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

GB/T 20067-2017

Replacing GB/T 20067-2006

**Large diameter steel wire ropes
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 20067-2006 "coarse diameter wire rope", compared with GB/T 20067-2006, the main technical content changes as follows.

- Increased resistance to spin round wire and compacted shares of wire ropes;
- Wire rope diameter range is adjusted to 60mm ~ 192mm, the minimum diameter of some wire rope and the maximum diameter has been modified;
- Modify the principle of classification of wire ropes. Single-layer round ropes divided into 11 categories, resistance rotating round ropes divided into three categories, compaction Wire ropes divided into six categories;
- Modify the wire rope representation .6 x 37 (a) class was changed to 6 x 36 classes, 6 x 61 (a) class was modified to 6 x 61 class, 8 x 37 (a) Class to 8 x 36 classes, 6 x 61 (ab) classes to 6 x 61N, 6 x 91 (ab) classes to 6 x 91N, 8 x 61 (ab) Changed to 8 x 61N, 8 x 91

(ab) class modified to 8 x 91N class according to GB/T 8706 standard expression modification;

--- Canceled the 8 x 19 (a) category of structural steel wire rope;

--- Added wire rope tag code example;

--- Added Table 4;

--- Canceled 1670,1870 wire rope level;

--- Increased calculation of measured breaking force measurement method;

--- Cancel the wire rope allows the minimum number of steel wire requirements;

--- Rope to cancel some of the rough diameter steel wire rope with a minimum breaking force.

This standard is proposed by China Iron and Steel Association.

This standard by the National Standardization Technical Committee Steel (SAC/TC183) centralized.

This standard was drafted unit. Guizhou Steel Wire Co., Ltd., Jiangsu Langshan Steel Wire Co., Ltd., Shanghai is Shanghai Metal Products Co., Ltd., Jiangsu Shenwang Steel Wire & Cable Co., Ltd., Nantong Songcheng Industrial Co., Ltd., Metallurgical Industry Information Standards Institute.

1 Scope

This standard specifies the diameter of 60mm ~ 192mm thick diameter wire rope classification, ordering content, materials, technical requirements, testing, test inspection, methods, packaging, marking and quality certificate.

This standard applies to large lifting,, excavators, ship lift, electric shovels, ships, hydraulic machinery, marine engineering, maritime rescue and other assistance Various coarse diameter wire rope used in the field.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 228.1 tensile testing of metallic materials - Part 1. room temperature test method
GB/T 239.1 Metallic materials - Wires - Part 1. Torsion test method
GB/T 2104 wire rope packaging, marking and quality certificate of the general provisions
GB/T 8358 wire rope breaking strength measurement method
GB/T 8706 wire rope terminology, marking and

classification GB/T 21965 wire rope acceptance and defect terms GB/T 29086 wire rope safe use and maintenance YB/T 4452 wire rope fiber core YB/T 5343 Rope round wire YB/T 081 Metallurgical technical standards for the value of rounding and test data to determine NB/SH/T 0387 steel wire rope grease

3 Terms and definitions

GB/T 8706 defined terms and definitions apply to this document.

4.1 Classification

Wire rope according to GB/T 8706 classification, respectively, see Table 1, Table 2, Table 3, when the center of the larger wire can be used instead of stock core and recorded as a root.