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

I.S. EN 50483-3:2009

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English version

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

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

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

This European Standard was approved by CENELEC on 2008-12-01. 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 Central Secretariat or to any CENELEC member.

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CENELEC

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

Central Secretariat: avenue Marnix 17, B - 1000 Brussels

Foreword

This European Standard was prepared by a sub-group of WG 11 of the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50483-3 on 2008-12-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-12-01

This is Part 3 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 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.
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1 Scope

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 Part 3 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.

Tests described in this document are type tests.

NOTE 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 supplier and purchaser, 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.

2 Normative references

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.

EN 50483 series, *Test requirements for low voltage aerial bundled cable accessories*

HD 626 S1:1996, *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.

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
[IEV 461-08-02, modified]

NOTE 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
[IEV 461-08-01]

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