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电缆附件 选型指南

CABLE ACCESSORIES SELECTION GUIDE

◎防水性好 ◎应力控制 ◎屏蔽性强 ◎绝缘性好 ◎绿色环保

伊发控股集团有限公司
YIFA HOLDING GROUP CO.,LTD.

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伊发控股集团有限公司
YIFA HOLDING GROUP CO.,LTD.



YIFA Large Modernized Production Base Building area: 180000 m²

Brief Of Introduction

China YIFA Holding Group Co., Ltd. is a national high-tech enterprise group specialized in industrial electrical technology and also engaged in finance, e-commerce and trade and investment. It is a China Top 500 company, a China Top 500 company in the machinery industry, a national spark program enterprise, a famous brand in Jiangxi Province and a famous trade mark in Jiangxi Province. It is the designated supplier for centralized procurement by State Grid, China Southern Power Grid and national hydrological system. Its subsidiary Jiangxi YIFA Power Technology Co., Ltd. was listed in 2016 with the stock code 870154. The Group mainly develops, produces and sells such low-carbon, energy-conserving and eco-friendly products as photovoltaic substations, wind power substations, eco-friendly gas insulation ring main units, complete sets of electrical equipment, HV and extra high voltage substation equipment, glass reinforced plastic electric meter boxes, stainless steel and transparent boxes, HV and LV elements, wires and cables, explosion-proof electric apparatuses, building appliances, instruments, etc. The maximum capacity of transformers reaches 63000KVA and the voltage class reaches 220KV.

The Group owns three specialized industrial bases: Shanghai, Wenzhou and Jiangxi, five wholly-owned subsidiaries: Jiangxi YIFA Power Technology Co., Ltd., Shanghai YIFA Electric Co., Ltd., Zhejiang YIFA Import & Export Co., Ltd., Jiangxi YIFA Wires and Cables Co., Ltd., Yueqing YIFA Import & Export Co., Ltd., over three hundred agents and direct sales companies and over five hundred dealers all over China and its production and sales scale is at a leading position in multiple industries.

The Group has been appointed as the vice-chairman unit by Zhejiang Province Circuit-breaker Association, vice-chairman unit by Wenzhou Salesman Association and vice-chairman unit by Yueqing Transmission and Distribution Association. It has been awarded AAA Credit Rating Unit by China Construction Bank, Jiangxi Province AAA Quality Credit Unit, National AAAA Creditable Unit, Jiangxi Province Famous-brand Products, Jiangxi Province Famous Trade Mark, Jiangxi Province Technology Center, Zhejiang Province Technology-based Enterprise, Wenzhou Technology Innovation Enterprise, Municipal High-integrity Privately-owned Enterprise, Municipal Famous Trade Mark and Advanced Enterprise with harmonious employment relationship. It is also a partner of Shenyang High Voltage Apparatus Research Institute.

The Group applies advanced techniques and relies on reliable quality. By following the mission of "safety first and orientation to services" and undertaking the corporate responsibility of "building excellent products", it gradually establishes the quality management system meeting international advanced standards. It pioneers the certification by ISO Quality Management System and keeps it running well and effectively. All products are certified with "CCC" and authoritative test reports by competent agencies. The Group has spent a large amount of funds on the establishment of the technology development center where the most excellent domestic and foreign technical elites are centralized, endeavor great efforts to introduce domestic and foreign advanced techniques and equipment and establish the good partnership with multiple domestic and foreign scientific research organizations and colleges and universities to ensure that products meet the leading standards in the world. Additionally, the Group has obtained more than one hundred utility models for photovoltaic substations, wind power substations, eco-friendly gas insulation ring main unit, prepaid circuit breakers, intelligent re-closure circuit breakers, amorphous alloy transformers, box-type transformers, transparent anti-power theft electric meter boxes and transparent type circuit breakers and so on to fill the gap in China.

On the present day when optimized energy deployment and optimal energy utilization are proactively advocated, the Group follows the main policy of technology, environmental protection, energy conservation and low carbon and strives to develop sustainable power energies and Jiangxi Industrial Base follows the main research and development direction of photovoltaic and wind power.

The Group focuses on brand strategy, insists on marketing innovation and is listed among leading electrical industry players due to its rapid, healthy and continuous development trend. In the intense market competition, YIFA successively won the bids with State Grid Nationwide Power Corporation, successively won such international famous projects as Beijing Asian Games Village, Olympic Games supporting projects, etc., won extensive reputation and influences on the international stage and led "Made in China" towards "Created in China". YIFA products are widely applied in State Grid, China Southern Power Grid, high-speed railway, urbanization construction, oilfields, thermal power generation, airports, iron and steel companies and gas supply and heat supply and are sold to multiple countries and regions such as Japan, America, Russia, Southeast Asia, Middle East and Africa. By following the philosophy of customer orientation, the Group won good market reputation both internationally and domestically.

Technology creates quality and practical and hard work makes the dream come true. Looking forward to the future, YIFA will insist on the development strategy of specialization, be realistic and pragmatic, implement exploration and innovation and follow the goal of "building the globally leading substation enterprise and making the global brand for YIFA that lasts one hundred years". We hope that domestic and foreign peers and massive customers cooperate with and support us as always to contribute more to the "Chinese Dream".

集团简介 >>

伊发控股集团是一家以工业电气为主，涵盖金融、电商、贸易投资等多个产业的国家高新技术企业集团。中国企业500强，中国机械500强，国家星火计划企业，江西省名牌产品，江西省著名商标。国家电网、南方电网、国家水利系统集中规模采购指定供应商。旗下江西伊发电力科技股份有限公司已于2016年挂牌上市，股票代码：870154。集团主要开发、生产、销售光伏变电站、风能变电站、环保气体绝缘环网柜、成套电气设备、高压及超高压变电设备、玻璃钢电表箱、不锈钢及透明型箱体、高低压元器件、电线电缆、防爆电器、建筑电器、仪器仪表等等低碳、节能、环保产品。其中变压器制造最大容量达到63000KVA，电压等级达220KV。

集团公司拥有三大专业化产业基地：上海、温州、江西；五大全资子公司：江西伊发电力科技股份有限公司、上海伊发电器有限公司、浙江伊发输变电有限公司、江西伊发电线电缆有限公司、乐清市伊发进出口有限公司；三百多家代理商及直销公司、五百多家经销商遍布全国，产销规模位列多个行业的前茅。

集团公司是浙江省断路器行业协会副会长单位，温州营销协会副会长单位，乐清市输配电行业协会副会长单位。中国建设银行AAA信用等级单位，江西省AAA质量信用单位、国家AAAA重合同守信用单位、江西省名牌产品、江西省著名商标、江西省技术中心、浙江省科技型企业，温州科技创新型企业，市诚信民营企业、市名牌商标、劳动关系和谐先进企业。沈阳高压电器研究所合作伙伴。

集团公司运用先进的技术、过硬的质量为基础，以“安全为先，服务为本”为企业的宗旨，以“永恒追求产品的尽善尽美，制造精品”为企业的责任，逐步建立起符合国际先进标准的质量管理体系。率先通过ISO9001质量管理体系并保持良好有效的运行，全部产品均获“CCC”认证及权威检验机构检测报告。集团公司先后投入巨资建立了技术开发中心，集中了国内外最优秀的技术精英，大力引进国内外先进技术及设备，并与国内多家科研单位和高等院校建立了良好的合作关系，力争产品达到世界领先水平。并取得了光伏变电站、风能变电站、环保气体绝缘环网柜、预付费断路器、智能重合闸断路器、非晶合金变压器、箱式变电站、透明防窃电电表箱、透明型断路器等上百个实用新型专利，填补了国内空白。

在世界积极倡导能源优化配置和最佳利用的今天，集团公司以科技、环保、节能、低碳为主要方针，大力发展可持续电力能源，江西产业基地以光伏、风能等新能源为主要研究和方向。

集团公司注重品牌战略，坚持营销创新，以迅速、健康、持续的发展趋势跻身于电气行业前列。在激烈的市场竞争中，伊发在国网全国电力公司屡屡中标，并先后中标北京亚运村、奥运会配套工程等国际知名招标项目，在国际舞台上赢得了广泛的知名度和影响力，引领“中国制造”走向“中国创造”。伊发产品广泛应用于国网、南网、高铁、城市化建设、油田、火电、水电、机场、钢铁公司、供气供暖等重点工程。产品远销日本、美国、俄罗斯、东南亚、中东、非洲等多个国家和地区。遵循一切服务于客户的思想理念，集团公司在国际国内均取得了良好的市场信誉。

科技缔造品质，实干成就梦想。展望未来，伊发将坚持专业化的发展战略，求真务实，开拓创新，以“缔造全球领先的变电企业，成就伊发百年的世界品牌”为目标，我们期望国内外同仁和广大客户一如既往地合作与支持，为“中国梦”贡献更多的力量。

电气全产业链集成供应商

A full industry chain electric integration provider



◎国家电网/南方电网优质供应商 ◎中国机械500强 ◎国家星火计划企业
 ◎国家高新技术企业 ◎浙江省科技型企业 ◎江西省著名商标

Excellent supplier of State Grid and China Southern Power Grid,
 Top 500 mechanical manufacturers in China,
 National spark program enterprise, National High-tech Enterprise,
 Technology-based enterprise in Zhejiang Province,
 Famous Trademark in Jiangxi Province



ATTESTATION of conformity with European Directives
 CE

2014年中国机械500强

高新技术企业证书

国家级星火计划项目证书

二〇一五年度 百强企业

伊发控股集团有限公司 评为二〇一三年度 十佳外贸先进企业

YIFA 伊发 江西省著名商标

职业健康安全管理体系认证证书 OHSAS18001

环境管理体系认证证书 ISO14001

质量管理体系认证证书

CB	TÜV	DVE	S	CE	KEMA EUR	UL	CCC
	Germany	Germany	Sweden	EU	Netheland	USA	China

冷缩式电缆附件 Cold shrinkable cable accessories

全冷缩电缆附件憎水性好，具有优越的抗污秽、耐老化、耐寒耐热性能，特别适用于高海拔地区、寒冷地区、潮湿地区、盐雾地区及重污染地区。且安装时不用明火，特别适用于石油、化工、矿山等易燃易爆场所。

Completely contractive cable accessories are highly hydrophobic, excellently uncleaness resistant, aging resistant and coldness and heat resistant. They are specially suitable for being used in cold and humid regions with high elevations, heavy salt mist and heavy pollution. Moreover, no open fire needs to be used during installation and they are specially suitable for being used in places with combustibles and explosives such as petroleum plants, chemical plants, mines, etc.



产品特点及材料主要性能参数 Product Features and Main Technical Data of Materials

■ 概述 Overview

全冷缩技术：无需动火及特殊工具，只需轻轻抽取芯绳，就会依靠自身的弹性回缩，从而紧贴附在电缆上，每种规格可适用多种电缆线径，对电缆线径兼容性强。

绝缘可靠：采用液态硅橡胶，确保优良的绝缘性和高弹性。安装后始终对电缆本体保持恒定的径向压力，产品绝缘主体与电应力控制单元在工厂预成型为一个整体，局部放电电量小，与电缆本体同“呼吸”。

性能稳定：支撑管采用超声波焊接，保证了产品的可靠性和稳定性，拉伸永久变形率较低，提高产品的保质期。

密封性好：终端主体配合冷收缩分支指套、冷收缩绝缘管和端子密封管；中间接头采用三层防水密封工艺，保证附件优良的密封防潮性能。

安装简单：安装简单，操作方便，便于掌握。电缆预处理时，开剥距离短，安装空间需求小。接地方式采用恒力弹簧固定地线，无需焊接或绑铜线，且地线一段已压接端子，安装更加便捷。

运用广泛：抗污秽、耐老化、憎水性好，具备优良的耐腐蚀性、耐寒性及抗紫外线，保证长期使用性能稳定。特别适用于高海拔地区、寒冷地区、潮湿地区、盐雾地区及重污染地区。

Full contraction technique: no open fire and special tools are needed. Only core wires need to be extracted with small pressure so that these accessories can contract by leveraging their own elasticity to be attached firmly to the cable. For each specification, multiple cable diameters can apply and these accessories are highly compatible with cable diameters.

Reliable insulation: liquid silicone rubber is used to ensure excellent insulation and high elasticity. Upon installation, a constant radial pressure is maintained on the cable body. The insulation body of the product and electric stress control unit are preformed as a whole in the factory. Local discharge is small and these accessories can "breathe" synchronously with the cable body.

Stable performance: the supporting tube is ultrasonically welded. This ensures the reliability and stability of the product. The permanent elongation deformation is low so that the shelf life of the product is extended.

Good air tightness: the main body of the terminal forms a fitting with the cold contraction branch sleeve, cold contraction insulation tube and sealing tube; a three-layer waterproof sealing process is applied to the intermediate joint to ensure good moisture resistance of the accessories.

