
**Aerospace — Preformed flexible steel wire
rope for aircraft controls —**

Part 1:
Dimensions and loads

*Aéronautique et espace — Câbles en acier souples préformés pour
commandes d'aéronefs —*

Partie 1: Dimensions et charges

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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.

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.

International Standard ISO 2020-1 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 12, *Mechanical system parts*.

This first edition of ISO 2020-1 together with ISO 2020-2 cancels and replaces ISO 2020:1984.

ISO 2020 consists of the following parts, under the general title *Aerospace* — *Preformed flexible steel wire rope for aircraft controls*:

- *Part 1: Dimensions and loads*
- *Part 2: Technical specification*

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Aerospace — Preformed flexible steel wire rope for aircraft controls —

Part 1: Dimensions and loads

1 Scope

This part of ISO 2020 specifies the requirements which shall be satisfied by preformed flexible steel wire ropes for aircraft controls. The wire ropes shall be capable of operation within the temperature range of $-54\text{ }^{\circ}\text{C}$ to $+121\text{ }^{\circ}\text{C}$.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 2020. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 2020 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2020-2:1997, *Aerospace — Preformed flexible steel wire rope for aircraft controls — Part 2: Technical specification*.

ISO 2408:1985, *Steel wire ropes for general purposes — Characteristics*.

ISO 2532:1974, *Steel wire ropes — Vocabulary*.

ISO 3578:1980, *Steel wire ropes — Standard designations*.

3 Definitions

For the purposes of this part of ISO 2020, the definitions and designations given in ISO 2408, ISO 2532 and ISO 3578 apply.

4 Dimensions, masses, strengths of wire for ropes

4.1 Wire diameters

The nominal wire diameters necessary for the manufacture of ropes shall be specified by the ropemaker. The limit deviations given in table 1 apply to the diameters of the finished wire.