



NSAI
Standards

Irish Standard
I.S. EN 50520:2020&A1:2021

Cover plates and cover tapes for the protection and location warning of buried cables or buried conduits in underground installations

I.S. EN 50520:2020&A1:2021

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50520:2020/A1:2021

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National Foreword

I.S. EN 50520:2020&A1:2021 is the adopted Irish version of the European Document EN 50520:2020, Cover plates and cover tapes for the protection and location warning of buried cables or buried conduits in underground installations

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50520:2020/A1

September 2021

ICS 29.120.10

English Version

**Cover plates and cover tapes for the protection and location
warning of buried cables or buried conduits in underground
installations**

Plaques de protection et bandes de protection utilisées pour
protéger et avertir de la présence des câbles enterrés ou
des conduits enterrés dans les installations souterraines

Abdeckplatten und -bänder zum Schutz und zur
Warnkennzeichnung der Lage von Kabeln oder
erdverlegten Elektroinstallationsrohren in
Unterbodeninstallationen

This amendment A1 modifies the European Standard EN 50520:2020; it was approved by CENELEC on 2021-06-09. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

EN 50520:2020/A1:2021 (E)

European foreword

This document (EN 50520:2020/A1:2021) has been prepared by CLC/TC 213, "Cable management systems".

The following dates are fixed:

- latest date by which this document has to be (dop) 2022-06-09
implemented at national level by publication of
an identical national standard or by
endorsement
- latest date by which the national standards (dow) 2023-09-14
conflicting with this document have to be
withdrawn

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 mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(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.

1 Modification to Clause 2, “Normative references”

Replace the normative references IEC 60417 and ISO 3864 (series) with the following:

“

IEC 60417:2002 DB, *Graphical symbols for use on equipment*

ISO 3864-1:2011, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*

ISO 3864-2:2016, *Graphical symbols — Safety colours and safety signs — Part 2: Design principles for product safety labels*

ISO 3864-3:2012, *Graphical symbols — Safety colours and safety signs — Part 3: Design principles for graphical symbols for use in safety signs*

ISO 3864-4:2011, *Graphical symbols — Safety colours and safety signs — Part 4: Colorimetric and photometric properties of safety sign materials*

2 Modification to Clause 7, “Marking and documentation”

Replace 7.1 as follows:

“7.1 Cover plates and cover tapes shall be marked with:

- name, sign or trademark of the manufacturer or responsible vendor;
- a product identification mark which may be, for example, a catalogue number, a symbol or the like
- the reference to this document;
- the following notice:
 - a warning, as for example *ATTENTION* or *PRECAUTION*;
 - for the cover plates and cover tapes intended for protection and signalling of electric cables or conduits for electric cables buried underground:

the warning sign for dangerous voltage as specified in IEC 60417:2002 DB (code 5036), inside an advertisement sign as specified on ISO 3864-1:2011, ISO 3864-2:2016, ISO 3864-3:2012 and ISO 3864-4:2011, and the message *ELECTRIC CABLES*;

- for cover plates and cover tapes intended for protecting and indicating the presence of information and communication technology cables or conduits for information and communication technology cables that are buried underground:

an advertisement sign as specified in ISO 3864-1:2011, ISO 3864-2:2016, ISO 3864-3:2012 and ISO 3864-4:2011, and the message *CABLES*.

Cover plates and cover tapes can voluntarily be marked with:

- the trademark or name of either the Supplier electric company or operator of the network.

EN 50520:2020/A1:2021 (E)

- any information regarding the used raw material, as e.g. the recycling mark showing the used material.

NOTE An example of the marks that are on a cover plate or cover tape is given in Annex B.

Compliance is checked by inspection and if necessary by measurement."

3 Modification to Annex ZZ, "Relationship between this European Standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered"

Replace the Annex ZZ with the following:

"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) / subclause(s) of this EN	Remarks / Notes
(1)(a)	Clauses 7 and 8	
(1)(b)	Clauses 5 and 7	
(1)(c)	Clauses 4 and 6 See also 2c), 3a) and 3b) below	
(2)(a)		Not applicable. Cover tapes and cover plates do not carry any current, so there is no danger by direct contact. Cover tapes and cover plates are not in contact with live parts, so there is no danger by indirect contact
(2)(b)		Not applicable Cover tapes and cover plates do not carry any current and they cannot produce heat, arcs or radiation.

Safety objectives of Directive 2014/35/EU	Clause(s) / subclause(s) of this EN	Remarks / Notes
(2)(c)	Clauses 5, 8, 9 and 10	Emissions, production and/or use of hazardous substances not covered in this standard (but covered in other regulations/standards, e.g. RoHS)
(2)(d)		Not applicable. Cover tapes and cover plates do not carry any current, and therefore insulation is not required
(3)(a)	Clauses 5 and 10	
(3)(b)	Clauses 5 and 10	
(3)(c)		Risk assessment shows foreseeable conditions of overload are not of concern.

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.”

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50520

October 2020

ICS 29.120.10

Supersedes EN 50520:2009 and all of its amendments
and corrigenda (if any)

English Version

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warning of buried cables or buried conduits in underground
installations**

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protéger et avertir de la présence des câbles enterrés ou
des conduits enterrés dans les installations souterraines

Abdeckplatten und -bänder zum Schutz und zur
Warnkennzeichnung der Lage von Kabeln oder
erdverlegten Elektroinstallationsrohren in
Unterbodeninstallationen

This European Standard was approved by CENELEC on 2020-09-14. 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.

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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

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European foreword

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implemented at national level by publication of
an identical national standard or by
endorsement
- latest date by which the national standards (dow) 2023-09-14
conflicting with this document have to be
withdrawn

This document supersedes EN 50520:2009 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.

A cover plate or a cover tape that conforms to this document is deemed to be safe for use.

This is a European Standard for cable management products used for electro-technical purposes. It relates to the Council Directives on the approximation of laws, regulations and administrative provisions of the Member States relating to Low Voltage Directive 2014/35/EU through consideration of the essential requirements of this directive.

This document is supported by separate standards to which references are made.

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

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

1 Scope

This document establishes the requirements and tests for cover plates and cover tapes used for the mechanical protection, identification and warning of the location of buried cables or buried conduits.

NOTE This document does not apply to meshes and tapes falling under EN 12613.

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 60417, *Graphical symbols for use on equipment*

ISO 3864 (series), *Graphical symbols — Safety colours and safety signs*

3 Terms and definitions

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

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

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

3.1

cover plate

plate with a defined length and width that are linked one to another and are located underground, above the cables and/or conduits that are intended:

- to protect against mechanical damage to the underground cables and/or conduit installations; and
- to identify in a prominent manner the location of the underground cables and/or conduit installations along their length and width

3.2

cover tape

tape with a defined width that are located underground, above the cables and/or conduits and that are intended:

- to protect against mechanical damage to the underground cables and/or conduit installations; and
- to identify in a prominent manner the location of the underground cables and/or conduit installations along their length and width

3.3

hygroscopic material

material having the characteristic of enabling attraction or holding water greater than 1,0 % by weight of the material from the surrounding environment at 23 °C and 50 % relative humidity

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