

ICS 29.060.20

CCS K13



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

GB/T 14049-2008

Replacing GB 14049-1993

Aerial insulated cables for rated voltage of 10kV

额定电压10kV架空绝缘电缆

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Foreword

This standard replaces GB 14049-1993 "rated voltage of 10kV, 35kV overhead insulated cables." This standard compared with GB 14049-1993, the main changes are as follows:

- Standard name changed to "rated voltage of 10kV overhead insulated cables";
- Deleted on the rated voltage 35kV overhead insulated cable entry (1993 Edition Chapter 1, 3.1.3, 4.1, Table 2, Table 3, 7.7.2, Table 5, Table 8);
- Increasing the nominal cross section 400mm² (Table 2, Table 3);
- Delete Conductor Stranding pitch diameter ratio and a predetermined twist to the (1993 version 7.2.5);
- A sign of increased core method (see 7.3.4);
- Delete shielded cable insulation partial discharge as a routine test project (1993 version 7.7.4);
- Modify the impulse voltage test value of 10kV overhead line (1993 edition Table 8 Table 8 of this standard);
- According to GB/T 1.1-2000 modified format. The Standard Appendix A, Appendix B and Appendix C are normative appendix. The standard proposed by China Electrical Equipment Industrial Association. This standard by the national wire and cable Standardization Technical Committee (SAC/TC213) centralized. This standard was drafted. Shanghai Electric Cable Research Institute, Jiangsu Far East Group Co., Ltd., Haikou Wit Electric Group Co., Ltd., Fujian Nanping Sun Cable Co., Ltd., Wuxi Jiangnan Cable Co., Ltd., Yangzhou Shuguang Cable Co., Ltd., Hunan Valin Cable Co., Ltd. Drafters of this Standard. Sun Jiansheng, Wang Chuanbin, Mongolia Zhong Kui, Van der hair, Liu Jun, Liang Guohua, Zhang Gongzhuo. This standard replaces the standards previously issued as follows:

--- GB 14049-1993. Rated voltage overhead insulated cable 10 k Vp

1 Scope

GB/T 14049-2008 is the Chinese national standard on aerial insulated cables for rated voltage of 10kV, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 June 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2009.

Classification: ICS 29.060.20, CCS K13. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the rated AC voltage of 10kV overhead insulated cables (overhead cable) product models, specifications, technical requirements, test side Law, inspection rules, packaging, transportation and storage. This standard applies to AC rated voltage U (Um) 10 (12) kV overhead power lines with copper, aluminum, aluminum alloy core crosslinked poly Ethylene (XLPE) and high density polyethylene (HDPE) insulated aerial cables.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1179-1999 Round wire concentric gallows empty line (eqv IEC 61089.1991)

GB/T 2951.1-1997 cable insulation and sheathing materials test methods - Part 1. General Test Methods 1. Thick Degree and dimension measurement - mechanical physical performance test (idt IEC 60811-1-1.1993)

GB/T 2951.2-1997 cable insulation and sheathing materials test methods - Part 1. General test methods - Part 2. Hot Aging methods (idt IEC 60811-1-2. 1985)

GB/T 2951.5-1997 cable insulation and sheathing materials test methods - Part 2. General test elastomeric compounds Party Act 1. Ozone resistance test - Hot set test - Mineral oil immersion test (idt IEC 60811-2-1. 1986)

GB/T 3048.4-2007 electrical wire and cable performance test methods - Part 4. Conductor

DC resistance test

GB/T 3048.5-2007 electrical wire and cable performance test methods - Part 5. Insulation resistance test

GB/T 3048.7-2007 electrical wire and cable performance test methods - Part 7. Tracking resistance test

GB/T 3048.8-2007 electrical wire and cable performance test methods - Part 8. AC voltage test (IEC 60060-1. 1989, NEQ)

GB/T 3048.11-2007 wire and cable electrical performance test methods - Part 11. dielectric loss tangent test

GB/T 3048.12-2007 wire and cable electrical performance test methods - Part 12. Partial discharge tests (IEC 60885-3. 1988, MOD)

GB/T 3682-2000 quality thermoplastic melt flow rate and melt volume flow rate measurement (idt ISO 1133. 1997)

GB/T 3953-1983 electrician round copper wire (neqASTMB1. 1970)

GB/T 3955-1983 electrician round aluminum (neqASTMB230. 1977)

3 Terms and definitions

3.1 Rated voltage is the reference voltage cable design and operation, represented by U (U_m), in units of kV. U

--- cable between two phase conductors