

Connectors for electrical and electronic equipment -
Product requirements - Part 8-102: Power connectors -
Detail specification for 2-pole or 3-pole power plus
2-pole signal shielded and sealed connectors with
plastic housing for rated current of 150 A

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 61076-8-102:2020 sisaldab Euroopa standardi EN IEC 61076-8-102:2020 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 61076-8-102:2020 consists of the English text of the European standard EN IEC 61076-8-102:2020.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Connectors for electrical and electronic equipment - Product requirements - Part 8-102: Power connectors - Detail specification for 2-pole or 3-pole power plus 2-pole signal shielded and sealed connectors with plastic housing for rated current of 150 A
(IEC 61076-8-102:2020)

Connecteurs pour équipements électriques et électroniques
- Exigences de produit - Partie 8-102: Connecteurs électriques - Spécification particulière pour connecteurs blindés étanches à 2 pôles ou 3 pôles pour la transmission de puissance et à 2 pôles pour la transmission de données avec boîtier plastique pour courant assigné de 150 A
(IEC 61076-8-102:2020)

Steckverbinder für elektronische Einrichtungen -
Produktanforderungen - Teil 8-102:
Leistungssteckverbinder - Bauartspezifikation für gasdichte geschirmte Steckverbinder mit Kunststoffgehäuse mit 2P/3P Leistung plus 2P Signal für 150 A Bemessungsstrom
(IEC 61076-8-102:2020)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 48B/2785/FDIS, future edition 1 of IEC 61076-8-102, 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 61076-8-102:2020.

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) 2021-02-21
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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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-581	2008	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60228	2004	Conductors of insulated cables	EN 60228 + corrigendum	2005 2005-05
IEC 60352-1	-	Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance	EN 60352-1	-
IEC 60352-2	-	Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance	EN 60352-2	-
IEC 60352-3	-	Solderless connections - Part 3: Accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance	-	-
IEC 60352-4	-	Solderless connections - Part 4: Non-accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance	-	-
IEC 60352-5	-	Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60352-6	-	Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance	-	-
IEC 60352-7	-	Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance	-	-
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	-
IEC 60512-2-6	-	Connectors for electronic equipment - Tests and measurements - Part 2-6: Electrical continuity and contact resistance tests - Test 2f: Housing (shell) electrical continuity	EN 60512-2-6	-
IEC 60512-3-1	-	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance	EN 60512-3-1	-
IEC 60512-4-1	-	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	EN 60512-4-1	-
IEC 60512-5-1	-	Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests - Test 5a: Temperature rise	EN 60512-5-1	-
IEC 60512-5-2	-	Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests - Test 5b: Current-temperature derating	EN 60512-5-2	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60512-6-3	-	Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock	EN 60512-6-3	-
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 60512-7-1	-	Connectors for electronic equipment - Tests and measurements - Part 7-1: Impact tests (free connectors) - Test 7a: Free fall (repeated)	EN 60512-7-1	-
IEC 60512-9-1	-	Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation	EN 60512-9-1	-
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 60512-11-3	-	Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests - Test 11c: Damp heat, steady state	EN 60512-11-3	-
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 60512-11-6	-	Connectors for electronic equipment - Tests and measurements - Part 11-6: Climatic tests - Test 11f: Corrosion, salt mist	EN 60512-11-6	-
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 60512-11-11	-	Connectors for electronic equipment - Tests and measurements - Part 11-11: Climatic tests - Test 11k: Low air pressure	EN 60512-11-11	-
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	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60512-13-1	-	Connectors for electronic equipment - Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces	EN 60512-13-1	-
IEC 60512-13-5	-	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method	EN 60512-13-5	-
IEC 60512-15-1	-	Connectors for electronic equipment - Tests and measurements - Part 15-1: Connector tests (mechanical) - Test 15a: Contact retention in insert	EN 60512-15-1	-
IEC 60512-15-6	-	Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices	EN 60512-15-6	-
IEC 60512-16-5	-	Connectors for electronic equipment - Tests and measurements - Part 16-5: Mechanical tests on contacts and terminations - Test 16e: Gauge retention force (resilient contacts)	EN 60512-16-5	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
			+ corrigendum	1993-05
IEC 60695-2-11	2014	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)	EN 60695-2-11	2014
IEC 60999-1	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	-
IEC 60999-2	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors above 35 mm ² up to 300 mm ² (included)	EN 60999-2	-
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
IEC 61984	2008	Connectors - Safety requirements and tests	EN 61984	2009

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62430	-	Environmentally conscious design (ECD) - Principles, requirements and guidance	EN IEC 62430	-
IEC Guide 109	-	Environmental aspects - Inclusion in electrotechnical product standards	-	-
ISO 1302	2002	Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation	EN ISO 1302	2002
ISO 6508-1	2015	Metallic materials - Rockwell hardness test - Part 1: Test method	-	-
ISO 11469	2016	Plastics - Generic identification and marking of plastics products	EN ISO 11469	2016

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Exigences de produit –**

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connecteurs blindés étanches à 2 pôles ou 3 pôles pour la transmission de
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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
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CONTENTS

