

Steel wire and wire products — Steel wire for ropes —

Part 3: Round and shaped non alloyed steel wire for high duty applications

The European Standard EN 10264-3:2002 has the status of a British Standard

ICS 77.140.65

National foreword

This British Standard is the official English language version of EN 10264-3:2002. Together with BS EN 10264-1:2002 and BS EN 10264-2:2002 it supersedes BS 2763:1982 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ISE/26, Steel wire, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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This British Standard, having been prepared under the direction of the Engineering Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 27 November 2002

Summary of pages

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English version

**Steel wire and wire products - Steel wire for ropes - Part 3:
Round and shaped non alloyed steel wire for high duty
applications**

Fils et produits tréfilés en acier - Fils pour câbles - Partie 3:
Fils ronds et profilés, en acier non allié, pour fortes
solllicitations

Stahldraht und Drahterzeugnisse - Stahldraht für Seile -
Teil 3: Runder und profilierter Draht aus unlegiertem Stahl
für hohe Beanspruchungen

This European Standard was approved by CEN on 9 October 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 10264-3:2002 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 May 2003, and conflicting national standards shall be withdrawn at the latest by May 2003.

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

Part 1: *General requirements*

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

Part 3: *Round and shaped non alloyed 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 round and shaped non alloyed steel wire for use in the manufacture of ropes for mine hoisting, man-riding haulage, cableways for the transportation of passengers and other high duty applications.

This part of this European Standard refers to round wires and three types of shaped wire: full lock (Z), half lock (H) and trapezoidal (T).

In addition to the requirements of this part of this European Standard, the requirements of EN 10264-1 also apply.

It does not apply to steel wire taken from manufactured ropes.

This part of this European Standard specifies the following for cold drawn non alloyed steel wire for ropes for high duty applications:

- dimensional tolerances;
- mechanical characteristics;
- requirements relating to the chemical composition of the 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 10016-1, *Non-alloy steel rod for drawing and/or cold rolling – Part 1: General requirements.*

EN 10016-2, *Non-alloy steel rod for drawing and/or cold rolling – Part 2: Specific requirements for general purposes rod.*

EN 10016-4, *Non-alloy steel rod for drawing and/or cold rolling – Part 4: Specific requirements for rod for special applications.*

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

EN 10244-2, *Steel wire and wire products – Non ferrous metallic coatings on steel wire – Part 2: Zinc or zinc alloy coatings.*

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

3 Designation of the product

The designation of wire for ropes manufactured in accordance with this European Standard shall be based on the nominal dimension, surface appearance and tensile strength.

The indicator of dimension for round wire is the nominal diameter; for shaped wire it is the value of the height (h), followed by a letter specifying the profile. In the case of H profiles, this indicator shall be followed by the value of the narrowing.

The surface appearance is indicated as defined in EN 10264-1 with U for uncoated or bright wire, with a letter indicating the class of coating (A, B, ...) and in the case of zinc alloy coatings, indicating in brackets (Zn/Al).