Easy installation: installation is easy, operation is convenient and these accessories are easy to control. During preparation of the cable, the stripping distance is short and the required space for installation is small. These accessories can be grounded with a constant spring for fixing the ground wire so that the copper wire does not need to be welded or bound and one section of the ground wire is connected with the terminal, thereby installation is easier.

Wide application: these accessories are dirt and aging resistant, highly hydrophobic, highly corrosion resistant, coldness resistant and UV resistant so that long-term stable performance is ensured. These accessories are specially suitable for being used in cold and humid regions with high elevations, heavy salt mist and heavy pollution.

■ 产品特点 Technical Data

序号 No.	项目 Item	数值 Value		测试依据 Basis
		绝缘硅橡胶 Insulation Silicone Rubber	导电硅橡胶 Conductive Silicone Rubber	
1	硬度邵氏 (A) Shore hardness (A)	40±5	40±5	GB/T 531
2	拉伸强度 (Mpa) Tensile strength (MPa)	≥6.5	≥6.5	GB/T 528
3	断裂伸长率 (%) Elongation at break (%)	≥650	≥650	GB/T 528
4	抗撕裂强度 (N/mm) Tear strength (N/mm)	≥30	≥30	GB/T 529
5	体积电阻率 (Ω·cm) Volume resistivity (Ω·cm)	≥5.0×10 ¹⁴	≥1.5×10 ³	GB/T 1692
6	介电常数 (50HZ) Dielectric constant (50HZ)	2.8-3.5		GB/T 1693
7	介电损耗角正切 Dielectric loss tangent	≤0.01		GB/T 1693
8	耐漏电起痕 PTI	≥1A3.5		GB/T 6553
9	介电强度 (kV/mm) Dielectric strength (kV/mm)	≥26		GB/T 1695
10	拉伸永久变形 Tensile set	≥10%		



高抗撕
High tear resistance



优良的憎水性
Excellent hydrophobicity

冷缩电缆附件应力控制方式 Methods for controlling of stresses on cold shrinkable accessories for power cables

目前，在35kV及以下电力电缆附件应力控制方式上有应力锥和应力管两种。采用应力锥缓解电场应力集中的方法，从电气的角度上来看是最可靠也是最有效的方法。

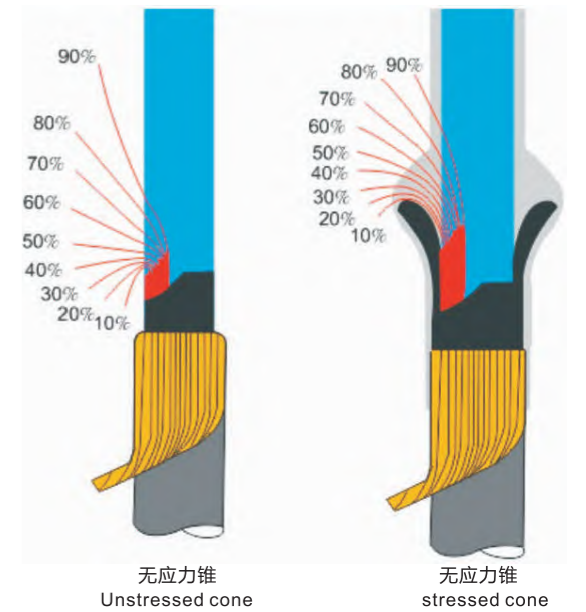
应力锥通过将绝缘屏蔽的切断处进行延伸，使其形成喇叭状，改善了电场分布，降低了电晕产生的可能性，保证了电缆的运行寿命。在110kV或更高的系统中就是采用应力锥控制法来均化电场。

应力管控制法存在材料分散性大，长期运行性能不稳定及附件产品与电缆绝缘之间抱紧力偏小等不足之处。所以我们选用的是可靠性较高的应力锥控制法。

Currently, there are two methods for controlling of stresses on power cable accessories with a voltage up to 35kV: stress cone and stress tube. From an electrical perspective, it is the most reliable and also most effective method to relieve the centralization of stresses in an electric field by using a stress cone.

The stress cone elongates the section for insulation shielding which is cut off to ensure that the section becomes horn shaped. This improves electric field distribution, decreases the probability of the generation of corona and ensures the operational life of the cable. The electric field is homogenized by using the stress cone in a system with a voltage of 110kV or above.

The stress tube has such shortcomings as great material dispersion, unstable long-term operational performance and small holding force between the accessory product and cable insulation, so we choose the stress cone method which is more reliable.



冷、热缩电缆附件遵循的标准 Standards to be met by cold and hot shrinkable accessories for power cables

■ 遵循的标准 Standards to be met

GB/T 12706.4 额定电压1kV~35kV挤包绝缘电力电缆及附件第四部分：额定电压6kV~35kV电力电缆附件试验要求

IEC 60502 额定电压1kV到30kV挤包绝缘电力电缆及其附件

GB/T 18889 额定电压6kV (Um=7.2kV) 到35kV (Um=40.5kV) 电力电缆附件试验方法

GB 9327 电缆导体压缩和机械连接接头试验方法

GB/T 14315 电线电缆导体用压接型铜、铝接线端子和连接管

JB/T 7829 额定电压26/35kV及以下电力电缆户内型、户外型热收缩式终端

JB/T 10740 额定电压6kV (Um=7.2kV) 到35kV (Um=40.5kV) 挤包绝缘电力电缆冷收缩式附件

JB/T 8144 额定电压26/35kV及以下电力电缆附件基本技术要求

DL/T 413 额定电压35kV (Um=40.5kV) 及以下电力电缆热缩式附件技术条件

GB 311.1 高压输变电设备绝缘配合

GB/T 311.2 绝缘配合

GB 50150 电气装置安装工程电气设备交接试验标准

DL/T 620 交流电气装置的过电压保护和绝缘配合

GB/T 12706.4 Power Cables with Extruded Insulation and Their Accessories for Rated Voltages from 1kV~35kV-Part 4: Test Requirements on Accessories for Cables with Rated Voltages from 6kV up to 35kV

IEC 60502 Power Cables with Extruded Insulation and Their Accessories for Rated Voltage from 1kV up to 30kV

GB/T 18889 Electric Cables-Test Methods for Accessories for Power Cables with Rated Voltages from 6kV up to 35kV

GB 9327 Compression and Mechanical Connectors for Power Cables-Test Methods and Requirements

GB/T 14315 Compression Type Terminal Lugs and Ferrules with Copper or Aluminum for Power Cables and Conductors

JB/T 7829 Indoor and Outdoor Thermally Shrinkable Terminals for Power Cables with a Rated Voltage up to 26/35kV

JB/T 10740 Cold Shrinkable Accessories for Extruded Insulation Power Cables with Rated Voltages from 6kV (Um=7.2kV) to 35kV (Um=40.5kV)

JB/T 8144 Basic Technical Requirements for Power Cable Accessories with Rated Voltages up to 26/35kV

DL/T 413 Technical Requirements of Heat Shrinkable Accessories for Power Cables with Rated Voltages up to 35kV (Um=40.5kV)

GB 311.1 Insulation Co-ordination of HV Power Transmission and Distribution Equipment

GB/T 311.2 Insulation Co-ordination

GB 50150 Standard for Hand-over Test of Electric Equipment-Electric Equipment Installation Engineering

DL/T 620 Overvoltage Protection and Insulation Coordination for AC Electrical Installations

■ 产品适用范围 Scope of application

我公司生产的冷缩系列产品适用于：

额定电压0.6/1kV，标称截面：10~630mm²的单芯、两芯、三芯、四芯和五芯橡塑绝缘电力电缆。

额定电压8.7/10kV、8.7/15kV，标称截面：25~630 mm²

额定电压12/20kV、18/20kV，标称截面：35~400 mm²

额定电压21/35kV、26/35kV，标称截面：50~500 mm²

The cold shrinkable series produced by us are suitable for:

Single-core, two-core, three-core, four-core and five-core rubber plastic insulation power cables with rated voltages of 0.6/1kV and nominal cross section area of 10~630mm²

Rated voltages of 8.7/10kV and 8.7/15kV and nominal cross section area of 25~630 mm²

Rated voltages of 12/20kV and 18/20kV and nominal cross section area of 35~400 mm²

Rated voltages of 21/35kV and 26/35kV and nominal cross section area of 50~500 mm²

■ 使用环境和条件 Ambient and service conditions

环境污秽等级：IV级污秽地区；

绝缘水平、载流量、长期工作温度和短路温度等性能均满足与其配套电缆的技术要求。

广泛应用于电力、石油、化工、矿山、铁路、钢铁等行业，尤其适用于多盐雾、严寒、高湿热以及不宜使用明火的情况。

Pollution grade: Grade IV;

The insulation level, current-carrying capacity, long-term operating temperature and short-circuit temperature meet technical requirements of the cables forming a complete set with these accessories.

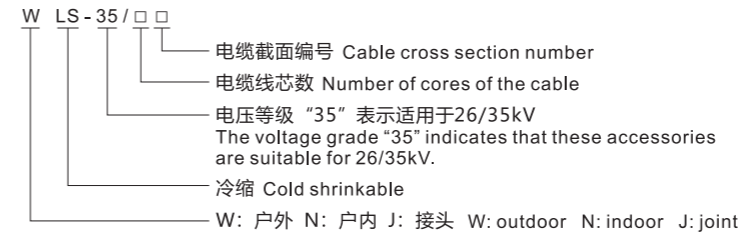
They are widely applied in the power, petroleum, chemical, mining, railway and steel industries and especially suitable for being used in scenarios with heavy salt mist, great coldness, high humidity and great heat where it is inappropriate to use open fire.

■ 10-35kV电缆附件主要试验参数 Main Test Data of Accessories for Cables with a Voltage of 10-35kV

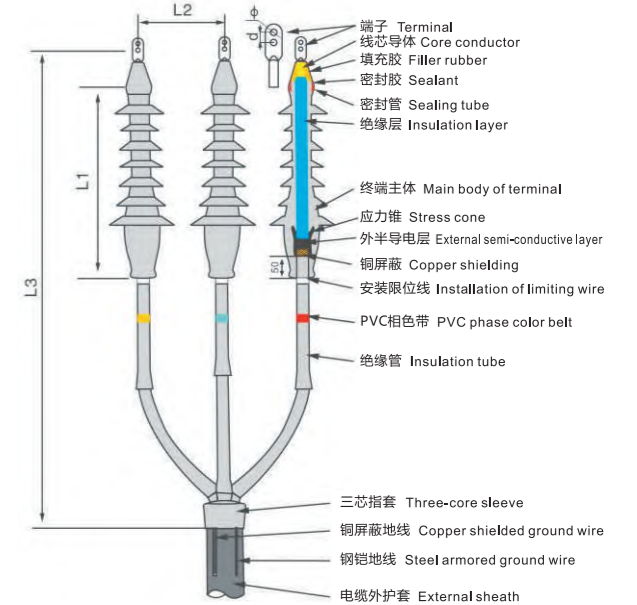
检测项目 Item	标准要求 Standard Requirements			检测结果 Result
	8.7/15kV	12/20kV	26/35kV	
5min工频耐压试验 5min power frequency voltage-withstand test	39kV, 不闪络, 不击穿 39kV, no flashover, no breakdown	54kV, 不闪络, 不击穿 54kV, no flashover, no breakdown	117kV, 不闪络, 不击穿 117kV, no flashover, no breakdown	不闪络, 不击穿 no flashover, no breakdown
1min户外终端淋雨工频电压试验 1min power frequency voltage-withstand test of outdoor terminal in rain	35kV, 不闪络, 不击穿 35kV, no flashover, no breakdown	48kV, 不闪络, 不击穿 48kV, no flashover, no breakdown	104kV, 不闪络, 不击穿 104kV, no flashover, no breakdown	不闪络, 不击穿 no flashover, no breakdown
室温下局部放电试验 Partial discharge test at room temperature	15kV下放电量不大于10pC The discharge at 15kV is no greater than 10pC	20kV下放电量不大于10pC The discharge at 20kV is no greater than 10pC	45kV下放电量不大于10pC The discharge at 45kV is no greater than 10pC	局放小于5pC The partial discharge is less than 5pC.
雷电冲击电压试验 (95-100℃) Lightning impulse voltage test (95-100℃)	95kV	125kV	200kV	不闪络, 不击穿 no flashover, no breakdown
恒压负荷循环试验 (空气中) Constant voltage load cycling test (in atmosphere)	23kV	30kV	65kV	由以下试验评定 Evaluated according to the following tests
高温下局部放电试验 Partial discharge test at high temperature	15kV	20kV	45kV	局放小于5pC The partial discharge is less than 5pC.
恒压负荷循环试验 (空气中) Constant voltage load cycling test (in atmosphere)	23kV	30kV	65kV	由以下试验评定 Evaluated according to the following tests
雷电冲击电压试验 Lightning impulse voltage test	95kV	125kV	200kV	不闪络, 不击穿 no flashover, no breakdown
15min交流耐压试验 15min AC voltage withstand test	23kV, 不闪络, 不击穿 23kV, no flashover, no breakdown	30kV, 不闪络, 不击穿 30kV, no flashover, no breakdown	65kV, 不闪络, 不击穿 65kV, no flashover, no breakdown	不闪络, 不击穿 no flashover, no breakdown
户外终端盐雾试验1000h Outdoor terminal salt mist test for 1000h	11kV, 不闪络, 不击穿 11kV, no flashover, no breakdown	15kV, 不闪络, 不击穿 15kV, no flashover, no breakdown	32.5kV, 不闪络, 不击穿 32.5kV, no flashover, no breakdown	不闪络, 不击穿 no flashover, no breakdown
户内终端潮湿试验300h Outdoor terminal humidity test for 300h	11kV, 不闪络, 不击穿 11kV, no flashover, no breakdown	15kV, 不闪络, 不击穿 15kV, no flashover, no breakdown	32.5kV, 不闪络, 不击穿 32.5kV, no flashover, no breakdown	不闪络, 不击穿 no flashover, no breakdown

26/35kV全冷缩电缆终端 (IV代) 26/35kV fully cold shrinkable cable terminal (Generation IV)

■ 型号及含义 Model and designation



参数 Parameter	电压等级35kV Voltage Grade 35kV	
	户外 Outdoor	户内 Indoor
L1	480	410
L2	≥400	≥400
L3	~1500	~1040
备注 Remarks	尺寸L3可以根据现场施工情况适当调整 The dimension L3 may be appropriately adjusted depending on construction conditions on the site.	



