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

中华人民共和国国家标准

GB/T 17101-2008

Replace GB/T 17101-1997

Hot-dip galvanized steel wires for bridge cables

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Foreword

The modification of this standard shall adopt NF A 35-035: 2001 *Hot-dip Galvanized-Aluminium Alloy Prestressed Round Steel Wire and 7 Wire Steel Strand* (French Version).

This standard is redrafted based on NF A 35-035:200, and the key technical differences between this standard and NF A 35-035:2001 are as follows:

- cancel 7 wire steel strand and 6 mm steel wire;
- add steel wire without slack requirement and with normal slack requirement;
- add performance requirement for upset head of steel wire;
- add performance requirement for reverse of steel wire;
- add performance requirement for extending of steel wire;
- take percentage elongation after fracture to replace total elongation rate under the maximum force;
- cancel category provision for type A and B steel wire;

This standard shall replace GB/T 17101- 1997 *Hot-dip Galvanized Steel Wires for Bridge Cables*.

This standard has the following main changes compared with GB/T 17101- 1997:

- add the definition of hot-dip galvanized steel wire;
- adjust the strength grading;
- promote the index of slack rate for slack steel wire in grade I;
- increase reverse requirement for steel wire in grade I and steel wire without slack requirement;
- promote steel wire for regulating non-proportional extending strength.

The annex A of this standard is considered as normative annex.

This standard is proposed by China Iron and Steel Association.

This standard shall be under the jurisdiction of the National Steel Standardization Technical Committee.

The draft units of this standard are: Jiangyin Huazin Steel Cable Co., Ltd., Shanghai Shenjia Metal Works Co., Ltd., Metallurgical Industry Information Standard Research Institute, Bao Steel Group Shanghai Er Steel Co., Ltd., Ao'sheng (Jiujiang) Steel Wire and Steel Cable Co., Ltd., and Tianjing Metallurgical Group Huanzhong Steel Wire Co., Ltd.

The major drafters of this standard are: Li Yixin, Chen Huaqing, Zhang Weijun, Wang Lingjun, Sun Jinmao, Dai Shifeng, Zhou Daiyi, You Shengyi, Zhang Jianguo, and Gao Fei. This standard was released in 1997 for the first time.

Hot-dip Galvanized Steel Wires for Bridge Cables

1 Scope

This standard stipulated the hot-dip galvanized steel wires for bridge cable's definition, category and label, order content, dimension, weight and allowable deviation, technical requirement, test method, inspection rule, package, mark and quality certification etc.

This standard is applicable to bridge's cable rope, anchoring tension component, lifting and fixing tension component for the building, and other hot-dip galvanized round steel wire applied in civil works (hereinafter referred to as steel wire).

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 228 Metallic materials--Tensile testing at ambient temperature (GB/T 228-2002, eqv ISO 6892: 1998)

GB/T 238 Metallic materials--Wire--Reverse bend test (GB/T 238-2002, idt ISO 7801:1984)

GB/T 239 Metallic materials wire torsion test (GB/T 239-1999, eqv ISO 7800: 1984)

GB/T 2103-1988 General provisions for checking, packing, marking and quality certification of steel wire

GB/T 2972 Zinc-coated steel wire—Test method for uniformity of zinc coating on wire by the copper sulphate dip

GB/T 1839 Test method for gravimetric determination of mass per unit area of galvanized coatings steel products (GB/T 1839-2003, ISO 1460: 1992, MOD)

GB/T 2976 Metallic materials—Wire—Wrapping test (GB/T 2976-2004, ISO 7802: 1983, IDT)

GB/T 8653 Metallic materials; Determination of Youngs modulus, chord modulus,



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