
**Steel wire ropes — Vocabulary,
designation and classification**

Câbles en acier — Vocabulaire, désignation et classification



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 17893 was prepared by Technical Committee ISO/TC 105, *Steel wire ropes*.

Introduction

This International standard was developed in response to a worldwide demand for a specification covering terms and definitions associated with the design, manufacture and testing of steel wire rope, for a designation system which would provide manufacturers, purchasers and end users with a common method of describing a rope, and for a classification system which would enable ropes of similar construction and mechanical properties to be grouped together.

The designation and classification systems established here can be used for designating and classifying any steel wire rope construction.

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Steel wire ropes — Vocabulary, designation and classification

1 Scope

This International Standard defines terms, and specifies a designation system and a classification system, for steel wire ropes.

2 Terms and definitions

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

2.1 Wires

2.1.1 Outer wires

2.1.1.1

outer wire

⟨spiral rope⟩ wire positioned in the outer layer of a rope

2.1.1.2

outer wire

⟨stranded rope⟩ wire positioned in the outer layer of wires in the outer strands of a rope

2.1.2 Inner wires

2.1.2.1

inner wire

⟨spiral rope⟩ wire of the intermediate layers of a rope positioned between the centre wires and outer layer

2.1.2.2

inner wire

⟨stranded rope⟩ any wire of a rope other than its centre wires, filler wires, core wires or outer wires

2.1.3

filler wire

comparatively small wire used in filler constructions to fill up the interstices between layers of wires

See Figure 8.

2.1.4 Centre wires

2.1.4.1

centre wire

⟨spiral rope⟩ wire positioned at the centre of a rope

2.1.4.2

centre wire

⟨stranded rope⟩ wire positioned at the centre of the strands of a rope