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

GB/T 30550-2014

**Concentric lay stranded overhead electrical conductors
containing one or more gap (s)**

含有一个或多个间隙的同心绞架空导线

(English Translation)

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Foreword

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

This standard uses the translation method identical with IEC 62420:2008 "containing one or more gaps concentric lay stranded conductors." Correspondence between the consistency of the standards of international documents and normative references of the following documents.

--- GB/T 3428-2012 overhead stranded galvanized steel wire (IEC 60888. 1987, MOD);

--- GB/T 17937-2009 electrician aluminum-clad steel wires (IEC 61232:1993, MOD).

For ease of use, this standard made the following editorial changes.

--- Modify the composition containing one or more gaps concentric lay metal wire single line code, each represented by pinyin name Metal single line models (see Chapter 1);

--- Modify naming system product model representation, naming our table with the Pinyin for overhead conductors product model it shows, and give examples (see Chapter 4, Table

1 and Appendix E);

--- Added Appendix NA "This standard specifies the product model and IEC 62420:2008 corresponding to the specified product model case" (see Appendix NA).

The standard proposed by China Electrical Equipment Industrial Association.

The standard bare wire by the National Standardization Technical Committee (SAC/TC422) centralized.

1 Scope

This standard specifies containing one or more aluminum or aluminum alloy wires of self-supporting layer of concentric lay stranded conductors (see Figure 1) electrical and Mechanical behavior. The wire of any combination of the following single line of metal from.

- a) comply with GB/T 17048-2009 hard aluminum, named LY9, abbreviated as L;
- b) in line with GB/T 23308-2009 aluminum - magnesium - silicon alloy round wire, named LHA1 or LHA2;
- c) in line with GB/T 30551-2014 heat-resistant aluminum alloy wire and named NRLH1, NRLH2, NRLH3, NRLH4;
- d) compliance with IEC 60888. 1987 Grade 1 strength galvanized steel wire, named G1A or G1B;
- e) compliance with IEC 60888. 1987, class 2-strength galvanized steel wire, named G2A or G2B;
- f) compliance with IEC 60888. 1987 Level 3 strength galvanized steel wire, named G3A;
- g) compliance with IEC 61232:1993 aluminum clad steel wire, named LB20A, LB27, LB30 or LB40.

Note: This standard includes self-damping wire and wire gap-type structure Although the two conductors have the same structural characteristics between the twisted layer and layer has a twist or more gaps exist, but they are designed for different purposes. Self-damping conductors containing one or more gaps in order to increase self-damping, and the gap Gap when the wire is to install aluminum layer can slide freely on the center line of the core, and therefore the number of no more than one gap.

Concentric lay containing one or more aluminum or aluminum alloy layer twisted This standard applies to table 1 provides a variety of metal combinations wire.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references,

the latest edition (including any amendments) applies to this document.

GB/T 17048-2009 overhead wire with a hard aluminum (IEC 60889. 1987, IDT) GB/T 22077-2008 overhead wires creep test (IEC 61395:1998, IDT) GB/T 23308-2009 overhead stranded aluminum - magnesium - silicon alloy round wire (IEC 60104. 1987, IDT) GB/T 30551-2014 stranded conductors with heat-resistant aluminum alloy wires (IEC 62004:2007, IDT) IEC 60888. 1987 overhead stranded galvanized steel wire (Zinc-coated steel wires for stranded conductors) IEC 61232:1993 Electrical aluminum-clad steel wires (Aluminium-clad steel wires for electrical purposes)

3 Terms and Definitions

The following terms and definitions apply to this document.

Aluminum

All models of aluminum and aluminum alloys, see Chapter 1 requirements.

Annular gap Between the conductor layer in addition to the air and twist lubricating gap is not filled any other substance unchanged.