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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 16271-2025

Replacing GB/T 16271-2009

Steel wire rope slings - Spliced eye terminations

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(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 16271-2009 "Wire Rope Sling Braided Cable Buckle". Compared with GB/T 16271-2009, except for the structural adjustment In addition to the integration and editorial changes, the main technical changes are as follows.

- Changed the description of the scope (see Chapter 1, Chapter 1 of the 2009 edition);
- Changed the terms and definitions (see Chapter 3, Chapter 3 of the 2009 edition);
- Changed the classification of wire rope braided shackles and added the classification of braided shackle slings (see 4.2, 4.3, 4.2 of the 2009 edition);
- Changed the requirements for wire rope selection (see 5.1.1, 5.1.1 of the 2009 edition);
- Added the requirement that the wire rope should not be loose (see 5.1.3);
- Added general requirements and other requirements for insertion operations (see 5.2.1, 5.2.4);
- Increased requirements for buckle size (see 5.4);
- Changed the requirements for the actual breaking force of the cable buckle (see 5.5.2, 5.2.2 of the 2009 edition);
- Added the test method for the insertion method and the number of insertions (see 6.1);
- Added dimensional test method (see 6.3);
- Increased sample and safety requirements for performance tests (see 6.4.1, 6.4.2);
- Added the requirements for breaking tensile test temperature (see 6.4.4);
- Added the requirements for fatigue test temperature and changed the requirements for fatigue test machine frequency (see 6.4.5, 6.4 of the 2009 edition);

- Added the requirements for rounding off values and determining test values (see 6.5);
- Changed the contents of factory inspection and type inspection items (see Table 2, Table 2 of the 2009 edition);
- Changed the type test judgment requirements (see 7.5, 7.2.4 of the 2009 edition);
- Added requirements for packaging, marking, storage and transportation (see Chapter 8);
- Increased selection and use requirements (see Chapter 9);
- Added requirements for the selection and use of braided cable slings (see Appendix F).

This document is modified to adopt ISO 8794:2020 "Sling buckles for braided wire ropes".

Compared with ISO 8794:2020, this document has many structural adjustments. The comparison table of the structural number changes between the two documents is shown in Appendix A.

This document has many technical differences compared to ISO 8794:2020.

A list of these technical differences and their reasons is given in Appendix B.

The following editorial changes have been made to this document.

- To coordinate with the existing document, the document name is changed to "Wire Rope Sling Inserted Buckle".

1 Scope

This document specifies the classification, technical requirements, test methods, inspection rules, packaging, marking, storage and transportation of wire rope slings. Transport, selection and use.

This document is applicable to six-strand round-strand interlaced wire rope slings of manual folding, manual plug-in and mechanical folding.

The splicing of other multi-strand wire ropes can also be carried out by reference.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 8706 Steel Wire Ropes - Terminology, Marking and Classification (GB/T 8706-2017, ISO 17893:2004, MOD)

GB/T 8918 Steel Wire Rope for Important Purposes (GB/T 8918-2006, ISO 3154:1988, MOD)

GB/T 14737 Technical conditions for the use of slings for port loading and unloading

GB/T 16825.1 Inspection and calibration of static uniaxial testing machines for metallic materials Part 1: Tension and/or compression tests Inspection and calibration of force measurement systems for machines (GB/T 16825.1-2022, ISO 7500-1:2018, IDT)

GB/T 20067 Large diameter steel wire rope

GB/T 20118 General Technical Requirements for Steel Wire Ropes (GB/T 20118-2017, ISO 2408:2017, NEQ)

GB/T 34198 Steel wire ropes for cranes

GB/T 38814 Fatigue test method for wire rope slings

YB/T 081 Rounding off of numerical values in metallurgical technical standards and determination of test values

YB/T 4507 Tensile test method for wire rope slings

3 Terms and Definitions

The terms and definitions defined in GB/T 8706 and GB/T 14737 and the following apply to this document.

3.1

Insert the strand end into the wire rope body in reverse order to form a ring hole or eye at the end of the wire rope (see Figure 1).