Conductors for overhead lines - Round wire concentric lay stranded conductors

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 50182:2002 sisaldab Euroopa standardi EN 50182:2001+AC:2004 ingliskeelset teksti. Käesolev dokument on jõustatud 18.12.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 50182:2002 consists of the English text of the European standard EN 50182:2001+AC:2004. This document is endorsed on 18.12.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This European Standard specifies the electrical and mechanical characteristics of round wire concentric lay bare overhead electrical conductors stranded in alternate directions, with or without grease as per prEN 50326, made of one or a combination of any of the following: a) Hard drawn Aluminium as per HD 532 S1 designated AL1 b) Aluminium alloy as per prEN 50183 designated AL2 to AL7 c) ST1A, ST2B, ST3D, ST4A, ST5E, and ST6C designated the grade and class of zinc coated steel wire as per prEN 50189 d) 20SA (grades A and B), 27SA, 30SA, and 40SA designated the class of aluminium-clad steel wire as per EN 61232. Conductors made of zinc coated steel wires only are not included.	**Scope:** This European Standard specifies the electrical and mechanical characteristics of round wire concentric lay bare overhead electrical conductors stranded in alternate directions, with or without grease as per prEN 50326, made of one or a combination of any of the following: a) Hard drawn Aluminium as per HD 532 S1 designated AL1 b) Aluminium alloy as per prEN 50183 designated AL2 to AL7 c) ST1A, ST2B, ST3D, ST4A, ST5E, and ST6C designated the grade and class of zinc coated steel wire as per prEN 50189 d) 20SA (grades A and B), 27SA, 30SA, and 40SA designated the class of aluminium-clad steel wire as per EN 61232. Conductors made of zinc coated steel wires only are not included.

ICS 29.060.10

Võtmesõnad: electric conductors, electrical, electrical prope, electrical properties and phenomena, mechanical properties, overhead line conductors, overhead power lines, packages, packing, round wires, specification (approval), specifications, stranded conductors, testing

EUROPEAN STANDARD **EN 50182**

NORME EUROPÉENNE

EUROPÄISCHE NORM May 2001

ICS 29.060.10 **Incorporates Corrigendum April 2004**

English version

Conductors for overhead lines - Round wire concentric lay stranded conductors

Conducteurs pour lignes aériennes - Conducteurs à brins circulaires, câblés en couches concentriques

Leiter für Freileitungen - Leiter aus konzentrisch verseilten runden Drähten

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CENELEC

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

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Ref. No. EN 50182:2001 E

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 7, Overhead electrical conductors.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50182 on 2000-11-01.

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) 2001-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2003-11-01

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given for information only. In this standard, annexes A, B, C and E are normative and annexes D and F are informative.

The contents of the corrigendum of April 2004 have been included in this copy.

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1 Scope

This European Standard specifies the electrical and mechanical characteristics of round wire concentric lay bare overhead electrical conductors stranded in alternate directions, with or without grease as per EN 50326, made of one or a combination of any of the following:

a) Hard drawn Aluminium as per EN 60889 designated AL1

b) Aluminium alloy as per EN 50183 designated AL2 to AL7

c) Zinc coated steel wire as per EN 50189 with grade and class designated ST1A, ST2B, ST3D, ST4A, ST5E, and ST6C.

d) Aluminium-clad steel wire as per EN 61232 with class designation 20SA (grades A and B), 27SA, 30SA and 40SA.

Conductors made of zinc coated steel wires only are not included.

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 European standard only when incorporated in it by amendment or revision. For undated references the latest issue of the publication referred to applies.

EN 50183	Conductors for overhead lines — Aluminium-magnesium-silicon alloy wires
EN 50189	Conductors for overhead lines — Zinc coated steel wires
EN 50326[1)]	Conductors for overhead lines — Characteristics of greases
EN 60889	Hard-drawn aluminium wire for overhead line conductors.
EN 61232	Aluminium-clad steel wires for electrical purposes.
IEC 60050-466	International Electrotechnical Vocabulary (IEV) - Chapter 466: Overhead Lines.

3 Definitions

In addition to the definitions given in IEC 60050-466, the following definitions apply:

3.1
aluminium
for the purposes of this standard, aluminium is used as a generic term to mean hard drawn aluminium and aluminium alloy

3.2
direction of lay
the direction of lay is defined as right hand or left hand. With right hand lay, the wires conform to the direction of the central part of the letter Z when the conductor is held vertically. With left hand lay the wires conform to the central part of the letter S when the conductor is held vertically

1) At draft stage