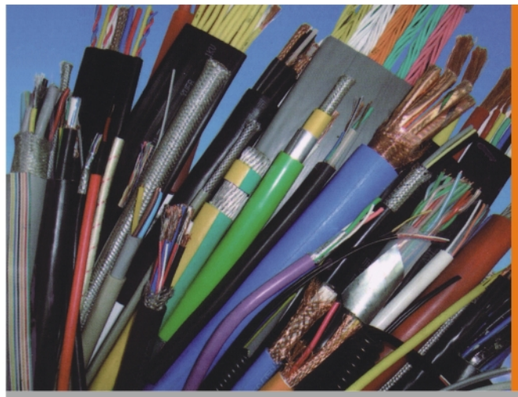
电线电缆产品
Wires and cables

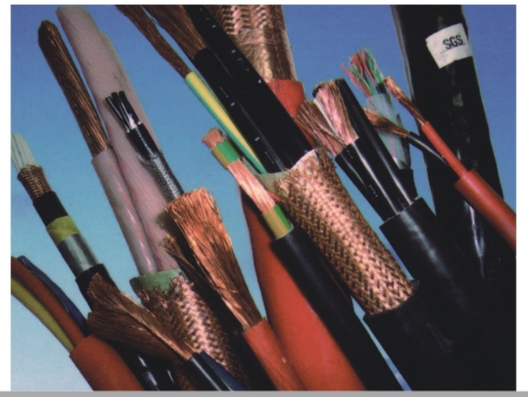
选 型 手 册
Products Manual

遼寧科瑞德電纜有限公司

秉持精湛技术　奉献优质产品

海飞达电缆





LIAONING CREATE CABLE CO.,LTD

电线电缆产品　选型手册

海飞达电缆

遼寧科瑞德電纜有限公司
LIAONING CREATE CABLE CO.,LTD

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Http：//www.lnkrd.com

遼寧科瑞德電纜有限公司


HFD
海飞达电缆

企业简介

辽宁科瑞德电缆有限公司是集设计、研发、制造、销售为一体的电线电缆专业化企业。公司位于国家级生态区沈阳市沈北新区，注册资金6000万人民币。占地面积36000平方米，建筑面积27000平方米。

公司已取得全国工业产品生产许可证、国家强制性产品CCC认证、欧盟CE认证、美国UL认证、俄罗斯EAC认证，已通过ISO 9001质量管理体系认证，ISO 14001环境管理体系认证，为AAA级信用企业、高新技术企业、中国石油天然气集团公司一级供应网络成员、大庆石油管理局物资装备总公司成员、中国蓝星（集团）总公司指定供应商、铁道部工程交易中心会员、中国产品质量电子监管网会员。<海飞达牌>系列电线电缆被评为辽宁省、沈阳市著名商标、名牌产品。连续多年被授予“守合同重信用”、“质量信誉保证企业”。

公司专业生产<海飞达牌>计算机仪表电缆、氟塑料耐高温电缆、硅橡胶绝缘耐热电缆、屏蔽信号电缆、补偿导线、同轴射频电缆、报警热敏电缆、自限温加热电缆、高柔性拖链电缆、机器人电缆、移动用电梯扁平电缆、变频电缆、螺旋电缆、风力发电机组电缆、综合电缆、总线电缆、控制电缆、交联电缆、光伏电缆、安装电缆、中低压电力电缆及具有阻燃、耐火、本安、低卤低烟、无卤低烟辐照交联等特性，共30多个系列几万种规格。依靠具有国际、国内先进水平的生产设备和完善的检测设备，严格按照国家标准生产，也可按美国（ASTM,UL）、英国（BS）、欧盟（EN）、日本（JIS）、德国（DIN）等各国标准生产。以稳定可靠的产品质量和良好的售后服务为石油、化工、电力、冶金、机械、电子、航天、制药、煤炭、水泥、建筑、铁路、地铁、能源、环保、消防工程等行业和科研部门、国家重点工程提供了大量的产品，并出口到十几个国家和地区。

“秉持精湛技术，奉献优质产品”，热忱欢迎国内外各界朋友光临惠顾、真诚合作、携手并进。

About us

Liaoning Create Cable Co., Ltd. is the design, research and development, manufacturing, and sales of specialized wire and cable enterprise. Company is locates in the National Ecological District–Shenyang Shenbei, registered capital of 60 million yuan. Covers an area of 36000 square meters, construction area of 27000 square meters.

Company has obtained national industrial production permit, CCC national mandatory product certification, EU CE Certification, American UL certification, Russian EAC certification, has passed the ISO 9001 quality management system certification, the ISO 14001 environmental management system certification, and is the AAA grade credit enterprise, high–tech enterprises. China National Petroleum Corporation A Grade supply network member, member of Daqing Petroleum Administration Bureau Materials And Equipment Corporation, a designated supplier of China National Blue–star (Group) Corporation, member of the ministry of Railways Project Exchange Center, China product quality electronic supervision network member. “Hai fei Da” brand series wire and cable was named Liaoning Province, Shenyang City the famous trade mark, brand product. Company was awarded “keep contract and prestige”, “Credibility and quality assurance enterprise” for many years by the Liaoning province, Shenyang city.

Company specializes in producing “Hai fei Da” brand computer instrument cable, fluorine plastic heat resistance cable, silicone rubber insulated heat resistant cable, shielded signal cable, the compensation wire , radio frequency coaxial cable, alarm heat sensitive cable, self limiting temperature heating cables, high flexible drag chain cable, robot cable ,movable elevator flat cable, inverter cable ,spiral cable, wind power(unit) cable, composite cable, bus cable, control cables, crosslinking cable, PV cable, installation cables, low and medium voltage power cables, and cable which has the characteristics of flame retardant, fire resistant, intrinsic safety, low smoke and low halogen,

low smoke halogen–free total of more than and 30 series,tens of thousands of kinds of specifications. Rely on production equipment, perfect testing equipment with the domestic and international advanced level, we can produce cable in strict accordance with national standards, also can according to the US(ASTM,UL), UK (BS), EU(EN)，Japanese(JIS), Germany(DIN) etc other national standard. A stable and reliable product quality and good after–sales service for the petroleum, chemical, electric power, metallurgy, machinery, electronics, spaceflight, pharmaceuticals, coal, cement, construction, railway, subway, energy, environmental protection, fire engineering etc. industries and scientific research departments, national key project to provide a large number of products, and exported to dozens of countries and regions.

“Uphold superb technology，dedication quality products”. We warmly welcome all friends from home and abroad to visit us, sincere cooperation, hand in hand!

品质保证
Quality Guarantee

HFD
海飞达电缆


辽宁省名牌产品证书

辽宁科瑞德电缆有限公司：

根据辽宁省人民政府《辽宁省名牌产品认定和保护办法》的规定，你单位生产的海飞达电缆牌聚氯乙烯绝缘和护套控制电缆被授予辽宁名牌产品称号。

有效期：2010年—2012年

证书编号：10-016

二〇〇九年十二月


辽宁省著名商标证书

辽宁科瑞德电缆有限公司

你单位第4677048号 海飞达HFD商标被认定为

辽宁省著名商标。

有效期限2013 年04月16日至2016 年04月16日

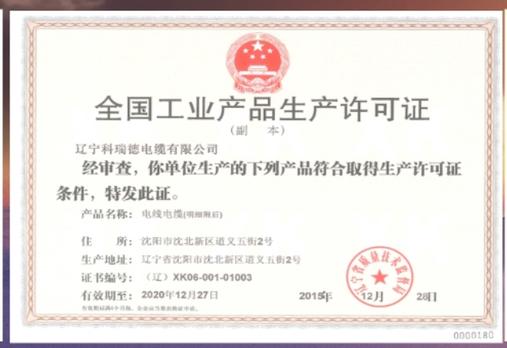

证 书

辽宁科瑞德电缆有限公司：

公示为辽宁省“守合同重信用”企业


质量管理体系认证证书

中国质量认证中心


全国工业产品生产许可证

（副 本）

辽宁科瑞德电缆有限公司

经审查，你单位生产的下列产品符合取得生产许可证条件，特发此证。

产品名称：电线电缆(明细附后)

住 所：沈阳市沈北新区道义五街2号

生产地址：辽宁省沈阳市沈北新区道义五街2号

证书编号：（辽）XK06-001-01003

有效期至：2020年12月27日

2015年12月28日


环境管理体系认证证书

ISO14001:2004

GB/T 24001-2004

中国质量认证中心


Certificate of Compliance

Underwriters Laboratories

Issued to: LIAO NING CREATE CABLE CO LTD

APPLIANCE WIRING MATERIAL


Certificate of Compliance

Underwriters Laboratories

Issued to: LIAO NING CREATE CABLE CO LTD

APPLIANCE WIRING MATERIAL


CERTIFICATE OF CONFORMITY

Certificate No. CTK2015081000GLVO

Certificate's Holder : Liaoning Create Cable Co., Ltd.

Address : No.2, Daoyi 3rd street, Shenbei New District, Shenyang, Liaoning Province, China

Product Name : Single core non-sheathed cables with thermoplastic PVC insulation

Model(s) : For details see the appendix

Applicable Standard(s) : EN 50525-2-31:2011

The submitted products have been tested by us with the above standards and found in compliance with the following European Directives:

Low Voltage Directive 2006/95/EC

Note: This certificate is only valid for the equipment and configuration described, and in conjunction with the test data detailed above. The CE mark as above paired can be used, under the responsibility of the manufacturer or the importer, after completion of the CE Declaration of Conformity and in accordance with the above directives.

Issuing Date: 06.09.2015

Expiry Date: 05.09.2020

Thomas Dong

Chief Certification Manager

CERTIFIED TESTING AND CERTIFICATION LTD


CERTIFICATE OF CONFORMITY

Certificate No. CTK2015081000GLVO

Certificate's Holder : Liaoning Create Cable Co., Ltd.

Address : No.2, Daoyi 3rd street, Shenbei New District, Shenyang, Liaoning Province, China

Product Name : Flexible cables with thermoplastic PVC insulation

Model(s) : For details see the appendix

Applicable Standard(s) : EN 50525-2-11:2011

The submitted products have been tested by us with the above standards and found in compliance with the following European Directives:

Low Voltage Directive 2006/95/EC

Note: This certificate is only valid for the equipment and configuration described, and in conjunction with the test data detailed above. The CE mark as above paired can be used, under the responsibility of the manufacturer or the importer, after completion of the CE Declaration of Conformity and in accordance with the above directives.

Issuing Date: 06.09.2015

Expiry Date: 05.09.2020

Thomas Dong

Chief Certification Manager

CERTIFIED TESTING AND CERTIFICATION LTD

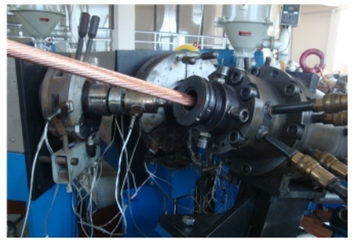
Certificate – 證明書 – Сертификат – Certificat – 증명서 – certificado

优良的产品品质
源于先进的生产设备

Excellent quality of products
from advanced production equipment

海飞达电缆





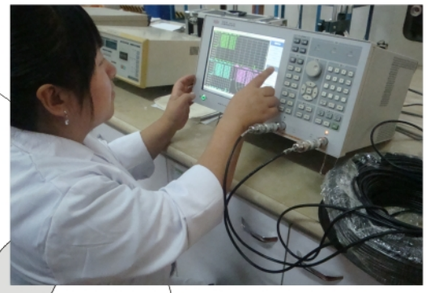







海飞达电缆

检验设备
Test Equipments



精准检测 保证优秀品质
Accurate detection
to ensure excellent quality

目　录 Catalogue

◎电力电缆　Power cable

◎控制电缆　Control cable

◎计算机仪表电缆　Insulated computer cable

◎高柔性拖链电缆　Flexible towline cable

◎铁路信号、轨道交通车辆用电缆　Railway signal, rail transit vehicles used cable

◎船舶用电缆 Vessels used cable

◎光伏、风力发电（机组）电缆PV, Wind power (unit) cable

◎移动用电梯、扁平电缆 Movable flat cable

◎核电站用电缆 Nuclear power station used cables

◎电机绕组引接软电缆Motor winding lead connection soft cable

◎补偿（导线）电缆 Extension (wires) cable

◎同轴射频电缆 Coaxial radio frequency cable

目录 Catalogue

◎总线电缆 Profibus cable

◎螺旋电缆 Spiral cable

◎钢包车拖拽专用电缆Buggy ladle drag exclusive use cable

◎直流高压电缆 PE insulated DC high voltage cable

◎安装电缆 Installation cable

◎辐照中心生产加工服务项目 Irradiation center production and processing services Items

⊙交联聚乙烯绝缘电力电缆
XLPE insulated power cable

一. 适用范围 Application

本产品用于额定电压35kV及以下电网或工业装置中。具有工作温度高、载流量大、结构简单、重量轻、敷设不受落差限制、介损小、耐化学腐蚀和环境应力好、维护方便等特点。

Applicable to grid and the industry equipment with the rated voltage 35kV (or lower). It has high working temperature,big carrying capacity, simple structure and light weight. It has no cap restriction. And small dielectriv loss, goodresistance of chemical corrosion and environmengal stress, easy to use and maintain are also its characteristic.

二. 执行标准 Implementation of standards

GB/T12706.1.2.3–2008（等同IEC60502）

GB/T12706.1.2.3–2008（equal to IEC60502)

三. 使用特性 Using characteristics

1.导体最高工作温度90℃。

2.短路时（最长持续时间不超过5s）最高工作温度不超过250℃。

3.安装敷设时环境温度不低于 0 ℃。

4.安装敷设时最小弯曲半径：单芯20 X 电缆外径，单芯铠装15 X 电缆外径，多芯15X电缆外径，多芯铠装12X电缆外径。

1.The max working temperature of conductor (of a cable) is 90℃.

2.The short–circuit temperature (lasting no longer than 5s) is less than 250℃.

3.The ambient temperature for laying is not lower than 0℃.

