

**SLOVENSKI STANDARD
SIST EN 60512-12-6:2002****01-september-2002**

Electromechanical components for electronic equipment - Basic testing procedure and measuring methods - Part 12: Soldering tests - Section 6: Test 12f: Sealing against flux and cleaning solvents in machine soldering (IEC 60512-12-6:1996)

Electromechanical components for electronic equipment - Basic testing procedures and measuring methods -- Part 12: Soldering tests -- Section 6: Test 12f: Sealing against flux and cleaning solvents in machine soldering

iTeh STANDARD PREVIEW

Elektrisch-mechanische Bauelemente für elektronische Einrichtungen - Meß- und Prüfverfahren -- Teil 12: Prüfungen der Lötbarkeit -- Hauptabschnitt 6: Prüfung 12f: Dichtheit gegen Fluß- und Reinigungsmittel bei maschinellem Löten

[SIST EN 60512-12-6:2002](https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-)

<https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b->

Composants électromécaniques pour équipements électroniques - Procédures d'essai de base et méthodes de mesure -- Partie 12: Essais de soudure -- Section 6: Essai 12f: Etanchéité aux flux et solvants de nettoyage dans une machine à souder

Ta slovenski standard je istoveten z: EN 60512-12-6:1996

ICS:

31.220.01	Elektromehanske komponente (sestavni deli, gradniki) na splošno	Electromechanical components in general
-----------	---	--

SIST EN 60512-12-6:2002**en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60512-12-6:2002](https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002)

<https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60512-12-6

March 1996

ICS 31.220.00

C/C/30183

Descriptors: Testing procedures, soldering tests, test 12f, sealing against flux

English version

Electromechanical components for electronic equipment
Basic testing procedures and measuring methods
Part 12: Soldering tests
Section 6: Test 12f: Sealing against flux and cleaning
solvents in machine soldering
(IEC 512-12-6:1996)

Composants électromécaniques pour
équipements électroniques - Procédures
d'essai de base et méthodes de mesure
Partie 12: Essais de soudure
Section 6: Essai 12f: Etanchéité aux
flux et solvants de nettoyage dans une
machine à souder
(CEI 512-12-6:1996)

Elektrisch-mechanische Bauelemente
für elektronische Einrichtungen
Meß- und Prüfverfahren
Teil 12: Prüfungen der Lötbarkeit
Hauptabschnitt 6: Prüfung 12f:
Dichtheit gegen Fluß- und
Reinigungsmittel bei maschinellem Löten
(IEC 512-12-6:1996)

This European Standard was approved by CENELEC on 1996-03-05. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 48B/420/FDIS, future edition 1 of IEC 512-12-6, 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 was approved by CENELEC as EN 60512-12-6 on 1996-03-05.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1996-12-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 512-12-6:1996 was approved by CENELEC as a European Standard without any modification.

[SIST EN 60512-12-6:2002](https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002)

<https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002>



Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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>
IEC 68-1	1988	Environmental testing Part 1: General and guidance	EN 60068-1 ¹⁾	1994
IEC 68-2-20	1979	Part 2: Tests - Test T: Soldering	HD 323.2.20 S3 ²⁾	1988

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 60512-12-6:2002](https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002)

<https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002>

1) EN 60068-1 includes the corrigendum October 1988 and A1:1992 to IEC 68-1.

2) HD 323.2.20 S3 includes A2:1987 to IEC 68-2-20.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60512-12-6:2002](#)

<https://standards.iteh.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002>

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC
512-12-6**

Première édition
First edition
1996-01

**Composants électromécaniques
pour équipements électroniques –
Procédures d'essai de base et méthodes
de mesure –**

Partie 12:

Essais de soudure –

Section 6: Essai 12f – Etanchéité aux flux et solvants
(de nettoyage dans une machine à souder)

[SIST EN 60512-12-6:2002](https://standards.iteh.org/catalogue/standards/sist/512-12-6/08464837-901-8b3404e92b16/sist-en-60512-12-6-2002)

<https://standards.iteh.org/catalogue/standards/sist/512-12-6/08464837-901-8b3404e92b16/sist-en-60512-12-6-2002>

**Electromechanical components for electronic
equipment – Basic testing procedures and
measuring methods –**

Part 12:

Soldering tests –

Section 6: Test 12f – Sealing against flux
and cleaning solvents in machine soldering

© CEI 1996 Droits de reproduction réservés — Copyright – all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembe Genève, Suisse



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

H

Pour prix, voir catalogue en vigueur
For price, see current catalogue

CONTENTS

	Page
FOREWORD.....	5
Clause	
1 Scope and object	7
2 Normative references	7
3 Preparation of the specimen.....	7
4 Test equipment	7
5 Test procedure.....	9
5.1 Immersion of the specimen.....	9
5.2 Soldering.....	9
5.3 Cleaning solvents.....	9
5.4 Printed board test specimen	13
6 Preparation for testing.....	13
7 Requirements.....	13
7.1 Initial measurements	13
7.2 Conditioning.....	13
7.3 Recovery.....	13
7.4 Final measurements	15
7.5 Visual examination	15
8 Details to be specified	15

iTech STANDARD PREVIEW

(standards.itech.ai)

SIST EN 60512-12-6:2002

[https://standards.itech.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-](https://standards.itech.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002)[8b3404e92b16/sist-en-60512-12-6-2002](https://standards.itech.ai/catalog/standards/sist/554a57d6-984f-4837-a90b-8b3404e92b16/sist-en-60512-12-6-2002)

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTROMECHANICAL COMPONENTS
 FOR ELECTRONIC EQUIPMENT –
 BASIC TESTING PROCEDURES AND MEASURING METHODS –**

**Part 12: Soldering tests –
 Section 6: Test 12f – Sealing against flux and cleaning solvents
 in machine soldering**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, express as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 512-12-6 has been prepared by sub-committee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

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

FDIS	Report on voting
48B/420/FDIS	48B/464/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.