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

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Rubber assemblies for fixing overhead insulated conductors

架空绝缘导线固定橡胶组件

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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Overhead insulated wire fixing rubber assembly

1 Scope

This document specifies the structure, classification, marking, and technical requirements of rubber assemblies for fixing overhead insulated conductors (hereinafter referred to as "rubber assemblies").

Inspection rules, marking, packaging, transportation and storage; describes the test methods for rubber components.

This document applies to the production and inspection of rubber assemblies for overhead insulated conductors of 10kV and below.

2 Normative references

GB/T 528

GB/T 529-2008

GB/T 531.1

GB/T 713.7-2023

GB/T 1040.2

GB/T 1043.1

GB/T 1682-2014

GB/T 1690

GB/T 2828.1

GB/T 3098.6

GB/T 3098.15

GB/T 3505

GB/T 3512-2014

GB/T 9341

GB/T 10125

GB/T 13642-2015

GB/T 16422.3-2022

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

A composite material fastener for securing overhead insulated conductors (hereinafter referred to as "conductors") to insulators using bolt fastening.

Note. Use "BL" to represent it.

3.2

The method of fixing the conductor to the top groove of the insulator on the straight pole.

Note. Represented by "D".

3.3 4 Structure, Classification and Labelling

The method of fixing the conductor to the side groove of the insulator on the straight pole.

Note. Represented by "C".

4.1 Structure

The rubber assembly consists of rubber parts with rubber cover and reinforcing liner, and fasteners.

4.2 Classification

According to the fixing location, it is divided into top groove fixing and side groove fixing, as shown in Figure 1.

a) Top groove fixing rubber assembly Figure 1 Schematic diagram of rubber component structure

b) Side groove fixing rubber assembly Index number explanation. 1 --- Rubber coating

layer;

2 --- Insulator retaining ring reinforcing liner; 3 --- Fasteners;

4 --- Wire fixing ring reinforcing liner; 5 --- Wire retaining ring;

6 --- Insulator retaining ring;

phid1 --- Inner diameter of the insulator fixing ring;

phid2 --- Inner diameter of the conductor fixing ring;

h --- Height of the rubber component.

Figure 1. Schematic diagram of the rubber component structure (continued)

4.3 Marking

Rubber components should be marked in the following order. Product Name Code - Document Number - Specifications;

The specifications include. parameters of the fixing part - conductor outer diameter - matching insulator neck diameter - composite material (F).

Example. For distribution network conductors with an outer diameter of 26.6mm, matching insulator neck diameter of 73mm, and fixed by bolt-type rubber assembly with top-groove fixing, marked.

The standard is: BL-GB/T 46226-D-26-73-F.

5.1 Dimensions and Tolerancing

The dimensions and permissible deviations of the rubber components shall conform to the provisions of Tables 1 and 2.