4.The least allowed bending radius: single–core cable is 20 times the outer diameter of the cable; single–core and steel tape–armored cable is 15 times the outer diameter of the calbe; multi–core calbe is the 15 times outer diameter of the cable;multi–core and steel tape–armored calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

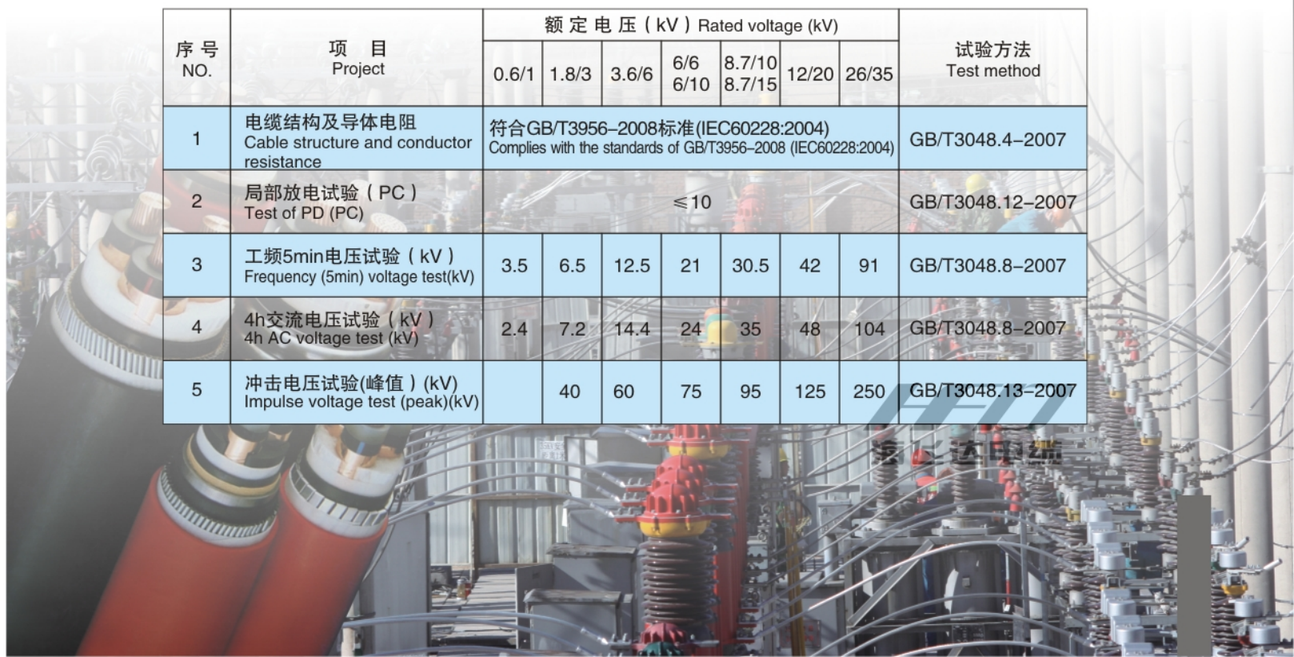
型号 Type		产品名称 Denomination
铜芯 Cu conductor	铝芯 Al conductor	
YJV	YJLV	交联聚乙烯绝缘聚氯乙烯护套电力电缆 XLPE insulated PVCsheathed power cable
YJV_{22}	$YJLV_{22}$	交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 XLPE insulated steel tape armored PVC sheathed power cable
YJV_{32}	$YJLV_{32}$	交联聚乙烯绝缘钢丝铠装聚氯乙烯护套电力电缆 XLPE insulated steel wire armored PVC sheathed power cable

五. 规格范围 Specification range

型号 Type	芯数 Core NO.	额定电压（kV）Rated voltage (kV)						
		0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	26/35
		标称截面（mm^2）Nominal cross section area （mm^2）						
YJV	YJLV	1	1.5–630	16–630	25–400	25–630	35–630	50–630	50–630
		2	2.5–400	16–300					
		3	4–300	16–300	25–300	25–300	35–300	50–300	50–300
		4	4–300	10–240					
		3+1	4–300	10–240					
		3+2	4–240	10–240					
		4+1	4–240	10–185					
		5	4–185	10–185					
YJV_{22}	$YJLV_{22}$	1	10–630	10–630	25–630	25–630	35–630	50–630	50–630
		2	2.5–400	10–300					
		3	4–300	10–300	25–300	25–300	35–300	50–300	50–300
		4	4–300	10–240					
		3+1	4–300	10–240					
		3+2	4–240	10–240					
		4+1	4–240	10–185					
		5	4–240	10–185					
YJV_{32}	$YJLV_{32}$	1	10–630	10–630	25–630	25–630	35–630	50–630	50–630
		2	2.5–400	10–300					
		3	4–300	10–300	25–300	25–300	35–300	50–300	50–300
		4	4–300	10–240					
		3+1	4–300	10–240					
		3+2	4–240	10–240					
		4+1	4–240	10–185					
		5	4–240	10–185					

六. 主要技术参数 Technological parameters

序号 NO.	项目 Project	额定电压（kV）Rated voltage (kV)							试验方法 Test method
		0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	26/35	
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)							GB/T3048.4–2007
2	局部放电试验（PC） Test of PD (PC)	≤10							GB/T3048.12–2007
3	工频5min电压试验（kV） Frequency (5min) voltage test(kV)	3.5	6.5	12.5	21	30.5	42	91	GB/T3048.8–2007
4	4h交流电压试验（kV） 4h AC voltage test (kV)	2.4	7.2	14.4	24	35	48	104	GB/T3048.8–2007
5	冲击电压试验(峰值）(kV) Impulse voltage test (peak)(kV)		40	60	75	95	125	250	GB/T3048.13–2007



⊙聚氯乙烯绝缘电力电缆
PVC insulated power cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下配电网或工业装置中。

Applicable to grid and the industry equipment with the rated voltage 0.6/1kV (or lower).

二. 执行标准 Implementation of standards

GB/T12706.1–2008（等同IEC60502）

GB/T12706.1–2008(equal to IEC60502)

三. 使用特性 Using characteristics

1.导体最高工作温度70℃。
2.短路时（最长持续时间不超过5s）最高工作温度不超过160℃。
3.安装敷设时环境温度不低于 0 ℃。
4.安装敷设时最小弯曲半径：单芯20 X 电缆外径，单芯铠装15 X 电缆外径，多芯15X电缆外径，多芯铠装12X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃
2.The short–circuit temperature (lasting no longer than 5s) is less than 160℃.
3.The ambient temperature for laying is not lower than 0℃.
4.The least allowed bending radius: single–core cable is 20 times the outer diameter of the cable ; single–core and steel tape–armored cable is 15 times the outer diameter of the calbe; multi–core calbe is the 15 times outer diameter of the cable;multi–core and steel tape–armored calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type		产品名称 Denomination
铜芯 Cu conductor	铝芯 Al conductor	
VV	VLV	聚氯乙烯绝缘聚氯乙烯护套电力电缆 PVC insulated PVC sheathed power cable
VV_{22}	VLV_{22}	聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 PVC insulated steel tape armored PVC sheathed power cable
VV_{32}	VLV_{32}	聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 PVC insulated thin steel wire armored PVC sheathed power cable

五. 规格范围 Specification range

型号 Type	芯数Core NO.							
	1	2	3	4	3+1	3+2	4+1	5
	标称截面（mm^2） Nominal cross section area （mm^2）							
VV	VLV	1.5–630	1.5–400	1.5–300	2.5–300	2.5–300	4–240	4–240	4–240
VV_{22}	VLV_{22}	10–630	2.5–400	4–300	4–300	4–300	4–240	4–240	4–240
VV_{32}	VLV_{32}	10–630	2.5–400	4–300	4–300	4–300	4–240	4–240	4–240

六. 主要技术参数 Technological parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007
3	20℃绝缘电阻常数 Insulation resistance(20℃)	MΩ · km	36.7	GB/T3048.5–2007
4	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8–2007

电力电缆 Power cable

⊙阻燃电力电缆
Flame–retardant power cable

一. 适用范围 Application

本产品用于额定电压35kV及以下有阻燃要求的配电网或工业装置中。

Applicable to grid and the industry equipment with the rated voltage 1kV (or lower) which request the flame–retardant.

二. 执行标准 Implementation of standards

GB/T12706.1～3–2008（等同IEC60502）
GB/T19666–2005 （等同IEC60331、60332）
GB/T12706.1～3–2008 (equal to IEC60502)
GB/T19666–2005 (equal to IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：聚氯乙烯绝缘70℃，交联聚乙烯绝缘90℃。
2.短路时（最长持续时间不超过5s）最高工作温度：聚氯乙烯绝缘不超过160℃，交联聚乙烯绝缘不超过250℃。
3.安装敷设时环境温度不低于0℃。
4.安装敷设时最小弯曲半径：单芯20X电缆外径，单芯铠装15X电缆外径，多芯15X电缆外径，多芯铠装12X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃(PVC insulated) and 90℃(XLPE insulated).
2.The short–circuit temperature (lasting no longer than 5s) is less than 160℃(PVC insulated) or 250℃(XLPE insulated).
3.The ambient temperature for laying is not lower than 0℃.
4.The least allowed bending radius: single–core cable is 20 times the outer diameter of the cable ;single–core and steel tape–armored cable is 15 times the outer diameter of the calbe; multi–core calbe is the 15 times outer diameter of the cable;multi–core and steel tape–armored calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type		产品名称 Denomination
铜芯 Cu conductor	铝芯 Al conductor	
ZA(B、C、D)–YJV	ZA(B、C、D)–YJLV	交联聚乙烯绝缘聚氯乙烯护套阻燃A(B、C、D)类电力电缆 XLPE insulated PVC sheathed flame–retardant A(B.C.D) power cable
ZA(B、C、D)–VV	ZA(B、C、D)–VLV	聚氯乙烯绝缘聚氯乙烯护套阻燃A(B、C、D)类电力电缆 PVC insulated PVC sheathed flame–retardant A(B.C.D) power cable
ZA(B、C、D)–YJV_{22}	ZA(B、C、D)–$YJLV_{22}$	交联聚乙烯绝缘钢带铠装聚氯乙烯护套阻燃A(B、C、D)类电力电缆 XLPE insulated PVC sheathed steel tape–armored flame–retardant A(B.C.D) power cable
ZA(B、C、D)–VV_{32}	ZA(B、C、D)–VLV_{32}	聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套阻燃A（B、C、D）类电力电缆 PVC insulated fine steel wire armoured PVC sheathed flame retardant A(B.C.D) power cable

五. 规格范围 Specification range

型号 Type		芯数 Core NO.	额定电压（kV）Rated voltage (kV)						
			0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	26/35
			标称截面（mm^2） Nominal cross section area （mm^2）						
ZA(B、C、D)–YJV	ZA(B、C、D)–YJLV	1	1.5–630	10–630	25–630	25–630	35–630	50–630	50–630
		2	1.5–400	10–300					
		3	1.5–300	10–300	25–300	25–300	35–300	50–300	50–300
		4	2.5–300	10–240					
		3+1	2.5–300	10–240					
		3+2	4–240	10–240					
		4+1	4–240	10–240					
		5	4–240	10–240					
ZA(B、C、D)–VV	ZA(B、C、D)–VLV	1	1.5–630	10–630					
		2	1.5–400	10–300					
		3	1.5–400	10–300					
		4	2.5–300	10–240					
		3+1	2.5–300	10–240					
		3+2	4–240	10–240					
		4+1	4–240	10–185					
		5	4–185	10–185					
ZA(B、C、D)–YJV_{22}	ZA(B、C、D)–$YJLV_{22}$	1	10–630	10–630	25–630	25–630	35–630	50–630	50–630
		2	2.5–400	10–300					
		3	2.5–300	10–300	25–300	25–300	35–300	50–300	50–300
		4	4–300	10–240					
		3+1	4–300	10–240					
		3+2	4–240	10–240					
		4+1	4–240	10–185					
		5	4–240	10–185					
ZA(B、C、D)–VV_{32}	ZA(B、C、D)–VLV_{32}	1	10–630	10–630					
		2	1.5–400	10–300					
		3	4–300	10–300					
		4	4–300	10–300					
		3+1	4–300	10–240					
		3+2	4–240	10–240					
		4+1	4–240	10–185					
		5	4–240	10–185					

六. 主要技术参数 Technological parameters

1.电性能 Electrical properties

序号 NO.	项目 Project	额定电压（kV）Rated voltage (kV)							试验方法 Test method
		0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	26/35	
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)							GB/T3048.4–2007
2	局部放电试验（PC） Test of PD (PC)	≤10							GB/T3048.12–2007
3	工频5min电压试验（kV） Frequency(5min) voltage test(kV)	3.5	6.5	12.5	21	30.5	42	91	GB/T3048.8–2007
4	4h交流电压试验（kV） 4h AC voltage test(kV)	2.4	7.2	14.4	24	35	48	104	GB/T3048.8–2007
5	冲击电压试验（峰值）(kV) Impulse voltage test (peak)(kV)		40	60	75	95	125	250	GB/T3048.13–2007

2.阻燃性能 Flame–retardant

A单根阻燃性能
A Single–core flame–retardant

代号 Code	试样外径D(mm) Specimen diameter (mm)	供火时间(s) For fire time (s)	合格指标 Compliance index	试验方法 Test method
Z	D≤25	60	试样烧焦应不超过距上夹具下缘500mm–540mm的范围之外 Specimen char is far from fixture 500mm–540mm	GB/T18380.1–2001 (IEC60332–1:1993) GB/T18380.2–2001 (IEC60332–2:1989)
	25≤D≤50	120		
	50＜D ≤75	240		
	D＞75	480		

B成束阻燃性能
B The bundle–core flame–retardant

代号 Code	试样非金属材料体积 Volume of specimen no–metallic material（L/m）	供火时间(s) For fire time (s)	合格指标 Compliance index	试验方法 Test method
ZA	7	40	1.试样上炭化的长度最大不应超过距喷嘴底边向上2.5m； Specimen carbonation is far from theedge of nozzle as 2.5m 2.停止供火后试样上的有焰燃烧时间不应超过1h The flaming time is no longer than 1h after for fire	GB/T18380.3–2001 (IEC60332–3:1992) (IEC60332–3–25:2000)
ZB	3.5	40		
ZC	1.5	20		
ZD	0.5	20		

电力电缆 Power cable

⊙耐火电力电缆
Fire–safe property power cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下石油、化工、电站、地铁、医院、矿山、机场、高层建筑物等有防火要求的特殊场合。

Applicable to the special area with the rated voltage 0.6/1kV (or lower).Include petrochemical、power station、subway、hospial、mine、airport、high rise building and ect.which request the fire–safe.