26/35kV冷缩三芯户外终端
26/35kV cold shrinkable three-core outdoor terminal

■ 产品规格 Specifications

序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Products		端子尺寸 Terminal Dimensions		适用电缆截面 (mm ²) Applicable Cross Sectional Area (mm ²)
		三芯 Three-core	单芯 Single-core	孔径φ	孔距d	
1	26/35kV全冷缩户外终端头 26/35kV fully cold shrinkable outdoor terminal	WLS-35/3*50	WLS-35/1*50	10.5	20	50
2		WLS-35/3*70	WLS-35/1*70	10.5	25	70
3		WLS-35/3*95	WLS-35/1*95	10.5	25	95
4		WLS-35/3*120	WLS-35/1*120	12.5	30	120
5		WLS-35/3*150	WLS-35/1*150	12.5	30	150
6		WLS-35/3*185	WLS-35/1*185	12.5	35	185
7		WLS-35/3*240	WLS-35/1*240	12.5	35	240
8		WLS-35/3*300	WLS-35/1*300	14.5	40	300
9		WLS-35/3*400	WLS-35/1*400	14.5	40	400
10		WLS-35/3*500	WLS-35/1*500	14.5	40	500
11	26/35kV全冷缩户内终端头 26/35kV fully cold shrinkable indoor terminal	NLS-35/3*50	NLS-35/1*50	10.5	20	50
12		NLS-35/3*70	NLS-35/1*70	10.5	25	70
13		NLS-35/3*95	NLS-35/1*95	10.5	25	95
14		NLS-35/3*120	NLS-35/1*120	12.5	30	120
15		NLS-35/3*150	NLS-35/1*150	12.5	30	150
16		NLS-35/3*185	NLS-35/1*185	12.5	35	185
17		NLS-35/3*240	NLS-35/1*240	12.5	35	240
18		NLS-35/3*300	NLS-35/1*300	14.5	40	300
19		NLS-35/3*400	NLS-35/1*400	14.5	40	400
20		NLS-35/3*500	NLS-35/1*500	14.5	40	500

注：IV代产品中连接金具采用低电阻、接触稳定的特制专用端子。

应力锥独特的结构设计，保证了产品良好的性能。

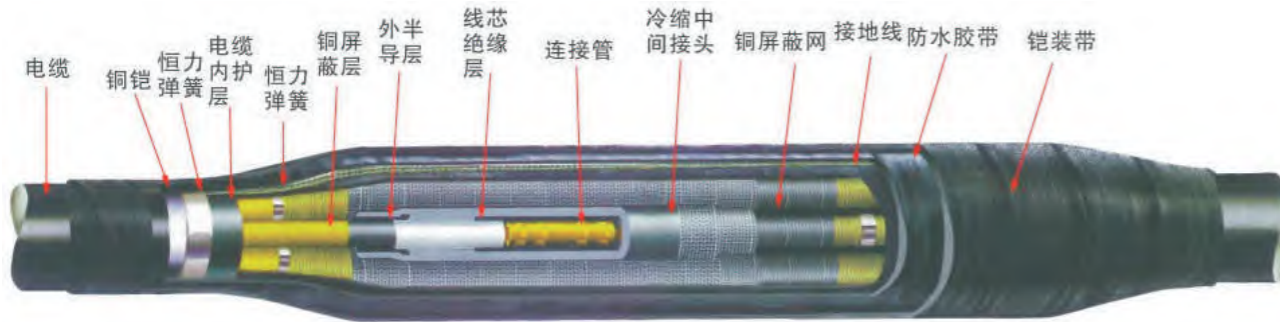
地线表面缩有热缩管，一端压接端子，安装使用更方便。

Note: Connection hardware in the Generation IV product is low resistance specially made terminals with stable contact.

The unique structural design of the stress cone ensures good performance of the product.

Hot shrinkable tubes are installed on the surface of the ground wire. One end is connected with the terminal, so installation and use are easier.

26/35kV全冷缩电缆中间接头 (IV代) 26/35kV fully cold shrinkable intermediate connector for power cables (Generation IV)



产品规格 Specifications

序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Product	适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
1	26/35kV全冷缩三芯中间接头 26/35kV fully cold shrinkable three-core intermediate connector	JLS-35/3*50	50
2		JLS-35/3*70	70
3		JLS-35/3*95	95
4		JLS-35/3*120	120
5		JLS-35/3*150	150
6		JLS-35/3*185	185
7		JLS-35/3*240	240
8		JLS-35/3*300	300
9		JLS-35/3*400	400
10		JLS-35/3*500	500
11	26/35kV全冷缩单芯中间接头 26/35kV fully cold shrinkable single-core intermediate connector	JLS-35/1*50	50
12		JLS-35/1*70	70
13		JLS-35/1*95	95
14		JLS-35/1*120	120
15		JLS-35/1*150	150
16		JLS-35/1*185	185
17		JLS-35/1*240	240
18		JLS-35/1*300	300
19		JLS-35/1*400	400
20		JLS-35/1*500	500

注：IV代产品配有通孔型连接管。应力锥独特的结构设计，保证了产品良好的性能。三层防水密封工艺，保证其良好的密封功能。

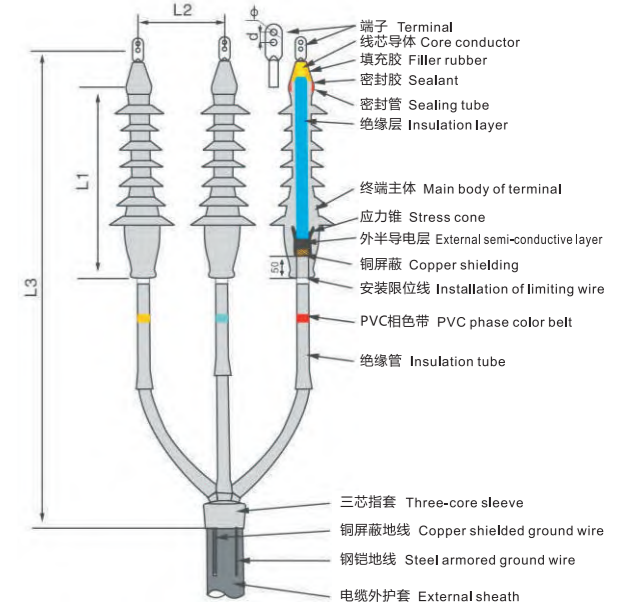
Note: The Generation IV product is equipped with a through hole type connection pipe. The unique structural design of the stress cone ensures good performance of the product. The three-layer waterproof sealing process ensures good sealing performance.



18/20kV全冷缩电缆终端 (IV代) 18/20kV fully cold shrinkable cable terminal (Generation IV)

型号及含义 Model and designation

W LS-20/□□-18
 表面适用于18/20kV电缆
 The surface is applicable to 18/20kV cables
 电缆截面编号 Cable cross section number
 电缆线芯数 Number of cores of the cable
 电压等级20kV Voltage grade 20kV
 冷缩 Cold shrinkable
 W: 户外 N: 户内 J: 接头 W: outdoor N: indoor J: joint



18/20kV冷缩三芯户外终端
18/20kV cold shrinkable three-core outdoor terminal

参数 Parameter	18/20kV	
	户外 Outdoor	户内 Indoor
L1	480	410
L2	≥300	≥300
L3	~1060	~1020
备注 Remarks	尺寸L3为常规尺寸，具体长度可按客户要求 The dimension L3 is a conventional dimension and the specific length may be as required by the customer.	

产品规格 Specifications

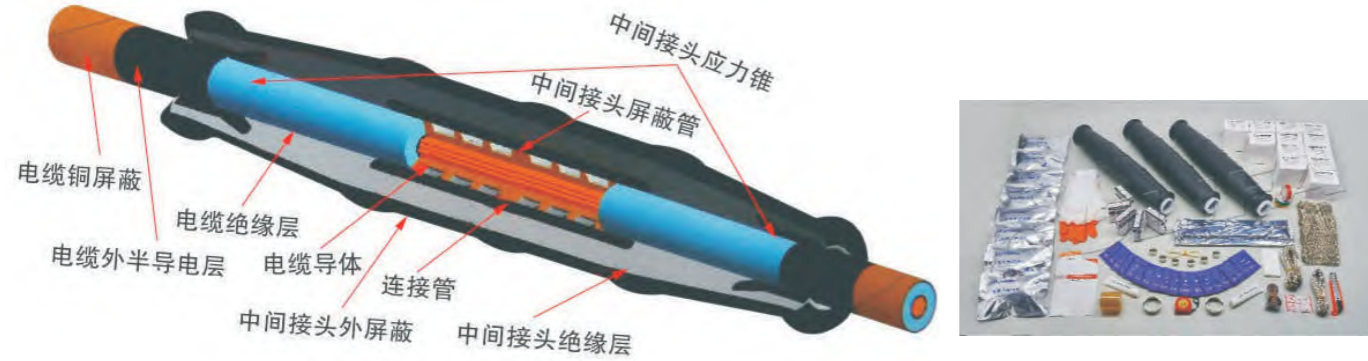
序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Products		端子尺寸 Terminal Dimensions		适用电缆截面 (mm ²) Applicable Cross Sectional Area (mm ²)
		三芯 Three-core	单芯 Single-core	孔径φ	孔距d	
1	18/20kV全冷缩户外终端头 18/20kV fully cold shrinkable outdoor terminal	WLS-20/3*35-18	WLS-20/3*35-18	10.5	20	35
2		WLS-20/3*50-18	WLS-20/1*50-18	10.5	20	50
3		WLS-20/3*70-18	WLS-20/1*70-18	10.5	25	70
4		WLS-20/3*95-18	WLS-20/1*95-18	10.5	25	95
5		WLS-20/3*120-18	WLS-20/1*120-18	12.5	30	120
6		WLS-20/3*150-18	WLS-20/1*150-18	12.5	30	150
7		WLS-20/3*185-18	WLS-20/1*185-18	12.5	35	185
8		WLS-20/3*240-18	WLS-20/1*240-18	12.5	35	240
9		WLS-20/3*300-18	WLS-20/1*300-18	14.5	40	300
10		WLS-20/3*400-18	WLS-20/1*400-18	14.5	40	400
11	18/20kV全冷缩户内终端头 18/20kV fully cold shrinkable indoor terminal	NLS-20/3*35-18	NLS-20/1*35-18	10.5	20	35
12		NLS-20/3*50-18	NLS-20/1*50-18	10.5	20	50
13		NLS-20/3*70-18	NLS-20/1*70-18	10.5	25	70
14		NLS-20/3*95-18	NLS-20/1*95-18	10.5	25	95
15		NLS-20/3*120-18	NLS-20/1*120-18	12.5	30	120
16		NLS-20/3*150-18	NLS-20/1*150-18	12.5	30	150
17		NLS-20/3*185-18	NLS-20/1*185-18	12.5	35	185
18		NLS-20/3*240-18	NLS-20/1*240-18	12.5	35	240
19		NLS-20/3*300-18	NLS-20/1*300-18	14.5	40	300
20		NLS-20/3*400-18	NLS-20/1*400-18	14.5	40	400

注：IV代产品中连接金具采用低电阻、接触稳定的特制专用端子。

应力锥独特的结构设计，保证了产品良好的性能。
地线表面缩有热缩管，一端压接端子，安装使用更方便。

Note: Connection hardware in the Generation IV product is low resistance specially made terminals with stable contact. The unique structural design of the stress cone ensures good performance of the product. Hot shrinkable tubes are installed on the surface of the ground wire. One end is connected with the terminal, so installation and use are easier.

