

PAIGALDUS-PISTIKÜHENDUSED PÜSIVAKS
ÜHENDAMISEKS KOHTKINDLATES PAIGALDISTES

Installation couplers intended for permanent
connection in fixed installations

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN IEC 61535:2024 sisaldab Euroopa standardi EN IEC 61535:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 30.08.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN IEC 61535:2024 consists of the English text of the European standard EN IEC 61535:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 30.08.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Installation couplers intended for permanent connection in fixed installations (IEC 61535:2023)

Coupleurs d'installation pour connexions permanentes dans les installations fixes
(IEC 61535:2023)

Installationssteckverbinder für dauernde Verbindung in festen Installationen
(IEC 61535:2023)

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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 23/1062/FDIS, future edition 3 of IEC 61535, prepared by IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61535:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-03-12 level by publication of an identical national standard or by endorsement
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IEC 60309 (series)	NOTE	Approved as EN IEC 60309 (series)
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IEC 60364 (series)	NOTE	Approved as HD 60364 (series)
IEC 60364-4-41:2005	NOTE	Approved as HD 60364-4-41:2017 + A11:2017
IEC 60364-5-52:2009	NOTE	Approved as HD 60364-5-52:2011 + A11:2017
IEC 61995 (series)	NOTE	Approved as EN 61995 (series)

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Installation couplers intended for permanent connection in fixed installations

Coupleurs d'installation pour connexions permanentes dans les installations fixes



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Installation couplers intended for permanent connection in fixed installations

Coupleurs d'installation pour connexions permanentes dans les installations fixes

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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CONTENTS

FOREWORD.....	6
INTRODUCTION.....	8
1 Scope.....	9
2 Normative references	9
3 Terms and definitions	10
4 General requirements	12
5 Conditions for tests.....	13
5.1 General.....	13
5.2 Test conditions	13
5.3 Tests on non-rewirable installation couplers.....	13
5.4 Order of tests.....	13
5.5 Specification of tests.....	13
5.6 Compliance requirements	13
5.7 Routine tests for non-rewirable installation couplers	14
6 Ratings.....	14
6.1 Rated voltage	14
6.2 Rated current.....	14
6.3 Rated connecting capacity	15
6.4 Tests	15
7 Classification.....	15
8 Marking and documentation.....	16
8.1 General.....	16
8.2 Use of symbols or letters	16
8.3 Markings.....	16
8.4 Documentation.....	17
9 Dangerous compatibility	18
9.1 Unintended or improper connection.....	18
9.2 Engagement	18
9.3 Compatibility of different installation coupler systems	18
9.4 Compatibility with standard systems	18
10 Protection against electric shock	19
10.1 Degree of protection against ingress of solid foreign objects.....	19
10.2 Access to live parts.....	19
10.3 External parts	19
11 Terminals, terminations and connectable conductors.....	19
11.1 Terminals and terminations	19
11.1.1 General	19
11.1.2 Terminals of rewirable installation couplers	20
11.1.3 Terminations of non-rewirable installation couplers.....	20
11.2 Connectable conductors.....	20
12 Construction.....	21
12.1 Connection between earthing contacts.....	21
12.2 Locking against rotation	21
12.3 Mechanical strength of contacts.....	21
12.4 Housing of rewirable installation couplers	21

12.5	Housing of non-rewirable installation couplers	22
12.6	Dismantling and opening of rewirable installation couplers.....	22
12.7	Earthing contact and earthing terminal.....	22
12.8	Loose conductor strands	22
12.8.1	General	22
12.8.2	Strand test for rewirable installation couplers.....	23
12.8.3	Strand test for non-rewirable non-moulded-on installation couplers	23
12.8.4	Strand test for non-rewirable moulded-on installation couplers	23
12.9	Incorporation of electrical devices	23
12.10	Retaining means	24
12.11	Distribution blocks	24
12.12	Shrouds	24
12.13	Factory wiring	24
12.14	Stress test	24
12.14.1	General	24
12.14.2	Stress test of rewirable installation couplers	24
12.14.3	Stress test of non-rewirable installation couplers	25
12.15	Separation of non-rewirable installation couplers	25
13	Protection against harmful ingress of solid foreign objects and against harmful ingress of water	25
13.1	General.....	25
13.2	Protection against harmful ingress of solid foreign objects	25
13.3	Protection against harmful ingress of water.....	25
14	Insulation resistance and electric strength	26
14.1	General.....	26
14.2	Insulation resistance	26
14.3	Electric strength.....	26
15	Construction of contacts	27
15.1	Resiliency	27
15.2	Resistance of connections	27
15.3	Contact pressure	28
16	Temperature rise	28
17	Breaking capacity	29
18	Forces necessary to disengage the parts of the installation coupler.....	30
19	Cables and their connection	30
19.1	Capability of being fitted	30
19.2	Relief from pull, thrust and torsion	30
19.3	Cable anchorage.....	30
19.4	Capability to connect cables with different cross-sectional area	31
19.5	Sharp edges	33
20	Mechanical strength	33
21	Resistance to heat and ageing.....	34
21.1	Resistance to heat	34
21.2	Dry heat storage	34
21.3	Ball pressure test.....	34
21.4	Ageing of elastomeric and thermoplastic material	35
21.5	Current cycling test.....	35
22	Screws, current-carrying parts and connections.....	36