二. 执行标准 Implementation of standards

GB/T12706.1–2008（等同IEC60502）
GB/T19666–2005 （等同IEC60331、60332）
GB/T12706.1–2008 (equal to IEC60502)
GB/T19666–2005 (equal to IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：聚氯乙烯绝缘70℃，交联聚乙烯绝缘90℃。
2.短路时（最长持续时间不超过5s）最高工作温度：聚氯乙烯绝缘不超过160℃，交联聚乙烯绝缘不超过250℃。
3.安装敷设时环境温度不低于 0 ℃。
4.安装敷设时最小弯曲半径：单芯20 X 电缆外径，单芯铠装15 X 电缆外径，多芯15X电缆外径，多芯铠装12X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃(PVC insulated) and 90℃(XLPE insulated).
2.The short–circuit temperature (lasting no longer than 5s) is less than 160℃(PVC insulated) or 250℃ (XLPE insulated).
3.The ambient temperature for laying is not lower than 0℃.
4.The least allowed bending radius: single–core cable is 20 times the outer diameter of the cable ;single–core and steel tape–armored cable is 15 times the outer diameter of the calbe; multi–core calbe is the 15 times outer diameter of the cable;multi–core and steel tape–armored calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
ZA(B、C、D)N–YJV	交联聚乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类耐火电力电缆 XLPE insulated PVC sheathed fire–safe property A (B.C.D.)power cable
ZA(B、C、D)N–VV	聚氯乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类耐火电力电缆 PVC insulated PVC sheathed fire–safe property A (B.C.D.)power cable
ZA(B、C、D)N–YJV$_{22}$	交联聚乙烯绝缘钢带铠装聚氯乙烯护套阻燃A（B、C、D）类耐火电力电缆 XLPE insulated PVC sheathed steel tape–armored fire–safe property A(B.C.D) power cable
ZA(B、C、D)N–VV$_{22}$	聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃A（B、C、D）类耐火电力电缆 PVC insulated PVC sheathed steel tape–armored fire–safe property A(B.C.D) power cable

ZA(B、C、D)N–YJV_{32}	交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套阻燃A(B、C、D)类耐火电力电缆 XLPE insulation thin steel wire armored PVC sheathed fire–safe propertyA（B 、C、D) Refractory power cable
ZA(B、C、D)N–VV_{32}	聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套阻燃A(B、C、D)类耐火电力电缆 PVC insulation thin steel wire armored PVC sheathed fire–safe propertyA（B 、C、D) Refractory power cable

五. 规格范围 Specification range

型 号 Type	芯 数 Core NO.							
	1	2	3	4	3+1	3+2	4+1	5
	标称截面（mm^2） Nominal cross section area （mm^2）							
ZA(B、C、D)N–YJV ZA(B、C、D)N–VV	1.5–630	1.5–400	1.5–300	2.5–300	2.5–300	4–240	4–240	4–240
ZA(B、C、D)N–YJV_{22} ZA(B、C、D)N–VV_{22}	2.5–630	2.5–400	2.5–300	4–300	4–300	4–240	4–240	4–240
ZA(B、C、D)N–YJV_{32} ZA(B、C、D)N–VV_{32}	2.5–630	2.5–400	2.5–300	4–300	4–300	4–240	4–240	4–240

六、主要技术参数 Technological parameters

1.电性能 Electrical properties

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007
3	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8–2007

2.耐火性能 Fire resistance

代 号 Code	适用范围 Using range	供火时间+冷却时间 For fire time + cooling time (min)	供火温度 For fire temperature (℃)	试验电压 Test voltage(V)	合格指标 Compliance index	试验方法 Test method
N	0.6/1kV及以下电缆≤1kV	90+15	750	额定值 Rating	1. 2A熔断器不断 2A fuse is not break off 2. 指示灯不熄 Indicator bright	GB/T19216.21–2003 (IEC60331–21:2000)

电力电缆 Power cable

⊙无卤低烟辐照交联电力电缆

Halogen free low smoke irradiation crosslinking power cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下有阻燃防火要求的石油、化工、电站、地铁、医院、矿山、机场等高层建筑物等特殊场合的输配电线路，遇火灾燃烧时不产生有毒气体和烟雾。

Applicable to the special area with the rated voltage 0.6/1kV (or lower).Include petrochemical、power station、subway、hospital、mine、airport、high rise building and ect.which request the fire–safe.It has no toxic gases and smoke during firing.

二. 执行标准 Implementation of standards

GB/T12706.1–2008（等同IEC60502）
JG/T442–2014
GB/T19666–2005 （等同IEC60331，60332）
GB/T12706.1–2008（equal to IEC60502）
JG/T442–2014
GB/T19666–2005 （equal to IEC60331，60332）

三. 使用特性 Using characteristics

1.导体最高工作温度90℃～125℃。
2.短路时（最长持续时间不超过5s）最高工作温度不超过250℃。
3.安装敷设时环境温度不低于 0 ℃。
4.安装敷设时最小弯曲半径：单芯20 X 电缆外径，单芯铠装15 X 电缆外径，多芯15X电缆外径，多芯铠装12X电缆外径。

1.The max working temperature of conductor (of a cable) is 90℃～125℃.
2.The short–circuit temperature (lasting no longer than 5s) is less than 250℃.
3.The ambient temperature for laying is not lower than 0℃.
4.The least allowed bending radius: single–core cable is 20 times the outer diameter of the cable ;single–core and steel tape–armored cable is 15 times the outer diameter of the calbe; multi–core calbe is the 15 times outer diameter of the cable;multi–core and steel tape–armored calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
WDZA(B、C、D)–YJY	交联聚乙烯绝缘无卤低烟聚烯烃护套阻燃A（B、C、D）类电力电缆 XLPE insulated halogen free low smoke polyolefin sheath flame retardant A(B, C, D) power cable
WDZA(B、C、D)N–YJY	交联聚乙烯绝缘无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火电力电缆 XLPE insulated halogen free low smoke polyolefin sheath flame retardant A(B, C, D) fire–resistant power cable
WDZA(B、C、D)–YY	无卤低烟聚烯烃绝缘无卤低烟聚烯烃护套阻燃A（B、C、D）类电力电缆 Halogen free low smoke polyolefin insulated Halogen free low smoke polyolefin sheath flame retardant A(B, C, D) power cable
WDZA(B、C、D)–YJY_{23}	交联聚乙烯绝缘钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类电力电缆 XLPE insulated steel tape armoured halogen free low smoke polyolefin sheath flame retardant A(B, C, D) power cable
WDZA(B、C、D)N–YJY_{23}	交联聚乙烯绝缘钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火电力电缆 XLPE insulated steel tape armoured halogen free low smoke polyolefin sheath flame retardant A (B, C, D) fire–resistant power cable
WDZA(B、C、D)–YY_{23}	无卤低烟聚烯烃绝缘钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类电力电缆 Halogen free low smoke polyolefin insulated steel tape armoured Halogen free low smoke polyolefin sheath flame retardant A(B, C, D) power cable

WDZA(B、C、D)–YJY_{32}	交联聚烯烃绝缘细钢丝铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类电力电缆 Crosslinked polyolefin insulated fine steel wire armoured halogen free low smoke polyolefin sheath flame retardant A(B, C, D) power cable
WDZA(B、C、D)N–YJY_{32}	交联聚烯烃绝缘细钢丝铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火电力电缆 Crosslinked polyolefin insulated fine steel wire armoured halogen free low smoke polyolefin sheath flame retardant A(B, C, D) fire–resistant power cable
WDZA(B、C、D)–YY_{32}	无卤低烟聚烯烃绝缘细钢丝铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类电力电缆 Halogen free low smoke polyolefin insulated fine steel wire armoured Halogen free low smoke polyolefin sheath flame retardant A(B, C, D) power cable
辐照交联型在型号中加F　F is added to Radiation crosslinking cable	

五. 规格范围　Specification range

型　号 Type	芯 数　Core NO.							
	1	2	3	4	3+1	3+2	4+1	5
	标称截面（mm^2） Nominal cross section area （mm^2）							
WDZA(B、C、D)–YJY WDZA(B、C、D)N–YJY WDZA(B、C、D)–YY	1.5–630	1.5–400	2.5–300	2.5–300	2.5–300	4–240	4–240	4–240
WDZA(B、C、D)–YJY_{23} WDZA(B、C、D)N–YJY_{23} WDZA(B、C、D)–YY_{23}	10–630	2.5–400	2.5–300	4–300	4–300	4–240	4–240	4–240
WDZA(B、C、D)–YJY_{32} WDZA(B、C、D)N–YJY_{32} WDZA(B、C、D)–YY_{32}	10–630	2.5–400	2.5–300	4–300	4–300	4–240	4–240	4–240

六、主要技术参数　Technological parameters

1.电性能 Electrical properties

序号 NO.	项　目 Project	单　位 Unit	指　标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007
3	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8–2007

2.无卤低烟性能 Low–smoke halogenfree polyolefin

A 无卤性能 Halogenfree performance

代号 Code	无　卤（低腐蚀性）Halogenfree (low corrosion)		试验方法 Test method
	PH加权值 PH weights	电导率加权值（μs/mm） Conductivity weights（μs/mm）	
W	≥4.3	≤10	GB/T17650.2–1998 (IEC60754–2：1991)

B 低烟性能 Low–smoke performance

代号 Code	试样外径d（mm） Specimen diameter (mm)	试样数 Number of Specimen	最小透光率 The least of transmittance	试验方法 Test method
D	d＞40 20＜d≤40 10＜d≤20 5≤d≤10 2≤d≤5	1（根）1 article 2（根）2 article 3（根）3 article 45/d（根）[a] 45/d article 45/3d（根）[a,b] 45/3d article	≥60	GB/T17651.2–1998 (IEC61034–2：1997)

C 耐火性能　Fire resistance

代号 Code	适用范围 Using range	供火时间+冷却时间 For fire time + cooling time (min)	供火温度 For fire temperature (℃)	试验电压 Test voltage(V)	合格指标 Compliance index	试验方法 Test method
N	0.6/1kV及以下电缆≤1kV	90+15	750	额定值 Rating	1. 2A熔断器不断 2A fuse is not break off 2. 指示灯不熄 Indicator bright	GB/T19216.21–2003 (IEC60331–21:2000)

⊙氟塑料绝缘耐高温电力电缆
Fluoroplastics insulated heat-resistance power cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下高温、低温环境或酸碱腐蚀等场合。

Applicable to the high,low temp environment or the corrosion of acid and base area with the rated voltage 0.6/1kV (or lower).

二. 执行标准 Implementation of standards

TICW3-2009
GJB773A-2000
GB/T19666-2005（等同IEC60331，60332）
TICW3-2009
GJB773A-2000
GB/T19666-2005（equal to IEC60331，60332）

三. 使用特性 Using characteristics

1.导体最高工作温度：聚全氟乙丙烯绝缘（FEP）200℃，聚四氟乙烯绝缘（PFA）260℃。
2.最低使用环境温度：-65℃。
3.安装敷设时最小弯曲半径： 15X电缆外径。
1.The max working temperature of conductor (of a cable) is 200℃(FEP) and 260℃ (PFA)
2.The ambient temperature for laying is not lower than -65℃.
3.The least allowed bending radius is 15 times the outer diameter of the cable .

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
FF	氟塑料绝缘氟塑料护套电力电缆 F46 insulated and sheathed heat-resistance power cable
FRF	氟塑料绝缘氟塑料护套软电力电缆 F46 insulated and sheathed heat-resistance(soft) power cable
FF2F	氟塑料绝缘钢带铠装氟塑料护套电力电缆 F46 insulated and sheathed steel tape-armored power cable
FF8F	氟塑料绝缘铜丝编织铠装氟塑料护套电力电缆 F46 insulated and sheathed woven Cu wire armored steel tape-armored power cable
FF9F	氟塑料绝缘钢丝编织铠装氟塑料护套电力电缆 F46 insulated and sheathed woven steel wire armored power cable

五. 规格范围 Specification range

型号 Type	芯数 CoreNO.							
	1	2	3	4	3+1	3+2	4+1	5
	标称截面（mm^2） Nominal cross section area （mm^2）							
FF FRF FF2F FF8F FF9F	0.75-120	0.75-16	0.75-16	1-10	1.5-10	1.5-10	1.5-10	1.5-10

六、主要技术参数 Technological parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the standards of GB/T3956-2008 (IEC60228:2004)		GB/T3048.4-2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8-2007
3	20℃时绝缘电阻常数 Insulation resistance (20℃)	MΩ·km	3000	GB/T3048.8-2007
4	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8-2007

⊙硅橡胶绝缘耐热电力电缆
Silica rubber insulated heat–resistance power cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下耐高温、低温环境或酸碱腐蚀等场合。

Applicable to the high,low temp environment or the corrosion of acid and base area with the rated voltage 0.6/1kV (or lower).

二. 执行标准 Implementation of standards

TICW5–2009

GB/T19666–2005（等同IEC60331、60332）

TICW5–2009

GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度180℃。

2.短路时（最长持续时间不超过5s）最高工作温度350℃。

3.安装敷设时最小弯曲半径：无铠装或屏蔽层6X电缆外径，有铠装或屏蔽层12X电缆外径。

1.The max working temperature of conductor (of a cable) is 180℃.

2.The short–circuit temperature (lasting no longer than 5s) is less than 350℃.