18/20kV全冷缩电缆中间接头 (IV代) 18/20kV fully cold shrinkable intermediate connector for power cables (Generation IV)



产品规格 Specifications

序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Product	适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
1	18/20kV全冷缩三芯中间接头 18/20kV fully cold shrinkable three-core intermediate connector	JLS-20/3*35-18	35
2		JLS-20/3*50-18	50
3		JLS-20/3*70-18	70
4		JLS-20/3*95-18	95
5		JLS-20/3*120-18	120
6		JLS-20/3*150-18	150
7		JLS-20/3*185-18	185
8		JLS-20/3*240-18	240
9		JLS-20/3*300-18	300
10		JLS-20/3*400-18	400
11	18/20kV全冷缩单芯中间接头 18/20kV fully cold shrinkable single-core intermediate connector	JLS-20/1*35-18	35
12		JLS-20/1*50-18	50
13		JLS-20/1*70-18	70
14		JLS-20/1*95-18	95
15		JLS-20/1*120-18	120
16		JLS-20/1*150-18	150
17		JLS-20/1*185-18	185
18		JLS-20/1*240-18	240
19		JLS-20/1*300-18	300
20		JLS-20/1*400-18	400

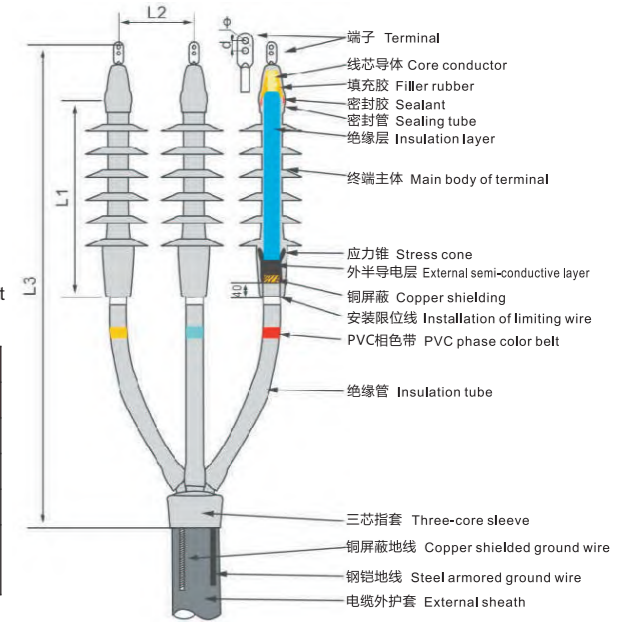
注：IV代产品配有通孔型连接管。应力锥独特的结构设计，保证了产品良好的性能。三层防水密封工艺，保证其良好的密封功能。

Note: The Generation IV product is equipped with a through hole type connection pipe. The unique structural design of the stress cone ensures good performance of the product. The three-layer waterproof sealing process ensures good sealing performance.

12/20kV全冷缩电缆终端 (IV代) 12/20kV fully cold shrinkable cable terminal (Generation IV)

型号及含义 Model and designation

W LS-20/□-12
 W: 户外 N: 户内 J: 接头 W: outdoor N: indoor J: joint
 表面适用于12/20kV电缆 The surface is applicable to 12/20kV cables
 电缆截面编号 Cable cross section number
 电缆线芯数 Number of cores of the cable
 电压等级20kV Voltage grade 20kV
 冷缩 Cold shrinkable



12/20kV冷缩三芯户外终端
12/20kV cold shrinkable three-core outdoor terminal

产品规格 Specifications

序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Products		端子尺寸 Terminal Dimensions		适用电缆截面 (mm ²) Applicable Cross Sectional Area (mm ²)
		三芯 Three-core	单芯 Single-core	孔径φ	孔距d	
1	12/20kV全冷缩户外终端头 12/20kV fully cold shrinkable outdoor terminal	WLS-20/3*25-12	WLS-20/1*25-12	8.4	/	25
2		WLS-20/3*35-12	WLS-20/1*35-12	10.5	20	35
3		WLS-20/3*50-12	WLS-20/1*50-12	10.5	20	50
4		WLS-20/3*70-12	WLS-20/1*70-12	10.5	25	70
5		WLS-20/3*95-12	WLS-20/1*95-12	10.5	25	95
6		WLS-20/3*120-12	WLS-20/1*120-12	12.5	30	120
7		WLS-20/3*150-12	WLS-20/1*150-12	12.5	30	150
8		WLS-20/3*185-12	WLS-20/1*185-12	12.5	35	185
9		WLS-20/3*240-12	WLS-20/1*240-12	12.5	35	240
10		WLS-20/3*300-12	WLS-20/1*300-12	14.5	40	300
11		WLS-20/3*400-12	WLS-20/1*400-12	14.5	40	400
12		12/20kV全冷缩户内终端头 12/20kV fully cold shrinkable indoor terminal	NLS-20/3*25-12	NLS-20/1*35-12	8.4	/
13	NLS-20/3*35-12		NLS-20/1*35-12	10.5	20	35
14	NLS-20/3*50-12		NLS-20/1*50-12	10.5	20	50
15	NLS-20/3*70-12		NLS-20/1*70-12	10.5	25	70
16	NLS-20/3*95-12		NLS-20/1*95-12	10.5	25	95
17	NLS-20/3*120-12		NLS-20/1*120-12	12.5	30	120
18	NLS-20/3*150-12		NLS-20/1*150-12	12.5	30	150
19	NLS-20/3*185-12		NLS-20/1*185-12	12.5	35	185
20	NLS-20/3*240-12		NLS-20/1*240-12	12.5	35	240
21	NLS-20/3*300-12		NLS-20/1*300-12	14.5	40	300
22	NLS-20/3*400-12	NLS-20/1*400-12	14.5	40	400	

注：IV代产品中连接金具采用低电阻、接触稳定的特制专用端子。应力锥独特的结构设计，保证了产品良好的性能。

地线表面缩有热缩管，一端压接端子，安装使用更方便。

Note: Connection hardware in the Generation IV product is low resistance specially made terminals with stable contact.

The unique structural design of the stress cone ensures good performance of the product.

Hot shrinkable tubes are installed on the surface of the ground wire. One end is connected with the terminal, so installation and use are easier.

12/20kV全冷缩电缆中间接头 (IV代) 12/20kV fully cold shrinkable intermediate connector for power cables (Generation IV)

产品规格 Specifications

序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Product	适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
1	12/20kV全冷缩三芯中间接头 12/20kV fully cold shrinkable three-core intermediate connector	JLS-20/3*25-12	25
2		JLS-20/3*35-12	35
3		JLS-20/3*50-12	50
4		JLS-20/3*70-12	70
5		JLS-20/3*95-12	95
6		JLS-20/3*120-12	120
7		JLS-20/3*150-12	150
8		JLS-20/3*185-12	185
9		JLS-20/3*240-12	240
10		JLS-20/3*300-12	300
11		JLS-20/3*400-12	400
12	12/20kV全冷缩单芯中间接头 12/20kV fully cold shrinkable single-core intermediate connector	JLS-20/1*25-12	25
13		JLS-20/1*35-12	35
14		JLS-20/1*50-12	50
15		JLS-20/1*70-12	70
16		JLS-20/1*95-12	95
17		JLS-20/1*120-12	120
18		JLS-20/1*150-12	150
19		JLS-20/1*185-12	185
20		JLS-20/1*240-12	240
21		JLS-20/1*300-12	300
22		JLS-20/1*400-12	400

注：IV代产品配有通孔型连接管。应力锥独特的结构设计，保证了产品良好的性能。三层防水密封工艺，保证其良好的密封功能。

Note: The Generation IV product is equipped with a through hole type connection pipe. The unique structural design of the stress cone ensures good performance of the product. The three-layer waterproof sealing process ensures good sealing performance.



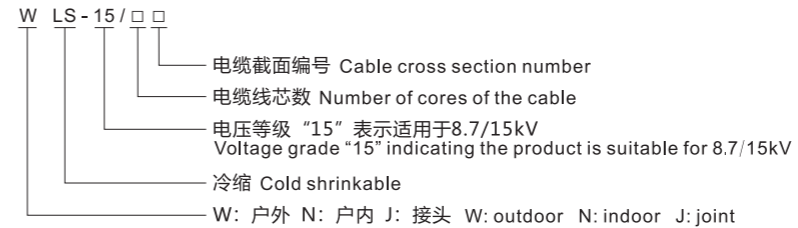
中间接头本体
Main body of intermediate connector



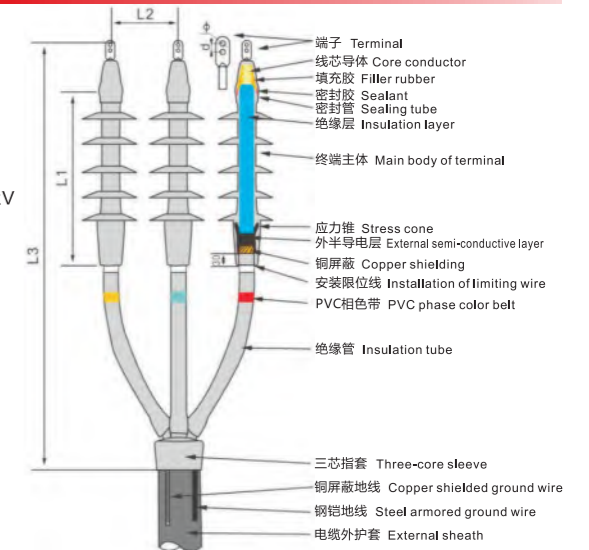
温馨提示：连接管请采用通孔型
Warm prompt: the connection pipe is of the through hole type

8.7/15kV全冷缩电缆终端 (IV代) 8.7/15kV fully cold shrinkable cable terminal (Generation IV)

型号及含义 Model and designation



参数 Parameter	8.7/15kV	
	户外 Outdoor	户内 Indoor
L1	290	200
L2	≥200	≥200
L3	~900	~820
备注 Remarks	尺寸L3为常规尺寸，具体长度可按客户要求 The dimension L3 is a conventional dimension and the specific length may be as required by the customer.	



8.7/15kV冷缩三芯户外终端
8.7/15kV cold shrinkable three-core outdoor terminal

产品规格 Specifications

序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Products		端子尺寸 Terminal Dimensions		适用电缆截面 (mm ²) Applicable Cross Sectional Area (mm ²)
		三芯 Three-core	单芯 Single-core	孔径φ	孔距d	
1	12/20kV全冷缩户外终端头 12/20kV fully cold shrinkable outdoor terminal	WLS-15/3*25	WLS-15/3*25	8.4	/	25
2		WLS-15/3*35	WLS-15/3*35	10.5	20	35
3		WLS-15/3*50	WLS-15/3*50	10.5	20	50
4		WLS-15/3*70	WLS-15/3*70	10.5	25	70
5		WLS-15/3*95	WLS-15/3*95	10.5	25	95
6		WLS-15/3*120	WLS-15/3*120	12.5	30	120
7		WLS-15/3*150	WLS-15/3*150	12.5	30	150
8		WLS-15/3*185	WLS-15/3*185	12.5	35	185
9		WLS-15/3*240	WLS-15/3*240	12.5	35	240
10		WLS-15/3*300	WLS-15/3*300	14.5	40	300
11		WLS-15/3*400	WLS-15/3*400	14.5	40	400
12		WLS-15/3*500	WLS-15/3*500	14.5	40	500
13		WLS-15/3*600	WLS-15/3*600	-	-	630
14	12/20kV全冷缩户内终端头 12/20kV fully cold shrinkable indoor terminal	NLS-15/3*25	NLS-15/3*25	8.4	/	25
15		NLS-15/3*35	NLS-15/3*35	10.5	20	35
16		NLS-15/3*50	NLS-15/3*50	10.5	20	50
17		NLS-15/3*70	NLS-15/3*70	10.5	25	70
18		NLS-15/3*95	NLS-15/3*95	10.5	25	95
19		NLS-15/3*120	NLS-15/3*120	12.5	30	120
20		NLS-15/3*150	NLS-15/3*150	12.5	30	150
21		NLS-15/3*185	NLS-15/3*185	12.5	35	185
22		NLS-15/3*240	NLS-15/3*240	12.5	35	240
23		NLS-15/3*300	NLS-15/3*300	14.5	40	300
24		NLS-15/3*400	NLS-15/3*400	14.5	40	400
25		NLS-15/3*500	NLS-15/3*500	14.5	40	500
26		NLS-15/3*630	NLS-15/3*630	-	-	630

