

BS EN 61076-3-110:2012



BSI Standards Publication

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

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National foreword

This British Standard is the UK implementation of EN 61076-3-110:2012. It is identical to IEC 61076-3-110:2012. It supersedes BS EN 61076-3-110:2008, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/48, Electromechanical components and mechanical structures for electronic equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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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)

This European Standard was approved by CENELEC on 2012-06-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

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CENELEC

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

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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

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<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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