



NSAI
Standards

Irish Standard
I.S. EN 50565-2:2014

Electric cables - Guide to use for cables with a rated voltage not exceeding 450/750 V (U0/U) -- Part 2: Specific guidance related to EN 50525 cable types

I.S. EN 50565-2:2014

Incorporating amendments/corrigenda/National Annexes 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.

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EN 50565-2

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Supersedes HD 516 S2:1997 (partially) + A1:2003 (partially) + A2:2008 (partially)

English version

**Electric cables -
Guide to use for cables with a rated voltage not exceeding 450/750 V
(U_0/U) -
Part 2: Specific guidance related to EN 50525 cable types**

Câbles électriques -
Guide d'emploi des câbles avec une
tension assignée n'excédant pas 450/750
V (U_0/U) -
Partie 2: Lignes directrices spécifiques
concernant les types de câbles de l'EN
50525

Kabel und Leitungen -
Leitfaden für die Verwendung von Kabeln
und isolierten Leitungen mit einer
Nennspannung nicht über 450/750 V
(U_0/U) - Teil 2: Aufbaudaten und
Einsatzbedingungen der Kabel- und
Leitungsbauarten nach EN 50525

This European Standard was approved by CENELEC on 2014-02-17. 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.

This European Standard 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.

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CENELEC

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Contents

Page

Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Specific cable types	6
Annex A (informative) Clarification of terms used in tables not defined elsewhere	54
Annex B (informative) Relationship between cable product standards, cable codes and this European Standard	56
Table 1A – Cables conforming to EN 50525-2-11 – Constructional details and limiting conditions	8
Table 1B – Cables conforming to EN 50525-2-11 – Specific guidance for use	10
Table 2A – Cables conforming to EN 50525-2-12 – Constructional details and limiting conditions	11
Table 2B – Cables conforming to EN 50525-2-12 – Specific guidance for use	12
Table 3A – Cables conforming to EN 50525-2-21, Clauses 4 and 5 – Constructional details and limiting conditions	13
Table 3B – Cables conforming to EN 50525-2-21, Clauses 4 and 5 – Specific guidance for use	15
Table 4A – Cables conforming to EN 50525-2-21, Clauses 6, 7 and 8 – Constructional details and limiting conditions	16
Table 4B – Cables conforming to EN 50525-2-21, Clauses 6, 7 and 8 – Specific guidance for use	18
Table 5A – Cables conforming to EN 50525-2-22 – Constructional details and limiting conditions	20
Table 5B – Cables conforming to EN 50525-2-22 – Specific guidance for use	21
Table 6A – Cables conforming to EN 50525-2-31, Clause 4 – Constructional details and limiting conditions	22
Table 6B – Cables conforming to EN 50525-2-31, Clause 4 – Specific guidance for use	23
Table 7A – Cables conforming to EN 50525-2-31, Clause 5 – Constructional details and limiting conditions	24
Table 7B – Cables conforming to EN 50525-2-31, Clause 5 – Specific guidance for use	25
Table 8A – Cables conforming to EN 50525-2-41 – Constructional details and limiting conditions	26
Table 8B – Cables conforming to EN 50525-2-41 – Specific guidance for use	27
Table 9A – Cables conforming to EN 50525-2-42 – Constructional details and limiting conditions	28
Table 9B – Cables conforming to EN 50525-2-42 – Specific guidance for use	29
Table 10A – Cables conforming to EN 50525-2-51 – Constructional details and limiting conditions	30
Table 10B – Cables conforming to EN 50525-2-51 – Specific guidance for use	32
Table 11A – Cables conforming to EN 50525-2-71 – Constructional details and limiting conditions	33

