

**Steel wire ropes - Safety - Part 7:  
Locked coil ropes for mine shafts**

Steel wire ropes - Safety - Part 7: Locked coil ropes  
for mine shafts

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12385-7:2002 sisaldab Euroopa standardi EN 12385-7:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 15.11.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12385-7:2002 consists of the English text of the European standard EN 12385-7:2002.</p> <p>This document is endorsed on 15.11.2002 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> This European Standard specifies the additional materials, manufacturing and testing requirements for full-locked coil hoist and half-locked and full-locked coil guide ropes for mine shafts to those given in Part 1. The additional hazards covered by this European Standard are identified in clause 4. For information only, typical breaking forces for both full-locked coil hoist ropes and half-locked and full-locked coil guide ropes, based on one particular combination of wire tensile strength grades in each case, are given in annex B (hoist ropes) and annex C (guide ropes) for some of the more common sizes of rope.</p>	<p><b>Scope:</b> This European Standard specifies the additional materials, manufacturing and testing requirements for full-locked coil hoist and half-locked and full-locked coil guide ropes for mine shafts to those given in Part 1. The additional hazards covered by this European Standard are identified in clause 4. For information only, typical breaking forces for both full-locked coil hoist ropes and half-locked and full-locked coil guide ropes, based on one particular combination of wire tensile strength grades in each case, are given in annex B (hoist ropes) and annex C (guide ropes) for some of the more common sizes of rope.</p>
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**Võtmesõnad:** acceptance testing, cables, lifts, packing, ropes, safety requirements, specification (approval), specifications, steel cords, steel wire products, steel wires, steel-wire ropes, testing, user information, winding ropes, wire rope, wire ropes, wires

ICS 77.140.65

English version

## Steel wire ropes - Safety - Part 7: Locked coil ropes for mine shafts

Câbles en acier - Sécurité - Partie 7: Câbles clos  
d'extraction pour puits de mine

Drahtseile aus Stahldraht - Sicherheit - Teil 7:  
Verschlossene Spiralseile für Schachtförderanlagen des  
Bergbaus

This European Standard was approved by CEN on 28 March 2002.

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.

This European Standard exists 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 12385-7:2002) has been prepared by Technical Committee CEN/TC 168, "Chains, ropes, webbing, slings and accessories – Safety", 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 April 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.

The other Parts of EN 12385 are:

Part 1: General requirements

Part 2: Definitions, designation and classification

Part 3: Information for use and maintenance

Part 4: Stranded ropes for general lifting applications

Part 5: Stranded ropes for lifts

Part 6: Stranded ropes for mine shafts

Part 8: Stranded hauling and carrying-hauling ropes for cableway installations designed to carry persons

Part 9: Locked coil carrying ropes for cableway installations designed to carry persons

Part 10: Spiral ropes for general structural applications

Part 1 provides the general requirements of Parts 4 to 10.

This is the first edition of this Part.

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.

## Introduction

During the preparation of this standard, it was assumed that a negotiation would take place between the purchaser and the manufacturer concerning the intended purpose of the rope.

Specifiers, purchasers and users should recognise that locked coil ropes for mine shafts are, more often than not, specially designed by the rope manufacturer to meet particular shaft conditions and machinery requirements.

## 1 Scope

This Part of this European Standard specifies the particular materials, manufacturing and testing requirements for full-locked coil hoist and half-locked and full-locked coil guide ropes for mine shafts.

The particular hazards covered by this Part are identified in Clause 4.

For information only, typical breaking forces for both full-locked coil hoist ropes and half-locked and full-locked coil guide ropes, based on one particular combination of wire tensile strength grades in each case, are given in annex B for some of the more common sizes.

## 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 10264-3, *Steel wire and wire products – Steel wire for ropes – Part 3: Cold drawn and cold shaped non-alloyed steel wire for heavy duty applications.*

EN 12385-1:2002, *Steel wire ropes – Safety – Part 1: General requirements.*

EN 12385-2, *Steel wire ropes – Safety – Part 2: Definitions, designation and classification.*

ISO 3156, *Stranded wire ropes for mine hoisting - Impregnation compounds, lubricants and service dressing – Characteristics and tests.*

DIN 21258, *Preservative compounds for koepe friction drive winding ropes in mining – Safety requirements and testing.*

## 3 Terms and definitions

For the purposes of this European Standard, the terms and definitions in EN 12385-2 apply.

## 4 List of hazards

For the purposes of this Part the hazards identified in clause 4 of Part 1 apply.