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STN	**Káblové príchytky na elektrické inštalácie**	**STN** **EN IEC 61914** 37 0200

Cable cleats for electrical installations

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. 01/22

Obsahuje: EN IEC 61914:2021, IEC 61914:2021

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 61914

December 2021

ICS 29.120.20

Supersedes EN 61914:2016 and all of its amendments and corrigenda (if any)

English Version

Cable cleats for electrical installations (IEC 61914:2021)

Brides de câbles pour installations électriques (IEC 61914:2021)

Kabelhalter für elektrische Installationen (IEC 61914:2021)

This European Standard was approved by CENELEC on 2021-11-10. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

Ref. No. EN IEC 61914:2021 E

European foreword

The text of document 23A/976/FDIS, future edition 3 of IEC 61914, prepared by SC 23A "Cable management systems" of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61914:2021.

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) 2022-08-10
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-11-10

This document supersedes EN 61914:2016 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For the relationship with EU Directive(s) / Regulation(s), see informative Annex ZZ, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 61914:2021 was approved by CENELEC as a European Standard without any modification.

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

IEC 60068-2-75	NOTE	Harmonized as EN 60068-2-75
IEC 60364-5-51	NOTE	Harmonized as HD 60364-5-51
IEC 60909 (series)	NOTE	Harmonized as EN 60909 (series)
IEC 60909-0	NOTE	Harmonized as EN 60909-0
IEC 61537:2006	NOTE	Harmonized as EN 61537:2007 (not modified)

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.

Publication	Year	Title	EN/HD	Year
IEC 60060-1	2010	High-voltage test techniques – Part 1: General definitions and test requirements	EN 60060-1	2010
IEC 60502-1	2021	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)	-	-
IEC 60695-11-5	2016	Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2017
ISO 1461	2009	Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods	EN ISO 1461	2009
ISO 2081	2018	Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel	EN ISO 2081	2018
ISO 3575	2016	Continuous hot dip zinc-coated and zinc-iron alloy-coated carbon steel sheet of commercial and drawing qualities	-	-
ISO 4287	1997	Geometrical product specifications (GPS) – Surface texture: Profile method – Terms, definitions and surface texture parameters	EN ISO 4287	1998
			+ A1	2009
ISO 4892-2	2013	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps	EN ISO 4892-2	2013
ISO 4998	2014	Continuous hot-dip zinc-coated and zinc-iron alloy-coated carbon sheet steel of structural quality	-	-
ISO 9227	2017	Corrosion tests in artificial atmospheres – Salt spray tests	EN ISO 9227	2017
ISO 14713-1	2017	Zinc coatings - Guidelines and recommendations for the protection against corrosion of iron and	EN ISO 14713-1	2017

EN IEC 61914:2021 (E)

Publication	Year	Title	EN/HD	Year
		steel in structures - Part 1: General principles of design and corrosion resistance		
ISO 14713-2	2019	Zinc coatings - Guidelines and recommendations for the protection against corrosion of iron and steel in structures - Part 2: Hot dip galvanizing	EN ISO 14713-2	2020
-	-	Continuously hot-dip coated steel flat products for cold forming - Technical delivery conditions	EN 10346	2015

Annex ZZ
(informative)

Relationship between this European Standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European Standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(1)(a)	Clause 7 Marking and documentation	
(1)(b)	Clause 4 General requirements Clause 7 Marking and documentation Clause 8 Construction Clause 9 Mechanical properties	
(1)(c)	Clause 3 Terms, definitions and abbreviations Clause 4 General requirements	
(2)(a)	Not applicable	Cable cleats do not carry current and are not connected to any live parts. Risk assessment shows there is no danger from direct or indirect contact.
(2)(b)	Not applicable	Cable cleats do not carry current and are not connected to any live parts. Risk assessment shows there is no danger from temperature, arcs or radiation.

