



NSAI
Standards

Irish Standard
I.S. EN 50575:2014&A1:2016

Power, control and communication cables -
Cables for general applications in
construction works subject to reaction to fire
requirements

I.S. EN 50575:2014&A1:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50575:2014/A1:2016

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

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National Foreword

I.S. EN 50575:2014&A1:2016 is the adopted Irish version of the European Document EN 50575:2014, Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

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

Compliance with this document does not of itself confer immunity from legal obligations.

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EUROPEAN STANDARD

EN 50575:2014/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2016

ICS 29.060.20; 13.220.50

English Version

Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

Câbles d'énergie, de commande et de communication - Câbles pour applications générales dans les ouvrages de construction soumis aux exigences de réaction au feu

Starkstromkabel und -leitungen, Steuer- und Kommunikationskabel - Kabel und Leitungen für allgemeine Anwendungen in Bauwerken in Bezug auf die Anforderungen an das Brandverhalten

This amendment A1 modifies the European Standard EN 50575:2014; it was approved by CENELEC on 2016-03-24. 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, 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: Avenue Marnix 17, B-1000 Brussels

EN 50575:2014/A1:2016

Contents

Page

European foreword	3
1 Modifications to the Foreword.....	4
2 Modification to ZZ.2.1, Systems of AVCP	4

European foreword

This document (EN 50575:2014/A1:2016) has been prepared by CLC/TC 20 “Electric cables”.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-03-24
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2019-03-24

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

This document has been prepared under a mandate given to CEN-CENELEC by the European Commission and the European Free Trade Association, and supports EU Regulation.

For the relationship with EU Regulation see informative Annex ZZ, which is an integral part of EN 50575:2014.

In its relation to European legislation this standard only covers essential characteristics covered by Regulation EU 305/2011. Additional relevant Directives and Regulations (for instance LVD) may be applicable and impose supplementary requirements.

EN 50575:2014/A1:2016**1 Modifications to the Foreword**

Replace "Foreword" with "European Foreword".

Replace the three last paragraphs of the Foreword:

"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.

Performance characteristics other than those covered by the standard may be subject to the provisions of other relevant directives and Regulations, for example the Low Voltage directive (2006/95/EC)."

with the following new paragraphs:

"This document has been prepared under a mandate given to CEN-CENELEC by the European Commission and the European Free Trade Association, and supports EU Regulation.

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

In its relation to European legislation this standard only covers essential characteristics covered by Regulation EU 305/2011. Additional relevant Directives and Regulations (for instance LVD) may be applicable and impose supplementary requirements."

2 Modification to ZZ.2.1, Systems of AVCP

Replace Table ZZ.2 ("Systems of AVCP"), with the following one (in which the additional line "For uses subject to regulations on dangerous substances" and the related AVCP system 3 were added):

"

Product	Intended use	Levels or classes of performance	AVCP system(s)
Power, control and communication cables	For uses subject to regulations on reaction to fire	A _{ca} , B1 _{ca} , B2 _{ca} , C _{ca} ,	1+
		D _{ca} , E _{ca} ,	3
		F _{ca}	4
	For uses subject to regulations on dangerous substances		3
System 1+: See Regulation (EU) No. 305/2011 (CPR) Annex V,1.1 as amended. System 3: See Regulation (EU) No. 305/2011 (CPR) Annex V,1.4 as amended. System 4: See Regulation (EU) No. 305/2011 (CPR) Annex V,1.5 as amended.			

