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# EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60352-3:2002 sisaldab Euroopa standardi EN 60352-3:1994 ingliskeelset teksti.

Käesolev dokument on jõustatud 18.12.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60352-3:2002 consists of the English text of the European standard EN 60352-3:1994.

This document is endorsed on 18.12.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian

ICS 29.120.20

### Standardite reprodutseerimis- ja levitamisõigus kuulub Eesti Standardikeskusele

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 60352-3

October 1994

ICS 29.120.20

Descriptors: Solderless connections, solderless accessible insulation displacement connections

English version

# Solderless connections

Part 3: Solderless accessible insulation displacement connections—General requirements, test methods and practical guidance

(IEC 352-3: 1993)

Connexions sans soudure
Partie 3: Connexions autodénudantes
accessibles sans soudure — Règles générales,
méthodes d'essai et guide pratique
(CEI 352-3: 1993)

Lötfreie elektrische Verbindungen Teil 3: Lötfreie zugängliche Schneidklemmverbindungen Allgemeine Anforderungen, Prüfverfahren und Anwendungshinweise (IEC 352-3: 1993)

This European Standard was approved by CENELEC on 1994-05-15. 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

EN 60352-3: 1994

### **Foreword**

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 352-3: 1993 could be accepted without textural changes, has shown that no common modifications were necessary for the acceptance as European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as EN 60352-3 on May 1994.

The following dates were fixed.

 latest date of publication of an identical national standard

(dop) 1995-07-15

 latest date of withdrawal of conflicting national standards

(dow) 1995-07-15

Annexes designated 'normative' are part of the body of the standard. In this standard, annex ZA normative.

Teliem Seneraled by FILS

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#### INTRODUCTION

Two standards are available on solderless insulation displacement connections:

Part 3: Solderless accessible insulation displacement connections – General requirements, test methods and practical guidance;

Part 4: Solderless non-accessible insulation displacement connections – General requirements, test methods and practical guidance.

This standard includes requirements, tests and practical guidance information.

Two test schedules are provided:

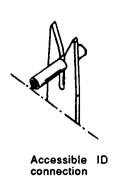
- The Basic Test Schedule applies to insulation displacement connections which conform to all requirements of section 2.

These requirements are derived from experience with successful applications of such connections.

- The Full Test Schedule applies to insulation displacement connections which do not fully conform to all requirements of section 2, for example those which are manufactured using materials or surface finishes not included in section 2.

This philosophy permits cost and time effective performance verification using a limited Basic Test Schedule for established connections and an expanded Full Test Schedule for connections requiring more extensive performance validation.

NOTE - In this standard the term "insulation displacement" is abbreviated to "ID", for example "ID connection", "ID termination".



IEC 025/93

Non-accessible ID connection

IEC 026193

Figure 1 - Example of accessible and non-accessible insulation displacement connection

EN 60352-3: 1994

### **SOLDERLESS CONNECTIONS**

Part 3: Solderless accessible insulation displacement connections – General requirements, test methods and practical guidance

**SECTION 1: GENERAL** 

### 1 Scope

This part of IEC 352 is applicable to ID connections which are accessible for tests and measurements according to section 3 and which are made with:

- appropriately designed ID terminations;
- wires having solid round conductors of 0,25 mm to 3,6 mm nominal diameter;
- wires having stranded conductors of 0,05 mm<sup>2</sup> to 10 mm<sup>2</sup> cross-section;

for use in telecommunication equipment and in electronic devices employing similar techniques.

Information on materials and data from industrial experience is included in addition to the test procedures to provide electrically stable connections under prescribed environmental conditions.

### 2 Object

To determine the suitability of accessible ID connections under specified mechanical, electrical and atmospheric conditions.

There are different designs and materials for ID terminations in use. For this reason only fundamental parameters of the termination are specified while the performance requirements of the wire and the complete connection are specified in full detail.

To provide a means of comparing test results when the tools used to make the connections are of different designs or manufacture.

### 3 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 352. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 352 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 68-1: 1988, Environmental testing - Part 1: General and guidance

IEC 68-2-60 TTD: 1989, Environmental testing – Part 2: Tests – Test Ke: Corrosion tests in artificial atmosphere at very low concentration of polluting gas(es)

IEC 189-3: 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.

**Amendment 1 (1989)** 

IEC 352-4, Solderless connections – Part 4: Solderless non-accessible insulation displacement connections – General requirements, tests methods and practical guidance (under consideration)

IEC 512-1: 1984, Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 1: General.

Amendment 1 (1988)

IEC 512-2: 1985, Electromechanical components for electronic equipment, basic testing procedures and measuring methods – Part 2: General examination, electrical continuity and contact resistance tests, insulation tests and voltage stress tests

IEC 512-4: 1976, Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 4: Dynamic stress tests

IEC 512-5: 1992, Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 5: Impact tests (free components), static load tests (fixed components), endurance tests and overload tests

IEC 512-6: 1984, Electromechanical components for electronic equipment, basic testing procedures and measuring methods – Part 6: Climatic tests and soldering tests.

IEC 673: 1980, Low-frequency miniature equipment wires with solid or stranded conductor, fluorinated polyhydrocarbon type insulation, single.

Amendment 3 (1989)

#### 4 Definitions

Terms and definitions used in and applicable to this part of IEC 352 are included in IEC 50(581). IEC 512-1 also contains some applicable terms and definitions.