



NSAI
Standards

Irish Standard
I.S. EN ISO 16841:2014

Steel wire ropes - Pulling eyes for rope installation - Types and minimum requirements (ISO 16841:2014)

I.S. EN ISO 16841:2014

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Steel wire ropes - Pulling eyes for rope installation - Types and minimum requirements (ISO 16841:2014)

Câbles en acier - Oeils de tirage pour les installations en câble - Types et exigences minimales (ISO 16841:2014)

Stahldrahtseile - Einziehösen für die Seilmontage - Formen und Mindestanforderungen (ISO 16841:2014)

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Foreword

This document (EN ISO 16841:2014) has been prepared by Technical Committee ISO/TC 105 “Steel wire ropes” in collaboration with Technical Committee CEN/TC 168 “Chains, ropes, webbing, slings and accessories - Safety” the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2014, and conflicting national standards shall be withdrawn at the latest by September 2014.

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INTERNATIONAL STANDARD

**ISO
16841**

First edition
2014-03-01

Steel wire ropes — Pulling eyes for rope installation — Types and minimum requirements

*Câbles en acier — Oeils de tirage pour les installations en câble —
Types et exigences minimales*



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ISO 16841:2014(E)

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. www.iso.org/directives

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The committee responsible for this document is ISO/TC 105, *Steel wire ropes*.

Introduction

This International Standard was developed in response to a worldwide demand for an International Standard identifying the different types of pulling eyes which are used to facilitate the installing and re-reeving of ropes on a machine.

Such pulling eyes, sometimes referred to as beackets, are often used when another rope is required to pull the new rope into place.

Steel wire ropes — Pulling eyes for rope installation — Types and minimum requirements

1 Scope

This International Standard identifies the different types of pulling eyes prepared at, or attached to, a steel wire rope end for connection to another rope when installing a new rope or re-reeving an existing rope on a machine.

This International Standard also specifies the minimum requirements for pulling eyes, including their geometry, strength, maximum line pull to which the pulling eye is intended to be subjected and information for use to be provided by the manufacturer.

The pulling eyes covered by this International Standard are not intended to be subjected to a load when the machine performs a service operation.

This International Standard applies to those pulling eyes prepared at, or attached to, ends of steel wire ropes conforming to ISO 2408 and ISO 10425.

This International Standard does not apply to steel wire ropes with fibre cores.

This International Standard does not cover those separate end connection accessories, which slide over the end of a rope and comprise an eye- and tubular-type braided rope, often referred to as a “wire rope stocking” or “cable sock”.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable to its application. 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 — Vocabulary, 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.

3.1 pulling eye

end preparation or end attachment in the form of a loop or eye to facilitate installation or re-reeving of a steel wire rope on a machine

3.2 flexible-type pulling eye

end preparation or end attachment in the form of a loop or eye, made from components of rope

EXAMPLE Individual strands or core, or tapered outer strands, reduced by removing some of the constituent wires

Note 1 to entry: Pulling eyes made from the centre strand of the core have limited load capacity.

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