
International Standard



3578

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Steel wire ropes — Standard designations

Câbles en acier — Désignations normalisées

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3578 was developed by Technical Committee ISO/TC 105, *Steel wire ropes*, and was circulated to the member bodies in June 1979.

It has been approved by the member bodies of the following countries :

Australia	Germany, F.R.	Poland
Belgium	India	Romania
Canada	Israel	South Africa, Rep. of
Chile	Italy	Sweden
Czechoslovakia	Korea, Rep. of	Switzerland
Egypt, Arab Rep. of	Netherlands	United Kingdom
Finland	Norway	USSR
France	Philippines	

No member body expressed disapproval of the document.

Steel wire ropes — Standard designations

1 Scope and field of application

This International Standard specifies the rules for standard designations of steel wire ropes by means of letters and numerals indicating the construction and basic characteristics of the ropes.

2 Designation of ropes

The complete designation of a steel wire rope shall indicate the characteristics listed below in the order in which they are given :

- a) size (see 3.1);
- b) surface finish or wire (see 3.2);
- c) type of construction (see 3.3 and 3.4);
- d) tensile grade of the wire (see 3.5);
- e) direction of lay (see 3.6);
- f) minimum breaking load (see 3.7);
- g) linear mass (See 3.8).

An abbreviated designation may be used provided that the characteristics are given in the same order as described above.

Characteristics may be designated by either capital or small letters but a mixture of the two shall not be used.

3 Designation of characteristics

The designation of the individual characteristics included in the complete designation shall be as follows :

3.1 Size

3.1.1 Round ropes

The nominal diameter of the rope, expressed in millimetres.

3.1.2 Braided ropes

The diameter of a circle which circumscribes the rope, expressed in millimetres.

3.1.3 Flat ropes

The dimensions of a rectangle which encloses the rope, including stitching, expressed in millimetres.

3.2 Surface finish of the wires

The surface finish of the wires is designated by one of the following symbols :

3.2.1 NAT = plain wire (unprotected).

3.2.2 ZAA = grade A galvanized. (See ISO 2232.)

3.2.3 ZAB = grade AB galvanized. (See ISO 2232.)

3.2.4 ZBB = grade B galvanized. (See ISO 2232.)

3.3 Constructional symbols

3.3.1 Core

The core is represented by one of the following symbols :

3.3.1.1 Fibre core
(natural or synthetic) = FC

3.3.1.2 Natural fibre
core = NF

3.3.1.3 Synthetic fibre
core = SF

3.3.1.4 Metallic wire
rope core = IWR

3.3.1.5 Metallic wire
strand core = IWS

Followed by a full indication of the type of construction in brackets.