22.1	Screws and nuts	36
22.2	Screws and insulating material.....	37
22.3	Screws and rivets for electrical and mechanical connections.....	38
22.4	Metals of current-carrying parts	38
23	Clearances, creepage distances and distances through solid insulation.....	38
24	Resistance to abnormal heat and to tracking	42
24.1	Resistance to abnormal heat.....	42
24.2	Resistance to tracking.....	44
25	Resistance to rusting	44
Annex A (normative) Routine protective earth continuity tests		46
Annex B (normative) Test circuits for temperature rise test		47
Annex C (normative) Number of sets of test samples used for the tests and sequence of tests for each set		50
Annex D (informative) Guide to use		51
D.1	General.....	51
D.2	Applications	51
D.3	Examples of use of installation couplers	51
Annex E (normative) Warning symbol used in DC applications.....		54
Annex F (informative) Additional tests and requirements for installation couplers intended to be used in ambient air temperature below –5 °C down to and including –45 °C		55
F.1	General.....	55
F.2	General requirements on tests	55
F.3	Additional marking and documentation.....	55
F.3.1	Additional marking	55
F.3.2	Additional documentation.....	55
F.4	Mechanical strength at lower ambient air temperatures.....	55
Bibliography.....		57
Figure 1 – Apparatus for testing the cable anchorage		32
Figure 2 – Apparatus for measuring the distortion (example)		33
Figure 3 – Ball-pressure apparatus		35
Figure 4 – Explanation of "small part"		44
Figure B.1 – 1P + N + PE installation couplers, including N		47
Figure B.2 – 1P + N + PE installation couplers, including PE		47
Figure B.3 – 3P + N + PE installation couplers, 3 phases loaded		47
Figure B.4 – 3P + N + PE installation couplers, N and PE loaded.....		47
Figure B.5 – 1P + N + PE distribution block, phase and N loaded		48
Figure B.6 – 1P + N + PE distribution block, phase and PE loaded		48
Figure B.7 – 3P + N + PE to 1P + N + PE distribution block, 3 phases loaded.....		49
Figure B.8 – 3P + N + PE to 1P + N + PE distribution block, N and PE loaded		49
Figure D.1 – Examples of use of installation couplers		52
Figure D.2 – Magnified area of Figure D.1 to show installation couplers.....		53
Figure E.1 – Symbol "DO NOT CONNECT OR DISCONNECT UNDER LOAD"		54
Table 1 – Voltage rating for installation couplers in AC application		14

Table 2 – Voltage rating for installation couplers in DC application	14
Table 3 – Classification of installation couplers	15
Table 4 – Test currents for installation couplers	29
Table 5 – Forces to be applied to cable anchorages	31
Table 6 – Torque applied for the tightening and loosening test.....	37
Table 7 – Installation couplers intended for use in supply systems with a maximum voltage to earth of 150 V AC, rated impulse voltage 2,5 kV	38
Table 8 – Installation couplers intended for use in supply systems with a maximum voltage to earth of 300 V AC, rated impulse voltage 4,0 kV	39
Table 9 – Installation couplers intended for use in single-phase two-wire systems 50 V DC and single-phase three-wire systems 60 V DC, rated impulse voltage 0,8 kV	40
Table 10 – Installation couplers intended for use in single-phase two-wire systems 120 V DC and single-phase three-wire systems 240 V DC, rated impulse voltage 2,5 kV	41
Table 11 – Installation couplers intended for use in single-phase two-wire systems 220 V DC and single-phase three-wire systems 440 V DC, rated impulse voltage 4,0 kV	42
Table C.1 – Sets of samples	50

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

INSTALLATION COUPLERS INTENDED FOR PERMANENT CONNECTION IN FIXED INSTALLATIONS

FOREWORD

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IEC 61535 has been prepared by IEC technical committee 23: Electrical accessories. It is an International Standard.

This third edition cancels and replaces the second edition published in 2019. This edition constitutes a technical revision.

