

## **Steel wire and wire products - Steel wire for ropes - Part 4: Stainless steel wire**

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Part 4: Stainless steel wire

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 10264-4:2002 sisaldab Euroopa standardi EN 10264-4:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 13.12.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 10264-4:2002 consists of the English text of the European standard EN 10264-4:2002.</p> <p>This document is endorsed on 13.12.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This Part of this European Standard specifies the characteristics of stainless steel wire for the manufacture of ropes that are exposed to corrosion and in some cases to a moderate temperature. This part of this European standard specifies the following for stainless steel wire for ropes - dimensional tolerances; - mechanical characteristics; - requirements relating to the chemical composition of the stainless steel wire; - conditions to be satisfied by any coating</p>	<p><b>Scope:</b></p> <p>This Part of this European Standard specifies the characteristics of stainless steel wire for the manufacture of ropes that are exposed to corrosion and in some cases to a moderate temperature. This part of this European standard specifies the following for stainless steel wire for ropes - dimensional tolerances; - mechanical characteristics; - requirements relating to the chemical composition of the stainless steel wire; - conditions to be satisfied by any coating</p>
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**Võtmesõnad:** acceptance, cables : ropes, circular form, measurement, sampling, specifications, stainless steels, steel products, steel- wire ropes, steel wires, steels, strength of materials, tensile strength, tolerances, tolerances (measurement), wire rope, wire ropes, wires

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ICS 77.140.20; 77.140.65

**English version**

Steel wire and wire products

**Steel wire for ropes**

Part 4: Stainless steel wire

Fils et produits tréfilés en acier –  
Fils pour câbles – Partie 4: Fils  
tréfilés en acier inoxydable

Stahldraht und Drahterzeugnisse –  
Stahldraht für Seile – Teil 4: Draht  
aus nichtrostendem Stahl

This European Standard was approved by CEN on 2002-05-04.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

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

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## Foreword

This document EN 10264-4:2002 has been prepared by Technical Committee ECISS/TC 30 "Steel wires", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2003, and conflicting national standards shall be withdrawn at the latest by February 2003.

This European Standard for wire for ropes is made up of the following parts:

*Part 1: General requirements.*

*Part 2: Cold drawn non alloy steel wire for ropes for general applications.*

*Part 3: Cold drawn and cold shaped non alloy steel wire for high duty applications.*

*Part 4: Stainless steel wire.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This Part of this European Standard specifies the characteristics of stainless steel wire for the manufacture of ropes that are exposed to corrosion and in some cases to a moderate temperature.

This part of this European Standard specifies the following for stainless steel wire for ropes

- dimensional tolerances;
- mechanical characteristics;
- requirements relating to the chemical composition of the stainless steel wire;
- conditions to be satisfied by any coating.

## 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 edition of the publication referred to applies (including amendments).

EN 10088-3, *Stainless steels — Part 3: Technical delivery conditions for semi-finished products, bars, rods and sections for general purposes.*

EN 10095, *Heat resisting steels and nickel alloys.*

EN 10218-1, *Steel wire and wire products — General — Part 1: Test methods.*

EN 10264-1, *Steel wire and wire products — Steel wire for ropes — Part 1: General requirements.*

ASTM A342, *Standard test methods for permeability of feebly magnetic materials.*

## 3 Designation of product

The designation of the product is based on the nominal diameter, chemical composition and minimum tensile strength of the wire.

EXAMPLE      Stainless steel wire for rope, diameter 1,5 mm - grade X4CrNi18-12 - strength 1 450 MPa.

Wire for rope EN 10264-4 - 1,5 - X4CrNi18-12 - 1 450

NOTE      The grade of steel can be designated numerically, see Table 1.

## 4 General conditions of manufacture

### 4.1 Main steel grades and characteristic applications

The grades given in Table 1 are widely used mainly in accordance with EN 10088-3 and EN 10095 with requirements as specified in this part of EN 10264. However, for other specific applications other steel grades specified in EN 10088-3 or EN 10095 may be used with requirements to be agreed between the parties.

Table 1 gives an informative indication of characteristic applications of the mentioned steel grades.