

**Lightning protection components (LPC) - Part 1:
Requirements for connection components**

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NATIONAL FOREWORD

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English version

Lightning Protection Components (LPC)
Part 1: Requirements for connection components

Composants de Protection contre la
Foudre (CPF)
Partie 1: Prescriptions pour les
composants de connexion

Blitzschutzbauteile
Teil 1: Anforderungen für
Verbindungsbauteile

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CENELEC

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

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 81X, Lightning protection.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50164-1 on 1999-08-01.

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) 2000-08-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-08-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes C and D are normative and annexes A, B and E are informative.

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1 Scope

This European Standard specifies the requirements and tests for metallic connection components such as connectors, bonding and bridging components, expansion pieces as well as test joints for Lightning Protection Systems (LPS).

NOTE: Lightning Protection Components (LPC) may also be suitable for use in hazardous conditions such as fire and explosive atmosphere. Regard should be taken of the extra requirements necessary for the components to be installed in such conditions.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this draft European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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|---------------|------|---|
| EN 60068-2-52 | 1996 | Environmental testing -- Part 2: Tests -Test Kb: Salt mist, cyclic (sodium chloride solution) (IEC 60068-2-52:1996) |
| EN ISO 6988 | 1994 | Metallic and other non-organic coatings - Sulphur dioxide test with general condensation of moisture |
| ISO 6957 | 1988 | Copper alloys - Ammonia test for stress corrosion resistance |

3 Definitions

For the purpose of this European Standard, the following definitions apply:

3.1 connection component

Component for the connection of conductors to each other or to metal installations. This also includes bridging component and expansion piece.

3.2 metal installation

Extended metal items in the structure to be protected which may form a path for lightning current, such as pipes, staircases, elevator guide rails, ventilation, heating and air conditioning ducts, and interconnected reinforcing steel.