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

- a) inclusion of a definition for "live part" based on IEC 61140;
- b) additional optional cross medial documentation, e.g. marking with QR-Code;
- c) corrections on the consistent use of the expressions "earth", "earthing contact", "earthing circuit" and "protective earth(ing)" throughout the document;
- d) addition of missing compliance provisions to 13.3;
- e) update of Figure D.1 of Annex D;
- f) inclusion of new Annex F for cold climate requirements.

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

Draft	Report on voting
23/1062/FDIS	23/1066/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

In this standard, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under 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

AC and DC installation couplers according to this document may be used, for example, in prefabricated buildings, commercial showrooms, installation cavities, such as suspended floors and ceilings, in partition walls and in any similar applications, or cable tray systems, cable ladder systems, cable ducting systems and cable trunking systems or in furniture complying with IEC 60364-7-713.

This document may be used as a guide for installation couplers with additional contacts for voltages other than mains voltages.

Particular requirements for installation couplers, for example, for use at higher or lower ambient temperatures, with higher mechanical durability (e.g. metal housings), with higher fire resistance and for use in control circuits (e.g. SELV), are under consideration.

National rules can have requirements concerning the accessibility of installation couplers.

National rules can specify who is allowed to carry out the connection and disconnection of installation couplers.

National rules can have requirements concerning installation couplers with metal conduits.

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INSTALLATION COUPLERS INTENDED FOR PERMANENT CONNECTION IN FIXED INSTALLATIONS

1 Scope

This document applies to two-wire, up to five-wire installation couplers, with or without earthing contact, if provided, with a rated voltage up to and including 500 V AC or 500 V DC and a rated connecting capacity up to and including 10 mm² and a rated current not exceeding 32 A for permanent connection in electrical installations. Installation couplers with additional contacts for voltages other than mains voltages are outside the scope of this document.

An installation coupler consists of an installation female connector and an installation male connector for permanent connection not intended to be engaged or disengaged under load nor to be engaged or disengaged other than during first installation or during reconfiguration or maintenance of the wiring system in which installation couplers have been installed. This means that installation couplers are intended for infrequent use only.

Installation couplers are not suitable for use in place of socket-outlet systems. Installation couplers are not suitable for use in place of devices for connecting luminaires (DCLs) according to IEC 61995 (all parts) or in place of luminaire supporting couplers (LSCs).

Installation couplers complying with this document are suitable for use at ambient temperatures not normally exceeding +40 °C, but their average over a period of 24 h does not exceed +35 °C, with a lower limit of the ambient air temperature of –5 °C, either for indoor or outdoor use.

NOTE 1 Additional tests for use in cold climates are shown in Annex F, which is normative in following countries: FI. Necessary information can be given in the manufacturer's installation instructions.

NOTE 2 For other temperatures, necessary information can be given in the manufacturer's installation instructions.

In locations where special conditions prevail, as in ships, vehicles and the like and in hazardous locations, for example where explosions are liable to occur, special constructions can be required.

NOTE 3 Installation couplers are intended to be installed by instructed or skilled persons.

NOTE 4 As a guide to using installation coupler systems, see Annex D.

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 60068-2-31:2008, *Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens*

IEC 60112, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*
IEC 60529:1989/AMD1:1999
IEC 60529:1989/AMD2:2013

IEC 60664-1:2020, *Insulation coordination for equipment within low-voltage supply systems – Part 1: Principles, requirements and tests*

IEC 60695-2-11, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end products (GWEPT)*

IEC 60998-2-3, *Connecting devices for low-voltage circuits for household and similar purposes – Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units*

IEC 60999-1:1999, *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 mm² up to 35 mm² (included)*

IEC 61032:1997, *Protection of persons and equipment by enclosures – Probes for verification*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

Where the terms "voltage" and "current" are used in this document, they are RMS values, unless otherwise specified.

3.1

rated voltage

voltage assigned to the installation coupler by the manufacturer

3.2

rated current

maximum current assigned to the installation coupler by the manufacturer

Note 1 to entry: Rated current refers to the installation coupler itself and not to an electric circuit.

3.3

rated connecting capacity

cross-sectional area of the largest conductor(s) to be connected as stated by the manufacturer of the installation coupler

3.4

permanent connection

connecting method in an installation which is only opened for maintenance or wiring system re-configuration

Note 1 to entry: The expression "permanent connection" is to be understood as a connection which is maintained as long as an installation exists.

3.5

installation coupler

connecting device consisting of an installation female connector and an installation male connector provided with retaining means for permanent connection not intended to be engaged or disengaged under load nor to be engaged or disengaged other than during first installation, during maintenance of the wiring system or during re-configuration of the wiring system