



Steel wire and wire products — General

Part 2: Wire dimensions and tolerances

Stahldraht und Drahterzeugnisse — Allgemeines — Teil 2: Drahtmaße und Toleranzen

Fils et produits tréfilés en acier — Généralités — Partie 2: Dimensions et tolérances des fils

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Fils et produits tréfilés en acier - Généralités - Partie 2 :
Dimensions et tolérances des fils

Stahldraht und Drahterzeugnisse - Allgemeines - Teil 2:
Drahtmaße und Toleranzen

This European Standard was approved by CEN on 3 September 2011.

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Foreword

This document (EN 10218-2:2012) has been prepared by Technical Committee ECISS/TC 106 “Wire rod and wires”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by July 2012, and conflicting national standards shall be withdrawn at the latest by July 2012.

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

This document supersedes EN 10218-2:1996.

The standard will comprise the following parts:

- *Part 1: Test methods;*
- *Part 2: Wire dimensions and tolerances.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the tolerances on diameter of round wire and, where applicable, on the length of round wire cut to length, for bright steel wire, (i.e. uncoated), metallic coated steel wire and non-metallic coated steel wire.

This European Standard should not be applied where other requirements for dimensions and tolerances are specified in a particular product standard.

2 Normative references

The following referenced documents are indispensable for the application 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 10079:2007, *Definition of steel products*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

wire

product of constant full cross section along its length, obtained by cold drawing rod through a reducing die or passing under pressure between rollers and rewinding the drawn product

NOTE 1 The cross section is generally round, though sometimes oval, rectangular, square, hexagonal, octagonal or other convex section.

NOTE 2 The manufacturing processes give close control of geometric (size, surface condition) and mechanical properties. Wire may be supplied uncoated (as drawn, annealed) or coated (e.g. with zinc, copper, nickel or plastic materials).

NOTE 3 Heat treatments and/or surface treatments may be carried out during the course of manufacture to improve the properties of wire.

[EN 10079:2007]

NOTE 4 As well as being supplied in the uncoated (bright) condition, wire can also be supplied with metallic or non-metallic coatings or both. The metallic coating can be as a finished coating or as a drawn finished coating.

3.2

cut length

straightened piece of wire cut to a specified length