BSI Standards Publication

Test requirements for low voltage aerial bundled cable accessories

Part 4: Connectors

bsi.

National foreword

This British Standard is the UK implementation of EN 50483-4:2026. It supersedes BS EN 50483-4:2009, which will be withdrawn on 30 April 2029.

The UK participation in its preparation was entrusted to Technical Committee GEL/20/11, Electric Cable accessories.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

Test requirements for low voltage aerial bundled cable accessories - Part 4: Connectors

Prescriptions relatives aux essais des accessoires pour réseaux aériens basse tension torsadés - Partie 4: Connecteurs

Prüfanforderungen für Bauteile für isolierte Niederspannungsfreileitungen - Teil 4: Verbinder

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

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European foreword

This document (EN 50483-4:2026) 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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2029-04-30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 50483-4:2009 and all of its amendments and corrigenda (if any).

EN 50483-4:2026 includes the following significant technical changes with respect to EN 50483-4:2009:

— Scope was extended to brackets.

This is Part 4 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 might 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.

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 connectors used for the electrical connection of ABC.

The connectors are designed to be installed where either the main and/or branch cable is ABC as defined by 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 50182, *Conductors for overhead lines - Round wire concentric lay stranded conductors*

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

EN 50483-5:2026, *Test requirements for low voltage aerial bundled cable accessories*

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

EN 60529:1991,[1] *Degrees of protection provided by enclosures (IP Code)*

HD 626 S2, *Overhead distribution cables of rated voltage $U_0/U(Um)$: 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: IEV 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).

[1] As impacted by EN 60529:1991/corrigendum May 1993, EN 60529:1991/A1:2000, EN 60529:1991/A2:2013, EN 60529:1991/AC:2016-12 and EN 60529:1991/A2:2013/AC:2019-02.