3.The least allowed bending radius: no steel tape–armored or shielded cable is 6 times the outer diameter of the calbe; steel tape–armored or shielded cable is 12 times outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
GG	硅橡胶绝缘硅橡胶护套电力电缆 Silica rubber insulated and sheathed heat–resistance power cable
GGR	硅橡胶绝缘硅橡胶护套软电力电缆 Silica rubber insulated and sheathed heat–resistance soft power cable
GG2G	硅橡胶绝缘钢带铠装硅橡胶护套电力电缆 Silica rubber insulated and sheathed steel tape–armored heat–resistance power cable
GG3G	硅橡胶绝缘细钢丝铠装硅橡胶护套电力电缆 Silica rubber insulated and sheathed woven steel wire armored heat–resistance power cable

五. 规格范围 Specification rangeeanings

型 号 Type	芯数 Core NO.							
	1	2	3	4	3+1	3+2	4+1	5
	标称截面（mm^2） Nominal cross section area （mm^2）							
GG GGR	0.75–630	0.75–300	0.75–300	1.5–240	1.5–240	1.5–240	1.5–240	1.5–240
GG2G GG3G	6–630	4–630	4–300	4–240	4–240	4–240	4–240	4–240
GGP GGRP	0.75–630	0.75–630	0.75–300	0.75–300	0.75–300	0.75–300	0.75–300	0.75–300

电力电缆 Power cable

六. 主要技术参数 Technological parameters

1.电性能 Electrical properties

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007
3	20℃时绝缘电阻常数 Insulation resistance(20℃)	MΩ/km	1500	GB/T3048.5–2007
4	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8–2007

2. 耐火性能 Fire resistance

代 号 Code	适用范围 Using range	供火时间+冷却时间 For fire time + cooling time (min)	供火温度 For fire temperature (℃)	试验电压 Test voltage(V)	合格指标 Compliance index	试验方法 Test method
N	0.6/1kV及以下电缆≤1kV	90+15	750	额定值 Rating	1. 2A熔断器不断 2A fuse is not break off 2. 指示灯不熄 Indicator bright	GB/T19216.21–2003 (IEC60331–21:2000)

⊙丁腈聚氯乙烯绝缘柔性电力电缆
NBR insulated flexible power cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下移动场合动力装置，具有耐油、耐磨、耐低温、柔性等特点，可广泛应用于石化、电力、冶金、机械、船舶、运输、起重、建筑等行业。

Applicable to power equipment of movement situation with the rated voltage 0.6/1kV (or lower).Its feature are enduring oil, resistance abrasion, enduring low temperature and good flexible. It Is wildly use in includepetrochemical, electricity, metallurgy, machinery, shipping, transportation, lifting , building industry and ect.

二. 执行标准 Implementation of standards

GB/T12706.1–2008（等同IEC60502)
GB/T19666–2005 （等同IEC60331，60332）
GB/T12706.1–2008（equal to IEC60502)
GB/T19666–2005 （equal to IEC60331，60332）

三. 使用特性 Using characteristics

1.导体最高工作温度70℃（90℃，105℃）。
2.短路时（最长持续时间不超过5s）最高工作温度160℃。
3.安装敷设时环境温度不低于–25℃。
4.安装敷设时最小弯曲半径：12X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃(90℃，105℃）.
2.The short–circuit temperature (lasting no longer than 5s) is less than 160℃.
3.The ambient temperature for laying is not lower than –25℃.
4.The least allowed bending radius is 12 times the outer diameter of the cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
YVFR	丁腈聚氯乙烯绝缘弹性体护套软电力电缆 NBR insulated elastomer sheathed soft power cable
YVFRP	丁腈聚氯乙烯绝缘编织屏蔽弹性体护套软电力电缆 NBR insulated elastomer sheathed wover shielded soft power cable

阻燃型在型号前加ZA(B、C、D）、耐火型在型号前加ZA（B、C、D）N，导体线芯可以采用镀锡铜丝。
ZA(B.C.D)is added to the flame–resistant cable,ZA(B.C.D)N is added to the fire–safe cable, the conductor of line core can use tinned copper wire.

电力电缆 Power cable

五. 规格范围 Specification range

型号 Type	芯数 Core NO.							
	1	2	3	4	3+1	3+2	4+1	5
	标称截面（mm^2） Nominal cross section area （mm^2）							
YVFR	2.5–630	1.5–300	1.5–300	1.5–240	1.5–185	1.5–185	1.5–185	1.5–185
YVFRP	2.5–630	1.5–240	1.5–240	1.5–240	1.5–185	1.5–185	1.5–185	1.5–185

六. 主要技术参数 Technological parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007
3	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8–2007

⊙变频器专用电力电缆
Special cable for frequency converter

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下变频、控制系统供电或电气连接。具有良好的屏蔽性，能经受变频时脉冲电压，消除电磁干扰，保证系统安全、稳定运行。

Applicable to power supply or electrical connection for frequency converter and control system with the rated voltage 0.6/1kV (or lower). It has good shielding ,undertaking the pulse,enduring the electromagnetic interference,and make the system working safely and steady.

二. 执行标准 Implementation of standards

Q/KRD-03-2010
GB/T12706.1-2008 (等同IEC60502)
GB/T19666-2005 （等同IEC60331、60332）
Q/KRD-03-2010
GB/T12706.1-2008 (equal to IEC60502)
GB/T19666-2005 （equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度：聚氯乙烯绝缘、丁腈聚氯乙烯绝缘 70℃，交联聚乙烯绝缘90℃，硅橡胶绝缘180℃，聚全氟乙丙烯（FEP）绝缘200℃。
2.短路时（最长持续时间不超过5s）最高工作温度：聚氯乙烯、丁腈聚氯乙烯绝缘不超过160℃，交联聚乙烯绝缘不超过250℃，硅橡胶绝缘不超过350℃。
3.安装敷设时环境温度：聚氯乙烯护套不低于 0 ℃，丁腈聚氯乙烯、硅橡胶、聚全氟乙丙烯护套（FEP）不低于-25℃。
4.安装敷设时最小弯曲半径：聚氯乙烯、丁腈聚氯乙烯护套15X电缆外径，硅橡胶护套12X电缆外径，聚全氟乙丙烯护套15X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃(PVC or NBR insulated); 90℃(XLPE insulated); 180℃ (Silica rubber insulated); 200℃(FEP insulated).
2.The short-circuit temperature (lasting no longer than 5s) is less than 160℃(PVC or NBR insulated); 250℃(XLPE insulated); 350℃(Silica rubber insulated).
3.The ambient temperature for laying is not lower than 0 ℃(PVC sheathed); -25℃（NBR、Silica rubber、FEP sheathed）。
4.The least allowed bending radius is 15 times the outer diameter of the cable （PVC 、 NBR or FEP sheathed ）,12 times the outer diameter of the cable (Silica rubber sheathed).

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
BP-VVP	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套变频电力电缆 PVC insulated and sheathed weaved shielded frequency converter power cable
BP-VVP_2	聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套变频电力电缆 PVC insulated and sheathed Cu tape armored shielded frequency converter power cable
BP-$VVPP_2$	聚氯乙烯绝缘编织屏蔽铜带屏蔽聚氯乙烯护套变频电力电缆 PVC insulated and sheathed weaved shielded Cu tape armored shielded frequency converter power cable
BP-YJVP	交联聚乙烯绝缘编织屏蔽聚氯乙烯护套变频电力电缆 XLPE insulated PVC sheathed weaved shielded frequency converter power cable
BP-$YJVP_2$	交联聚乙烯绝缘铜带屏蔽聚氯乙烯护套变频电力电缆 XLPE insulated PVC sheathed Cu tape armored shielded frequency converter power cable
BP-YJVPP	交联聚乙烯绝缘编织屏蔽铜带屏蔽聚氯乙烯护套变频电力电缆 XLPE insulated PVC sheathed weaved shielded Cu tape armored shielded frequency converter power cable
BP-$YJVPP_2$	交联聚乙烯绝缘编织屏蔽铜带屏蔽聚氯乙烯护套变频电力电缆 XLPE insulated PVC sheathed weaved shielded Cu tape armored shielded frequency converter power cable
BP-GGP	硅橡胶绝缘编织屏蔽硅橡胶护套变频电力电缆 Silica rubber insulated and sheathed weaved shielded frequency converter power cable
BP-GGP_2	硅橡胶绝缘铜带屏蔽硅橡胶护套变频电力电缆 Silica rubber insulated and sheathed Cu tape armored shielded frequency converter power cable
BP-$GGPP_2$	硅橡胶绝缘编织屏蔽铜带屏蔽硅橡胶护套变频电力电缆 Silica rubber insulated and sheathed weaved shielded Cu tape armored shielded frequency converter power cable
BP-FFP	氟塑料绝缘编织屏蔽氟塑料护套变频电力电缆 Fluoroplastics insulated and sheathed weaved shielded frequency converter power cable
BP-FFP_2	氟塑料绝缘铜带屏蔽氟塑料护套变频电力电缆 Fluoroplastics insulated and sheathed Cu tape armored shielded frequency converter power cable
BP-$FFPP_2$	氟塑料绝缘编织屏蔽铜带屏蔽氟塑料护套变频电力电缆 Fluoroplastics insulated and sheathed weaved shielded Cu tape armored shielded frequency converter power cable

阻燃型在型号前加ZA(B、C、D）、耐火型在型号前加ZA（B、C、D）N，无卤低烟阻燃耐火型在型号前加WDZA（B、C、D）N，软导体在型号中加R。
ZA（B.C.D）is added to the flame-resistant cable, Za（B.C.D）N is added to the fire-safe cable,WDZA（B.C.D）is added to the low-smoke halogenfree polyolefin ,R is added to the soft cable.

五. 规格范围 Specification range

主线芯截面 Nominal cross section area of main line

型 号 Type	芯 数 Core NO.	标 称 截 面（mm^2） Nominal cross section area （mm^2）
全部型号 All types	1	4、6、10、16、25、35、50、70、95、120、150、185、240
	3+1	
	3+3	

接地线芯截面 Nominal cross section area of grounding line

主线芯截面（mm^2） Nominal cross section area of main line（mm^2）	接地线芯截面（mm^2） Nominal cross section area of grounding line（mm^2）
4	1.0（0.75）
6	1.5（1.0）
10	2.5（1.5）
16、25	4（2.5）
35	6
50、70	10
95	16
120、150	25
185	35
240	50（35）

六. 主要技术参数 Technological parameters

1.电性能Electrical properties

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007
3	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8–2007
4	分布电感 Distributed inductance	mH/km	≤1	GB5441.2–1985
5	屏蔽传输阻抗（100MHz） Shielded impedance	Ω/m	≤1	IEC62153–4–0
6	屏蔽抑制系数 Shielded inhibitory factor	≤0.05		GB5441.9–1985
7	抗辐射干扰（120db）透入 Radiation interference (120db)	dB	≤70	GB6833.10–1997

2.阻燃性能 Flame–retardant

A单根阻燃性能
A Single–core flame–retardant

代 号 Code	试样外径D(mm) Specimen diameter (mm)	供火时间(s) For fire time (s)	合格指标 Compliance index	试验方法 Test method
Z	D≤25	60	试样烧焦应不超过距上夹具下缘500mm–540mm的范围之外 Specimen char is far from fixture 500mm–540mm	GB/T18380.1–2001 (IEC60332–1:1993) GB/T18380.2–2001 (IEC60332–2:1989)
	25≤D≤50	120		
	50＜D ≤75	240		
	D＞75	480		

B成束阻燃性能
B The bundle–core flame–retardant

代 号 Code	试样非金属材料体积 Volume of specimen no–metallic material（L/m）	供火时间(s) For fire time (s)	合格指标 Compliance index	试验方法 Test method
ZA	7	40	1.试样上炭化的长度最大不应超过距喷嘴底边向上2.5m； Specimen carbonation is far from theedge of nozzle as 2.5m 2.停止供火后试样上的有焰燃烧时间不应超过1h The flaming time is no longer than 1h after for fire	GB/T18380.3–2001 (IEC60332–3:1992) (IEC60332–3–25:2000)
ZB	3.5	40		
ZC	1.5	20		
ZD	0.5	20		

电力电缆 Power cable

⊙通信电源用阻燃耐火软电力电缆

Fire–safe soft power cable for conmmunication power source

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下通信局（站）、高层建筑输配电系统。

Applicable to power distribution system of conmmunication station and the higher buildings with the rated voltage 0.6/1kV (or lower).

二. 执行标准 Implementation of standards

YD/T1173–2010

GB/T19666–2005（等同IEC60331，60332）

YD/T1173–2010

GB/T19666–2005（equal to IEC60331，60332）

三. 使用特性 Using characteristics

1.导体最高工作温度：70℃。

2.短路时（最长持续时间不超过5s）最高工作温度：不超过160℃。

3.安装敷设时环境温度不低于 0 ℃。

4.安装敷设时最小弯曲半径：阻燃型6X电缆外径，耐火型12X电缆外径，铠装型20X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃.

2.The short–circuit temperature (lasting no longer than 5s) is less than 160℃.

3.The ambient temperature for laying is not lower than 0 ℃.

4.The least allowed bending radius is 6 times the outer diameter of the cable(flame–resistant cable);12 times the outer diameter of the cable (fire–safe cable);20 times the outer diameter of the cable (steel tape–armored cable).

