



# SLOVENSKI STANDARD

## SIST EN 61076-3-110:2012

01-september-2012

Nadomešča:

SIST EN 61076-3-110:2008

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**Konektorji za elektronsko opremo - Zahteve za izdelek - 3-110. del: Podrobna specifikacija za zaslonjene, proste in fiksne konektorje za prenos podatkov s frekvencami do 1000 MHz**

Connectors for electronic equipment - Product requirements - Part 3-110: Detail specification for shielded, free and fixed connectors for data transmission with frequencies up to 1000 mhz

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Steckverbinder für elektronische Einrichtungen - Produktanforderungen - Teil 3-110: Bauartspezifikation für geschirmte freie und feste Steckverbinder für Datenübertragungen bis 1 000 MHz

[SIST EN 61076-3-110:2012  
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Connecteurs pour équipements électroniques - Exigences de produit - Partie 3-110: Spécification particulière pour les fiches et les embases blindées pour la transmission de données à des fréquences jusqu'à 1000

**Ta slovenski standard je istoveten z: EN 61076-3-110:2012**

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**ICS:**

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61076-3-110**

July 2012

ICS 31.220.10

Supersedes EN 61076-3-110:2008

English version

**Connectors for electronic equipment -  
Product requirements -  
Part 3-110: Detail specification for shielded, free and fixed connectors for  
data transmission with frequencies up to 1 000 MHz  
(IEC 61076-3-110:2012)**

Connecteurs pour équipements  
électroniques -  
Exigences de produit -  
Partie 3-110: Spécification particulière  
pour les fiches et les embases blindées  
pour la transmission de données à des  
fréquences jusqu'à 1 000 MHz  
(CEI 61076-3-110:2012)

Steckverbinder für elektronische  
Einrichtungen -  
Produktanforderungen -  
Teil 3-110: Bauartspezifikation für  
geschirmte freie und feste Steckverbinder  
für Datenübertragungen bis 1 000 MHz  
(IEC 61076-3-110:2012)

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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 48B/2285/FDIS, future edition 2 of IEC 61076-3-110, prepared by SC 48B, "Connectors", of IEC TC 48, "Electromechanical components and mechanical structures for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61076-3-110:2012.

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) 2013-03-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-11

This document supersedes EN 61076-3-110:2008.

EN 61076-3-110:2012 includes the following significant technical changes with respect to EN 61076-3-110:2008:

- changes in 4.5 regarding electrical transmission performance i.e. return loss, among other specific changes, in compliance to the requirements of ISO/IEC 11801,
- updated text and format to be consistent with the referenced standards,
- removal of duplication of requirements in the EN 60603-7 series,
- introduction of transmission performance testing procedures as specified by EN 60512-28-100.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

## Endorsement notice

The text of the International Standard IEC 61076-3-110:2012 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 standards indicated:

- |                  |      |   |
|------------------|------|---|
| IEC 60068-2-38   | NOTE | Harmonized as EN 60068-2-38.                  |
| IEC 61076-3:2008 | NOTE | Harmonized as EN 61076-3:2008 (not modified). |

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
-	-	Communication cables - Specifications for test methods - Part 1-14: Electrical test methods - Coupling attenuation or screening attenuation of connecting hardware	EN 50289-1-14	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512-1	Series
IEC 60512-23-3 + corr. April	2000 2003	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 23-3: Test 23c: Shielding effectiveness of connectors and accessories	EN 60512-23-3	2001
IEC 60512-25-9	2008	Connectors for electronic equipment - Tests and measurements - Part 25-9: Signal integrity tests - Test 25i: Alien crosstalk	EN 60512-25-9	2008
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 - Tests 28a to 28g	EN 60512-28-100	-
IEC 60603-7	2008	Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors	EN 60603-7	2009
IEC 60603-7-1	2011	Connectors for electronic equipment - Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors	EN 60603-7-1	2011
IEC 60603-7-7	2010	Connectors for electronic equipment - Part 7-7: Detail specification for 8-way, shielded, free and fixed connectors for data transmission with frequencies up to 600 MHz	EN 60603-7-7	2010
IEC 60603-7-71	2010	Connectors for electronic equipment - Part 7-71: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 1000 MHz	EN 60603-7-71	2010
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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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IEC 61076-3-110

Edition 2.0 2012-05

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Connectors for electronic equipment – Product requirements –  
Part 3-110: Detail specification for shielded, free and fixed connectors for data  
transmission with frequencies up to 1 000 MHz**

**Connecteurs pour équipements électroniques – Exigences de produit –  
Partie 3-110: Spécification particulière pour les fiches et les embases blindées  
pour la transmission de données à des fréquences jusqu'à 1 000 MHz**

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ELECTROTECHNICAL  
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COMMISSION  
ELECTROTECHNIQUE  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**CONNECTORS FOR ELECTRONIC EQUIPMENT –  
PRODUCT REQUIREMENTS –**
**Part 3-110: Detail specification for shielded, free and fixed connectors  
for data transmission with frequencies up to 1 000 MHz**

## FOREWORD

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International Standard IEC 61076-3-110 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This second edition cancels and replaces the first edition, issued in 2007, and constitutes a technical revision.

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

- changes in 4.5 regarding electrical transmission performance i.e. return loss, among other specific changes, in compliance to the requirements of ISO/IEC 11801,
- updated text and format to be consistent with the referenced standards,
- removal of duplication of requirements in the IEC 60603-7 standard series,

- introduction of transmission performance testing procedures as specified by IEC 60512-28-100.

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

FDIS	Report on voting
48B/2285/FDIS	48B/2295/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.

A list of all parts of IEC 61076 series, under the general title *Connectors for electronic equipment – Product requirements*, can be found on the IEC website.

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

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.

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