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**Materiali za plošče tiskanih vezij in druge povezovalne strukture - 4-18. del: Nabor področnih specifikacij za predimpregnirane (prepreg) materiale, neprevlečene (za izdelavo večplastnih plošč) - Zelo zmogljive epoksidne predimpregnirane plošče iz E-steklene teksture z določeno vnetljivostjo (preskus z vertikalnim ognjem) za sestave brez svinca (IEC 61249-4-18:2013)**

Materials for printed boards and other interconnecting structures - Part 4-18: Sectional specification set for prepreg materials, unclad (for the manufacture of multilayer boards) - High performance epoxide woven E-glass prepreg of defined flammability (vertical burning test) for lead-free assembly

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Matériaux pour circuits imprimés et autres structures d'interconnexion - Partie 4-18: Série de spécifications intermédiaires pour matériaux préimprégnés, non plaqués (pour la fabrication des cartes multicouches) - Tissu de verre époxyde préimprégné de type E à haute performance, d'inflammabilité définie (essai de combustion verticale) pour les assemblages sans plomb

**Ta slovenski standard je istoveten z: EN 61249-4-18:2013**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 61249-4-18**

December 2013

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English version

**Materials for printed boards and other interconnecting structures -  
Part 4-18: Sectional specification set for prepreg materials, unclad (for the  
manufacture of multilayer boards) -  
High performance epoxide woven E-glass prepreg of defined flammability  
(vertical burning test) for lead-free assembly  
(IEC 61249-4-18:2013)**

Matériaux pour circuits imprimés et autres  
structures d'interconnexion -  
Partie 4-18: Série de spécifications  
intermédiaires pour matériaux  
préimprégnés, non plaqués (pour la  
fabrication des cartes multicouches) -  
Tissu de verre époxyde préimprégné de  
type E à haute performance,  
d'inflammabilité définie (essai de  
combustion verticale), pour les  
assemblages sans plomb  
(CEI 61249-4-18:2013)

Materialien für Leiterplatten und andere  
Verbindungsstrukturen -  
Teil 4-18: Rahmenspezifikation für  
unkaschierte Prepreg-Materialien (zur  
Herstellung von Mehrlagenleiterplatten) -  
Hochwertige mit E-Glasgewebe verstärkte  
Epoxidharz-Prepregs mit definierter  
Brennbarkeit (Brennprüfung mit vertikaler  
Prüflingslage) für bleifreie  
Bestückungstechnik  
(IEC 61249-4-18:2013)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

## Foreword

The text of document 91/1125/FDIS, future edition 1 of IEC 61249-4-18, prepared by IEC TC 91 "Electronics assembly technology" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61249-4-18:2013.

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) 2014-09-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-12-09

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The text of the International Standard IEC 61249-4-18:2013 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 60194:2006	NOTE	Harmonized as EN 60194:2006 (not modified).
IEC 62326-4	NOTE	Harmonized as EN 62326-4.

## 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>
IEC 61189-2	2006	Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 2: Test methods for materials for interconnection structures	EN 61189-2	2006
IEC 61249-2-39	2012	Materials for printed boards and other interconnecting structures - Part 2-39: Reinforced base materials clad and unclad - High performance epoxide and non-epoxide, woven E-glass laminated sheets of defined flammability (vertical burning test), copper clad for lead-free assembly	EN 61249-2-39	2013
IEC/PAS 61249-6-3	2011	Specification for finished fabric woven from "E" glass for printed boards	-	-
ISO 9000	2005	Quality management systems - Fundamentals and vocabulary	EN ISO 9000	2005
ISO 11014	2009	Safety data sheet for chemical products - Content and order of sections	-	-
ISO 14001	2004	Environmental management systems - Requirements with guidance for use	EN ISO 14001	2004

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IEC 61249-4-18

Edition 1.0 2013-11

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Materials for printed boards and other interconnecting structures –  
Part 4-18: Sectional specification set for prepreg materials, unclad (for the  
manufacture of multilayer boards) – High performance epoxide woven E-glass  
prepreg of defined flammability (vertical burning test) for lead-free assembly**

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**Matériaux pour circuits imprimés et autres structures d'interconnexion –  
Partie 4-18: Série de spécifications intermédiaires pour matériaux préimprégnés,  
non plaqués (pour la fabrication des cartes multicouches) – Tissu de verre  
époxyde préimprégné de type E à haute performance, d'inflammabilité définie  
(essai de combustion verticale), pour les assemblages sans plomb**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MATERIALS FOR PRINTED BOARDS  
AND OTHER INTERCONNECTING STRUCTURES –**

**Part 4-18: Sectional specification set for prepreg materials,  
unclad (for the manufacture of multilayer boards) –  
High performance epoxide woven E-glass prepreg of defined  
flammability (vertical burning test) for lead-free assembly**

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International Standard IEC 61249-4-18 has been prepared by IEC technical committee 91: Electronics assembly technology.

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

FDIS	Report on voting
91/1125/FDIS	91/1147/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.

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

A list of all parts of the IEC 61249 series, under the general title *Materials for printed boards and other interconnecting structures*, can be found on the IEC website.

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

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- withdrawn,
- replaced by a revised edition, or
- amended.

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