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
ZA–RV	聚氯乙烯绝缘阻燃软电力电缆 PVC insulated flame–resistant soft power cable
ZA–RVV	聚氯乙烯绝缘聚氯乙烯护套阻燃软电力电缆 PVC insulated and sheathed flame–resistant soft power cable
WDNA–RY	无卤低烟聚烯烃绝缘聚烯烃护套阻燃耐火软电力电缆 Halogen free low smoke polyolefin insulated polyolefin sheath flame retardant fire–resistant soft power cable
WDNA–RYY	无卤低烟聚烯烃绝缘无卤低烟聚烯烃护套耐火软电力电缆 Halogen free low smoke polyolefin insulated Halogen free low smoke polyolefin sheath fire–resistant soft power cable
ZA–RVV$_{22}$	聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃软电力电缆 PVC insulated and sheathed steel tape–armored flame–resistant power cable
WDNA–RYY$_{23}$	无卤低烟聚烯烃绝缘钢带铠装聚烯烃护套阻燃耐火软电力电缆 Halogen free low smoke polyolefin insulated steel tape armoured polyolefin sheath flame retardant fire–resistant soft power cable

五. 规格范围 Specification range

型　号 Type	芯 数 Core NO.	标 称 截 面（mm^2） Nominal cross section area （mm^2）
ZA–RV ZA–RVV WDNA–RY WDNA–RYY	1	1.5–500
	2、3、3+1、4、4+1、3+2	1.5–300
ZA–RVV_{22} WDNA–RYY_{23}	2、3、3+1、4、4+1、3+2、5	10–150

六. 主要技术参数 Technological parameters

序号 NO.	项　目 Project	单　位 Unit	指　标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	2.5 3.5	GB/T3048.8–2007
3	成束燃烧试验 Combustion test	7L/m，40min	1. 试样上炭化的长度最大不应超过距喷嘴底边向上2.5m； 1.Specimen carbonation is far from the edge of nozzle as 2.5m. 2. 停止供火后试样上的有焰燃烧时间不应超过1h 2.The flaming time is no longer than 1h after for fire.	GB/T18380–2001
4	耐火试验 Fire–safe test	供火+冷时间（min） For fire time + coolingtim (min) 90+15	1. 2A熔断器不断 1.2A fuse is not break off 2. 指示灯不熄 2.Indicator bright	GB/T19216.21–2003
5	PH加权值 PH weights		≥4.3	GB/T17650.2–1998
6	电导率加权值 Conductivity weights	μ s/mm	≤10	
7	最小透光率 Transmittance	%	≥60	GB/T17651.2–1998

⊙防鼠防蚁电力电缆
Termite and rat plague resistant power cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下温带、亚温带等地区医院、地铁、商场、核电站、高层建筑等鼠蚁侵蚀严重配电网或工业装置中。具有环保、无毒无害、对鼠蚁有驱避作用，效力含储持久性强。

Applicable to grid and the industry equipment with the rated voltage 0.6/1kV (or lower).Inclued hospital,subway, market, nuclear power plant,high building which has termite and rat plague serious.The featuresare environmental protection, no poison,termite and rat plague resistant and cintinued long time.

二. 执行标准 Implementation of standards

GB/T12706.1–2008（等同IEC60502）
JB/T10696–2011
GB/T12706.1–2008（equal to IEC60502）
JB/T10696–2011

三. 使用特性 Using characteristics

1.导体最高工作温度：交联聚乙烯绝缘、聚烯烃绝缘90℃。
2.短路时（最长持续时间不超过5s）最高工作温度：交联聚乙烯绝缘、聚烯烃绝缘不超过250℃。
3.安装敷设时环境温度不低于 0 ℃。
4.安装敷设时最小弯曲半径：单芯20X电缆外径，单芯铠装15X电缆外径，多芯15X电缆外径。多芯铠装12X电缆外径。

1.The max working temperature of conductor (of a cable) is 90℃(XLPE or Polyolefin insulated)
2.The short–circuit temperature (lasting no longer than 5s) is less than 250℃(XLPE or Polyolefin insulated).
3.The ambient temperature for laying is not lower than 0 ℃.
4.The least allowed bending radius: single–core cable is 20 times the outer diameter of the cable ;single–core and steel tape–armored cable is 15 times the outer diameter of the calbe; multi–core calbe is the 15 times outer diameter of the cable;multi–core and steel tape–armored calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号　Type	产品名称　Denomination
FSY– WDZA(B、C、D)–YJY	交联聚乙烯绝缘无卤低烟聚烯烃护套防鼠蚁电力电缆 XLPE insulated Halogen free low smoke polyolefin sheath Termite and rat plague resistant power cable
FSY– WDZA(B、C、D)NH–YJY	交联聚乙烯绝缘无卤低烟聚烯烃护套防鼠蚁耐火电力电缆 XLPE insulated Halogen free low smoke polyolefin sheath Termite and rat plague resistant fire–resistant power cable
FSY– WDZA(B、C、D)–YY	无卤低烟聚烯烃绝缘无卤低烟聚烯烃护套防鼠蚁电力电缆 Halogen free low smoke polyolefin insulated Halogen free low smoke polyolefin sheath Termite and rat plague resistant power cable
FSY– WDZA(B、C、D)–YJY_{23}	交联聚乙烯绝缘钢带铠装无卤低烟聚烯烃护套防鼠蚁电力电缆 XLPE insulated steel tape armoured Halogen free low smoke polyolefin sheath Termite and rat plague resistant power cable

FSY– WDZA(B、C、D)–YY_{23}	无卤低烟聚烯烃绝缘钢带铠装无卤低烟聚烯烃护套防鼠蚁电力电缆 Halogen free low smoke polyolefin insulated steel tape armoured Halogen free low smoke polyolefin sheath Termite and rat plague resistant power cable
FSY– WDZA(B、C、D)–YJY_{63}	交联聚乙烯绝缘不锈钢带铠装无卤低烟聚烯烃护套防鼠蚁电力电缆 XLPE insulated stainless steel tape armoured Halogen free low smoke polyolefin sheath Termite and rat plague resistant power cable
FSY– WDZA(B、C、D)–YY_{63}	无卤低烟聚烯烃绝缘不锈钢带铠装无卤低烟聚烯烃护套防鼠蚁电力电缆 Halogen free low smoke polyolefin insulated stainless steel tape armoured Halogen free low smoke polyolefin sheath Termite and rat plague resistant power cable

五. 规格范围 Specification rangeeanings

型 号 Type	芯数 Core NO.							
	1	2	3	4	3+1	3+2	4+1	5
	标称截面（mm^2） Nominal cross section area （mm^2）							
FSY– WDZ–YJY FSY– WDZNH–YJY FSY– WDZA(B、C、D)–YY	1.5–630	1.5–185	1.5–240	2.5–185	2.5–240	4–185	4–185	4–185
FSY– WDZA(B、C、D)–YJY_{23} FSY– WDZA(B、C、D)–YY_{23} FSY– WDZA(B、C、D)–YJY_{63} FSY– WDZA(B、C、D)–YY_{63}	1.5–630	1.5–185	1.5–240	2.5–185	2.5–240	4–185	4–185	4–185

六. 主要技术参数 Technological parameters

1. 电性能 Electrical properties

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standards of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007
3	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8–2007

2.阻燃性能 Flame–retardant

A单根阻燃性能
A Single–core flame–retardant

代 号 Code	试样外径D(mm) Specimen diameter (mm)	供火时间(s) For fire time (s)	合格指标 Compliance index	试验方法 Test method
Z	D≤25	60	试样烧焦应不超过距上夹具下缘500mm–540mm的范围之外 Specimen char is far from fixture 500mm–540mm	GB/T18380.1–2001 (IEC60332–1:1993) GB/T18380.2–2001 (IEC60332–2:1989)
	25≤D≤50	120		
	50＜D ≤75	240		
	D＞75	480		

B成束阻燃性能
B The bundle–core flame–retardant

代 号 Code	试样非金属材料体积 Volume of specimen no–metallic material (L/m)	供火时间(s) For fire time (s)	合格指标 Compliance index	试验方法 Test method
ZA	7	40	1.试样上炭化的长度最大不应超过距喷嘴底边向上2.5m； Specimen carbonation is far from theedge of nozzle as 2.5m 2.停止供火后试样上的有焰燃烧时间不应超过1h The flaming time is no longer than 1h after for fire	GB/T18380.3–2001 (IEC60332–3:1992) (IEC60332–3–25:2000)
ZB	3.5	40		
ZC	1.5	20		
ZD	0.5	20		

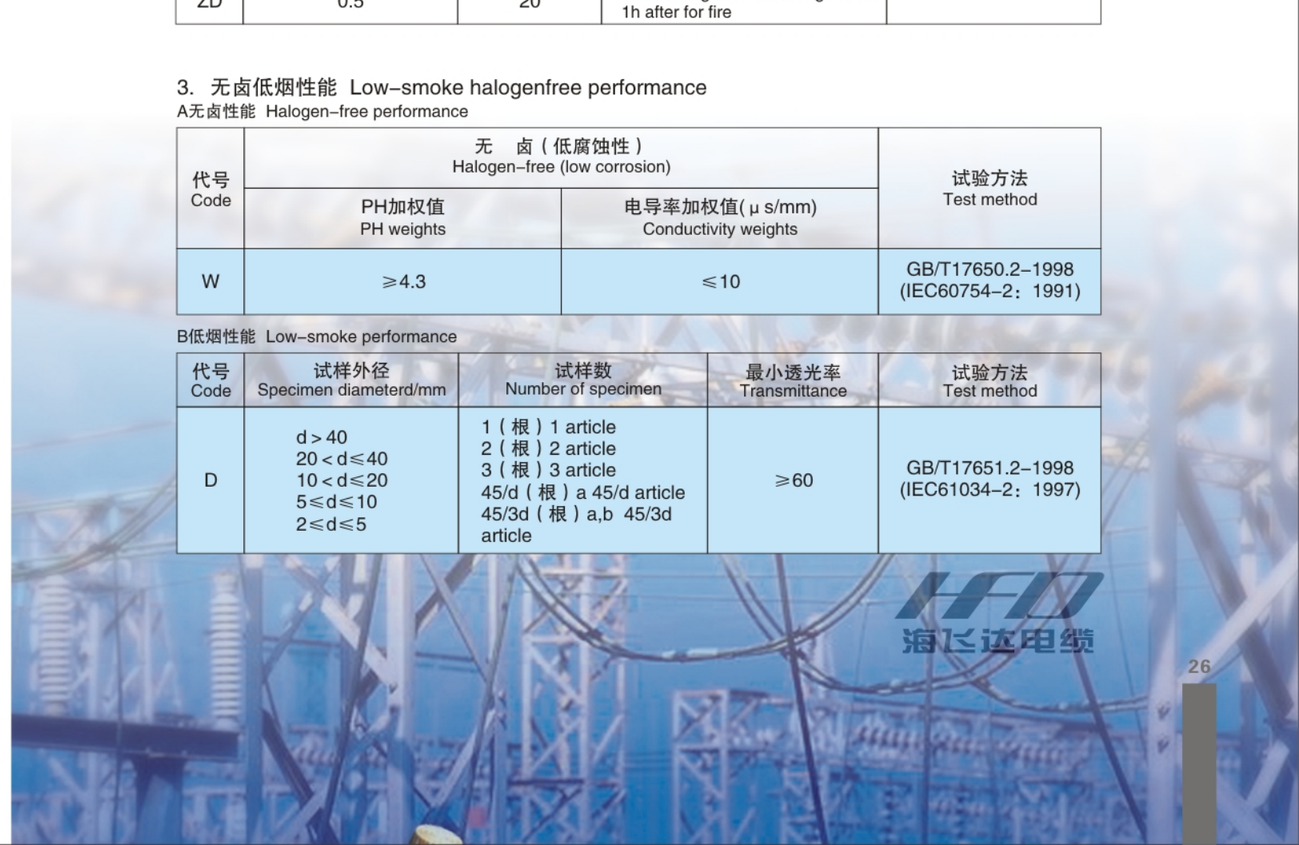
3. 无卤低烟性能 Low–smoke halogenfree performance

A无卤性能 Halogen–free performance

代号 Code	无 卤（低腐蚀性） Halogen–free (low corrosion)		试验方法 Test method
	PH加权值 PH weights	电导率加权值(μs/mm) Conductivity weights	
W	≥4.3	≤10	GB/T17650.2–1998 (IEC60754–2：1991)

B低烟性能 Low–smoke performance

代号 Code	试样外径 Specimen diameterd/mm	试样数 Number of specimen	最小透光率 Transmittance	试验方法 Test method
D	d＞40 20＜d≤40 10＜d≤20 5≤d≤10 2≤d≤5	1（根）1 article 2（根）2 article 3（根）3 article 45/d（根）a 45/d article 45/3d（根）a,b 45/3d article	≥60	GB/T17651.2–1998 (IEC61034–2：1997)



⊙聚氯乙烯绝缘控制电缆
PVC insulated control cable

一. 适用范围 Application

本产品用于额定电压450/750V及以下控制、监控回路及保护线路等场合。

Applicable to the control system ,control loop and protection cricuit with the rated voltage 450/750V (or lower) .

二. 执行标准 Implementation of standards

GB/T9330.2–2008

GB/T9330.2–2008

三. 使用特性 Using characteristics

1. 导体最高工作温度70℃。
2. 安装敷设时环境温度不低于 0 ℃。
3. 安装敷设时最小弯曲半径：无铠装6 X 电缆外径，有屏蔽层软电缆6X电缆外径，有铠装或铜带屏蔽12X电缆外径。

1. The max working temperature of conductor (of a cable) is 70℃
2. The ambient temperature for laying is not lower than 0℃
3. The least allowed bending radius: steel tape–armored cable is 6 times the outer diameter of the cable; 6 times the outer diameter of the cable (the screen soft cable) ; steel tape–armored or Cu tape armored shield calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

