



NSAI
Standards

Irish Standard
I.S. HD 60364-5-52:2011

Low-voltage electrical installations --
Part 5-52: Selection and erection of
electrical equipment - Wiring systems
(IEC 60364-5-52:2009 (MOD) +
corrigendum Feb. 2011 (EQV))

I.S. HD 60364-5-52:2011

Incorporating amendments/corrigenda issued since publication:

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

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i> HD 384.5.52 S1:1995 + A1:1998 and HD 384.5.523 S2:2001	<i>This document is based on:</i> HD 60364-5-52:2011	<i>Published:</i> 25 February, 2011
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English version

**Low-voltage electrical installations -
Part 5-52: Selection and erection of electrical equipment -
Wiring systems**

(IEC 60364-5-52:2009, modified + corrigendum Feb. 2011)

Installations électriques à basse-tension -
Partie 5-52: Choix et mise en oeuvre des
matériels électriques -
Canalisations
(CEI 60364-5-52:2009, modifiée +
corrigendum Feb. 2011)

Errichten von Niederspannungsanlagen -
Teil 5-52: Auswahl und Errichtung
elektrischer Betriebsmittel -
Kabel- und Leitungsanlagen
(IEC 60364-5-52:2009, modifiziert +
corrigendum Feb. 2011)

This Harmonization Document was approved by CENELEC on 2011-01-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

Up-to-date lists and bibliographical references concerning such national implementations may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

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Foreword

The text of the International Standard IEC 60364-5-52:2009, prepared by IEC TC 64, Electrical installations and protection against electric shock, together with common modifications prepared by the Technical Committee CENELEC TC 64, Electrical installations and protection against electric shock, was submitted to the formal vote and was approved by CENELEC as HD 60364-5-52 on 2011-01-24.

This European Standard supersedes HD 384.5.52 S1:1995 + A1:1998 and HD 384.5.523 S2:2001.

The main changes with respect to HD 384.5.52 S1:1995 + A1:1998 are as follows:

- Subclause 521.4 introduces minor changes with regard to busbar trunking systems and powertrack systems.
- Subclause 523.6 introduces minor changes with regard to the sizing of cables where harmonic currents are present.
- A new subclause 523.9 concerning single-core cables with a metallic covering has been introduced.
- Clause 525 introduces changes in the maximum value of voltage drop permitted between the origin of the consumer's installation and the equipment which should not be greater than that given in the relevant annex.
- Clause 526 introduces minor changes to electrical connections including additional exceptions for inspection of connections and additional notes.
- Clause 528 introduces additional requirements with regard to proximity of underground power and telecommunication cables.
- Clause 529 introduces minor changes to selection and erection of wiring systems in relation to maintainability, including cleaning.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 2011-07-24
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2012-01-24
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 2014-01-24

Endorsement notice

The text of the International Standard IEC 60364-5-52:2009 was approved by CENELEC as a Harmonization Document with agreed common modifications as given below.

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

IEC 60332-3 series	NOTE Harmonized in EN 60332-3 series (partially modified).
IEC 60332-3-24	NOTE Harmonized as EN 60332-3-24.
IEC 60364-4-43:2008	NOTE Harmonized as HD 60364-4-43:2010 (modified).
IEC 60364-5-51:2005	NOTE Harmonized as HD 60364-5-51:2009 (modified).
IEC 60364-7-715	NOTE Harmonized as HD 60364-7-715.

IEC 61000 series	NOTE Harmonized in EN 61000 series (partially modified).
IEC 61386-24	NOTE Harmonized as EN 61386-24.
IEC 61535	NOTE Harmonized as EN 61535.
IEC 62305 series	NOTE Harmonized in EN 62305 series (partially modified).

COMMON MODIFICATIONS

521.9.1

Add the following note:

NOTE Insulated flexible conductors or cores according to HD 516 may also be used as fixed installation.

528.2

Add the following new paragraph:

"In the case of proximity between cable distribution systems for radio and television signals and power line systems, EN 50083 should be considered."

528.2

Add the following note:

NOTE For the connection of combined socket-outlets for telecommunication (also aerial) and power line systems, EN 41003 should be considered.

Annex A - Table A.52.2 – Erection of wiring systems

Delete Table A.52.2.

Annex B - Table B52-18 – Current-carrying capacities

Table B.52.18, right column, line Number of circuits 16, change from 0.38 to 0.68.

Annex D - Formulae to express current-carrying capacities

Delete Annex D.

Add Annexes ZA to ZC below.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60228	-	Conductors of insulated cables	EN 60228	-
IEC 60287	Series	Electric cables - Calculation of the current rating	-	-
IEC 60287-2-1	-	Electric cables - Calculation of the current rating - Part 2-1: Thermal resistance - Calculation of thermal resistance	-	-
IEC 60287-3-1	-	Electric cables - Calculation of the current rating - Part 3: Sections on operating conditions - Section 1: Reference operating conditions and selection of cable type	-	-
IEC 60332-1-1	-	Tests on electric and optical fibre cables under fire conditions - Part 1-1: Test for vertical flame propagation for a single insulated wire or cable - Apparatus	EN 60332-1-1	-
IEC 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	EN 60332-1-2	-
IEC 60364-1 (mod)	2005	Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions	HD 60364-1	2008
IEC 60364-4-41 (mod)	2005	Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock	HD 60364-4-41 + corr. July	2007 2007
IEC 60364-4-42	-	Low voltage electrical installations - Part 4-42: Protection for safety - Protection against thermal effects	HD 60364-4-42	-
IEC 60364-5-54 (mod)	-	Electrical installations of buildings - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements, protective conductors and protective bonding conductors	HD 60364-5-54	-

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