Raudteealased rakendused. Püsipaigaldised. Elektertransport. Vasest ja vasesulamitest kontaktjuhtmed

Railway applications - Fixed installations - Electric traction - Copper and copper alloy grooved contact wires

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

See Eesti standard EVS-EN 50149:2012 sisaldab Euroopa standardi EN 50149:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 50149:2012 consists of the English text of the European standard EN 50149:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 08.06.2012.	Date of Availability of the European standard is 08.06.2012.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 29.280

Võtmesõnad: copper, copper alloys, electric traction, electrical conductor, overhead line, railway equipment, railway fixed equipment, specification,

EUROPEAN STANDARD

EN 50149

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2012

ICS 29.280

Supersedes EN 50149:2001

English version

Railway applications - Fixed installations - Electric traction - Copper and copper alloy grooved contact wires

Applications ferroviaires - Installations fixes - Traction électrique - Fil rainurés en cuivre et en cuivre allié

Bahnanwendungen – Ortsfeste Anlagen – Elektrischer Zugbetrieb – Rillenfahrdrähte aus Kupfer und Kupferlegierung

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CENELEC

European Committee for Electrotechnical Standardization

Comité Européen de Normalisation Electrotechnique

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Ref. No. EN 50149:2012 E

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Foreword

This document (EN 50149:2012) has been prepared by CLC/SC 9XC "Electric supply and earthing systems for public transport equipment and ancillary apparatus (Fixed installations)".

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)	2013-04-30
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2015-04-30

This document supersedes EN 50149:2001.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

1 Scope

This European Standard specifies the characteristics of copper and copper alloy wires of cross sections of 80 mm², 100 mm², 107 mm², 120 mm² and 150 mm² for use on overhead contact lines.

It establishes the product characteristics, the test methods, checking procedures to be used with the wires, together with the ordering and delivery condition.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1655:1997, *Copper and copper alloys — Declarations of conformity*

EN 1977:1998, *Copper and copper alloys — Copper drawing stock (wire rod)*

EN ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1)*

EN 10204:2004, *Metallic products — Types of inspection documents*

IEC 60468:1974, *Method of measurement of resistivity of metallic materials*

ISO 7801:1984, *Metallic materials — Wire — Reverse bend test*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
drawing stock or intermediate rod stock
wire generally of circular shape, whose cross section is larger than the wire cross section, from which the contact wire is then drawn

3.2
wire
electric conductor of an overhead contact line with which the current collector makes contact and is characterised by two clamping grooves

Note 1 to entry The wire herein after will be referred to as wire or wires.

4 Characteristics of wires

4.1 Wire designation system

The wire designation shall consist of

- denomination (Wire);
- number of this European Standard (EN 50149);