"

EUROPEAN STANDARD

EN 50575

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2014

ICS 13.220.50; 29.060.20

English Version

Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

Câbles d'énergie, de commande et de communication - Câbles pour applications générales dans les ouvrages de construction soumis aux exigences de réaction au feu

Starkstromkabel und -leitungen, Steuer- und Kommunikationskabel - Kabel und Leitungen für allgemeine Anwendungen in Bauwerken in Bezug auf die Anforderungen an das Brandverhalten

This European Standard was approved by CENELEC on 2014-08-11. 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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Contents

Page

Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Product characteristics	5
4.1 Reaction to fire	5
4.2 Release of dangerous substances	5
5 Test methods for reaction to fire classes	6
6 Assessment and verification of constancy of performance - AVCP	6
6.1 General	6
6.2 Type testing	6
6.3 Factory production control (FPC)	7
7 Marking, labelling and packaging	12
7.1 Marking	12
7.2 Form of marked elements	13
7.3 Legibility of marking	13
Annex ZZ (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation	14
ZZ.1 Scope and relevant characteristics	14
ZZ.2 Procedures for AVCP of power, control and communication cables	14
ZZ.2.1 Systems of AVCP	14
ZZ.2.2 Declaration of performance (DoP)	16
ZZ.3 CE marking and labelling	19
Bibliography	23
Figure ZZ.1 – Example of CE marking information on the product label for products subject to AVCP system 1+	20
Figure ZZ.2 – Example of CE marking information on the product label for products subject to AVCP system 3	21
Figure ZZ.3 – Example of CE marking information on the product label for products subject to AVCP system 4	22
Table 1 – Test methods for reaction to fire classes	6
Table ZZ.1 – Relevant clauses for power, control and communication cables to be used for the supply of electricity and communications	14
Table ZZ.2—Systems of AVCP	15
Table ZZ.3.1 – Assignment of AVCP tasks for the power, control and communication cables under system 1+	15
Table ZZ.3.2 – Assignment of AVCP tasks for the power, control and communication cables under system 3	16
Table ZZ.3.3 – Assignment of AVCP tasks for the power, control and communication cables under system 4	16

Foreword

This document (EN 50575:2014) has been jointly prepared by CLC/TC 20 "Electric cables", CLC/TC 46X "Communication cables" and its sub-committees and CLC/TC 86A "Optical fibres and optical fibre cables".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-08-11
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-08-11

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Performance characteristics other than those covered by the standard may be subject to the provisions of other relevant directives and Regulations, for example the Low Voltage directive (2006/95/EC).

EN 50575:2014

– 4 –

1 Scope

This European Standard specifies reaction to fire performance requirements, test and assessment methods for electric cables used for the supply of electricity and for control and communication purposes, which are intended for use in construction works and subject to performance requirements on reaction to fire.

The cables covered by this standard are intended to be used for the supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Cables intended to be used for the supply of electricity, communication, and fire detection and alarm in buildings and other civil engineering works where it is essential to assure the continuity of power and/or signal supply of safety installations such as alarm, way guidance and fire fighting installations are not covered by this standard.

NOTE This European Standard does not replace the electrical, mechanical and environmental requirements that are essential to demonstrate compliance with other applicable cable standards/specifications.

This European Standard covers:

- power cables – insulated conductors and cables for use in, e.g. the supply of electricity;
- control and communication cables – wires, symmetric cables, and coaxial cables with metallic conductors for use in, e.g. telecommunication, data transmission, radio frequency, video communication and signalling and control equipment;
- optical fibre cables – for use in, e.g. telecommunication, data transmission, radio frequency, video communication and signalling and control equipment.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13501-6, *Fire classification of construction products and building elements — Part 6: Classification using data from reaction to fire tests on electric cables*

EN 50399, *Common test methods for cables under fire conditions — Heat release and smoke production measurement on cables during flame spread test — Test apparatus, procedures, results*

EN 60332-1-2, *Tests on electric and optical fibre cables under fire conditions — Part 1-2: Test for vertical flame propagation for a single insulated wire or cable — Procedure for 1 kW pre-mixed flame (IEC 60332-1-2)*

EN 60754-2, *Test on gases evolved during combustion of materials from cables — Part 2: Determination of acidity (by pH measurement) and conductivity (IEC 60754-2)*

EN 61034-2, *Measurement of smoke density of cables burning under defined conditions — Part 2: Test procedure and requirements (IEC 61034-2)*

EN ISO 1716, *Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value) (ISO 1716)*

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