注：IV代产品中连接金具采用低电阻、接触稳定的特制专用端子。应力锥独特的结构设计，保证了产品良好的性能。

地线表面缩有热缩管，一端压接端子，安装使用更方便。

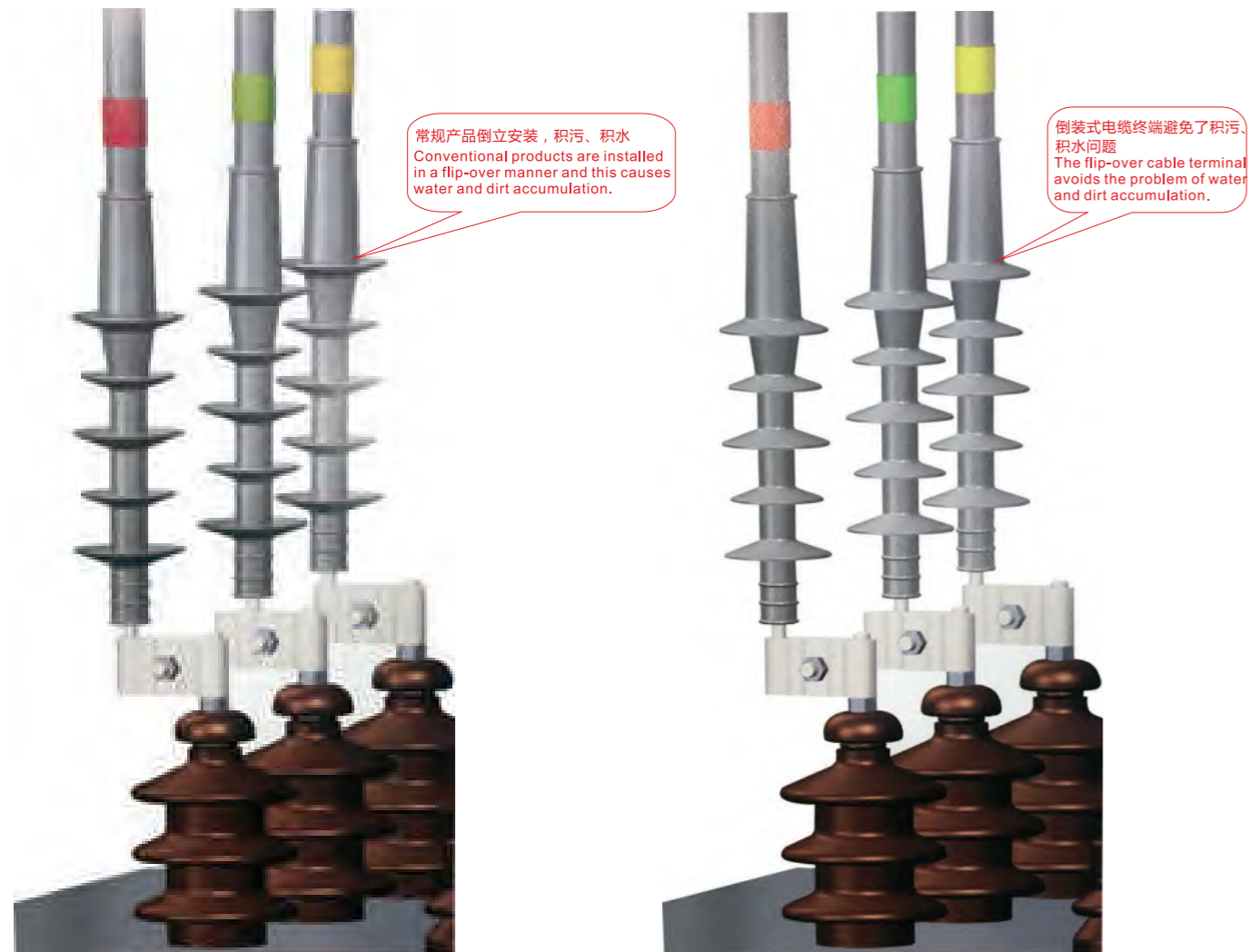
Note: Connection hardware in the Generation IV product is low resistance specially made terminals with stable contact. The unique structural design of the stress cone ensures good performance of the product.

Hot shrinkable tubes are installed on the surface of the ground wire. One end is connected with the terminal, so installation and use are easier.

8.7/15kV倒装式电缆终端 8.7/15kV flip-over type cable terminal

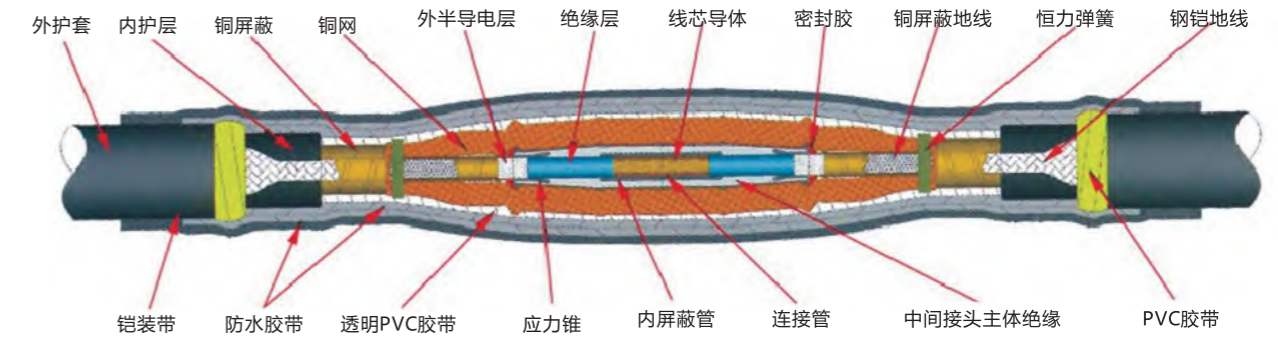
当8.7/15kV电缆由架空线路向下引到变压器高压端时，终端头伞裙方向需要向下才能起到防雨、防污的作用，为此我司开发了倒装式电缆终端，满足变压器附件安装的实际需求。

When the 8.7/15kV cable is led downward from the overhead line to the high voltage end of the transformer, the rainproof and dirtproof effect can be achieved only by making the umbrella skirt direction of the terminal downward. For this reason, we developed the flip-over type cable terminal to meet actual requirement for installation of transformer accessories.



序号 No.	产品名称 Product Name	规格型号 Specification and Model	适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
1	8.7/15kV冷缩单芯倒装式户外终端 8.7/15kV cold shrinkable single-core flip-over outdoor terminal	WLS-15/1.1F	25-50
2	8.7/15kV冷缩三芯倒装式户外终端 8.7/15kV cold shrinkable three-core flip-over outdoor terminal	WLS-15/3.1F	25-50

8.7/15kV全冷缩电缆中间接头 (IV代) 8.7/15kV fully cold shrinkable intermediate connector for power cables (Generation IV)



产品规格 Specifications

序号 No.	产品名称 Product Name	IV代产品规格型号 Specification and Model of Generation IV Product	适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
1	26/35kV全冷缩三芯中间接头 26/35kV fully cold shrinkable three-core intermediate connector	JLS-15/3*25	25
2		JLS-15/3*35	35
3		JLS-15/3*50	50
4		JLS-15/3*70	70
5		JLS-15/3*95	95
6		JLS-15/3*120	120
7		JLS-15/3*150	150
8		JLS-15/3*185	185
9		JLS-15/3*240	240
10		JLS-15/3*300	300
11		JLS-15/3*400	400
12		JLS-15/3*500	500
13		JLS-15/3*630	630
14	26/35kV全冷缩单芯中间接头 26/35kV fully cold shrinkable single-core intermediate connector	JLS-15/3*25	25
15		JLS-15/3*35	35
16		JLS-15/3*50	50
17		JLS-15/3*70	70
18		JLS-15/3*95	95
19		JLS-15/3*120	120
20		JLS-15/3*150	150
21		JLS-15/3*185	185
22		JLS-15/3*240	240
23		JLS-15/3*300	300
24		JLS-15/3*400	400
25		JLS-15/3*500	500
26		JLS-15/3*630	630

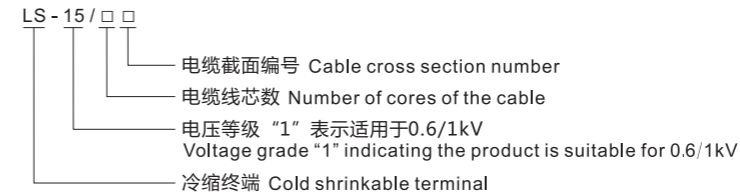
注：IV代产品配有通孔型连接管。应力锥独特的结构设计，保证了产品良好的性能。三层防水密封工艺，保证其良好的密封功能。
Note: The Generation IV product is equipped with a through hole type connection pipe. The unique structural design of the stress cone ensures good performance of the product. The three-layer waterproof sealing process ensures good sealing performance.

■ 第(III)代冷缩产品选型表 Model List of Generation (III) Cold Shrinkable Products

序号 No.	产品名称 Product Name	Ⅲ代产品规格型号 Specification and Model of Generation III Products		适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
		三芯 Three-core	单芯 Single-core	
1	26/35kV全冷缩户外终端头 26/35kV fully cold shrinkable outdoor terminal	WLS-35/3.1	WLS-35/1.1	50-120
2		WLS-35/3.2	WLS-35/1.2	150-240
3		WLS-35/3.3	WLS-35/1.3	300-400
4		WLS-35/3.4	WLS-35/1.4	500
5	26/35kV全冷缩户内终端头 26/35kV fully cold shrinkable indoor terminal	NLS-35/3.1	NLS-35/1.1	50-120
6		NLS-35/3.2	NLS-35/1.2	150-240
7		NLS-35/3.3	NLS-35/1.3	300-400
8		NLS-35/3.4	NLS-35/1.4	500
9	26/35kV全冷缩中间接头 26/35kV fully cold shrinkable intermediate connector	JLS-35/3.1	JLS-35/1.1	50-120
10		JLS-35/3.2	JLS-35/1.2	150-240
11		JLS-35/3.3	JLS-35/1.3	300-400
12		JLS-35/3.4	JLS-35/1.4	500
13	12/20kV全冷缩户外终端头 12/20kV fully cold shrinkable outdoor terminal	WLS-20/3.1-12	WLS-20/1.1-12	25-50
14		WLS-20/3.2-12	WLS-20/1.2-12	70-120
15		WLS-20/3.3-12	WLS-20/1.3-12	150-240
16		WLS-20/3.4-12	WLS-20/1.4-12	300-400
17	12/20kV全冷缩户内终端头 12/20kV fully cold shrinkable indoor terminal	NLS-20/3.1-12	NLS-20/1.1-12	25-50
18		NLS-20/3.2-12	NLS-20/1.2-12	70-120
19		NLS-20/3.3-12	NLS-20/1.3-12	150-240
20		NLS-20/3.4-12	NLS-20/1.4-12	300-400
21	12/20kV全冷缩中间接头 12/20kV fully cold shrinkable intermediate connector	JLS-20/3.1-12	JLS-20/1.1-12	25-50
22		JLS-20/3.2-12	JLS-20/1.2-12	70-120
23		JLS-20/3.3-12	JLS-20/1.3-12	150-240
24		JLS-20/3.4-12	JLS-20/1.4-12	300-400
25	8.7/15kV全冷缩户外终端头 8.7/15kV fully cold shrinkable outdoor terminal	WLS-15/3.1	WLS-15/1.1	25-50
26		WLS-15/3.2	WLS-15/1.2	70-120
27		WLS-15/3.3	WLS-15/1.3	150-240
28		WLS-15/3.4	WLS-15/1.4	300-400
29		WLS-15/3.5	WLS-15/1.5	500-630
30	8.7/15kV全冷缩户内终端头 8.7/15kV fully cold shrinkable indoor terminal	NLS-15/3.1	NLS-15/1.1	25-50
31		NLS-15/3.2	NLS-15/1.2	70-120
32		NLS-15/3.3	NLS-15/1.3	150-240
33		NLS-15/3.4	NLS-15/1.4	300-400
34		NLS-15/3.5	NLS-15/1.5	500-630
35	8.7/15kV全冷缩中间接头 8.7/15kV fully cold shrinkable intermediate connector	JLS-15/3.1	JLS-15/1.1	25-50
36		JLS-15/3.2	JLS-15/1.2	70-120
37		JLS-15/3.3	JLS-15/1.3	150-240
38		JLS-15/3.4	JLS-15/1.4	300-400
39		JLS-15/3.5	JLS-15/1.5	500-630

0.6/1kV全冷缩电缆终端 0.6/1kV fully cold shrinkable cable terminal

■ 型号及含义 Model and designation



注：有铠装电缆需选用配件包
Note: the fitting kit needs to be used in case of armored cables.

