
**Steel wire ropes — Determination of the
actual modulus of elasticity**

Câbles en acier — Détermination du module effectif d'élasticité

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 12076 was prepared by Technical Committee ISO/TC 105, *Steel wire ropes*.

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Introduction

This International Standard is intended to provide manufacturers, suppliers and independent testing bodies with a uniform testing method for determining the modulus of steel wire rope.

Modulus values depend on the condition of the rope, and it is thus necessary to know the actual condition under which the modulus is to be, or has been, determined. The three usual conditions are

- initial (as manufactured),
- partially-bedded, or
- final bedded.

It is important, too, to recognize that steel wire ropes do not possess a normal modulus of elasticity, but an “apparent” one, which can be determined between fixed loads. This is referred to as the *rope modulus*.

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