

SLOVENSKI

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PREDSTANDARD

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Lightning protection components (LPC) -- Part 2: Requirements for conductors and earth electrodes

ICS 91.120.40

Referenčna številka
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EUROPEAN STANDARD

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NORME EUROPÉENNE

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English version

Lightning protection components (LPC)
Part 2: Requirements for conductors and earth electrodes

Composants de protection contre la foudre (CPF)
Partie 2: Caractéristiques des conducteurs et des électrodes de terre

Blitzschutzbauteile
Teil 2: Anforderungen an Leitungen und Erder

This draft amendment prA1, if approved, will modify the European Standard EN 50164-2:2002; it is submitted to CENELEC members for CENELEC enquiry.
Deadline for CENELEC: 2004-11-05

It has been drawn up by Technical Committee CENELEC TC 81X.

If this draft becomes an amendment, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

This draft amendment to the European Standard EN 50164-2:2002 was prepared by the Technical Committee CENELEC TC 81X, Lightning protection. It is submitted to CENELEC enquiry.

Draft for Enquiry

Text of prA1 to EN 50164-2:2002

2 Normative references

Add

EN ISO 1460 1995 Metallic coatings - Hot dip galvanized coatings on ferrous materials - Gravimetric determination of the mass per unit area

4.2 Air-termination conductors, air termination rods and down conductors

Table 1

Replace footnote “c” by

- c The coating should be smooth continuous and free from flux stains with a minimum weight of 350 g/m² for solid round material and 500 g/m² for solid tape material. The coating can be measured in accordance with EN ISO 1460 with a sample length of approximately 200 mm.

Replace the Table 2 by the following table:

Material	Configuration	Maximum electrical resistivity μΩm	Tensile strength	Minimum Elongation
			N/mm ²	%
Copper and tin plated copper	Solid	0,019	200 - 450	7
	Stranded		N/A	N/A
Aluminium	Solid	0,028	≤ 150	15
	Stranded		N/A	N/A
Aluminium alloy	Solid	0,036	120 -280	10
	Stranded		N/A	N/A
Hot dip galvanized steel	Solid	0,15	290 -510	7
	Stranded		N/A	N/A
Stainless steel	Solid	0,80	400 -730	35
	Stranded		N/A	N/A
N/A=not applicable				

Add a footnote below the Table 2:

Minimum length of conductor for testing shall be 250 mm.

4.3 Earth electrodes

Table 3

Replace in line “Copper, Lattice plate” in column “Comments” the information “25 mm x 2 mm section” by

25 mm x 2 mm section for tape and 8 mm diameter for round

Replace in line “Steel, Galvanized lattice plate” in column “Comments” the information “30 mm x 3 mm section” by

30 mm x 3 mm section for tape and 10 mm diameter for round

Replace footnote “c” by

- ^c The coating should be smooth continuous and free from flux stains with a minimum weight of 350 g/m² for solid round material and 500 g/m² for solid tape material. The coating can be measured in accordance with EN ISO 1460 with a sample length of approximately 200 mm.

Add in footnote “e” as a second sentence:

- ^e The coating can be measured using an electronic coating measuring thickness instrument.

Add a footnote “h”

- ^h lattice plate constructed with a minimum total conductor length of 4,8 m.

Replace footnote “f” by

- ^f Shall be embedded in concrete for a minimum depth of 20 mm.

Table 4

Replace the footnote “a” by

- ^a Yield/tensile ratio 0,80 – 0,95

5.2.1 Replace the subclause by:

5.2.1 Bend test for coated conductors

Coated conductors each approximately 500 mm long shall be bent through a radius equal to five times its solid round diameter or five times its solid tape thickness up to an angle of 90°.

After the test, the specimens shall show no sharp edges, cracks or peeling.

Figure 3

Delete “dms” from the left side of the figure.