■ 产品规格 Specifications

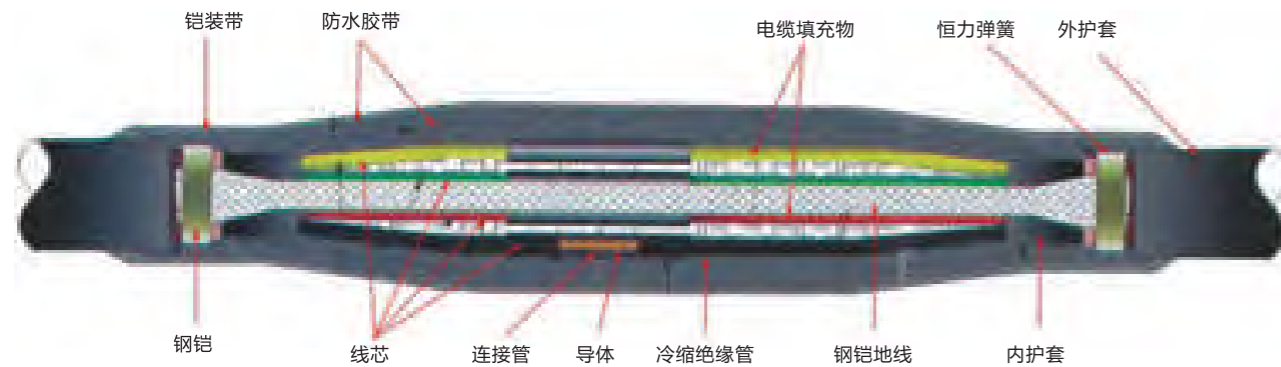
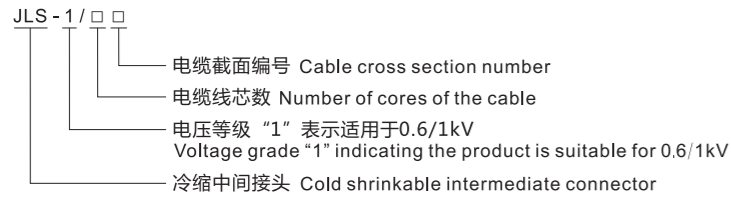
序号 No.	产品名称 Product Name	规格型号 Specification and Model	适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
1	0.6/1kV全冷缩单芯终端 0.6/1kV fully cold shrinkable single-core terminal	LS-1/1.0	10-16
2		LS-1/1.1	25-50
3		LS-1/1.2	70-120
4		LS-1/1.3	150-240
5		LS-1/1.4	300-400
6	0.6/1kV全冷缩二芯终端 0.6/1kV fully cold shrinkable two-core terminal	LS-1/2.0	10-16
7		LS-1/2.1	25-50
8		LS-1/2.2	70-120
9		LS-1/2.3	150-240
10	0.6/1kV全冷缩三芯终端 0.6/1kV fully cold shrinkable three-core terminal	LS-1/3.0	10-16
11		LS-1/3.1	25-50
12		LS-1/3.2	70-120
13		LS-1/3.3	150-240
14		LS-1/3.4	300-400
15	0.6/1kV全冷缩四芯终端 0.6/1kV fully cold shrinkable four-core terminal	LS-1/4.0	10-16
16		LS-1/4.1	25-50
17		LS-1/4.2	70-120
18		LS-1/4.3	150-240
19	0.6/1kV全冷缩五芯终端 0.6/1kV fully cold shrinkable five-core terminal	LS-1/4.4	300-400
20		LS-1/5.0	10-16
21		LS-1/5.1	25-50
22		LS-1/5.2	70-120
23		LS-1/5.3	150-240
24		LS-1/5.4	300-400
25			

■ 检测标准 Test Standard

0.6/1kV检测项目及其标准要求 0.6/1kV test items and standard requirements		结论 Conclusion
5min工频耐压试验 5min power-frequency voltage withstand test	8kV, 不闪络, 不击穿 8kV, no flashover, no breakdown	合格 Pass
负荷循环试验 (3个周期) Load circulation test (3 cycles)	导体加热至 (95-100) °C, 每一循环为8h, 其中加热5h, 冷却3h The conductor is heated to (95-100) °C and each cycle lasts 8h, consisting of 5h for heating and 3h for cooling.	由以下试验评定 Evaluated according to the following tests
4h工频耐压试验 4h power frequency voltage withstand test	7.2kV, 不闪络, 不击穿 7.2kV, no flashover, no breakdown	合格 Pass

8.7/15kV倒装式电缆终端 8.7/15kV flip-over type cable terminal

■ 型号及含义 Model and designation



■ 产品规格 Specifications

序号 No.	产品名称 Product Name	规格型号 Specification and Model	适用电缆截面 (mm ²) Applicable Cross Section of Cable (mm ²)
1	0.6/1kV全冷缩单芯终端 0.6/1kV fully cold shrinkable single-core terminal	JLS-1/1.0	10-16
2		JLS-1/1.1	25-50
3		JLS-1/1.2	70-120
4		JLS-1/1.3	150-240
5		JLS-1/1.4	300-400
6	0.6/1kV全冷缩二芯终端 0.6/1kV fully cold shrinkable two-core terminal	JLS-1/2.0	10-16
7		JLS-1/2.1	25-50
8		JLS-1/2.2	70-120
9		JLS-1/2.3	150-240
10	0.6/1kV全冷缩三芯终端 0.6/1kV fully cold shrinkable three-core terminal	JLS-1/2.4	300-400
11		JLS-1/3.0	10-16
12		JLS-1/3.1	25-50
13		JLS-1/3.2	70-120
14	0.6/1kV全冷缩四芯终端 0.6/1kV fully cold shrinkable four-core terminal	JLS-1/3.3	150-240
15		JLS-1/3.4	300-400
16		JLS-1/4.0	10-16
17		JLS-1/4.1	25-50
18	0.6/1kV全冷缩五芯终端 0.6/1kV fully cold shrinkable five-core terminal	JLS-1/4.2	70-120
19		JLS-1/4.3	150-240
20		JLS-1/4.4	300-400
21		JLS-1/5.0	10-16
22	0.6/1kV全冷缩五芯终端 0.6/1kV fully cold shrinkable five-core terminal	JLS-1/5.1	25-50
23		JLS-1/5.2	70-120
24		JLS-1/5.3	150-240
25		JLS-1/5.4	300-400



注：有铠装电缆需选用配件包
Note: in case of armored cables, the fitting kit needs to be used.

27.5kV (U₀)冷缩式终端、中间接头 27.5kV (U₀) cold shrinkable terminal and intermediate connector

■ 概述 Overview

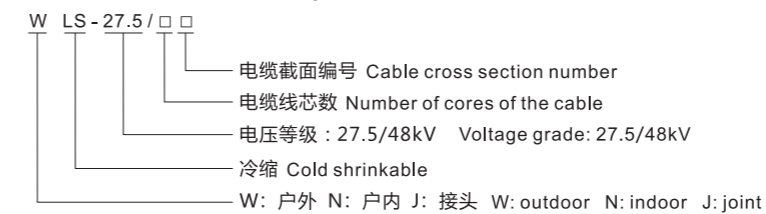
27.5kV (U₀) 电气化铁道专用电缆附件满足标称电压U₀/U=31.5/55kV电力系统；具有较高裕度的电气化铁路专用产品，使用于标称27.5kV (U₀) 电压等级的电气化铁路输变电线路。27.5kV (U₀) 电气化铁道专用电缆附件有户外终端、户内终端、中间接头，产品结构为冷缩式。

标称截面：25~1200mm²单芯交联聚乙烯绝缘及橡胶电力电缆。

27.5kV (U₀) cable accessories for electrified railway lines fulfill the power system with a nominal voltage of U₀/U=31.5/55kV. The special product for electrified railway lines which has a high allowance is used for electrified railway line power transmission and distribution lines with a nominal voltage of 27.5kV (U₀). Cable accessories dedicated to electrified railway lines with a voltage of 27.5kV (U₀) include outdoor terminals, indoor terminals and intermediate connectors. The products have a cold shrinkable structure.

Nominal cross section area: 25~1200mm² single-core cross linked polyethylene insulation and rubber power cables.

■ 型号及含义 Model and designation



■ 产品性能指标 Performance Indicators

检测项目 Test Item	标准要求 Standard Requirements	检测结果 Result
工频耐压试验 Power frequency voltage withstand test	145kV, 5min, 不闪络, 不击穿 145kV, 5min, no flashover and no breakdown	未闪络, 未击穿 145kV, 5min, no flashover and no breakdown
1min户外终端淋雨工频耐压试验 1min outdoor terminal power frequency voltage withstand test in rain	126kV下不闪络, 不击穿 No flashover and no breakdown at 126kV	未闪络, 未击穿 145kV, 5min, no flashover and no breakdown
室温下局部放电试验 Partial discharge test at room temperature	55kV下放电量不大于5pC The discharge is no greater than 5pC at 55kV.	放电量不大于5pC The discharge is no greater than 5pC
冲击电压试验 Impulse voltage test	300kV, 正负极性各10次, 不闪络, 不击穿 300kV, the positive and negative poles are tested 10 times and no flashover and breakdown occur	未闪络, 未击穿 145kV, 5min, no flashover and no breakdown
恒压负荷循环电压试验 (空气) Constant voltage load circulation voltage test (atmosphere)	69kV下, 导体加热至 (95-100) °C, 每一次循环为8h, 其中加热5h, 冷却3h, 共60次循环。其中中间接头30次循环在水中, 30次在空气中 At 69kV, the conductor is heated to (95-100) °C, each cycle lasts 8h, consisting of 5h for heating and 3h for cooling, and there are a total of 60 cycles, consisting of 30 cycles of the intermediate connector in the water and 30 cycles in the atmosphere	由以下试验评定 Evaluated according to the following tests
高温下局部放电试验 Partial discharge test at high temperature	导体加热至 (95-100) °C, 55kV下, 放电量不大于5pC The conductor is heated to (95-100) °C. At 55kV, the discharge is no greater than 5pC	放电量不大于5pC The discharge is no greater than 5pC
交流耐压试验 AC voltage withstand test	110kV, 4h, 不闪络, 不击穿 110kV, 4h, no flashover and breakdown	未闪络, 未击穿 145kV, 5min, no flashover and no breakdown



27.5/48kV冷缩户外终端
27.5/48kV cold shrinkable outdoor terminal



27.5/48kV冷缩户内终端
27.5/48kV cold shrinkable indoor terminal



27.5/48kV中间接头
27.5/48kV intermediate connector

热缩式电缆附件

Heat shrinkable accessories for power cables

辐射交联热收缩高分子材料用于电力电缆工程户内、外防护，具有极好的耐漏电痕及抗污秽性能，在恶劣的环境下能够保持长期、安全、稳定运行。我公司生产的热缩型电缆附件已通过权威检测，其性能达到国际同类产品先进水平。十几年来，我公司数百万套产品已在全国各地及东南亚、美洲地区安全可靠的运行。

Radiation crosslinked heat shrinkable polymer materials are used for indoor and outdoor protection of power cables. They have extremely good electric leakage trace resistance and dirt resistance and long-term, safe and stable operation can be maintained in a tough environment. Heat shrinkable accessories for power cables that we produced have passed authoritative tests and their performance reaches the advanced level of international products of the same type. Over more than ten years, millions of our products have been safely and reliably operated in China, Southeast Asia and America.



■ 概述 Overview

产品特点重量轻、运行可靠、安装方便，防水设计；

-35°C~40°C环境温度条件下，使用寿命超过20年；

收缩率：径向≥50%、轴向≤10%；

收缩温度：120°C~140°C；

通过标准：GB/T 12706、DL/T 413、JB/T 8144、IEEE Std.48、IEEE Std.404、IEC 60502；

Product features: light weight, reliable operation, easy installation and waterproof design;

The service life exceeds 20 years at an ambient temperature of -35°C~40°C;

Shrinkage: radial≥50%, axial≤10%;

Shrinkage temperature: 120°C~140°C;

Standards met: GB/T 12706, DL/T 413, JB/T 8144, IEEE Std.48, IEEE Std.404, IEC 60502;

■ 电应力控制 Control of electric stress

电缆附件能否可靠运行，主要取决于电缆屏蔽切断处的端部电场应力能否得到妥善的疏散。热收缩应力控制管所用的材料具有与连接处电缆屏蔽层相匹配的体积电阻率及介电常数，运行时在电缆屏蔽末端，形成一定特性的阻抗，起到电应力疏散作用，从而保证热缩电缆附件运行的可靠性和延长使用寿命。

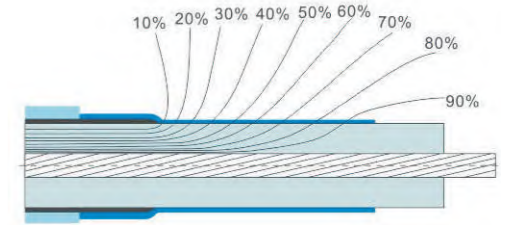
Whether accessories for power cables can operate reliably depends on whether the electric field stress at the end where the cable shield is cut off can be properly dispersed. The materials used for the heat shrinkable stress control pipe have the volume resistivity and dielectric constant matching those of the cable shielding layer at the connection end. During operation, a specific impedance is formed at the end of the cable shield and plays the role of dispersion of electric stress for the purpose of ensuring the reliable operation of the heat shrinkable accessories for power cables and extending the service life.