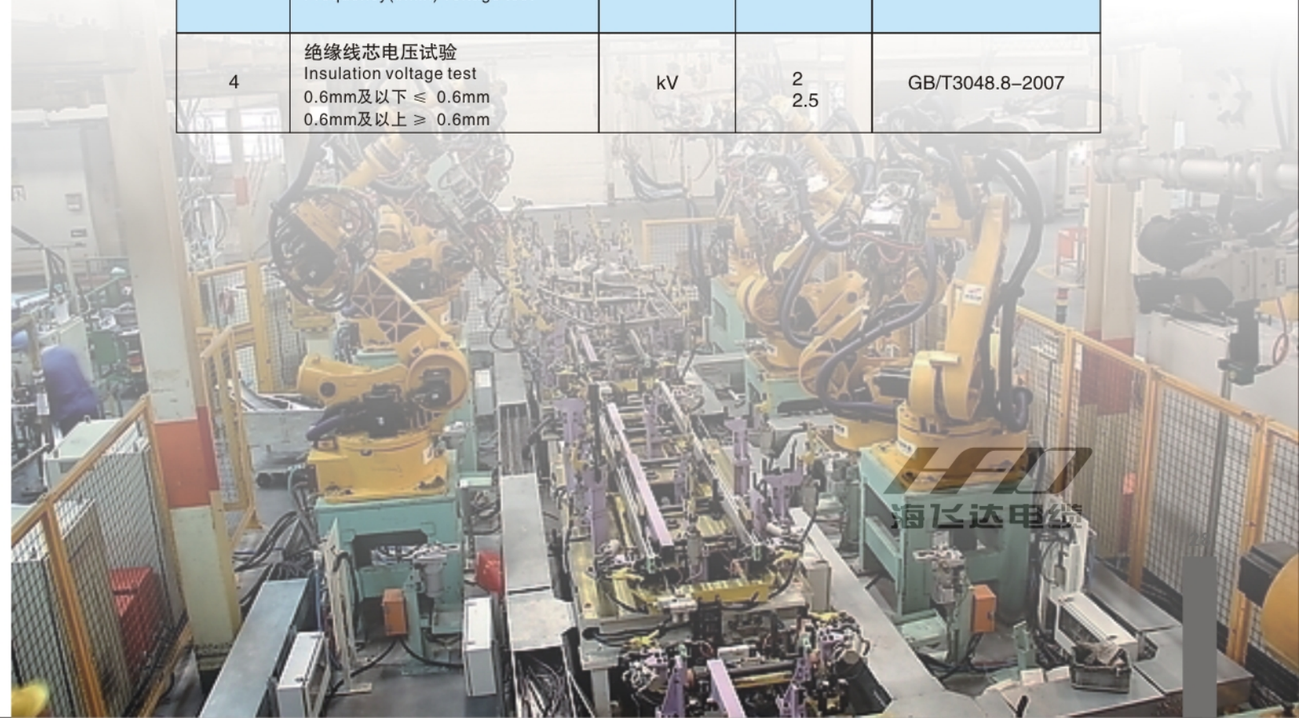
型号 Type	产品名称 Denomination
KVV	聚氯乙烯绝缘聚氯乙烯护套控制电缆 PVC insulated and sheathed control cable
KVVP	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套控制电缆 PVC insulated and sheathed braid shield control cable
$KVVP_2$	聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套控制电缆 PVC insulated and sheathed Cu tape armored shield control cable
$KVVP_3$	聚氯乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套控制电缆 PVC insulated and sheathed aluminum tape armored shield control cable
KVV_{22}	聚氯乙烯绝缘钢带铠装聚氯乙烯护套控制电缆 PVC insulated and sheathed steel tape armored control cable
$KVVP_{2-22}$	聚氯乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套控制电缆 PVC insulated and sheathed Cu tape armored shield control steel tape armored control cable
KVV_{32}	聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套控制电缆 PVC insulated and sheathed steel wire braid control cable
KVVR	聚氯乙烯绝缘聚氯乙烯护套软控制电缆 PVC insulated and sheathed soft control cable
KVVRP	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套软控制电缆 PVC insulated and sheathed braid shield soft control cable

五. 规格范围 Specification range

型 号 Type	标称截面 (mm²) Nominal cross section area (mm²)						
	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core NO.						
KVV KVVP	2–61				2–14		2–10
$KVVP_2$ $KVVP_3$	4–61				4–14		4–10
KVV_{22}	7–61		4–61		4–14		4–10
$KVVP_{2-22}$	7–61		4–61		4–14		4–10
KVV_{32}	19–61		7–61		4–14		4–10
KVVR	2–61				——		——
KVVRP	2–61		2–48		——		——

六、主要技术参数 Technolgical parameters

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3	GB/T3048.8–2007
4	绝缘线芯电压试验 Insulation voltage test 0.6mm及以下 ≤ 0.6mm 0.6mm及以上 ≥ 0.6mm	kV	2 2.5	GB/T3048.8–2007



⊙交联聚乙烯绝缘控制电缆
XLPE insulated control cable

一. 适用范围 Application

本产品用于额定电压450/750V及以下控制、监控回路及保护线路等场合。

Applicable to the control system ,control loop and protection cricuit with the rated voltage 450/750V(or lower).

二. 执行标准 Implementation of standards

GB/T9330.3–2008

GB/T9330.3–2008

三. 使用特性 Using characteristics

1. 导体最高工作温度90℃。
2. 安装敷设时环境温度不低于 0 ℃。
3. 安装敷设时最小弯曲半径：无铠装6 X 电缆外径，有屏蔽层软电缆6X电缆外径，有铠装或铜带屏蔽12X电缆外径。

1. The max working temperature of conductor (of a cable) is 70℃
2. The ambient temperature for laying is not lower than 0℃
3. The least allowed bending radius: steel tape–armored cable is 6 times the outer diameter of the cable; 6 times the outer diameter of the cable (the screen soft cable) ; steel tape–armored or Cu tape armored shield calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
KYJV	交联聚乙烯绝缘聚氯乙烯护套控制电缆 XLPE insulated PVC sheathed control cable
KYJVP	交联聚乙烯绝缘编织屏蔽聚氯乙烯护套控制电缆 XLPE insulated PVC sheathed braid shield control cable
$KYJVP_2$	交联聚乙烯绝缘铜带屏蔽聚氯乙烯护套控制电缆 XLPE insulated PVC sheathed Cu tape armored shield control cable
$KYJVP_3$	交联聚乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套控制电缆 XLPE insulated PVC sheathed aluminum tape armored shield control cable
$KYJV_{22}$	交联聚乙烯绝缘钢带铠装聚氯乙烯护套控制电缆 XLPE insulated PVC sheathed steel tape armored control cable
$KYJVP_{2-22}$	交联聚乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套控制电缆 XLPE insulated PVC sheathed Cu tape armored shield control steel tape armored control cable
$KYJVP_{32}$	交联聚乙烯绝缘编织屏蔽细钢丝铠装聚氯乙烯护套控制电缆 XLPE insulated PVC sheathed steel wire braid control cable

五. 规格范围 Specification range

型 号 Type	标称截面（mm^2） Nominal cross section area（mm^2）						
	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core NO.						
KYJV KYJVP	2–61				2–14		2–10
$KYJVP_2$ $KYJVP_3$	4–61				4–14		4–10
$KYJV_{22}$	7–61		4–61		4–14		4–10
$KYJVP_{2-22}$	7–61		4–61		4–14		4–10
$KYJVP_{32}$	19–61		7–61		4–14		4–10

六、主要技术参数 Technolgical parameters

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3	GB/T3048.8–2007
4	绝缘线芯电压试验 Insulation voltage test 0.6mm及以下 ≤ 0.6mm 0.6mm及以上 ≥ 0.6mm	kV	2 2.5	GB/T3048.8–2007

⊙阻燃控制电缆
Flame-retardant control cable

一. 适用范围 Application

本产品用于额定电压450/750V及以下有阻燃要求的控制、监控回路及保护线路等场合。

Applicable to the control system ,control loop and protection cricuit (which request flame-retardant) with the rated voltage 450/750V(or lower).

二. 执行标准 Implementation of standards

GB/T9330.2.3-2008
GB/T19666-2005 (等同IEC60331、60332)
GB/T9330.2.3-2008
GB/T19666-2005 (equal to IEC60331、60332)

三. 使用特性 Using characteristics

1. 导体最高工作温度：聚氯乙烯绝缘70℃，交联聚氯乙烯绝缘90℃。
2. 安装敷设时环境温度不低于 0 ℃。
3. 安装敷设时最小弯曲半径：无铠装6Ｘ电缆外径，有屏蔽层软电缆6X电缆外径，有铠装或铜带屏蔽12X电缆外径。

1. The max working temperature of conductor (of a cable) is 70℃(PVC insulated);90℃(XLPE insulated).
2. The ambient temperature for laying is not lower than 0℃
3. The least allowed bending radius: steel tape-armored cable is 6 times the outer diameter of the cable; 6 times the outer diameter of the cable (the screen soft cable)；steel tape-armored or Cu tape armored shield calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
ZA(B、C、D)-KVV	聚氯乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类控制电缆 PVC insulated and sheathed flame-retardent A（B.C.D） control cable
ZA(B、C、D)-KVVP	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套阻燃A（B、C、D）类控制电缆 PVC insulated and sheathed braid shield flame-retardent A（B.C.D）control cable
ZA(B、C、D)-KVVP$_2$	聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套阻燃A（B、C、D）类控制电缆 PVC insulated and sheathed Cu tape armored shield flame-retardent A（B、C、D）control cable
ZA(B、C、D)-KVVP$_3$	聚氯乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套阻燃A（B、C、D）类控制电缆 PVC insulated and sheathed aluminum tape armored shield flame-retardent A（B.C.D）control cable
ZA(B、C、D)-KVV$_{22}$	聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃A（B、C、D）类控制电缆 PVC insulated and sheathed steel tape armored flame-retardent A（B.C.D） control cable
ZA(B、C、D)-KVVP$_{2-22}$	聚氯乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套阻燃A（B、C、D）类控制电缆 PVC insulated and sheathed Cu tape armored shield control steel tape armored flame-retardent A（B.C.D） control cable
ZA(B、C、D)-KVVP$_{32}$	聚氯乙烯绝缘编织屏蔽细钢丝铠装聚氯乙烯护套阻燃A(B,C,D)类控制电缆 PVC insulated and sheathed steel wire braid flame-retardent A（B.C.D） control cable
ZA(B、C、D)-KVVR	聚氯乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类软控制电缆 PVC insulated and sheathed flame-retardent A（B.C.D）soft control cable
ZA(B、C、D)-KVVRP	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套阻燃A（B、C、D）类软控制电缆 PVC insulated and sheathed braid shield flame-retardent A（B.C.D）soft control cable
ZA(B、C、D)-KYJV	交联聚乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类控制电缆 XLPE insulated PVC sheathed flame-retardent A（B.C.D）control cable
ZA(B、C、D)-KYJVP	交联聚乙烯绝缘编织屏蔽聚氯乙烯护套阻燃A（B、C、D）类控制电缆 XLPE insulated PVC sheathed braid shield flame-retardent A（B.C.D）control cable
ZA(B、C、D)-KYJVP$_2$	交联聚乙烯绝缘铜带屏蔽聚氯乙烯护套阻燃A（B、C、D）类控制电缆 XLPE insulated PVC sheathed Cu tape armored shield flame-retardent A（B.C.D）control cable
ZA(B、C、D)-KYJVP$_3$	交联聚乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套阻燃A（B、C、D）类控制电缆 XLPE insulated PVC sheathed aluminum tape armored shield flame-retardent A（B.C.D）control cable
ZA(B、C、D)-KYJV$_{22}$	交联聚乙烯绝缘钢带铠装聚氯乙烯护套阻燃A（B、C、D）类控制电缆 XLPE insulated PVC sheathed steel tape armored flame-retardent A（B.C.D） control cable
ZA(B、C、D)-KYJVP$_{2-22}$	交联聚乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套阻燃A（B、C、D）类控制电缆 XLPE insulated PVC sheathed Cu tape armored shield control steel tape armored A（B.C.D）control cable
ZA(B、C、D)-KYJVP$_{32}$	交联聚乙烯绝缘编织屏蔽细钢丝铠装聚氯乙烯护套阻燃A（B、C、D）类控制电缆 XLPE insulated PVC sheathed steel wire braid A（B.C.D） control cable

五. 规格范围 Specification range

型号 Type	标称截面（mm²） Nominal cross section area（mm²）						
	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core NO.						
ZA(B、C、D)-KVV ZA(B、C、D)-KVVP ZA(B、C、D)-KYJV ZA(B、C、D)-KYJVP	2-61				2-14		2-10
ZA(B、C、D)-KVVP$_2$ ZA(B、C、D)-KVVP$_3$ ZA(B、C、D)-KYJVP$_2$ ZA(B、C、D)-KYJVP$_3$	4-61				4-14		4-10
ZA(B、C、D)-KVV$_{22}$ ZA(B、C、D)-KVVP$_{2-22}$ ZA(B、C、D)-KYJV$_{22}$ ZA(B、C、D)-KYJVP$_{2-22}$	7-61		4-61		4-14		4-10
ZA(B、C、D)-KVV$_{32}$ ZA(B、C、D)-KYJV$_{32}$	7-61		4-61		4-14		4-10
ZA(B、C、D)-KVVR	2-61				4-14		4-10
ZA(B、C、D)-KVVRP	2-16				2-48		4-6

六、主要技术参数 Technolgical parameters

1.电性能 Electrical properties

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3	GB/T3048.8–2007
4	绝缘线芯电压试验 Insulation voltage test 0.6mm及以下 ≤ 0.6mm 0.6mm及以上 ≥ 0.6mm	kV	2 2.5	GB/T3048.8–2007

2.阻燃性能 Flame–retardant

A单根阻燃性能
A Single–core flame–retardant

代号 Code	试样外径D Specimen diameter (mm)	供火时间 For fire time (s)	合格指标 Compliance index	试验方法 Test method
Z	D≤25	60	试样烧焦应不超过距上夹具下缘500mm–540mm的范围之外 Specimen char is far from fixture 500mm–540mm	GB/T18380.1–2001 (IEC60332–1:1993) GB/T18380.2–2001 (IEC60332–2–25:1989)
	25≤D≤50	120		
	50＜D ≤75	240		
	D＞75	480		

B成束阻燃性能
B The bundle flame–retardant

代号 Code	试样非金属材料体积 (L/m) Volume of specimen no–metallic material (L/m)	供火时间 (min) For fire time	合格指标 Compliance index	试验方法 Test method
ZA ZB ZC ZD	7 3.5 1.5 0.5	40 40 20 20	1. 试样上炭化的长度最大不应超过距喷嘴底边向上2.5m; Specimen carbonation is far from the edge of nozzle as 2.5m 2. 停止供火后试样上的有焰燃烧时间不应超过1h The flaming time is no longer than 1h after fired	GB/T18380.3–2001 (IEC60332–3:1992) (IEC60332–3–25:2000)

⊙耐火控制电缆
Fire–safe property control cable

一. 适用范围 Application

本产品用于额定电压450/750V及以下有阻燃防火要求的石油、化工、电站、地铁、医院、矿山、机场、高层建筑物等控制、监控回路及保护线路的特殊场合。

Applicable to the special area and the control system ,control loop and protection cricuit (which request flame–retardant) with the rated voltage 450/750V.Include petrochemical、power station、subway、hospital、mine、airport、high rise building and ect.which request the fire–safe.

