SLOVENSKI STANDARD
SIST EN 50483-1:2026

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Zahteve za preskušanje pribora za nizkonapetostne izolirane nadzemne kable - 1. del: Glavne točke

Test requirements for low voltage aerial bundled cable accessories - Part 1: Generalities

Prüfanforderungen für Bauteile für isolierte Niederspannungsfreileitungen - Teil 1: Allgemeines

Prescriptions relatives aux essais des accessoires pour réseaux aériens basse tension torsadés - Partie 1: Généralités

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English Version

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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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European Committee for Electrotechnical Standardization
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European foreword

This document (EN 50483-1:2026) has been prepared by WG 11 of 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) 2027-04-30
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2029-04-30

This document supersedes EN 50483-1:2009 and all of its amendments and corrigenda (if any).

EN 50483-1:2026 includes the following significant technical changes with respect to EN 50483-1:2009:

— Scope was extended to brackets.

This is Part 1 of CENELEC standard EN 50483 “Test requirements for low voltage aerial bundled cable accessories”, which has six parts:

— Part 1: Generalities;

— Part 2: Tension and suspension clamps, fittings and brackets for self supporting system;

— Part 3: Tension and suspension clamps for neutral messenger system;

— Part 4: Connectors;

— Part 5: Electrical ageing test;

— Part 6: Environmental testing.

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.

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.

Introduction

The objective of the EN 50483 series is to provide a method of testing the suitability of accessories when used under normal operating conditions with low voltage aerial bundled cables (ABC) complying with HD 626.

There is variation between the different ABC specifications provided by HD 626, and tests carried out on one of the ABC types may not be completely applicable to ABC of a different specification. Therefore, the purchasers of accessories tested to this European Standard, should ensure that all their requirements are met.

Climate differs across Europe and in order to meet the differing geographic climatic conditions it is necessary to provide a range of tests to meet these variations. A range of optional, additional tests is provided to meet the varying climatic needs and these should be agreed between the customer and the manufacturer and/or the supplier see Annex C in EN 50483-6:2026).

This European Standard does not invalidate existing approvals of products achieved on the basis of national standards and specifications and/or the demonstration of satisfactory service performance. However, products approved according to such national standards or specifications cannot directly claim approval to this European Standard. It may be possible, subject to agreement between the customer and the manufacturer and/or the supplier, and/or the relevant conformity assessment body, to demonstrate that conformity to the earlier standard can be used to claim conformity to this standard, provided an assessment is made of any additional type testing that may need to be carried out. Any such additional testing that is part of a sequence of testing cannot be done separately.

1 Scope

The EN 50483 series applies to overhead line fittings for tensioning, supporting and connecting aerial bundled cables (ABC) of rated voltage U_0/U (U_m): 0,6/1 (1,2) kV.

The purpose of this Part 1 is to define the common aspects of the products included in the above scope.

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.

EN 50483 (all parts), *Test requirements for low voltage aerial bundled cable accessories*

EN 60068-1:2014, *Environmental testing - Part 1: General and guidance (IEC 60068-1:1988 + corrigendum Oct. 1988 +A1:1992)*

HD 626, Overhead distribution cables of rated voltage $U_o/U(U_m)$: 0,6/1 (1,2) kV

IEC 60050-461, *International Electrotechnical Vocabulary (IEV) – Part 461: Electric cables*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-461 and the following apply.

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

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/

3.1
adiabatic
occurring with no addition or loss of heat from the system under consideration

3.2
aerial bundled cable (ABC)
aerial cable consisting of a group of insulated conductors which are twisted together including, or not, a non insulated conductor

Note 1 to entry: The terms bundled conductors, bundled cables, bundled cores, conductor bundles and bundle could be used as equivalent to the term aerial bundled cable (ABC).

[SOURCE: IEV 461-08-02, modified]

3.3
aerial-insulated-cable
insulated cable designed to be suspended overhead and outdoors

[SOURCE: IEV 461-08-01]

3.4
angle of deviation
complementary angle to the angle defined by the two parts of the cable on both sides of the suspension clamp