



BSI Standards Publication

## Test requirements for low voltage aerial bundled cable accessories

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Part 5: Electrical ageing test

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## National foreword

This British Standard is the UK implementation of EN 50483-5:2026. It supersedes BS EN 50483-5:2009, which will be withdrawn on 30 April 2029.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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## EUROPÄISCHE NORM

April 2026

ICS 29.240.20

Supersedes EN 50483-5:2009

English Version

## Test requirements for low voltage aerial bundled cable accessories - Part 5: Electrical ageing test

Prescriptions relatives aux essais des accessoires pour réseaux aériens basse tension torsadés - Partie 5: Essai de vieillissement électrique

Prüfanforderungen für Bauteile für isolierte Niederspannungsfreileitungen - Teil 5: Elektrische Alterungsprüfungen

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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## European foreword

This document (EN 50483-5:2026) 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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2029-04-30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 50483-5:2009 and all of its amendments and corrigenda (if any).

EN 50483-5:2026 includes the following significant technical changes with respect to EN 50483-5:2009:

— Scope was extended to brackets.

This is Part 5 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.

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.

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## 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 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 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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## 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 the connections described in EN 50483-4, including branch connectors, Insulation Piercing Connectors (IPC), pre-insulated lugs (terminals) and through pre-insulated connectors (sleeves).

Two classes of connectors are covered by this document:

- *Class A*: These are connectors intended for electricity distribution or industrial networks in which they can be subjected to short-circuits of relatively high intensity and duration. As a consequence, Class A connectors will be suitable for the majority of applications.
- *Class B*: These are connectors for networks in which overloads or short-circuits are rapidly cleared by the operation of protection devices.

Depending on their application, the connectors are subjected to heat cycles and short-circuit current tests.

*Class A*: the connectors are subjected to heat cycles and short-circuit current tests.

*Class B*: the connectors are subjected to heat cycles only.

The object of this document is to define the heating cycles test methods and requirements which apply to compression through connectors, insulation piercing connectors and all other type of connections for low voltage aerial bundled cables.

## 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 IEC 61238-1-2:2019, *Compression and mechanical connectors for power cables - Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV ( $U_m = 1,2$  kV) tested on insulated conductors (IEC 61238-1-2:2018)*

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