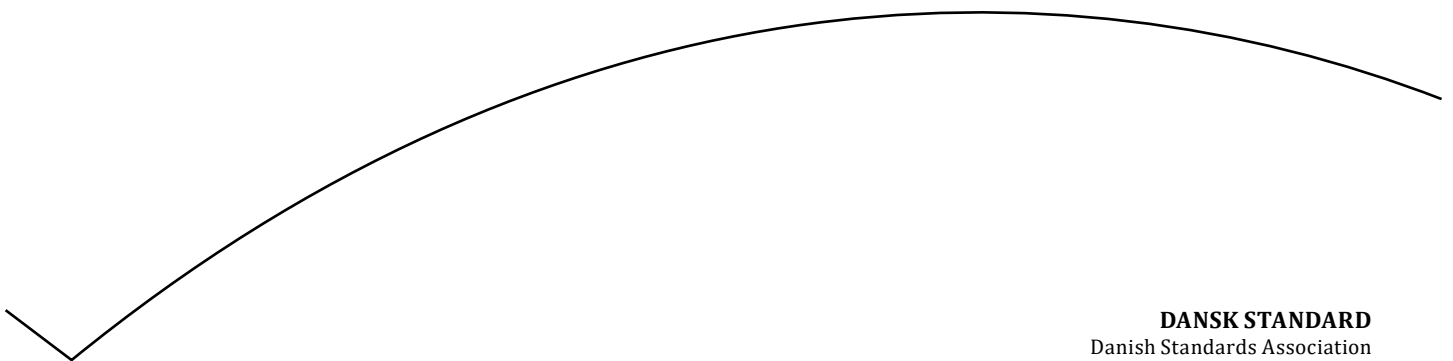


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Ståltove – Sikkerhed – Del 5: Flerstrengede tove til elevatorer

Steel wire ropes – Safety – Part 5: Stranded ropes for lifts



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EUROPÄISCHE NORM

March 2021

ICS 77.140.65

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EN 12385-5:2002/AC:2005

English Version

Steel wire ropes - Safety - Part 5: Stranded ropes for lifts

Câbles en acier - Sécurité - Partie 5 :
Câbles à torons pour ascenseursDrahtseile aus Stahldraht - Sicherheit
- Teil 5: Litzenseile für Aufzüge

This European Standard was approved by CEN on 15 February 2021.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document ([EN 12385-5:2021](#)) 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of an identical text or by endorsement, at the latest by September 2021 and conflicting national standards shall be withdrawn at the latest by September 2021.

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

This document supersedes [EN 12385-5:2002](#).

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative [Annex ZA](#) and [Annex ZB](#), which are integral parts of this document.

This document includes amendment to [Annex ZB](#) – Machinery Directive related – and inclusion of [Annex ZA](#) – Lift Directive related.

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 6: Stranded ropes for mine shafts;*
- *Part 7: Locked coil 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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

This document is a type C standard as stated in [EN ISO 12100](#).

This document has been prepared to be a harmonized standard to provide a means of complying with the essential safety requirements of the Lifts Directive and the Machinery Directive.

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.

Although tables of breaking forces and masses are provided for a number of the more common classes, diameters and rope grades, this Part of this standard is not limited to those given, providing all of the other requirements are met.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards for wire ropes that have been designed and produced according to the provisions of this type C standard.

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Steel wire ropes – Safety –

Part 5: Stranded ropes for lifts

1 Scope

This document specifies the particular materials, manufacturing and testing requirements for stranded ropes for suspension, compensating and governor duties for traction drive and hydraulic lifts moving between guides and similar applications.

The particular hazards covered by this Part are identified in [Clause 4](#).

This document does not establish requirements for information for use other than those given in [Clause 7](#) of Part 1. Neither does it cover the requirements for ropes fitted with terminations.

Minimum breaking force values for the more common classes, sizes and grades of rope are provided in [Tables 6](#) to [10](#).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[EN 10264-2:2012](#), *Steel wire and wire products — Steel wire for ropes — Part 2: Cold drawn non alloy steel wire for ropes for general applications*

[EN 12385-1:2002+A1:2008](#), *Steel wire ropes — Safety — Part 1: General requirements*

[EN 12385-2:2002+A1:2008](#), *Steel wire ropes — Safety — Part 2: Definitions, designation and classification*

[EN ISO 12100:2010](#), *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

[ISO 4346:1977](#), *Steel wire ropes for general purposes — Lubricants — Basic requirements*