the general title *Connectors for electrical and electronic equipment – Tests and measurements*, 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 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.

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INTRODUCTION

This document is primarily intended for use in signal integrity and transmission performance testing up to 2 000 MHz of IEC 60603-7 series 8-way connector type IEC 60603-7-81, according to connector test method IEC 60512-28-100.

This document covers test connectors and associated indirect-reference test fixtures used for connector signal integrity and transmission performance measurements of connector requirements specified in IEC 60603-7 series 8-way connector types defined in these published standards:

- IEC 60603-7-2
- IEC 60603-7-3
- IEC 60603-7-4
- IEC 60603-7-5
- IEC 60603-7-41
- IEC 60603-7-51
- IEC 60603-7-81.

This document provides supplementary information on test connectors and test fixtures used in connector performance measurements according to those connectors' respective test methods standards:

- IEC 60512-26-100
- IEC 60512-27-100
- IEC 60512-28-100.

The test fixtures and reference connectors, e.g., test plugs, specified in this document are referenced by test method IEC 60512-28-100.

The test fixtures and reference connectors, e.g., cord test heads, specified in this document are referenced by test method IEC 61935-2.

CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 27-200: Additional specifications for signal integrity tests up to 2 000 MHz on IEC 60603-7 series connectors – Tests 27a to 27g

1 Scope

This part of IEC 60512 covers additional, supplemental test method specifications to extend the upper frequency for the test connectors and associated indirect-reference test fixtures used in the signal integrity and transmission performance tests specified in IEC 60512-27-100. In support of de-embedded crosstalk and related transmission requirements specified in IEC 60603-7-81, for frequencies up to 2 000 MHz, these supplemental specifications extend the upper test frequency from IEC 60512-27-100 up to 500 MHz to the upper test frequency of IEC 60512-28-100 up to 2 000 MHz.

This document covers measurements of connector signal integrity and transmission performance of 8-way connector types defined in these published connector series standards:

IEC 60603-7-2
IEC 60603-7-3
IEC 60603-7-4
IEC 60603-7-5
IEC 60603-7-41
IEC 60603-7-51
IEC 60603-7-81.

This document covers respective performance test procedures of connector signal integrity and transmission performance defined in these published connector test method series standards:

IEC 60512-26-100
IEC 60512-27-100
IEC 60512-28-100.

These additional specifications are also suitable for testing the series related lower frequency backward compatible connectors. However, the actual measurement or test procedure specified in the detail specification for any particular connector remains the reference conformance test for that connector category; see Table 1.

The test procedures of IEC 60512-27-100 affected by these supplemental specifications are:

- insertion loss, test 27a;
- return loss, test 27b;
- near-end crosstalk (NEXT) test 27c;
- far-end crosstalk (FEXT), test 27d;
- transverse conversion loss (TCL), test 27f;
- transverse conversion transfer loss (TCTL), test 27g.
- transfer impedance (Z_T), see IEC 60512-26-100, test 26e.

- coupling attenuation (a_C), see IEC 62153-4-12.

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) – Part 581: Electromechanical components for electronic equipment*

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

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

IEC 60512-28-100, *Connectors for electronic equipment – Tests and measurements – Part 28-100: Signal integrity tests up to 200 MHz – Tests 28a to 28g*

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

IEC 60603-7-1, *Connectors for electronic equipment – Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors*

IEC 60603-7-2, *Connectors for electronic equipment – Part 7-2: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 100 MHz*

IEC 60603-7-3, *Connectors for electronic equipment – Part 7-3: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 100 MHz*

IEC 60603-7-4, *Connectors for electronic equipment – Part 7-4: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz*

IEC 60603-7-5, *Connectors for electronic equipment – Part 7-5: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz*

IEC 60603-7-41, *Connectors for electronic equipment – Part 7-41: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz*

IEC 60603-7-51, *Connectors for electronic equipment – Part 7-51: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz*

IEC 60603-7-81, *Connectors for electronic equipment – Part 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 2 000 MHz*

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IEC 61156-1, *Multicore and symmetrical pair/quad cables for digital communications – Part 1: Generic specification*

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*

IEC 61935-2, *Specification for the testing of balanced and coaxial information technology cabling – Part 2: Cords as specified in ISO/IEC 11801-1 and related standards*

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*

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