■ 材料主要性能 Main Performances of Materials

主要性能 Main Performance	绝缘管 Insulation Tub	应力管 Stress Pipe	导水管 Conductive Pipe	护套管 Sheath Pipe	伞裙 Umbrella Skirt	试验方法 Test Method
硬度 (邵氏A) Hardness (Shore A)	≤90	≤85	≤90	≤95	≤90	GB/T2411
抗张强度 (MPa) Tensile strength (MPa)	≥10	≥10	≥10	≥14	≥10	GB/T1040
断裂伸长率 (%) Elongation at break (%)	≥400	≥300	≥400	≥400	≥300	GB/T1040
热老化130°C/168h, 抗张强度变化率 Thermal aging 130°C/168h, tensile strength change rate	±20	±20	±20	±20	±20	GB/T7141
吸水率 (%) Water absorption (%)	< 0.1	-	-	< 0.1	< 0.1	GB/T1034
体积电阻率 (Ω·cm) Volume resistivity (Ω·cm)	≥10 ¹⁴	1×10 ⁹⁻¹⁰	≥10 ³	≥10 ¹⁴	≥10 ¹⁴	GB/T1410
击穿强度 (kV/mm) Breakdown strength (kV/mm)	≥20	-	-	≥20	≥20	GB/T1408
耐漏电痕迹电压 Voltage with leakage trace resistance	1A3.5	-	-	-	1A3.5	GB/T6553
介电常数 Dielectric constant	-	15-30	-	-	-	GB/T1409

注“-”表示不要求该项目

Note:“-” indicates that the item is not required.



应力控制时的电场分布
Electric field distribution during stress control

0.6/1kV热缩电缆附件 0.6/1kV heat shrinkable accessories for power cables

■ 概述 Overview

1kV热缩电缆附件产品广泛应用0.6/1kV橡塑绝缘电缆终端和中间连接的接续绝缘处理，根据电缆芯数分单芯、二芯、三芯、四芯、五芯等。并满足电缆不同截面。具有体积小、重量轻、运行可靠、安装方便等特点。

1kV heat shrinkable accessories for power cables are widely used for termination and insulation of 0.6/1kV rubber plastic insulation cable terminals and intermediate connections. They are classified as single-core, two-core, three-core, four-core and five-core products and match different cross sections of the cables. They are characterized by small size, light weight, reliable operation and easy installation.

■ 性能及指标 Performance and Indicators

试验项目 Test Item	标准要求 Standard Requirements	结论 Conclusion
5min power frequency voltage withstand test	8kV, 不闪络, 不击穿 8kV, no flashover and breakdown	合格 Pass
负荷循环试验 (3个周期) Load cycling test (3 cycles)	导体加热至 (95-100) °C, 每一循环为8h, 其中加热5h, 冷却3h The conductor is heated to (95-100) °C and each cycle lasts 8h consisting of 5h for heating and 3h for cooling.	由以下试验评定 Evaluated according to the following tests.
4h工频耐压试验 4h power frequency voltage withstand test	7.2kV, 不闪络, 不击穿 7.2kV, no flashover and breakdown	合格 Pass

■ 1kV热缩电缆终端规格型号 Specification and Model of 1kV heat shrinkable cable terminals

适用电缆截面 Applicable Cross Section Area of Cable		适用电缆芯数 Number of Applicable Cores of Cable				
序号 No.	截面 (mm) Cross Section Area (mm)	单芯 Single-core	二芯 Two-core	三芯 Three-core	四芯 Four-core	五芯 Five-core
1	10-16	SY-1/1.0	SY-1/2.0	SY-1/3.0	SY-1/4.0	SY-1/5.0
2	25-50	SY-1/1.1	SY-1/2.1	SY-1/3.1	SY-1/4.1	SY-1/5.1
3	70-120	SY-1/1.2	SY-1/2.2	SY-1/3.2	SY-1/4.2	SY-1/5.2
4	150-240	SY-1/1.3	SY-1/2.3	SY-1/3.3	SY-1/4.3	SY-1/5.3
5	300-400	SY-1/1.4	SY-1/2.4	SY-1/3.4	SY-1/4.4	SY-1/5.4

■ 1kV热缩电缆中间规格型号 Specification and Model of 1kV heat shrinkable cables

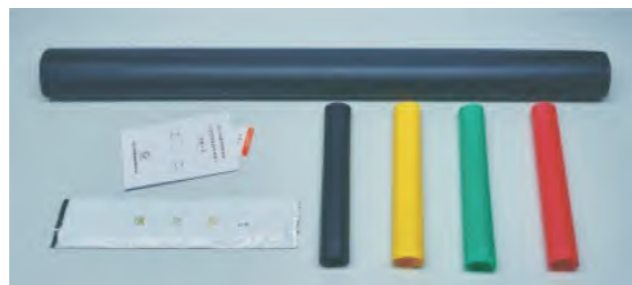
适用电缆截面 Applicable Cross Section Area of Cable		适用电缆芯数 Number of Applicable Cores of Cable				
序号 No.	截面 (mm) Cross Section Area (mm)	单芯 Single-core	二芯 Two-core	三芯 Three-core	四芯 Four-core	五芯 Five-core
1	10-16	JSY-1/1.0	JSY-1/2.0	JSY-1/3.0	JSY-1/4.0	JSY-1/5.0
2	25-50	JSY-1/1.1	JSY-1/2.1	JSY-1/3.1	JSY-1/4.1	JSY-1/5.1
3	70-120	JSY-1/1.2	JSY-1/2.2	JSY-1/3.2	JSY-1/4.2	JSY-1/5.2
4	150-240	JSY-1/1.3	JSY-1/2.3	JSY-1/3.3	JSY-1/4.3	JSY-1/5.3
5	300-400	JSY-1/1.4	JSY-1/2.4	JSY-1/3.4	JSY-1/4.4	JSY-1/5.4

注：有铠装电缆需选用配件包

Note: in case of armored cables, the fitting kit needs to be used.

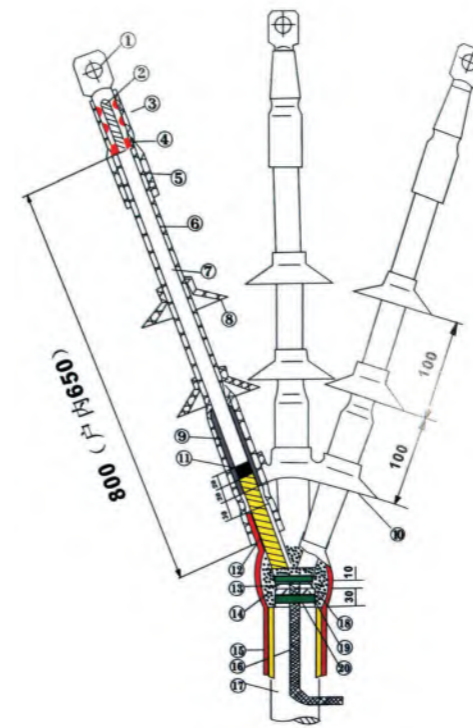


1kV五芯交联电缆终端组件
1kV five-core cross-linked cable terminal component



1kV四芯中间接头组件
1kV four-core intermediate connector component

8.7/15kV热缩电缆附件 8.7/15kV heat shrinkable accessories for power cables



10kV橡塑绝缘电力电缆热缩户外终端结构图

Structural diagram of heat shrinkable outdoor terminal for 10kV rubber plastic insulation power cables

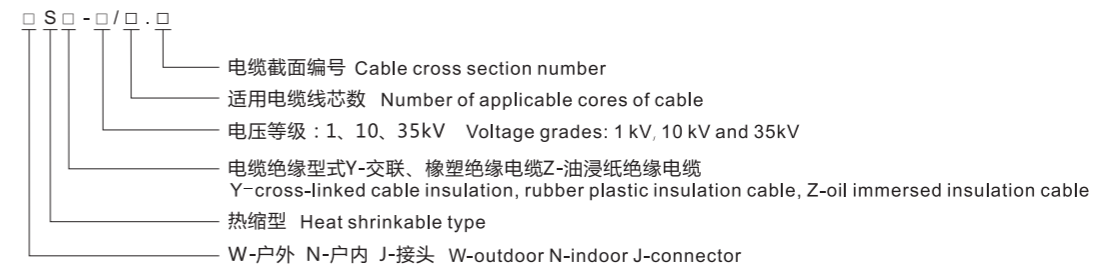
- | | |
|----------|------------------------------------|
| 1、接线端子 | 1. Terminal |
| 2、线芯 | 2. Core |
| 3、标记管 | 3. Marking tube |
| 4、填充胶 | 4. Filler rubber |
| 5、密封管 | 5. Seal pipe |
| 6、绝缘管 | 6. Insulation pipe |
| 7、主绝缘 | 7. Main insulation |
| 8、单孔雨裙 | 8. One-hole umbrella skirt |
| 9、应力管 | 9. Stress tube |
| 10、三孔雨裙 | 10. Three-hole umbrella skirt |
| 11、外半导体层 | 11. External semi-conductive layer |
| 12、铜屏蔽层 | 12. Copper shield layer |
| 13、内衬层 | 13. Lining layer |
| 14、填充胶 | 14. Filler rubber |
| 15、热缩支套 | 15. Heat shrinkable sleeve |
| 16、地线 | 16. Ground wire |
| 17、外护套 | 17. External sheath |
| 18、恒力弹簧 | 18. Constant force spring |
| 19、钢铠 | 19. Steel armor |
| 20、恒力弹簧 | 20. Constant force spring |

■ 用途及特点 Purpose and Characteristics

热缩型中压产品广泛应用于6~35kV交联电缆终端和中间连接的接续绝缘处理。具有体积小、重量轻、运行可靠、安装方便等特点。可根据用户需求进行多芯电缆、双地线结构或特殊要求的产品设计。

Heat shrinkable MV products are widely used for termination and insulation of 6~35kV cross-linked cable terminals and intermediate connections. They are characterized by small size, light weight, reliable operation and easy installation. Products with multi-core cables, dual-ground wire structure and special requirements can be designed according to the user's requirements.

■ 型号及含义 Model and designation



■ 示例 Sample

- WSY-10/3.2表示10kV交联电缆户外热缩终端，适用于截面70~120mm²的三芯电缆；
- JSZ-10/3.1表示10kV油浸纸绝缘电缆热缩中间接头，适用于截面25~50mm²的三芯电缆；

1. WSY-10/3.2 represents the 10kV cross-linked cable outdoor heat shrinkable terminal which is applicable to three-core cables with a cross section area of 70~120mm²;

2. JSZ-10/3.1 represents the heat shrinkable intermediate connector for 10kV oil immersed paper insulation cable which is applicable to three-core cables with a cross section area of 25~50mm².

■ 产品性能指标 Performance Indicators

序号 No.	试验项目 Test Item	试验要求 Test Requirements	试验结果 Test Results
1	工频耐压试验 Power-frequency voltage withstand test	39kV, 5min	不闪络、不击穿 No flashover and breakdown
2	局部放电试验 Partial discharge test	15kV, ≤ 10pC	放电量不大于10PC The discharge is no greater than 10PC.
3	冲击电压试验 Impulse voltage test	95kV, 正负极性各十次 95kV, Ten times each for positive and negative polarity	不闪络、不击穿 No flashover and breakdown
4	恒压负荷循环试验(空气中) Constant voltage load cycling test (in the atmosphere)	22kV, 导体加热至(95-100)℃, 每一循环为8h, 其中加热5h, 冷却3h, 共60次循环 The conductor is heated to (95-100)℃, each cycle is eight hours long. It is heated for 5 hours, cooled for 3 hours, totally about 60 cycles.	由后续试验评定 Evaluated according to the subsequent tests
5	高温下局部放电试验 Partial discharge test at high temperature	15kV, ≤ 10pC	放电量不大于10PC The discharge is no greater than 10PC.
6	交流耐压试验 AC voltage withstand test	22kV, 15min	不闪络、不击穿 No flashover and breakdown
7	户外终端盐雾试验 Outdoor terminal salt mist test	11kV, 1000h	不闪络、不击穿 No flashover and breakdown
8	户内终端潮湿试验 Indoor terminal humidity test	11kV, 300h	不闪络、不击穿 No flashover and breakdown

■ 10kV热缩电缆附件规格型号 Specification and Model of 10kV heat shrinkable accessories for power cables

适用电缆截面 Applicable Cross Section Area of Cable		户外热缩终端 Outdoor Heat Shrinkable Terminal		户内热缩终端 Indoor Heat Shrinkable Terminal		热缩中间接头 Heat Shrinkable Intermediate Connector	
序号 No.	截面 (mm) Cross Section Area (mm)	单芯 Single-core	三芯 Three-core	单芯 Single-core	三芯 Three-core	单芯 Single-core	三芯 Three-core
1	25-50	WSY-10/1.1	WSY-10/3.1	NSY-10/1.1	NSY-10/3.1	JSY-10/1.1	JSY-10/3.1
2	70-120	WSY-10/1.2	WSY-10/3.2	NSY-10/1.2	NSY-10/3.2	JSY-10/1.2	JSY-10/3.2
3	150-240	WSY-10/1.3	WSY-10/3.3	NSY-10/1.3	NSY-10/3.3	JSY-10/1.3	JSY-10/3.3
4	300-400	WSY-10/1.4	WSY-10/3.4	NSY-10/1.4	NSY-10/3.4	JSY-10/1.4	JSY-10/3.4

注：标配为单地线，可根据用户需求选配双地线。

Note: the standard configuration includes a single ground wire and double ground wires may be provided according to the user's requirements.