FOREWORD.....	5
1 Scope.....	8
2 Normative references	8
3 Terms and definitions	11
4 Technical information	11
4.1 Recommended method of termination	11
4.1.1 General	11
4.1.2 Number of contacts and contact cavities	11
4.2 Ratings and characteristics	11
4.3 Systems of levels.....	12
4.3.1 Performance levels	12
4.3.2 Compatibility levels.....	12
4.4 Classification into climatic categories.....	12
4.5 Clearance and creepage distance	12
4.6 Current-carrying capacity	12
4.7 Marking.....	12
5 Dimensional information	12
5.1 General.....	12
5.2 Isometric view and common features	13
5.2.1 General	13
5.2.2 Isometric view of free connectors.....	13
5.2.3 Isometric view of fixed connectors	13
5.3 Engagement (mating) information	13
5.3.1 Engagement (mating) direction	13
5.3.2 Perpendicular to the engaging (mating) direction	13
5.3.3 Inclination.....	13
5.4 Fixed connectors	14
5.4.1 General	14
5.4.2 Dimensions.....	14
5.4.3 Terminations.....	18
5.5 Free connectors	18
5.5.1 General	18
5.5.2 Dimensions.....	18
5.5.3 Terminations.....	22
5.6 Accessories	22
5.7 Mounting information	22
5.8 Gauges – Sizing gauges and retention force gauges.....	22
6 Technical characteristics	22
6.1 Classification into climatic categories.....	22
6.2 Electrical characteristics	23
6.2.1 Clearance and creepage distance.....	23
6.2.2 Voltage proof.....	23
6.2.3 Contact resistance	23
6.2.4 Housing (shell) electrical continuity.....	23
6.2.5 Insulation resistance.....	23
6.2.6 Temperature rise	24

6.2.7	Electrical load and temperature	24
6.3	Mechanical characteristics	24
6.3.1	Mechanical operation.....	24
6.3.2	Effectiveness of connector coupling devices	25
6.3.3	Gauge retention force (resilient contact)	25
6.3.4	Engaging and separating forces.....	25
6.3.5	Contact retention in insert.....	25
6.3.6	Polarizing and keying method	25
6.4	Dynamic stress test.....	26
6.4.1	Vibration (sine)	26
6.4.2	Shock	26
6.4.3	Free fall (repeated).....	26
6.4.4	IP degree of protection	26
6.4.5	Glow-wire flammability test method for end-products (GWEPT)	26
6.5	Climatic test.....	27
6.5.1	Damp heat, steady state	27
6.5.2	Rapid change of temperature.....	27
6.5.3	Corrosion, salt mist.....	27
6.5.4	Dry heat	27
6.5.5	Cold.....	27
6.5.6	Low air pressure	27
6.6	Environmental aspects.....	28
6.6.1	Marking of insulation material (plastic).....	28
6.6.2	Design/use of material	28
7	Test schedule	28
7.1	General.....	28
7.2	Test schedules.....	28
7.2.1	Basic (minimum) test schedule	28
7.2.2	Full test schedule	28
7.3	Test procedures and measurement methods.....	38
7.4	Pre-conditioning.....	38
7.5	Wiring and mounting of test specimens	38
7.5.1	Wiring.....	38
7.5.2	Mounting	38
	Figure 1 – 2-pole and 3-pole free connectors	13
	Figure 2 – 2-pole and 3-pole fixed connectors.....	13
	Figure 3 – 2-pole 150 A fixed connector	14
	Figure 4 – 3-pole 150 A fixed connector.....	15
	Figure 5 – Fixed connector codings	17
	Figure 6 – 2-pole 150 A free connector	18
	Figure 7 – 3-pole 150 A free connector	19
	Figure 8 – Free connector codings.....	21
	Figure 9 – Gauge for signal contacts.....	22
	Figure 10 – Gauge for power contacts	22
	Table 1 – Climatic categories.....	12

Table 2 – 2-pole 150 A fixed connector dimensions	14
Table 3 – 3-pole 150 A fixed connector dimensions	16
Table 4 – Fixed connector codings dimensions	17
Table 5 – 2-pole 150 A free connector dimensions	18
Table 6 – 3-pole 150 A free connector dimensions	20
Table 7 – Free connector codings dimensions	21
Table 8 – Gauge dimensions	22
Table 9 – Voltage proof	23
Table 10 – Vibration	26
Table 11 – Number of test specimens	28
Table 12 – Test group P	29
Table 13 – Test group AP	29
Table 14 – Test group BP	32
Table 15 – Test group CP	33
Table 16 – Test group DP	34
Table 17 – Test group EP	35
Table 18 – Test group GP	36
Table 19 – Test group JP	36
Table 20 – Test group KP	37

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –
PRODUCT REQUIREMENTS –****Part 8-102: Power connectors – Detail specification for 2-pole or 3-pole
power plus 2-pole signal shielded and sealed connectors with plastic
housing for rated current of 150 A**

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International Standard IEC 61076-8-102 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

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

FDIS	Report on voting
48B/2785/FDIS	48B/2800/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 in the IEC 61076 series, published under the general title *Connectors for electrical and electronic equipment – Product requirements*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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