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

GB/T 41647-2022

**Heat- shrinkable polyolefin sleeving for medium voltage joint
insulation**

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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 of Standardization Documents" drafted.

This document is revised and adopted IEC 60684-3-285.2014 "Insulated Hose Part 3. Specification for various types of hose Part 285. Thermal Polyolefin Hose for Shrinking Medium Pressure Fittings".

Compared with IEC 60684-3-285.2014, this document has made the following structural adjustments.

--- Added the chapter "Terms and Definitions", and the subsequent chapter numbers are extended;

---4.2 corresponds to the performance requirements and electrical strength requirements in Chapter 5 and Table 1 and Table 2 of IEC 60684-3-285.2014;

---5.1 corresponds to the first and second paragraphs of Chapter 4 and Chapter 6 in IEC 60684-3-285.2014;

---5.2~5.11 correspond to the test methods of Table 1 and Table 2 in IEC 60684-3-285.2014, and the third to sixth paragraphs of Chapter 6.

The technical differences between this document and IEC 60684-3-285.2014 and their reasons are as follows.

--- Deleted the "naming" in international documents (see Chapter 3 of international documents), whose naming rules are not in line with my country's national conditions.

--- Regarding normative reference documents, this document has made adjustments with technical differences, and the adjustments are concentrated in Chapter 2 "Regulations".

In the normative reference document", the specific adjustments are as follows.

* Added reference to GB/T 2828.1-2012 (see 6.1), the standards used in the inspection rules, which meet the technical conditions of our country;

* Replace IEC 60684-2.2011 with GB/T 7113.2-2014 modified to adopt IEC 60684-2.2003 (see 5.3~

5.11), in line with the technical conditions of our country.

--- Added model specifications (see 4.1.1), appearance requirements (see 4.1.2), in line with the actual needs of production and sales in my country.

--- Increased inspection rules (see Chapter 6), in line with my country's technical conditions, easy to apply.

--- Increased marking, packaging, transportation and storage (see Chapter 7), in line with my country's technical conditions, easy to apply.

The following editorial changes have been made to this document.

--- In order to be consistent with the existing standard series, the standard name is changed to "Polyolefin Hose for Heat Shrinkable Medium Pressure Fittings".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the technical requirements, test methods, inspection rules, and marking, packaging, and transportation of polyolefin hoses for heat-shrinkable medium-pressure joints

and storage.

This document applies to polyolefin hoses for heat shrinkable medium pressure fittings.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 2828.1-2012 Counting Sampling Inspection Procedure Part 1.Lot-by-Lot Inspection Sampling Count Retrieved by Acceptance Quality Limit (AQL)

Plan (ISO 2859-1.1999, IDT)

GB/T 7113.2-2014 Insulated Hose Part 2. Test Methods (IEC 60684-2.2003, MOD)

3 Terms and Definitions

There are no terms and definitions that need to be defined in this document.

4.1.1 Model Specifications

The type and specification of polyolefin hoses for heat shrinkable medium pressure joints shall meet the requirements of Table 1.

On the premise of complying with 4.1.2 and 4.2, add other model specifications.

Table 1 Model Specifications

in millimeters

Model and specification

30/12 ≥ 30 ≤ 12 3.60 $\pm$ 0.50

40/14 ≥ 38 ≤ 14 3.80 $\pm$ 0.50

45/17 ≥ 45 ≤ 17 3.80 $\pm$ 0.50

50/22 ≥ 50 ≤ 22 3.80 $\pm$ 0.50

55/22 ≥ 55 ≤ 22 5.80 $\pm$ 0.50

65/25 ≥ 65 ≤ 25 5.80 $\pm$ 0.50

85/29 ≥ 85 ≤ 29 5.80 $\pm$ 0.50

100/38 ≥ 100 ≤ 38 5.80 $\pm$ 0.50

120/41 ≥ 120 ≤ 41 5.80 $\pm$ 0.50