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

GB/T 22078.2-2008

**Power cables with cross-linked polyethylene insulation and their accessories for
rated voltage of 500kV ($U_m=550kV$) - Part2: Power cables with cross-linked
polyethylene insulation for rated voltage of 500kV ($U_m=550kV$)**

额定电压500kV($U_m=550kV$)交联聚乙烯绝缘电力电缆及其附件 第2部分: 额定电
压500kV($U_m=550kV$)交联聚乙烯绝缘电力电缆

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Foreword

GB/T 22078 "rated voltage of 500kV ($U_m = 550kV$) XLPE insulated power cables and accessories" is divided into three parts.

--- Part 1. Rated voltage 500kV ($U_m = 550kV$) XLPE insulated power cables and accessories and test methods Claim;

--- Part 2. Rated voltage 500kV ($U_m = 550kV$) XLPE insulated power cables;

--- Part 3. Rated voltage 500kV ($U_m = 550kV$) XLPE insulated power cable accessories.

This section GB/T 22078 Part 2. Appendix A of this section and Appendix B is an informative annex. This part is proposed by the China Electrical Equipment Industrial Association. This part of the National Standardization Technical Committee Wire and Cable (SAC/TC213) centralized. This part of the unit responsible for drafting. Shanghai Electric Cable Research Institute. Participated in the drafting of this section. Wuhan High Voltage Research Institute, Shenyang Furukawa Cable Co., Ltd., Shanghai on cable Fujikura Cable Co., Ltd., Qingdao Hanlan Group Co., Ltd. Zhejiang Wanma Cable Co., Ltd. Baosheng Science and Technology Innovation. The main drafters of this section. should Qiliang, Yang Liming, Zhang Daoli, Hualiang Wei, Chenpei Yun, Song Jiang Yi, the right to housing students. Rated voltage of 500 k Vp ($U_{m1} = 550 k Vp$) XLPE Insulated power cables and accessories Part 2. The rated voltage of 500 k Vp ($U_{m1} = 550 k Vp$) XLPE insulated power cable

1 Scope

GB/T 22078.2-2008 is the Chinese national standard on power cables with cross-linked polyethylene insulation and their accessories for rated voltage of 500kV ($U_m=550kV$) - part2: power cables with cross-linked polyethylene insulation for rated voltage of 500kV ($U_m=550kV$), 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 section GB/T 22078 specifies the rated voltage 500kV fixed installation ($U_m = 550\text{kV}$) XLPE insulated electric power Cable type, material, technical requirements, testing, inspection rules, packaging and storage. This section applies to single-core cables under normal installation and operating conditions, but not for special purposes such as submarine cables and other cables.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this section, however, encourage the parties to this part of the research agreement Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 2951.11-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 11. Common test methods - Measurement of thickness and overall dimensions - mechanical tests (IEC 60811-1-1.2001, IDT)

GB/T 2951.12-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 12. Common test methods - Thermal aging methods (IEC 60811-1-2. 1985, IDT)

GB/T 2951.14-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 14. Common test methods - Low temperature test (IEC 60811-1-4. 1985, IDT)

GB/T 2951.21-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 21. elastomeric compounds designed Test methods - Ozone resistance test - Hot set test - Mineral oil immersion tests (IEC 60811-2-1.2001, IDT)

GB/T 2951.31-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 31. Polyvinyl chloride mixture Special test method - high temperature pressure test - test for resistance to cracking (IEC 60811-3-1. 1985, IDT)

GB/T 2951.32-2008 cable and the cable Common test methods for insulating and

sheathing materials - Part 32. Polyvinyl chloride mixture Special test methods - Loss of mass test - Thermal stability test (

IEC 60811-3-2. 1985, IDT)

GB/T 2951.41-2008 cable and the cable Common test methods for insulating and sheathing materials Part 41. polyethylene and polypropylene Mixture special test methods - Resistance to environmental stress cracking test - a melt index measurement method - direct measurement of combustion of carbon black polyethylene And/or mineral filler content - Thermal gravimetric analysis (TGA) measurements of carbon black content - microscopy assessment of carbon black dispersion in polyethylene (IEC 60811-4-1.2004, IDT)

GB/T 2952.2-1989 cable outer sheath metallic sheathed cable General protective layer (IEC neq60055-2. 1981)

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