二. 执行标准 Implementation of standards

GB/T9330.2.3–2008
GB/T19666–2005（等同IEC60331，60332）
GB/T9330.2.3–2008
GB/T19666–2005（equal to IEC60331，60332）

三. 使用特性 Using characteristics

1. 导体最高工作温度：聚氯乙烯绝缘70℃，交联聚氯乙烯绝缘90℃。
2. 安装敷设时环境温度不低于 0 ℃。
3. 安装敷设时最小弯曲半径：无铠装6Ｘ电缆外径，有屏蔽层软电缆6X电缆外径，有铠装或铜带屏蔽12X电缆外径。

1. The max working temperature of conductor (of a cable) is 70℃(PVC insulated);90℃(XLPE insulated).
2. The ambient temperature for laying is not lower than 0℃.
3. The least allowed bending radius: steel tape–armored cable is 6 times the outer diameter of the cable; 6 times the outer diameter of the cable (the screen soft cable) ;steel tape–armored or Cu tape armored shield calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
ZA(B、C、D)N–KVV	聚氯乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 PVC insulated and sheathed fire–safe A（B.C.D） control cable
ZA(B、C、D)N–KVVP	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 PVC insulated and sheathed braid shield fire–safe A（B.C.D）control cable
ZA(B、C、D)N–KVVP$_2$	聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 PVC insulated and sheathed Cu tape armored shield fire–safe A（B.C.D）control cable
ZA(B、C、D)N–KVVP$_3$	聚氯乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 PVC insulated and sheathed aluminum tape armored shield fire–safe A（B.C.D）control cable
ZA(B、C、D)N–KVV$_{22}$	聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 PVC insulated and sheathed steel tape armored fire–safe A（B.C.D） control cable
ZA(B、C、D)N–KVVP$_{2–22}$	聚氯乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 PVC insulated and sheathed Cu tape armored shield control steel tape armored fire–safe A（B.C.D） control cable
ZA(B、C、D)N–KVV$_{32}$	聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 PVC insulated and sheathed steel wire braid fire–safe A（B.C.D） control cable
ZA(B、C、D)N–KVVR	聚氯乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类耐火软控制电缆 PVC insulated and sheathed fire–safe A（B.C.D）soft control cable

ZA(B、C、D)N-KVVRP	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套阻燃A（B、C、D）类耐火软控制电缆 PVC insulated and sheathed braid shield fire-safe A（B.C.D）soft control cable
ZA(B、C、D)N-KYJV	交联聚乙烯绝缘聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 XLPE insulated PVC sheathed fire-safe A（B.C.D）control cable
ZA(B、C、D)N-KYJVP	交联聚乙烯绝缘编织屏蔽聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 XLPE insulated PVC sheathed braid shield fire-safe A（B.C.D）control cable
ZA(B、C、D)N-KYJVP$_2$	交联聚乙烯绝缘铜带屏蔽聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 XLPE insulated PVC sheathed Cu tape armored shield fire-safe A（B.C.D）control cable
ZA(B、C、D)N-KYJVP$_3$	交联聚乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 XLPE insulated PVC sheathed aluminum tape armored shield fire-safe A（B.C.D）control cable
ZA(B、C、D)N-KYJV$_{22}$	交联聚乙烯绝缘钢带铠装聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 XLPE insulated PVC sheathed steel tape armored fire-safe A（B.C.D）control cable
ZA(B、C、D)N-KYJVP$_{2-22}$	交联聚乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套阻燃A（B、C、D）类耐火控制电缆 XLPE insulated PVC sheathed Cu tape armored shield control steel tape armored fire-safe A（B.C.D）control cable
ZA(B、C、D)N-KYJVP$_{32}$	交联聚乙烯绝缘编织屏蔽细钢丝铠装聚氯乙烯护套阻燃A（B、C、D）耐火控制电缆 XLPE insulated PVC sheathed steel wire braid fire-safe A（B.C.D）control cable

五. 规格范围 Specification range

型号 Type	标称截面（mm²） Nominal cross section area（mm²）						
	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core No.						
ZA(B、C、D)N-KVV ZA(B、C、D)N-KVVP ZA(B、C、D)N-KYJV ZA(B、C、D)N-KYJVP	2-48				2-14		2-10
ZA(B、C、D)N-KVVP$_2$ ZA(B、C、D)N-KVVP$_3$ ZA(B、C、D)N-KYJVP$_2$ ZA(B、C、D)N-KYJVP$_3$	2-48				4-14		4-10
ZA(B、C、D)N-KVV$_{22}$ ZA(B、C、D)N-KVVP$_{2-22}$ ZA(B、C、D)N-KYJV$_{22}$ ZA(B、C、D)N-KYJVP$_{2-22}$	4-48		4-37		4-14		4-10
ZA(B、C、D)N-KVV$_{32}$ ZA(B、C、D)N-KYJV$_{32}$	7-37		7-24		4-14		4-10
ZA(B、C、D)N-KVVR	2-48				4-14		4-10
ZA(B、C、D)N-KVVRP	2-61		2-48		4-6		

六、主要技术参数 Technolgical parameters

1.电性能 Electrical properties

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the standard of GB/T3956-2008 (IEC60228:2004)		GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9-2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3	GB/T3048.8-2007
4	绝缘线芯电压试验 Insulation voltage test 0.6mm及以下 ≤ 0.6mm 0.6mm及以上 ≥ 0.6mm	kV	 2 2.5	GB/T3048.8-2007

2.耐火性能 Fire resistance

代号 Code	适用范围 Using range	供火时间+冷却时间 (min) For fire time+cooling time (min)	试验电压（V） Test voltage（V）	合格指标 Compliance index	试验方法 Test method
N	0.6/1KV及以下电缆≤1KV	90+15	额定值 Rating	1. 2A熔断器不断 2A fuse is not break off 2.指示灯不熄 Indicator bright	GB/T19216.23-2003 (IEC60331-23:1999)

⊙无卤低烟辐照交联控制电缆
Halogen free low smoke irradiation crosslinking control cable

一. 适用范围 Application

本产品用于额定电压450/750V及以下有阻燃防火要求的石油、化工、电站、地铁、医院、矿山、机场高层建筑物等控制、监控回路及保护线路的特殊场合的输配电线路，遇火灾燃烧时不产生有毒气体和烟雾。

Applicable to the special area and the control system ,control loop and protection cricuit (which request flame-retardant) with the rated voltage 450/750V.Include petrochemical、power station、subway、hospial、mine、airport、high rise building and ect.which request the fire-safe.It has no toxic gases and smoke during firing.

二. 执行标准 Implementation of standards

GB/T9330.2.3-2008
GB/T19666-2005（等同IEC60331、60332）
GB/T9330.2.3-2008
GB/T19666-2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度：交联聚烯烃绝缘90℃～125℃
2.安装敷设时环境温度不低于 0 ℃。
3.安装敷设时最小弯曲半径：无铠装6Ｘ电缆外径，有屏蔽层软电缆6X电缆外径，有铠装或铜带屏蔽12X电缆外径。
1.The highest working temperature of conductor (of a cable) is 90℃～125℃ (crosslinked polyolefin insulation)
2.The ambient temperature for laying is not lower than 0℃.
3.The least allowed bending radius: steel tape-armored cable is 6 times the outer diameter of the cable; 6 times the outer diameter of the cable (the screen soft cable) ;steel tape-armored or Cu tape armored shield calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
WDZA(B、C、D)-KYJY	交联聚乙烯/聚烯烃绝缘无卤低烟聚烯烃护套阻燃A（B、C、D）类控制电缆 XLPE/Polyolefin insulated Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）control cable
WDZA(B、C、D)-KYJYP	交联聚乙烯/聚烯烃绝缘编织屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类控制电缆 XLPE/Polyolefin insulated braided shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）control cable
WDZA(B、C、D)-KYJYP$_2$	交联聚乙烯/聚烯烃绝缘铜带屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类控制电缆 XLPE/Polyolefin insulated copper tape shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）control cable
WDZA(B、C、D)-KYJYP$_3$	交联聚乙烯/聚烯烃绝缘铝塑复合带屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类控制电缆 XLPE/Polyolefin insulated Aluminum and plastic compound tape shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）control cable
WDZA(B、C、D)-KYJY$_{23}$	交联聚乙烯/聚烯烃绝缘钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类控制电缆 XLPE/Polyolefin insulated steel tape armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)-KYJYP$_{2-23}$	交联聚乙烯/聚烯烃绝缘铜带屏蔽钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated copper tape shielding steel tape armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)-KYJYP$_{33}$	交联聚乙烯/聚烯烃绝缘细钢丝铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated fine steel wire armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)N-KYJY	交联聚乙烯/聚烯烃绝缘无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)N-KYJYP	交联聚乙烯/聚烯烃绝缘编织屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated braided shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)N-KYJYP$_2$	交联聚乙烯/聚烯烃绝缘铜带屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated copper tape shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)N-KYJYP$_3$	交联聚乙烯/聚烯烃绝缘铝塑复合带屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated Aluminum and plastic compound tape shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)N-KYJY$_{23}$	交联聚乙烯/聚烯烃绝缘钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated steel tape armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)N-KYJYP$_{2-23}$	交联聚乙烯/聚烯烃绝缘铜带屏蔽钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated copper tape shielding steel tape armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
WDZA(B、C、D)N-KYJYP$_{33}$	交联聚乙烯/聚烯烃绝缘细钢丝铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类耐火控制电缆 XLPE/Polyolefin insulated fine steel wire armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）fire resistant control cable
辐照交联型在型号中加F	F is added to Radiation crosslinking cable

五. 规格范围 Specification range

型号 Type	标称截面（mm²） Nominal cross section area（mm²）						
	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core NO.						
WDZA(B、C、D)-KYJY WDZA(B、C、D)-KYJYP WDZA(B、C、D)N-KYJY WDZA(B、C、D)N-KYJYP	2-48				2-14		2-10
WDZA(B、C、D)-KYJYP$_2$ WDZA(B、C、D)-KYJYP WDZA(B、C、D)N-KYJYP$_2$ WDZA(B、C、D)N-KYJYP$_3$	2-48				4-14		4-10
WDZA(B、C、D)-KYJY$_{23}$ WDZA(B、C、D)-KYJYP$_{2-23}$ WDZA(B、C、D)N-KYJY$_{23}$ WDZA(B、C、D)N-KYJYP$_{2-23}$	4-48		4-37		4-14		4-10
WDZA(B、C、D)-KYJYP$_{33}$ WDZA(B、C、D)N-KYJYP$_{33}$	7-37		7-24		4-14		4-10

六. 主要技术参数 Technolgical parameters

1.电性能 Electrical properties

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3	GB/T3048.8–2007
4	绝缘线芯电压试验 Insulation voltage test 0.6mm及以下 ≤ 0.6mm 0.6mm及以上 ≥ 0.6mm	kV	2 2.5	GB/T3048.8–2007

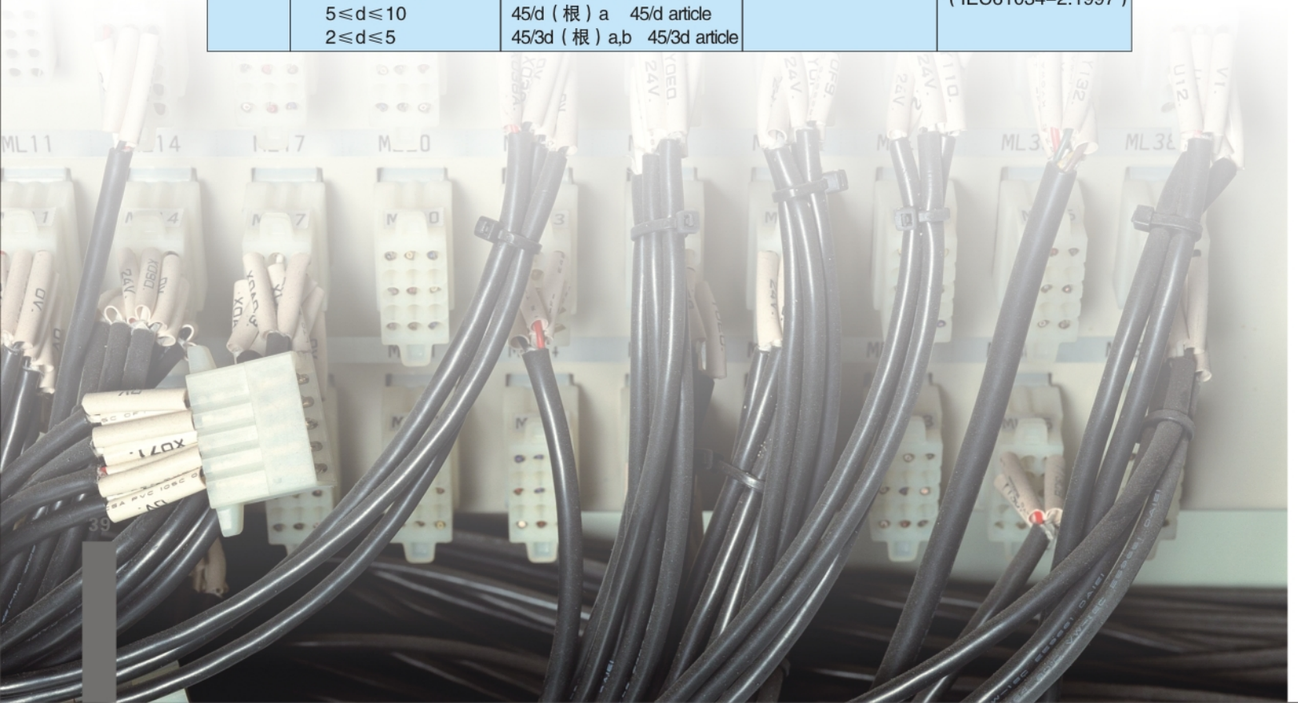
2.无卤低烟性能 Low–smoke halogenfree polyolefin

A 无卤性能 Halogenfree performance

代号 Code	无 卤（低腐蚀性） Halogenfree (low corrosion)		试验方法 Test method
	PH加权值 PH weights	电导率加权值（μs/mm） Conductivity weights（μs/mm）	
N	≥4.3	≤10	GB/T17650.2–1998 (IEC60754–2：1991)

B 低烟性能 Low–smoke performance

代号 Code	试样外径d（mm） Specimen diameter	试样数 Number of specimen	最小透光率 The least of transmittance	试验方法 Test method
D	d＞40 20＜d≤40 10＜d≤20 5≤d≤10 2≤d≤5	1（根）1article 2（根）2article 3（根）3article 45/d（根）a 45/d article 45/3d（根）a,b 45/3d article	≥60	GB/T17651.2–1998 (IEC61034–2:1997)



⊙氟塑料绝缘耐高温控制电缆

Fluoroplastics insulated heat–resistance control cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下有耐高温、低温、耐酸碱腐蚀要求的控制、监控回路及保护线路等合。

Applicable to the control system ,control loop and protection cricuit of high、low temp environment or the corrosion of acid and base area with the rated voltage 0.6/1kV (or lower).

