

# SLOVENSKI STANDARD

## SIST EN IEC 60512-11-1:2019

01-oktober-2019

Nadomešča:

SIST EN 60512-11-1:2002

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**Konektorji za električno in elektronsko opremo - Preskusi in meritve - 11-1. del:  
Klimatski preskusi - Preskus 11a - Klimatsko zaporedje (IEC 60512-11-1:2019)**

Connectors for electrical and electronic equipment - Tests and measurements - Part 11-1: Climatic tests - Test 11a - Climatic sequence (IEC 60512-11-1:2019)

Elektrisch-mechanische Bauelemente für elektronische Einrichtungen - Mess- und Prüfverfahren - Teil 11-1: Klimatische Prüfungen - Prüfung 11a: Klimafolge (IEC 60512-11-1:2019)

Connecteurs pour équipements électriques et électroniques - Essais et mesures - Partie 11-1: Essais climatiques - Essai 11a - Séquence climatique (IEC 60512-11-1:2019)

**Ta slovenski standard je istoveten z: EN IEC 60512-11-1:2019**

**ICS:**

31.220.01	Elektromehanske komponente (sestavni deli, gradniki) na splošno	Electromechanical components in general
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**SIST EN IEC 60512-11-1:2019** en

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EUROPEAN STANDARD

**EN IEC 60512-11-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2019

ICS 31.220.01

Supersedes EN 60512-11-1:1999

English Version

**Connectors for electrical and electronic equipment - Tests and measurements - Part 11-1: Climatic tests - Test 11a - Climatic sequence  
(IEC 60512-11-1:2019)**

Connecteurs pour équipements électriques et électroniques  
- Essais et mesures - Partie 11-1: Essais climatiques -  
Essai 11a - Séquence climatique  
(IEC 60512-11-1:2019)

Elektrisch-mechanische Bauelemente für elektronische  
Einrichtungen - Mess- und Prüfverfahren - Teil 11-1:  
Klimatische Prüfungen - Prüfung 11a: Klimafolge  
(IEC 60512-11-1:2019)

This European Standard was approved by CENELEC on 2019-06-20. 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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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 60512-11-1:2019 (E)****European foreword**

The text of document 48B/2688/CDV, future edition 2 of IEC 60512-11-1, 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 60512-11-1:2019.

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) 2020-03-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-06-20

This document supersedes EN 60512-11-1:1999.

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The text of the International Standard IEC 60512-11-1:2019 was approved by CENELEC as a European Standard without any modification.

## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
IEC 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-13	1983	Basic environmental testing procedures - Part 2-13: Tests - Test M: Low air pressure	EN 60068-2-13	1999
IEC 60068-2-30	-	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	-
IEC 60068-2-61	1991	Environmental testing - Part 2-61: Test methods - Test Z/ABDM: Climatic sequence	EN 60068-2-61	1993
IEC 60512-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification	EN IEC 60512-1	-
IEC 60512-1-101	-	Connectors for electronic equipment - Tests and measurements - Part 1-101: Blank detail specification	-	-
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 60512-2-1	-	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	-

## EN IEC 60512-11-1:2019 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60512-2-2	-	Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests - Test 2b: Contact resistance - Specified test current method	EN 60512-2-2	-
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	-
IEC 60512-11-9	-	Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat	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 60512-11-11	-	Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests - Test 11k: Low air pressure	EN 60512-11-11	-
IEC 60512-11-12	-	Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests - Test 11m: Damp heat, cyclic	EN 60512-11-12	-
IEC 60512-13-1	-	Connectors for electronic equipment - Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces	EN 60512-13-1	-
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 60512-17-1	-	Connectors for electronic equipment - Tests and measurements - Part 17-1: Cable clamping tests - Test 17a: Cable clamp robustness	EN 60512-17-1	-
IEC 60512-17-2	-	Connectors for electronic equipment - Tests and measurements - Part 17-2: Cable clamping tests - Test 17b: Cable clamp resistance to cable rotation	EN 60512-17-2	-
IEC 60512-17-3	-	Connectors for electronic equipment - Tests and measurements - Part 17-3: Cable clamping tests - Test 17c: Cable clamp resistance to cable pull (tensile)	EN 60512-17-3	-
IEC 60512-17-4	-	Connectors for electronic equipment - Tests and measurements - Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion	EN 60512-17-4	-



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Connectors for electrical and electronic equipment – Tests and measurements –  
Part 11-1: Climatic tests – Test 11a – Climatic sequence**

**Connecteurs pour équipements électriques et électroniques – Essais et mesures –  
Partie 11-1: Essais climatiques – Essai 11a – Séquence climatique**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 31.220.01

ISBN 978-2-8322-6814-8

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## CONTENTS

FOREWORD .....	3
INTRODUCTION .....	5
1 Scope .....	6
2 Normative references .....	6
3 Terms and definitions .....	8
4 Preparations .....	8
4.1 Test equipment .....	8
4.2 Preparation of the specimen .....	8
4.3 Mounting of specimen .....	8
5 Test method .....	8
5.1 Preconditioning .....	8
5.2 Initial measurements .....	9
5.3 Tests (conditioning) .....	9
5.3.1 General .....	9
5.3.2 Step 1: dry heat .....	9
5.3.3 Step 2: damp heat, cyclic (first cycle) .....	9
5.3.4 Step 3: cold .....	9
5.3.5 Step 4 (optional): low air pressure .....	9
5.3.6 Step 5: damp heat, cyclic, remaining cycle(s) .....	10
5.4 Recovery .....	10
5.5 Final measurements .....	10
6 Details to be specified .....	10

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –  
TESTS AND MEASUREMENTS –****Part 11-1: Climatic tests – Test 11a – Climatic sequence**

## FOREWORD

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International Standard IEC 60512-11-1 has been prepared by sub-committee 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 1995. This edition constitutes a technical revision.

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

- a) formatting and clause numbering according to the latest IEC template and the latest IEC 60512-1-101 blank detail (tests and measurements) specification;
- b) update and expansion of normative references;
- c) better specification of various details regarding tests.