

Loddefri forbindelser – Del 2: Krimpede forbindelser – Generelle krav, prøvningsmetoder og praktisk vejledning

Solderless connections – Part 2: Crimped connections – General requirements, test methods and practical guidance

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Første del af denne publikations betegnelse er:

DS/EN, hvilket betyder, at det er en europæisk standard, der har status som dansk standard.

Denne publikations overensstemmelse er:

IDT med: IEC 60352-2 ED 2.0:2006.

IDT med: EN 60352-2:2006.

DS-publikationen er på engelsk.

Denne publikation erstatter: DS/EN 60352-2 + A1:1997 og DS/EN 60352-2/A2:2002 .

DS-publikationstyper

Dansk Standard udgiver forskellige publikationstyper.

Typen på denne publikation fremgår af forsiden.

Der kan være tale om:

Dansk standard

- standard, der er udarbejdet på nationalt niveau, eller som er baseret på et andet lands nationale standard, eller
- standard, der er udarbejdet på internationalt og/eller europæisk niveau, og som har fået status som dansk standard

DS-information

- publikation, der er udarbejdet på nationalt niveau, og som ikke har opnået status som standard, eller
- publikation, der er udarbejdet på internationalt og/eller europæisk niveau, og som ikke har fået status som standard, fx en teknisk rapport, eller
- europæisk præstandard

DS-håndbog

- samling af standarder, eventuelt suppleret med informativt materiale

DS-hæfte

- publikation med informativt materiale

Til disse publikationstyper kan endvidere udgives

- tillæg og rettelsesblade

DS-publikationsform

Publikationstyperne udgives i forskellig form som henholdsvis

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- godkendelsesblad (publikationen leveres i kopi med et trykt DS-omslag)
- elektronisk (publikationen leveres på et elektronisk medie)

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Alle DS-publikationers betegnelse begynder med DS efterfulgt af et eller flere præfikser og et nr., fx **DS 383**, **DS/EN 5414** osv. Hvis der efter nr. er angivet et **A** eller **Cor**, betyder det, enten at det er et **tillæg** eller et **rettelsesblad** til hovedstandard, eller at det er indført i hovedstandard.

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Overensstemmelse med anden publikation:

Overensstemmelse kan enten være IDT, EQV, NEQ eller MOD

- **IDT:** Når publikationen er identisk med en given publikation.
- **EQV:** Når publikationen teknisk er i overensstemmelse med en given publikation, men præsentationen er ændret.
- **NEQ:** Når publikationen teknisk eller præsentationsmæssigt ikke er i overensstemmelse med en given standard, men udarbejdet på baggrund af denne.
- **MOD:** Når publikationen er modificeret i forhold til en given publikation.

English version

**Solderless connections
Part 2: Crimped connections -
General requirements,
test methods and practical guidance
(IEC 60352-2:2006)**

Connexions sans soudure
Partie 2: Connexions serties -
Exigences générales,
méthodes d'essai et guide pratique
(CEI 60352-2:2006)

Lötfreie Verbindungen
Teil 2: Crimpverbindungen -
Allgemeine Anforderungen,
Prüfverfahren und Anwendungshinweise
(IEC 60352-2:2006)

This European Standard was approved by CENELEC on 2006-03-01. 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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/1584/FDIS, future edition 2 of IEC 60352-2, 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 60352-2 on 2006-03-01.

This European Standard supersedes EN 60352-2:1994 + A1:1997 + A2:2002.

It includes the following major technical changes with respect to EN 60352-2:1994 and its amendments:

- a) the contents of clauses have been re-arranged, for example the old Clauses 5, 6, 7, 8 and 9 are now included in the new Clause 4, Requirements;
- b) Subclause 4.3.1, the material requirements for crimp barrels have been changed from Vickers hardness into more appropriate tensile strength requirements and the requirements have been opened to other materials, if it is of suitable characteristics;
- c) Subclause 4.3.3, Surface finishes: the tin-lead has been replaced by tin-alloy to comply with RoHS legislation. Other plating materials, such as nickel, may be used provided their suitability has been proven;
- d) Subclause 5.1.4, Recovering, has been added;
- e) Table 2, example of other materials, has been shortened;
- f) Subclause 5.2.4.5 and Figure 7, Current loading, cyclic: the length of wire between two specimens has been changed to a "*minimum of 150 mm*" to comply with regional requirements;
- g) Subclause 5.2.4.6, Crimping at low temperature, has been changed to "under consideration";
- h) Subclause 15.4 of amendment A1 has been deleted for the sake of design freedom, because the dimensions are not widely used as stated; only a minority of products, in most cases older ones have these dimensions.

The following dates were fixed:

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|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2006-12-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2009-03-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60352-2:2006 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 referenced documents are indispensable for the application 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 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 60050-581	1978	International Electrotechnical Vocabulary (IEV) Chapter 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1 + corr. October + A1	1988 1988 1992	Environmental testing Part 1: General and guidance	EN 60068-1	1994
IEC 60189-3	1988	Low-frequency cables and wires with PVC insulation and PVC sheath Part 3: Equipment wires with solid or stranded conductor, PVC insulated, in singles, pairs and triples	-	-
IEC 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512	Series
IEC 60512-1-100	2001	Connectors for electronic equipment - Tests and measurements Part 1-100: General - Applicable publications	EN 60512-1-100 ¹⁾	2001
IEC 60670 A1	1989 1994	Flat, quick-connect terminations	-	-
ISO 6892	1998	Metallic materials - Tensile testing at ambient - temperature	-	-

¹⁾ EN 60512-1-100 is superseded by EN 60512-1-100:2006, which is based on IEC 60512-1-100:2006.