

SLOVENSKI STANDARD SIST EN IEC 61076-3-122:2021

01-september-2021

Nadomešča:

SIST EN 61076-3-122:2017

Konektorji za električno in elektronsko opremo - Zahteve za izdelek - 3-122. del: Podrobna specifikacija za 8-redne, zaslonjene, proste ali pritrjene konektorje za izvajanje vhodno/izhodnih funkcij (I/O) in prenosa podatkov s frekvencami do 500 MHz in trenutno zmogljivostjo v industrijskih okoljih (IEC 61076-3-122:2021)

Connectors for electrical and electronic equipment - Product requirements - Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and data transmission with frequencies up to 500 MHz and current-carrying capacity in industrial environments (IEC 61076-3-122:2021) (Standards.iteh.ai)

Steckverbinder für elektrische und elektronische Einrichtungen - Produktanforderungen - Teil 3-122: Bauartspezifikation für geschirmte freie und feste Steckverbinder, 8-polig, für I/O- und Datenübertragung und Strombelastbarkeit in industriellen Umgebungen (IEC 61076-3-122:2021)

Connecteurs pour équipements électriques et électroniques - Exigences de produit - Partie 3-122: Spécification particulière pour les fiches et les embases écrantées à 8 voies pour les entrées/sorties et la transmission des données à des fréquences jusqu'à 500 MHz avec courant limite admissible dans des environnements industriels (IEC 61076-3-122:2021)

Ta slovenski standard je istoveten z: EN IEC 61076-3-122:2021

<u>ICS:</u>

31.220.10 Vtiči in vtičnice, konektorji Plug-and-socket devices.

Connectors

SIST EN IEC 61076-3-122:2021 en

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN IEC 61076-3-122

June 2021

ICS 31.220.10

Supersedes EN 61076-3-122:2017 and all of its amendments and corrigenda (if any)

English Version

Connectors for electrical and electronic equipment - Product requirements - Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and data transmission with frequencies up to 500 MHz and current-carrying capacity in industrial environments

(IEC 61076-3-122:2021)

Connecteurs pour équipements électriques et électroniques

- Exigences de produit - Partie 3-122: Spécification
particulière pour les fiches et les embases écrantées à 8
voies pour les entrées/sorties et la transmission des
données à des fréquences jusqu'à 500 MHz avec courant
limite admissible dans des environnements industriels

(IEC 61076-3-122:2021)

Steckverbinder für elektrische und elektronische Einrichtungen - Produktanforderungen - Teil 3-122: Bauartspezifikation für geschirmte freie und feste Steckverbinder, 8-polig, für I/O- und Datenübertragung und Strombelastbarkeit in industriellen Umgebungen (IEC 61076-3-122:2021)

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Up-to-date lists and bibliographical references conferming such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 61076-3-122:2021 (E)

European foreword

The text of document 48B/2864/FDIS, future edition 2 of IEC 61076-3-122, 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 61076-3-122:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-02-26 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-05-26

This document supersedes EN 61076-3-122:2017 and all of its amendments and corrigenda (if any).

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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>	EN/HD	<u>Year</u>
IEC 60050-581	-	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	iT	Environmental testing Part 1: General and guidance	EN 60068-1	-
IEC 60068-2-38	-	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test 2021	EN IEC 60068-2-38	-
IEC 60512-1	https://sta	nConnector's பிற்ற/electrical sand belectronic 4 equipment 56 Tests and measurements - Part 1: Generic specification	b67EN9IEC 60512-1	-
IEC 60512-1-1	-	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination - Test 1a: Visual examination	EN 60512-1-1	-
IEC 60512-1-2	-	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass	EN 60512-1-2	-
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	EN 60512-2-1	-
IEC 60512-3-1	-	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance	EN 60512-3-1	-
IEC 60512-4-1	-	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	EN 60512-4-1	-

EN IEC 61076-3-122:2021 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60512-5-2	-	Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests - Test 5b: Current-temperature derating	EN 60512-5-2	-
IEC 60512-6-3	-	Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock	EN 60512-6-3	-
IEC 60512-6-4	-	Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal)	EN 60512-6-4	-
IEC 60512-9-1	-	Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation	EN 60512-9-1	-
IEC 60512-11-3	-	Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests - Test 11c: Damp heat, steady state	EN 60512-11-3	-
IEC 60512-11-4	iT	Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests - Test 11d: Rapid change of temperature NDARD PREVI	EN 60512-11-4	-
IEC 60512-11-7	-	Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test 61076-3-122:2021	EN 60512-11-7	-
IEC 60512-11-9	https://sta	Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat	^{4b67} -23 ⁹⁷ EN 60512-11-9	-
IEC 60512-11-10	-	Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold	EN 60512-11-10	-
IEC 60512-13-2	-	Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces	EN 60512-13-2	-
IEC 60512-15-6	-	Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices	EN 60512-15-6	-
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 60512-28-100	-	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	-

EN IEC 61076-3-122:2021 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60512-99-002	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 99-002: Endurance test schedules - Test 99b: Test schedule for unmating under electrical load	EN IEC 60512-99-002	-
IEC 60664-1	-	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	-
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
+ A1	2019		+ A1	2019
IEC 61076-3	-	Connectors for electronic equipment - Product requirements - Part 3: Rectangular connectors - Sectional specification	EN 61076-3	-
IEC/TR 63040	-	Guidance on clearances and creepage distances in particular for distances equal to or less than 2 mm - Test results of research on influencing parameters	-	-
ISO/IEC 11801-1	iT	Information technology - Generic cabling for customer premises - Part 1: General requirements	EW	-
		(standards.iteh.ai)		

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IEC 61076-3-122

Edition 2.0 2021-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Connectors for electrical and electronic equipment — Product requirements — Part 3-122: Detail specification for 8-way, shielded; free and fixed connectors for I/O and data transmission with frequencies up to 500 MHz and current-carrying capacity in industrial environments C 61076-3-122:2021

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Connecteurs pour équipements électriques et électroniques – Exigences de produit –

Partie 3-122: Spécification particulière pour les fiches et les embases écrantées à 8 voies pour les entrées/sorties et la transmission des données à des fréquences jusqu'à 500 MHz avec courant limite admissible dans des environnements industriels

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and data transmission with frequencies up to 500 MHz and current-carrying capacity in industrial environments

FOREWORD

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International Standard IEC 61076-3-122 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

This second edition cancels and replaces the first edition published in 2017. This edition constitutes a technical revision.

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

- a) Title modified.
- b) Introduction of two sets of requirements for connectors of "class A" and "class B" where class A matches the requirements defined in the previous edition.

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- c) Definition of new performance requirements for frequencies up to 500 MHz in addition to the performance requirements up to 100 MHz provided with the previous edition.
- d) Re-structuring to reflect the commonalities of and differences between connector Type I and Type II.
- e) Revision of drawings to clarify some dimensions.
- e) The derating diagram has been corrected to align it with the upper limiting temperature in the climatic category, with no reduction of performance for the target applications.

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

FDIS	Report on voting	
48B/2864/FDIS	48B/2877/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 61076 series, published under the general title Connectors for electrical and 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 (standards.iteh.ai)

reconfirmed,

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replaced by a revised edition, of ctacd05a56af/sist-en-iec-61076-3-122-2021

amended.

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