
**Steel wire ropes — Spliced eye
terminations for slings**

Câbles en acier — Oeils épissés pour élingues



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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Type of wire ropes	1
5 Splicing operation	2
6 Design requirements of the spliced eye termination	2
7 Prototype tests	2
7.1 General	2
7.1.1 Prototype test condition	2
7.1.2 Samples	3
7.1.3 Safety terms	3
7.2 Tensile test to destruction	3
7.2.1 Test machine	3
7.2.2 Procedure	3
7.2.3 Qualified results of tensile test	4
7.3 Durability test	4
7.3.1 Test conditions	4
7.3.2 Procedure	5
7.3.3 Qualified results of durability test	6
7.4 Qualified results of prototype test	6
Annex A (informative) Method 1: Specification for hand-splicing of turn-back eye termination	7
Annex B (informative) Method 2: Specification for hand-splicing of Flemish eye termination	10
Annex C (informative) Method 3: Specification for machine-aided hand-splicing of turn-back eye termination	13
Bibliography	15

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition (ISO 8794:1986), which has been technically revised.

The main changes compared to the previous edition are as follows:

- [Clause 3](#) has been modified (terms and definitions);
- [7.1](#) has been added (general);
- [7.2](#) has been modified (tensile test to destruction);
- [7.3](#) has been modified (durability test);
- [7.4](#) has been added (qualified results of prototype test);
- [Annex B](#) has been added (method 2: specification for hand-splicing of Flemish eye termination);
- [Annex C](#) has been added (method 3: specification for machine-aided hand-splicing of turn-back eye termination).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Steel wire ropes — Spliced eye terminations for slings

1 Scope

This document specifies minimum requirements for spliced eye terminations for wire rope slings.

Prototype tests covering the type acceptance of splice methods are also specified in this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

ISO 17893, *Steel wire ropes — Definitions, designation and classification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17893 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

spliced eye termination

loop or eye at the end of a rope made by tucking the ends of the strands back into the main body of the rope

3.1.1

hand-splicing of turn-back eye termination

turn-back eye formed at a rope end secured by means of hand-splicing

3.1.2

hand-splicing of Flemish eye termination

Flemish eye formed at a rope end secured by means of hand-splicing

3.1.3

machine-aided hand-splicing of turn-back eye termination

turn-back eye formed at a rope end by means of a press machine with a plug for tucking and secured by hand-splicing

3.2

tuck

single reeving of a strand to be spliced under a specified number of strands in the wire rope

4 Type of wire ropes

Six round stranded steel wire ropes with fibre or steel core in ordinary lay specified in ISO 2408 are suitable for provision of spliced eye terminations. This method could apply to other type of steel wire ropes for spliced eye terminations.