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BSI Standards Publication

Steel wire ropes — Safety

Part 3: Information for use and maintenance

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National foreword

This British Standard is the UK implementation of EN 12385-3:2020. It supersedes BS EN 12385-3:2004+A1:2008, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MHE/2, Wire ropes.

A list of organizations represented on this committee can be obtained on request to its committee manager.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Steel wire ropes - Safety - Part 3: Information for use and maintenance

Câbles en acier - Sécurité - Partie 3 : Informations pour l'utilisation et la maintenance

Drahtseile aus Stahldraht - Sicherheit - Teil 3: Informationen für Gebrauch und Instandhaltung

This European Standard was approved by CEN on 18 October 2020.

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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 COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 12385-3:2020) 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of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.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 12385-3:2004+A1:2008.

EN 12385-3:2020 incorporates editorial changes required as part of the compliance with the Lift Directive 2014/33/EU.

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.

The other Parts of this European standard are:

- Part 1: General requirements;
- Part 2: Definitions, designation and classification;
- Part 4: Stranded ropes for general lifting applications;
- Part 5: Stranded ropes for lifts;
- 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.

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 Part of this European standard has been prepared to support the other Parts of this standard that concern themselves with the particular requirements for steel wire ropes to be used in specific applications.

The types of ropes concerned and the extent to which hazards are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A and B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for information for use and maintenance according to the provisions of this type C standard.

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1 Scope

This document specifies the type of information for use and maintenance of steel wire ropes to be provided by the rope manufacturer or to be included in the manufacturer's handbook that accompanies a machine, piece of equipment or installation of which the steel wire rope forms a part.

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

For steel wire ropes conforming to Parts 8 and 9 used on cableway installations designed to carry persons, additional information for use and maintenance is given in EN 12927.

For steel wire rope slings, specific information on use and maintenance is given in EN 13414-2.

This document is not applicable to steel wire ropes manufactured before the date of publication of this document by CEN.

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 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)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 12100:2010 and EN 12385-2:2002+A1:2008 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1 inspection

routine visual check on the condition of the rope to identify obvious damage or deterioration which might affect its fitness for use

Note 1 to entry: Often performed on a daily basis before initial utilization of machine.

3.2 thorough examination

detailed external (and where possible, internal) examination of the rope carried out by a competent (trained and experienced) person at specific periodic time intervals as determined by national regulations

Note 1 to entry: Visual examination supplemented by other means, such as measurement or electro-magnetic non-destructive testing.