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Zahteve za preskušanje pribora za nizkonapetostne izolirane nadzemne kable - 3. del: Napenjalne in vzmetne objemke za sisteme z nosilnim nevtralnim vodnikom

Test requirements for low voltage aerial bundled cable accessories - Part 3: Tension and suspension clamps for neutral messenger system

Prüfanforderungen für Bauteile für isolierte Niederspannungsfreileitungen - Teil 3: Abspann- und Tragklemmen für Systeme mit Nullleiter-Tragseil

Prescriptions relatives aux essais des accessoires pour réseaux aériens basse tension torsadés - Partie 3: Matériels d'ancrage et de suspension pour réseaux aériens en conducteurs isolés torsadés avec neutre porteur

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EUROPEAN STANDARD
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April 2026

ICS 29.240.20

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English Version

**Test requirements for low voltage aerial bundled cable
accessories - Part 3: Tension and suspension clamps, fittings
and brackets for neutral messenger system**

Prescriptions relatives aux essais des accessoires pour
réseaux aériens basse tension torsadés - Partie 3:
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Prüfanforderungen für Bauteile für isolierte
Niederspannungsfreileitungen - Teil 3: Abspann- und
Tragklemmen für Systeme mit Nullleiter-Tragseil

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EN 50483-3:2026 (E)**European foreword**

This document (EN 50483-3:2026) 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) 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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2029-04-30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 50483-3:2009 and all of its amendments and corrigenda (if any).

EN 50483-3:2026 includes the following significant technical changes with respect to EN 50483-3:2009:

- Scope was extended to brackets.

This is Part 3 of the EN 50483 series “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, fittings and brackets for neutral messenger system;
- Part 4: Connectors;
- Part 5: Electrical ageing test;
- Part 6: Environmental testing.

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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 S2.

This document 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 document. 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 document, provided an assessment is made of any additional type testing that might need to be carried out. Any such additional testing that is part of a sequence of testing cannot be done separately.

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EN 50483-3:2026 (E)

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.

This document applies to tensioning devices consisting of tension and suspension clamps, and tension and suspension assemblies used for the installation of ABC with either insulated or bare neutral messenger.

The tension and suspension clamps are designed to be installed on neutral conductors of ABC defined in HD 626 S2.

Tests described in this document are type tests.

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 50483-1:2026, *Test requirements for low voltage aerial bundled cable accessories — Part 1: Generalities*

EN 50483-2:2026, *Test requirements for low voltage aerial bundled cable accessories — Part 2: Tension and suspension clamps, fittings and brackets for self-supporting system*

EN 50483-6:2026, *Test requirements for low voltage aerial bundled cable accessories — Part 6: Environmental testing*

HD 626 S2:2025, *Overhead distribution cables of rated voltage $U_0/U(U_m)$: 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

aerial bundled cable

ABC

aerial cable consisting of a group of insulated conductors which are twisted together including, or not, a non-insulated conductor

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

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).

3.2

aerial insulated cable

insulated cable designed to be suspended overhead and outdoors

[SOURCE: IEC 461-08-01]

3.3**angle of deviation**

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

3.4**clamp bolt**

bolt which tightens two parts of a clamp together

3.5**conductor insulation**

insulation applied on a conductor

[SOURCE: IEC 461-02-02, modified]

3.6**conductor**

<of a cable> part of a cable which has the specific function of carrying current

[SOURCE: IEC 461-01-01]

3.7**core**

assembly comprising conductor and its own insulation

[SOURCE: IEC 461-04-04, modified]

3.8**bracket fitting**

device for attaching ABC tension or/and suspension clamps to a pole or to a wall

3.9**insulation**

<of a cable> insulating materials incorporated in a cable with the specific function of withstanding voltage

[SOURCE: IEC 461-02-01]

3.10**messenger**

wire or rope, the primary function of which is to support the cable in aerial installations, which may be separate from or integral with the cable it supports

[SOURCE: IEC 461-08-03]

3.11**minimum breaking load****MBL**

minimum breaking load of the conductor given by HD 626 S2 or the cable manufacturer if not defined in the standard or minimum breaking load of the clamp given by the clamp manufacturer

3.12**mobile link**

device linking the suspension clamp to the bracket

3.13**neutral messenger system**

aerial insulated system where only the neutral messenger supports the ABC