电缆户外热缩终端组件
Outdoor heat shrinkable terminal component for cables



热缩电缆中间接头组件
Intermediate connector component for heat shrinkable cables

20kV热收缩电缆附件 20kV heat shrinkable accessories for power cables

■ 概述 Overview

本产品适用电压等级为12/20kV、18/20kV，标称截面为25~400mm²的交联聚乙烯绝缘、乙丙橡胶绝缘的单芯、三芯电力电缆的户内、户外终端及中间接头，起绝缘、密封、连接作用。

本产品电应力控制方式为参数型，采用应力管。产品由绝缘管、半导体管、应力管、护套管、分支套、雨裙等组成。

This product is suitable for indoor and outdoor terminals and intermediate connectors of 12/20kV and 18/20kV single-core and three-core power cables with nominal cross sectional area of 25~400mm² and cross-linked polyethylene insulation. It plays the role of insulation, sealing and connection.

The method for control of electric stress of this product is parameter based and the stress pipe is used. This product consists of an insulation pipe, a semi-conductive pipe, a stress pipe, a sheath pipe, a branch sleeve and an umbrella skirt.

■ 12/20kV热缩式电缆附件规格型号 Specification and Model of 12/20kV heat shrinkable accessories for power cables

适用电缆截面 Applicable Cross Section Area of Cable		户外热缩终端 Outdoor Heat Shrinkable Terminal		户内热缩终端 Indoor Heat Shrinkable Terminal		热缩中间接头 Heat Shrinkable Intermediate Connector	
序号 No.	截面 (mm) Cross Section Area (mm)	单芯 Single-core	三芯 Three-core	单芯 Single-core	三芯 Three-core	单芯 Single-core	三芯 Three-core
1	25-50	WSY-20/1.1-12	WSY-20/3.1-12	NSY-20/1.1-12	NSY-20/3.1-12	JSY-20/1.1-12	JSY-20/3.1-12
2	70-120	WSY-20/1.2-12	WSY-20/3.2-12	NSY-20/1.2-12	NSY-20/3.2-12	JSY-20/1.2-12	JSY-20/3.2-12
3	150-240	WSY-20/1.3-12	WSY-20/3.3-12	NSY-20/1.3-12	NSY-20/3.3-12	JSY-20/1.3-12	JSY-20/3.3-12
4	300-400	WSY-20/1.4-12	WSY-20/3.4-12	NSY-20/1.4-12	NSY-20/3.4-12	JSY-20/1.4-12	JSY-20/3.4-12

注：根据客户需求可选用双地线结构。

Note: a dual-ground-wire structure should be selected according to the customer's requirements.

■ 18/20kV热缩式电缆附件规格型号 Specification and Model of 18/20kV heat shrinkable accessories for power cables

适用电缆截面 Applicable Cross Section Area of Cable		户外热缩终端 Outdoor Heat Shrinkable Terminal		户内热缩终端 Indoor Heat Shrinkable Terminal		热缩中间接头 Heat Shrinkable Intermediate Connector	
序号 No.	截面 (mm) Cross Section Area (mm)	单芯 Single-core	三芯 Three-core	单芯 Single-core	三芯 Three-core	单芯 Single-core	三芯 Three-core
1	35-70	WSY-20/1.1-18	WSY-20/3.1-18	NSY-20/1.1-18	NSY-20/3.1-18	JSY-20/1.1-18	JSY-20/3.1-18
2	95-185	WSY-20/1.2-18	WSY-20/3.2-18	NSY-20/1.2-18	NSY-20/3.2-18	JSY-20/1.2-18	JSY-20/3.2-18
3	240-400	WSY-20/1.3-18	WSY-20/3.3-18	NSY-20/1.3-18	NSY-20/3.3-18	JSY-20/1.3-18	JSY-20/3.3-18

注：根据客户需求可选用双地线结构。

Note: a dual-ground-wire structure should be selected according to the customer's requirements.

35kV热收缩电缆附件 35kV heat shrinkable accessories for power cables

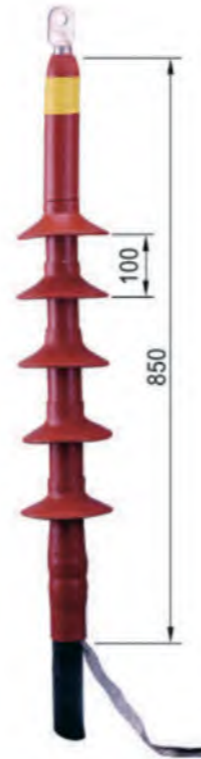
■ 概述 Overview

热缩型电缆附件广泛应用于35kV交流电缆终端和中间连接的接线绝缘处理。具有体积小、重量轻、运行可靠、安装方便等特点。根据用户需求进行多芯电缆、双地线结构或特殊要求的产品设计。

Heat shrinkable accessories for power cables are widely used for wire insulation of 35kV AC cable terminal and intermediate connections. They are characterized by small size, light weight, reliable operation and easy installation. The product is designed with multi-core cables and dual ground wire structure according to the customer's requirements.

■ 产品性能指标 Performance Indicators

序号 No.	试验项目 Test Item	试验要求 Test Requirements	试验结果 Test Results
1	工频耐压试验 Power-frequency voltage withstand test	117kV, 5min	不闪络、不击穿 No flashover and breakdown
2	局部放电试验 Partial discharge test	45kV, ≤ 10pC	放电量不大于10PC The discharge is no greater than 10PC.
3	冲击电压试验 Impulse voltage test	200kV, 正负极性各十次 200kV, Ten times each for positive and negative polarity	不闪络、不击穿 No flashover and breakdown
4	恒压负荷循环试验 (空气中) Constant voltage load cycling test (in the atmosphere)	65kV, 导体加热至(95-100)℃, 每一循环为8h, 其中加热5h, 冷却3h, 共60次循环 The conductor is heated to (95-100) °C, each cycle is eight hours long. It is heated for 5 hours, cooled for 3 hours, totally about 60 cycles.	由后续试验评定 Evaluated according to the subsequent tests
5	交流耐压试验 AC voltage withstand test	104kV, ≤ 4h	不闪络、不击穿 No flashover and breakdown



■ 35kV热缩电缆附件规格 Specifications of 35kV heat shrinkable accessories for power cables

电缆芯数 Number of Cores of Cable	户外热缩终端 Outdoor Heat Shrinkable Terminal	户内热缩终端 Indoor Heat Shrinkable Terminal	热缩中间接头 Heat Shrinkable Intermediate Connector	适用电缆截面 (mm ²) Applicable Cross Section Area of Cable (mm ²)
单芯 Single-core	WSY-35/1.1	NSY-35/1.1	JSY-35/1.1	50-120
	WSY-35/1.2	NSY-35/1.2	JSY-35/1.2	150-300
	WSY-35/1.3	NSY-35/1.3	JSY-35/1.3	400-500
三芯 Three-core	WSY-35/1.1	NSY-35/1.1	JSY-35/1.1	50-120
	WSY-35/1.2	NSY-35/1.2	JSY-35/1.2	150-300
	WSY-35/1.3	NSY-35/1.3	JSY-35/1.3	400-500

注：标配为单地线，可根据用户需求选配双地线。

Note: the standard configuration includes a single ground wire and double ground wires may be provided according to the user's requirements.



35kV热缩户外终端组件
35kV heat shrinkable outdoor terminal component

■ 附件安装技术支持 Technical Support for Components Installation

我公司有专业的中低压电缆附件安装服务队伍。服务人员已取得专业机构颁发的高压电缆附件安装资格证书，是一支高素质且安装经验丰富的专业施工服务队伍。

公司售后服务队在内地多地进行安装服务。始终以全心全意为用户服务为宗旨，坚持质量第一、荣誉至上，以可靠的安装质量服务于国内用户。同时，为了更好地服务于客户，我公司无偿为用户培训，已达到更好的安装质量和服务水平。

Our company has a professional team for installation service of low and medium voltage cable accessories. Service personnel have obtained the qualification certificate of installation of high voltage cable accessories issued by professional institutions, and are a high-quality professional construction team with rich installation experience.

Our company's after-sales service team provides installation services in many places in China. We always take serving users wholeheartedly as purpose, adhere to quality first, honor first, serving domestic users with reliable installation quality. At the same time, in order to provide better serve, our company provides free training for users to improve installation quality and service level.

■ 工程案例 Engineering cases



伊发电缆附件广泛应用于国家电网、南方电网
Yifa cable accessories are widely used in State Grid and China Southern Power Grid.



更多资讯详见公司网站 >>>
Search the company website for more information

质量保证及服务承诺

COMMITMENT TO QUALITY AND SERVICE

“以客为尊，快速反应”是伊发人的服务宗旨。集团本着对用户高度的责任感，为用户所想，为用户所急，质量第一，服务第一，切切实实做好服务工作。我集团所有产品全部通过CCC国家强制性产品认证，12KV、35KV箱式变电站及高压柜、环网柜均顺利取得国家高压检测中心型式试验报告。而且我集团在确保产品质量方面有着一套完整的质量保证体系，其中包括对产品售前、售中、售后服务和对客户的技术咨询及技术培训，我们完全同意和满足贵方设备招标的服务要求，为此本集团向顾客做出如下承诺：

售前服务承诺

为了让贵方进一步了解我集团产品性能，我们愿意向贵方义务提供产品性能及使用知识介绍，解答贵方对产品疑问等售前服务工作。

售中服务承诺

在合同签订以后，我们有义务免费向贵方提供一套系统的设计方案或配合贵方共同设计。在生产过程中我们积极配合贵方对设备监造工作。

售后服务承诺

设备运达交货地点后，我集团将按时派员到现场，与贵方共同进行验收接货工作，对设备的数量、规格型号和外观质量进行验收。验收标准为有关国家、部颁标准及双方签署的《技术协议书》。验收完毕后双方共同签署开箱记录。我集团对出厂的产品，定期进行质量跟踪服务，随时了解设备的运行情况，随时提供设备所需的备品、备件。根据需要派员跟进和技术支持。如贵方对我集团提供的产品因质量问题提出疑问，在接到贵方的通知后，我集团将在24小时内派技术人员到达设备使用现场进行处理。我集团产品质保期为12个月，在质保期内，保证兑现“三包”（包退、包换、包修理）。若

因设备缺陷达不到《技术协议书》所要求的条件，我方免费为贵方提供所需更换的部件和采取必要的改进措施，直至达到技术协议书所要求的条件。

伊发控股集团有限公司
YIFA HOLDING GROUP CO.,LTD.

COMMITMENT TO QUALITY AND SERVICE

“Orientation to customers and rapid response” is the service tenet of YIFA's employees. Based on the great sense of responsibility for the users, the Group is oriented to the users, ensures that quality and service come first and will implement services well. All products of the Group are certified with CCC and 12KV and 35KV box type substations and high-voltage cabinets and ring main units have the type test report by National High Voltage Test Center. Moreover, the Group has a complete quality assurance system for product quality assurance and such system includes technical consultation and technical training for pre-sale, sale and after-sale services and customers. We fully agree to and are satisfied with your service requirements for the equipment bidding and we make the following commitments to the customers:

Pre-sale services

To enable you to further understand the performance of our products, we are willing to provide you free of charge the brief description of product performance and knowledge for use and answer your questions about the products.

Sale services

Upon signing of the contract, we are obliged to provide you free of charge a systematic design scheme or design the products in cooperation with you. During production, we will proactively cooperate with you on the equipment manufacture supervision.

After-sale services

After the equipment arrives at the delivery site, we will dispatch personnel to the site on schedule, examine the goods in cooperation with you and examine the quantity, specification and model and appearance and quality of the equipment. Acceptance standards are relevant national standards and those issued by the ministry and Technical Agreement signed by and between both parties. Upon completion of acceptance, both parties shall sign the unpacking record. We will periodically implement quality tracking service of the outgoing products, obtain knowledge about the operating status of the equipment at any time and provide spare parts for the equipment at any time. We will dispatch personnel for follow-up and technical support according to needs. If you raise any question about products we provide due to the quality problem, upon receipt of your notice we will dispatch technicians to the site to handle the situation within 24 hours. Our product warranty period is 12 months. During the warranty period, the “three guarantees” (repair or replacement or compensation of faulty products) will be implemented. If conditions required in Technical Agreement fail to be met due to equipment defects, we will provide free of charge to you needed replacement parts and take necessary improvement measures until conditions required in Technical Agreement are met.

China YIFA Holding Group Co., Ltd.