

Environmental testing —

Part 2: Tests —

Test U. Robustness of terminations and integral mounting devices

The European Standard EN 60068-2-21:1997 has the status of a
British Standard

ICS 19.040

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GEL/50, Environmental testing of electrotechnical products, upon which the following bodies were represented:

- Federation of the Electronics Industry
- GAMBICA (BEAMA Ltd.)
- Ministry of Defence
- Society of Motor Manufacturers and Traders Limited

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Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
Text of EN 60068-2-21	5
List of references	Inside back cover

National foreword

This Section of BS EN 60068 has been prepared by Technical Committee GEL/50, and is the English language version of EN 60068-2-21:1997 *Environmental testing — Part 2: Tests. Test U: Robustness of terminations and integral mounting devices* including Amendments A2:1997 and A3:1997, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 68-2-21:1983 including Amendments A1:1985, A2:1991 and A3:1992, published by the International Electrotechnical Commission. It supersedes BS 2011-2.1U:1984 which is withdrawn.

Cross-references

Publication referred to	Corresponding British Standard
EN 60068-1 1994 (IEC 68-1:1988)	BS EN 60068 <i>Environmental testing</i> Part 1:1995 <i>General and guidance</i>
IEC 68-2-20:1979	BS 2011 <i>Environmental testing</i> Part 2.1T:1981: <i>Test T. Soldering</i>
EN 60068-2-61:1993 (IEC 68-2-61:1991)	BS EN 60068 <i>Environmental testing</i> Part 2.61:1994 <i>Test Z/ABDM. Climatic sequence</i>
EN 60249-2-4:1994 (IEC 249-2-4:1987)	BS EN 60249 <i>Base materials for printed circuits</i> Part 2 <i>Specifications</i> Section 2.4:1994 <i>Specification for epoxide woven glass fabric copper-clad laminated sheet, general purpose grade</i>
ISO 31-3:1992	BS 5775 <i>Specification for quantities, units and symbols</i> Part 3:1993 <i>Mechanics</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 20, an inside back cover and a back cover.

This document has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Descriptors: Electricity, components, mechanical test, robustness of terminations, tensile, thrust, bending, torsion, torque, procedures, components specifications writing

English version

Environmental testing Part 2: Tests Test U: Robustness of terminations and integral mounting devices

(including amendments A2:1997 and A3:1997)
(IEC 68-2-21:1983 + A1:1985 + A2:1991 + A3:1992)

Essais d'environnement

Partie 2: Essais

Essai U: Robustesse des sorties et des
dispositifs de fixation (inclut les amendments
A2:1997 et A3:1997)

(CEI 68-2-21:1983 + corrigendum 1991 +
A1:1985 + A2:1991 + A3:1992)

Umweltprüfverfahren

Teil 2: Prüfungen

Prüfgruppe U: Mechanische
Widerstandsfähigkeit der Anschlüsse
(enthält Änderungen A2:1997 und A3:1997)

(IEC 68-2-21:1983 + A1:1985 + A2:1991 +
A3: 1992)

This European Standard was approved by CENELEC on 1996-12-09; amendments A2 and A3 were approved by CENELEC on 1996-12-09. 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

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Foreword

The text of the International Standard IEC 68-2-21:1983 and its amendment 1:1985, prepared by TC 50, Environmental testing, was approved by CENELEC as HD 323.2.21 S3 on 1987-12-02.

This Harmonization Document was submitted to the formal vote for conversion into a European Standard and was approved by CENELEC as EN 60068-2-21 on 1996-12-09.

The following date was 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) 1997-12-01

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.

Foreword to amendment A2

The text of amendment 2:1991 to the International Standard IEC 68-2-21:1983, prepared by TC 50, Environmental testing, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A2 to EN 60068-2-21:1997 on 1996-12-09 without any modification.

NOTE EN 60068-2-21:1997 includes amendment 1:1985 to IEC 68-2-21:1983.

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) 1997-12-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1997-12-01

Foreword to amendment A3

The text of amendment 3:1992 to the International Standard IEC 68-2-21:1983, prepared by TC 50, Environmental testing, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A3 to EN 60068-2-21:1997 on 1996-12-09 without any modification.

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) 1997-12-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1997-12-01

Contents

		Page
1	Scope	5
2	Test Ua ₁ : Tensile	5
2.1	Object	5
2.2	General description of Test Ua ₁	5
2.3	Pre-conditioning	5
2.4	Initial measurements	5
2.5	Test method	5
2.6	Final measurements	5
2.7	Information to be given in the relevant specification	6
3	Test Ua ₂ : Thrust	6
3.1	Object	6
3.2	General description of Test Ua ₂	6
3.3	Pre-conditioning	6
3.4	Initial measurements	6
3.5	Test method	6
3.6	Final measurements	7
3.7	Information to be given in the relevant specification	7
4	Test Ub: Bending	7
4.1	Object	7
4.2	General description of Test Ub	7
4.3	Pre-conditioning	7
4.4	Initial measurements	7
4.5	Test method	7
4.6	Final measurements	9
4.7	Information to be given in the relevant specification	9
5	Test Uc: Torsion	9
5.1	Object	9
5.2	General description of Test Uc	9
5.3	Pre-conditioning	9
5.4	Initial measurements	9
5.5	Test method	9
5.6	Final measurements	10
5.7	Information to be given in the relevant specification	10
6	Test Ud: Torque	10
6.1	Object	10
6.2	General description of Test Ud	10
6.3	Pre-conditioning	10
6.4	Initial measurements	10
6.5	Test method	10
6.6	Final measurements	11
6.7	Information to be given in the relevant specification	11
7	Test Ue: Surface mounting devices (SMD) in the mounted state	11
7.1	Object	11
7.2	General description	11
7.3	Mounting	11
7.4	Test methods	12
7.5	Evaluation of test results	12
7.6	Information to be given in the relevant specification	13
6	Annex ZA (normative) Normative references to international publications with their corresponding European publications	19
6	Figure 1 — Sketches showing direction of application of forces by arrow heads. Test Ua ₁ : Tensile, and Test Ua ₂ : Thrust	14
6	Figure 2 — Sketches showing test procedure for test Ub: Bending (see Sub-clause 4.5.2.1 and 4.5.2.3)	15
7	Figure 3 — Sketches showing test procedure for Test Uc: Torsion test for wire terminations	16
7	Figure 4 — Suitable substrate for mechanical and electrical tests	17
7	Figure 5 — Suitable substrate for mechanical and electrical tests	17
7	Figure 6 — Bending jig	18
9	Table I	5
9	Table II	6
9	Table III	8
9	Table IV	10

