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Solderless connections - Part 3: Accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/20

Obsahuje: EN IEC 60352-3:2020, IEC 60352-3:2020

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**EN IEC 60352-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 29.120.20

Supersedes EN 60352-3:1994 and all of its amendments  
and corrigenda (if any)

English Version

**Solderless connections - Part 3: Accessible insulation  
displacement (ID) connections - General requirements, test  
methods and practical guidance  
(IEC 60352-3:2020)**

Connexions sans soudure - Partie 3: Connexions  
autodénudantes accessibles sans soudure - Règles  
générales, méthodes d'essai et guide pratique  
(IEC 60352-3:2020)

Lötfreie elektrische Verbindungen - Teil 3: Lötfreie  
zugängliche Schneidklemmverbindungen - Allgemeine  
Anforderungen, Prüfverfahren und Anwendungshinweise  
(IEC 60352-3:2020)

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**EN IEC 60352-3:2020 (E)****European foreword**

The text of document 48B/2789/FDIS, future edition 2 of IEC 60352-3, prepared by SC 48B "Electrical connectors" of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60352-3:2020.

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) 2021-02-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-05-14

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60352-4	NOTE	Harmonized as EN 60352-4
IEC 61984	NOTE	Harmonized as EN 61984

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60228	-	Conductors of insulated cables	EN 60228	-
IEC 60512-1	-	Conductors of insulated cables	EN IEC 60512-1	-
IEC 60512-1-1	-	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination - Test 1a: Visual examination	EN 60512-1-1	-
IEC 60512-1-2	-	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass	EN 60512-1-2	-
IEC 60512-2-1	-	Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests - Test 2a: Contact resistance - Millivolt level method	EN 60512-2-1	-
IEC 60512-2-2	-	Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests - Test 2b: Contact resistance - Specified test current method	EN 60512-2-2	-
IEC 60512-2-5	-	Connectors for electronic equipment - Tests and measurements - Part 2-5: Electrical continuity and contact resistance tests - Test 2e: Contact disturbance	EN 60512-2-5	-

**EN IEC 60352-3:2020 (E)**

IEC 60512-6-4	-	Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal)	EN 60512-6-4	-
IEC 60512-9-2	-	Connectors for electronic equipment - Tests and measurements - Part 9-2: Endurance tests - Test 9b: Electrical load and temperature	EN 60512-9-2	-
IEC 60512-11-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 11-1: Climatic tests - Test 11a - Climatic sequence	EN IEC 60512-11-1	-
IEC 60512-11-4	-	Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests - Test 11d: Rapid change of temperature	EN 60512-11-4	-
IEC 60512-11-7	-	Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test	EN 60512-11-7	-
IEC 60512-11-9	-	Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat	EN 60512-11-9	-
IEC 60512-11-10	-	Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold	EN 60512-11-10	-
IEC 60512-11-12	-	Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests - Test 11m: Damp heat, cyclic	EN 60512-11-12	-

**IEC 60352-3**

Edition 2.0 2020-04

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Solderless connections –  
Part 3: Accessible insulation displacement (ID) connections – General  
requirements, test methods and practical guidance**

**Connexions sans soudure –  
Partie 3: Connexions autodénudantes accessibles – Règles générales, méthodes  
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IEC 60352-3

Edition 2.0 2020-04

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Solderless connections –  
Part 3: Accessible insulation displacement (ID) connections – General  
requirements, test methods and practical guidance**

**Connexions sans soudure –  
Partie 3: Connexions autodénudantes accessibles – Règles générales, méthodes  
d'essai et guide pratique**

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**SOLDERLESS CONNECTIONS –****Part 3: Accessible insulation displacement (ID) connections –  
General requirements, test methods and practical guidance**

## FOREWORD

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International Standard IEC 60352-3 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

This second edition cancels and replaces the first edition published in 1993. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Subclause 7.2.2: reduce the limit of duration of contact disturbance to 1  $\mu$ s.
- b) Subclause 7.2.3: reduce the limit of duration of contact disturbance to 1  $\mu$ s.
- c) Transferred Clauses 9 to 13 to Annex A (informative).
- d) The figures were revised for clarity.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
48B/2789/FDIS	48B/2802/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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

A list of all parts in the IEC 60352 series, published under the general title *Solderless connections*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

## INTRODUCTION

The two following parts of IEC 60352 are available on solderless insulation displacement connections:

- Part 3: 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.

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

Figure 1 illustrates examples of accessible and non-accessible insulation displacement connections that clarify the difference among them.

Part 3 includes requirements and relevant tests (normative) as well as a practical guidance in Annex A (informative) for accessible ID connections.

