

**Juhtmed ja kaablid. Juhis tugevoolujuhtmete ja -
kaablite nimipingega kuni 450/750 V (U_0/U)
kasutamiseks. Osa 2: Erijuhis standardis EN 50525
käsitletud juhtme- ja kaabliliikidele**

**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**

EESTI STANDARDI EESSÕNA

See Eesti standard EVS-EN 50565-2:2014 sisaldab Euroopa standardi EN 50565-2:2014 ingliskeelset teksti.

Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.

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NATIONAL FOREWORD

This Estonian standard EVS-EN 50565-2:2014 consists of the English text of the European standard EN 50565-2:2014.

This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.

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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

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-02-17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,