Table 11B – Cables conforming to EN 50525-2-71 – Specific guidance for use	34
Table 12A – Cables conforming to EN 50525-2-72 – Constructional details and limiting conditions	35
Table 12B – Cables conforming to EN 50525-2-72 – Specific guidance for use	36
Table 13A – Cables conforming to EN 50525-2-81 – Constructional details and limiting conditions	37
Table 13B – Cables conforming to EN 50525-2-81 – Specific guidance for use	38
Table 14A – Cables conforming to EN 50525-2-82 – Constructional details and limiting conditions	39
Table 14B – Cables conforming to EN 50525-2-82 – Specific guidance for use	40
Table 15A – Cables conforming to EN 50525-2-83 – Constructional details and limiting conditions	41
Table 15B – Cables conforming to EN 50525-2-83 – Specific guidance for use	43
Table 16A – Cables conforming to EN 50525-3-11 – Constructional details and limiting conditions	44
Table 16B – Cables conforming to EN 50525-3-11 – Specific guidance for use	46
Table 17A – Cables conforming to EN 50525-3-21 – Constructional details and limiting conditions	47
Table 17B – Cables conforming to EN 50525-3-21 – Specific guidance for use	49
Table 18A – Cables conforming to EN 50525-3-31 – Constructional details and limiting conditions	50
Table 18B – Cables conforming to EN 50525-3-31 – Specific guidance for use	51
Table 19A – Cables conforming to EN 50525-3-41 – Constructional details and limiting conditions	52
Table 19B – Cables conforming to EN 50525-3-41 – Guide to use	53
Table B.1 – Cross-reference by cable standard.....	56
Table B.2 – Cross-reference by harmonised cable code.....	58

Foreword

This document (EN 50565-2:2014) 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) 2015-02-17
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-02-17

This document together with Part 1 supersedes HD 516 S2:1997.

EN 50565-1:2014 and EN 50565-2:2014 includes the following significant technical changes with respect to HD 516 S2:1997:

Both parts of EN 50565 refer to cable types specified in EN 50525, replacing the reference to the HD21 and HD22 cable types. Part 1 provides general recommendations and guidance, Part 2 covers specific guidance for each cable type in EN 50525, like designation, constructional details, recommendations for installation, conditions and limits of operation, temperature limits and recommended use/suitability. This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

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.

Introduction

This European Standard provides guidance for equipment manufacturers, installers and end-users on the properties of low voltage electric cables, and the limitations that are deemed to be necessary in order to safeguard life, buildings, and goods. It also gives a reasonable certainty on cable life time expectation relevant to its application, i.e. the duration of acceptable performance considered as reasonable for a cable used in a fixed installation for the distribution of electricity in a building is more than that for flexible cable.

The information is given in the form of limiting values and is illustrated by examples, which are not exhaustive but which indicate ways by which safety can be obtained.

It is not possible to cover all the uses for which the installers or users may wish to use a specific type of cable. The use other than the recommended ones could result in a lowering of safety and/or in a reduction in the expected life of the cable. If a cable is intended to be used outside of the recommended uses, the cable manufacturer should be consulted for advice.

This European Standard is to be read in conjunction with EN 50565-1:2014, which gives general recommendations and guidance.

Additional information on installation practice is given in the HD 384/HD 60364 series of specifications, and national regulations/codes of practice.

1 Scope

This European Standard provides guidance to help installers, cabling designers and end users to understand the characteristics of electric cables with a rated voltage not exceeding 450/750 V (U_0/U) or equivalent d.c. voltages, so that the cable can be selected, installed and operated in a safe way. It is applicable to those cable types that are specified in EN 50525 (all parts).

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 50525 (all parts), *Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U_0/U)*

EN 50565-1:2014, *Electric cables – Guide to use for cables with a rated voltage not exceeding 450/750 V – Part 1: General guidance*

HD 384/HD 60364 (all parts), *Electrical installations of buildings / Low-voltage electrical installations (IEC 60364, all parts)*

IEC 60050-461, *International Electrotechnical Vocabulary – Electric cables*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50565-1:2014, IEC 60050-461 and HD 384/HD 60364 series apply.

Further information on the terms used in the following tables may be found in Annex A.

4 Specific cable types

Specific guidance for each cable type is organised in tabular format.

There are two tables for each cable type.

a) Table A for each relevant cable shows:

- harmonised designations,
- constructional details for the cable,
- recommendations for installation (fixed cable types) or conditions and limits of operation (flexible cables),
- recommended temperature limits.

b) Table B for each relevant cables shows:

- recommended use,
- comments about limitations and suitability,

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