(2)(c)	Clause 4 General requirements Clause 8 Construction Clause 9 Mechanical properties Clause 10 Fire Hazards Clause 11 Environmental influences Clause 12 Electromagnetic compatibility	
(2)(d)	Not applicable	Cable cleats do not carry current and are not connected to any live parts. Risk assessment shows that there is no need for insulation.
(3)(a)	Clause 4 General requirements Clause 8 Construction Clause 9 Mechanical properties	
(3)(b)	Clause 10 Fire Hazards Clause 11 Environmental influences Clause 12 Electromagnetic compatibility	
(3)(c)	Subclause 9.5 Test for resistance to electromagnetic force	

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

IEC 61914

Edition 3.0 2021-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Cable cleats for electrical installations

Brides de câbles pour installations électriques

IEC 61914:2021-10(en-fr)

IEC 61914

Edition 3.0 2021-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Cable cleats for electrical installations

Brides de câbles pour installations électriques

INTERNATIONAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CABLE CLEATS FOR ELECTRICAL INSTALLATIONS

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 61914 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories. It is an International Standard.

This third edition cancels and replaces the second edition published in 2015. This edition constitutes a technical revision.

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

a) requirements for mandrels used in testing rationalised and detailed in the general test requirements (Clause 5);
b) definition of liner added and test requirements where liners and other optional parts are used;
c) definitions for LV, MV and HV cables added and test requirements where MV & HV cable are used ;
d) new corrosion resistance classes for plated products added;
e) new requirements and test for durability and legibility of markings added;
f) new test requirements for axial load testing of cleats for more than one cable added;

g) lateral load test requirements for intermediate restraints added.

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

FDIS	Report on voting
23A/976/FDIS	23A/982/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.

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/standardsdev/publications.

In this standard, the following print types are used:

– requirements proper: in roman type;

– *test specifications: in italic type*;

– notes: in smaller roman type.

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.

IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

CABLE CLEATS FOR ELECTRICAL INSTALLATIONS

1 Scope

This International Standard specifies requirements and tests for cable cleats used for securing cables in electrical installations and for intermediate restraints used for holding cables together in formation in electrical installations. Cable cleats provide resistance to electromechanical forces where declared. This document includes cable cleats that rely on a mounting surface specified by the manufacturer for axial and/or lateral retention of cables.

Various types of cable cleats and intermediate restraints are shown in Annex A.

NOTE Requirements for manufacturers in this document also apply to importers and responsible vendors where appropriate.

This document does not apply to cable ties.

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 60060-1:2010, *High-voltage test techniques – Part 1: General definitions and test requirements*

IEC 60502-1, *Power cables with extruded insulation and their accessories for rated voltages from 1 kV (U_m = 1,2 kV) up to 30 kV (U_m = 36 kV) – Part 1: Cables for rated voltages of 1 kV (U_m = 1,2 kV) and 3 kV (U_m = 3,6 kV)*

IEC 60695-11-5, *Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance*

ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods*

ISO 2081, *Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel*

ISO 3575, *Continuous hot dip zinc-coated and zinc-iron alloy-coated carbon steel sheet of commercial and drawing qualities*

ISO 4287, *Geometrical Product Specifications (GPS) – Surface texture: Profile method –Terms, definitions and surface texture parameters*

ISO 4892-2, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps*

ISO 4998, *Continuous hot-dip zinc-coated and zinc-iron alloy-coated carbon steel sheet of structural quality*

ISO 9227, *Corrosion tests in artificial atmospheres – Salt spray tests*

ISO 14713-1, *Zinc coatings – Guidelines and recommendations for the protection against corrosion of iron and steel in structures – Part 1: General principles of design and corrosion resistance*

ISO 14713-2, *Zinc coatings – Guidelines and recommendations for the protection against corrosion of iron and steel in structures – Part 2: Hot dip galvanizing*

EN 10346, *Continuously hot-dip coated steel flat products for cold forming – Technical delivery conditions*