Two test schedules are provided:

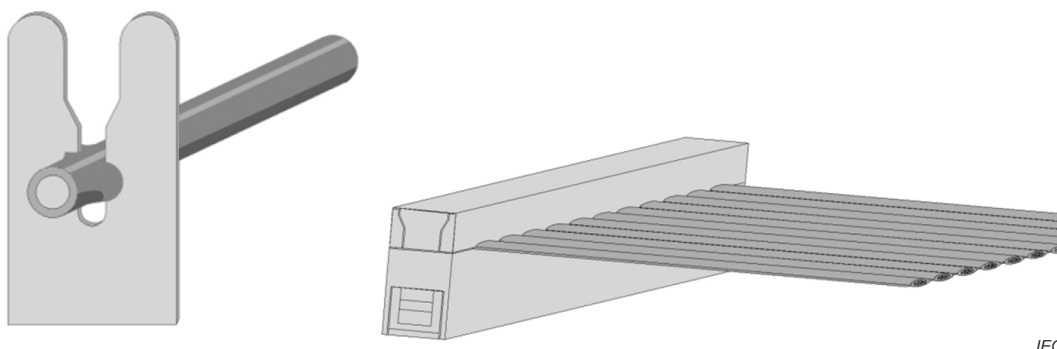
- the basic test schedule which applies to insulation displacement connections which conform to all prerequisites of Clause 5. It is derived from experience with successful applications of such connections;
- the full test schedule which applies to insulation displacement connections which do not fully conform to all prerequisites of Clause 5, for example which are manufactured using materials or finishes not included in Clause 5.

This philosophy permits cost and time effective performance verification using a limited basic test schedule for established insulation displacement connections and an expanded full test schedule for connections requiring more extensive performance validation.

The suitability of the accessible ID connection implies that the specified requirements and tests apply to all factors involved in producing a suitable ID connection, namely:

- the accessible ID termination, which may be part of a single-pole or multipole connector;
- the wire (or range of wires) for which the termination is suitable;
- the tools (if any) required to produce that type of solderless connection.

The practical guidance (informative Annex A) serves as a guideline for the required workmanship. Attention is drawn to the fact that some industries (e.g. automotive, aerospace, nuclear, military) may have specific workmanship standards and/or quality requirements, which are outside the scope of this standard.



IEC

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

IEC Guide 109 advocates the need to minimise the impact of a product on the natural environment throughout the product life cycle.

It is understood that some of the materials permitted in this document may have a negative environmental impact.

As technological advances lead to acceptable alternatives for these materials, they will be eliminated from the document.

## SOLDERLESS CONNECTIONS –

### Part 3: Accessible insulation displacement (ID) connections – General requirements, test methods and practical guidance

#### 1 Scope

This part of IEC 60352 is applicable to ID connections which are accessible for tests and measurements according to Clauses 6 through 8 and which are made with:

- appropriately designed accessible 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-sectional area,

for use in electrical and electronic equipment and components.

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.

There are different designs and materials for accessible 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.

The purpose of this document is:

- to determine the suitability of accessible ID connections under specified mechanical, electrical and atmospheric conditions;
- to provide a means of comparing test results when the tools used to make the connections, if any, are of different designs or manufacture.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60228, *Conductors of insulated cables*

IEC 60512-1, *Connectors for electrical and electronic equipment – Tests and measurements – Part 1: Generic specification*

IEC 60512-1-1, *Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination*

IEC 60512-1-2, *Connectors for electronic equipment – Tests and measurements – Part 1-2: General examination – Test 1b: Examination of dimension and mass*

IEC 60512-2-1, *Connectors for electronic equipment – Part 2: Electrical continuity and contact resistance tests – Test 2a: Contact resistance – Millivolt level method*



IEC 60512-2-2, *Connectors for electronic equipment – Tests and measurements – Part 2-2: Electrical continuity and contact resistance tests – Test 2b: Contact resistance – Specified test current method*

IEC 60512-2-5, *Connectors for electronic equipment – Tests and measurements – Part 2-5: Electrical continuity and contact resistance tests – Test 2e: Contact disturbance*

IEC 60512-6-4, *Connectors for electronic equipment – Tests and measurements – Part 6-4: Dynamic stress tests – Test 6d: Vibration (sinusoidal)*

IEC 60512-9-2, *Connectors for electronic equipment – Tests and measurements – Part 9-2: Endurance tests – Test 9b: Electrical load and temperature*

IEC 60512-11-1, *Connectors for electrical and electronic equipment – Tests and measurements – Part 11-1: Climatic tests – Test 11a – Climatic sequence*

IEC 60512-11-4, *Connectors for electronic equipment – Tests and measurements – Part 11-4: Climatic tests – Test 11d: Rapid change of temperature*

IEC 60512-11-7, *Connectors for electronic equipment – Tests and measurements – Part 11-7: Climatic tests – Test 11g: Flowing mixed gas corrosion test*

IEC 60512-11-9, *Connectors for electronic equipment – Tests and measurements – Part 11-9: Climatic tests – Test 11i: Dry heat*

IEC 60512-11-10, *Connectors for electronic equipment – Tests and measurements – Part 11-10: Climatic tests – Test 11j: Cold*

IEC 60512-11-12, *Connectors for electronic equipment – Tests and measurements – Part 11-12: Climatic tests – Test 11m: Damp heat, cyclic*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**