二. 执行标准 Implementation of standards

TICW3–2009
GB/T19666–2005（等同IEC60331、60332）
TICW3–2009
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度：聚全氟乙丙烯绝缘（FEP）200℃，聚四氟乙烯绝缘（PFA）260℃。
2.最低使用环境温度：–60℃。
3.安装敷设时最小弯曲半径：无铠装或屏蔽层8X电缆外径，有铠装或屏蔽层缆15X电缆外径。

1.The max working temperature of conductor (of a cable) is 200℃(FEP) and 260℃ (PFA)
2.The ambient temperature for laying is not lower than –60℃.
3.The least allowed bending radius: no shield or steel tape–armored cable is 8 times the outer diameter of the cable; shield or steel tape–armored cable is 15 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
KFF	氟塑料绝缘氟塑料护套控制电缆 F46 insulated and sheathed heat–resistance control cable
KFFR	氟塑料绝缘氟塑料护套软控制电缆 F46 insulated and sheathed heat–resistance soft control cable
KFFP	氟塑料绝缘编织屏蔽氟塑料护套控制电缆 F46 insulated and sheathed braid shield control cable
KFFRP	氟塑料绝缘编织屏蔽氟塑料护套软控制电缆 F46 insulated and sheathed braid shield soft control cable
$KFFP_2$	氟塑料绝缘铜带屏蔽氟塑料护套控制电缆 F46 insulated and sheathed Cu tape–armored shield control cable
$KFFP_3$	氟塑料绝缘铝塑复合带屏蔽氟塑料护套控制电缆 F46 insulated and sheathed aluminum tape–armored shield control cable
KFF9F	氟塑料绝缘细钢丝编织铠装氟塑料护套控制电缆 F46 insulated and sheathed steel wire braid control cable

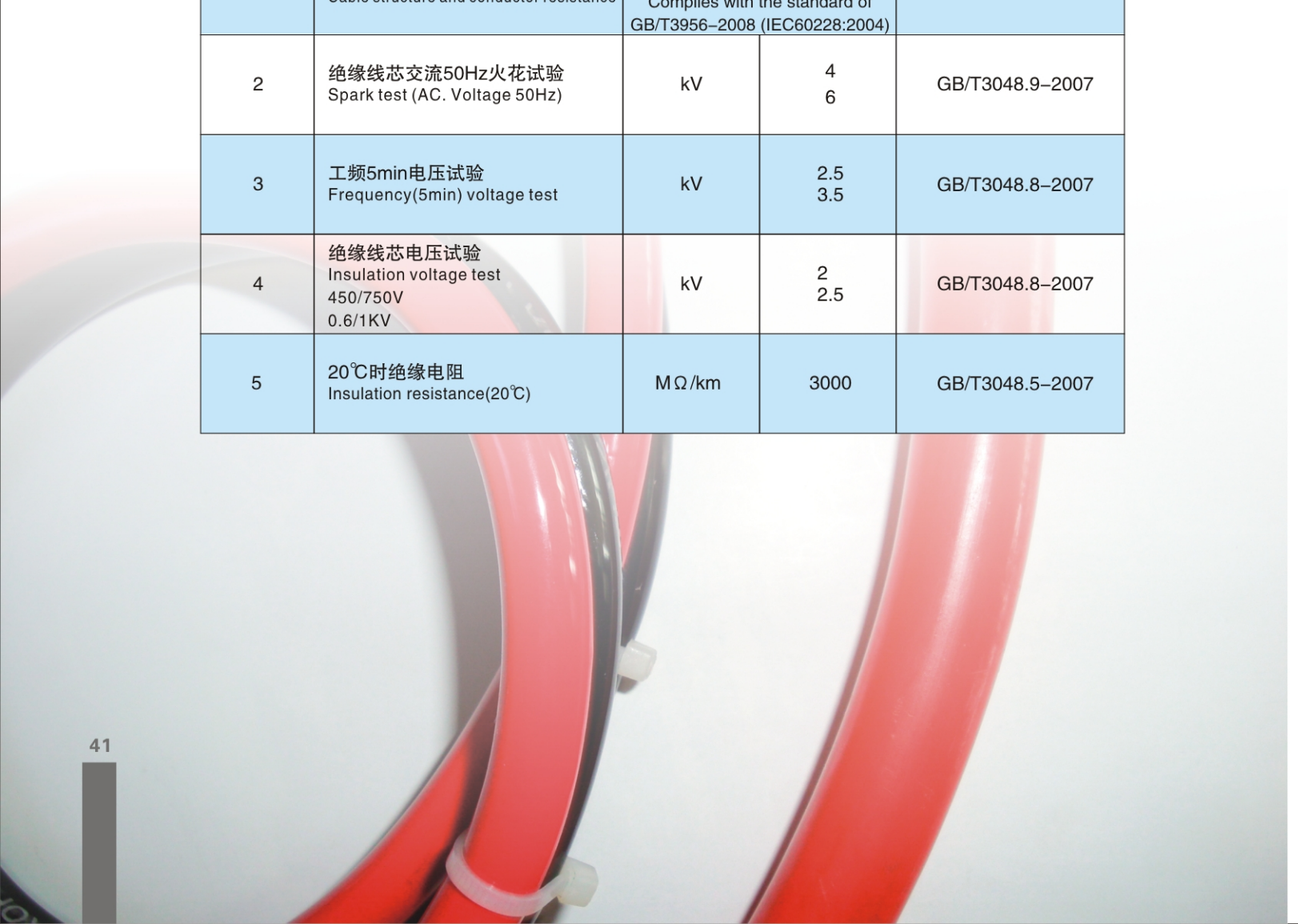
五. 规格范围 Specification range

型号 Type	标称截面（mm²） Nominal cross section area（mm²）							
	0.5	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core NO.							
KFF KFFR KFFP KFFRP $KFFP_2$ $KFFP_3$	—	2–19				2–12		
KFF9F	—	2–19				4–12		

六. 主要技术参数 Technolgical parameters

1.电性能Electrical properties

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	4 6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	2.5 3.5	GB/T3048.8–2007
4	绝缘线芯电压试验 Insulation voltage test 450/750V 0.6/1KV	kV	2 2.5	GB/T3048.8–2007
5	20℃时绝缘电阻 Insulation resistance(20℃)	MΩ/km	3000	GB/T3048.5–2007



⊙硅橡胶绝缘耐热控制电缆
Silica rubber insulated heat–resistance control cable

一. 适用范围 Application

本产品用于额定电压0.6/1kV及以下有耐高温、耐低温、耐酸碱腐蚀要求的控制、监控回路及保护线路等场合。

Applicable to the control system ,control loop and protection cricuit of high,low temp environment or the corrosion of acid and base area with the rated voltage 0.6/1kV (or lower).

二. 执行标准 Implementation of standards

TICW5–2009
GB/T19666–2005 (等同IEC60331、60332)
TICW5–2009
GB/T19666–2005 (equal to IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度180℃。
2.短路时（最长持续时间不超过5s）最高工作温度350℃。
3.安装敷设时最小弯曲半径：无铠装或屏蔽层6X电缆外径，有铠装或屏蔽层12X电缆外径。
1.The max working temperature of conductor (of a cable) is 180℃
2.The short–circuit temperature (lasting no longer than 5s) is less than 350℃.
3.The least allowed bending radius: no shield or steel tape–armored cable is 8 times the outer diameter of the cable; shield or steel tape–armored cable is 15 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
KGG	硅橡胶绝缘硅橡胶护套控制电缆 Silica rubber insulated and sheathed heat–resistance control cable
KGGR	硅橡胶绝缘硅橡胶护套软控制电缆 Silica rubber insulated and sheathed heat–resistance soft control cable
KGGP	硅橡胶绝缘编织屏蔽硅橡胶护套控制电缆 Silica rubber insulated and sheathed heat–resistance braid shield control cable
KGGRP	硅橡胶绝缘编织屏蔽硅橡胶护套软控制电缆 Silica rubber insulated and sheathed braid shield heat–resistance soft control cable
$KGGRP_2$	硅橡胶绝缘铜带屏蔽硅橡胶护套控制电缆 Silica rubber insulated and sheathed heat–resistance Cu tape–armored shield control cable
KGG2G	硅橡胶绝缘钢带铠装硅橡胶护套控制电缆 Silica rubber insulated and sheathed heat–resistance steel tape–armored control cable
KGG3G	硅橡胶绝缘细钢丝铠装硅橡胶护套控制电缆 Silica rubber insulated and sheathed heat–resistance steel wire braid control cable
阻燃型在型号前加ZA（B、C、D） ZA（B.C.D）is added to flame–resistant cable	

五. 规格范围 Specification range

型号 Type	标称截面（mm^2） Nominal cross section area（mm^2）							
	0.5	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core NO.							
KGG KGGP	—	2–61				2–14		2–10
$KGGP_2$	—	4–61				2–14		2–10
KGG2G	—	7–61			4–61	2–12		2–10
KGG3G	—	7–37				2–14		2–10
KGGR	2–61					2–12		2–5
KGGRP	2–61			2–48		2–12		2–5

六. 主要技术参数 Technolgical parameters

1.电性能Electrical properties

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test 450/750V 0.6/1KV	kV	2.5 3.5	GB/T3048.8–2007
4	绝缘线芯电压试验 Insulation voltage test 450/750V 0.6/1KV	kV	2 2.5	GB/T3048.8–2007
5	20℃时绝缘电阻 Insulation resistance(20℃)	MΩ/km	1500	GB/T3048.5–2007

⊙本质安全型控制电缆
Intrinsically safe circuit control cable

一. 适用范围 Application

本产品用于额定电压450/750V及以下有爆炸环境下控制、监控回路及保护线路等本质安全电路场合。具有分布参数小、低电路、低电感、抗电磁场射频干扰、抗近场耦合等特点。

Applicable to the control system ,control loop and protection cricuit environment or in the explosionproof with the rated voltage 450/750V (or lower).It has small distribution parameter,low circuit,low inductance,against the interference of the electromagneteic field and the near–field coupling capacitor.

二. 执行标准 Implementation of standards

GB/T9330.2.3–2008
GB/T3836–2010(等同IEC60079、2007)
GB/T19666–2005（等同IEC60331、60332）
GB/T9330.2.3–2008
GB/T3836–2010(equal to IEC60079、2007)
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度：聚氯乙烯绝缘70℃,交联聚氯乙烯绝缘、聚烯烃绝缘90℃。
2.安装敷设时环境温度不低于0℃。
3.安装敷设时最小弯曲半径：无铠装6X电缆外径，有屏蔽层软电缆6X电缆外径，有铠装或铜带屏蔽12X电缆外径。
1.The max working temperature of conductor (of a cable) is 70℃(PVC)and 90℃(XLPE/ polyolefin)
2.The ambient temperature for laying is not lower than 0℃.
3.The least allowed bending radius: steel tape–armored cable is 6 times the outer diameter of the cable; 6 times the outer diameter of the cable (the screen soft cable) ;steel tape–armored or Cu tape armored shield calble is 12 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
IA–KVV（R）	聚氯乙烯绝缘聚氯乙烯护套本质安全型控制（软）电缆 PVC insulated and sheathed intrinsically safe (soft) control cable
IA–KVV（R）P	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套本质安全型控制（软）电缆 PVC insulated and sheathed braid shield intrinsically safe (soft) control cable
$IA–KVVP_2$	聚氯乙烯绝缘铜带屏蔽聚氯乙烯护套本质安全型控制电缆 PVC insulated and sheathed Cu tape–armored shield intrinsically safe control cable
$IA–KVVP_3$	聚氯乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套本质安全型控制电缆 PVC insulated and sheathed aluminum tape–armored shield intrinsically safe control cable
$IA–KVV_{22}$	聚氯乙烯绝缘钢带铠装聚氯乙烯护套本质安全型控制电缆 PVC insulated and sheathed steel tape–armored intrinsically safe control cable
$IA–KVVP_{2-22}$	聚氯乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套本质安全型控制电缆 PVC insulated and sheathed Cu tape–armored shield steel tape–armored intrinsically safe control cable
IA–KYJV（R）	交联聚乙烯绝缘聚氯乙烯护套本质安全型控制（软）电缆 XLPE insulated PVC sheathed intrinsically safe (soft) control cable

IA–KYJV（R）P	交联聚乙烯绝缘编织屏蔽聚氯乙烯护套本质安全型控制（软）电缆 XLPE insulated PVC sheathed braid shield intrinsically safe (soft) control cable
IA–KYJVP$_2$	交联聚乙烯绝缘铜带屏蔽聚氯乙烯护套本质安全型控制电缆 XLPE insulated PVC sheathed Cu tape–armored shield intrinsically safe control cable
IA–KYJVP$_3$	交联聚乙烯绝缘铝塑复合带屏蔽聚氯乙烯护套本质安全型控制电缆 XLPE insulated PVC sheathed aluminum tape–armored shield intrinsically safe control cable
IA–KYJV$_{22}$	交联聚乙烯绝缘钢带铠装聚氯乙烯护套本质安全型控制电缆 XLPE insulated PVC sheathed steel tape–armored intrinsically safe control cable
IA–KYJVP$_{2-22}$	交联聚乙烯绝缘铜带屏蔽钢带铠装聚氯乙烯护套本质安全型控制电缆 XLPE insulated PVC sheathed Cu tape–armored shield steel tape–armored intrinsically safe control cable
IA–WDZA（B、C、D）– KYJY（R）	无卤低烟聚烯烃绝缘无卤低烟聚烯烃护套阻燃A（B、C、D）类本质安全型控制（软）电缆 Halogen free low smoke polyolefin insulated and sheathed flame retardant A（B、C、D）intrinsically safe control（soft）cable
IA–WDZA（B、C、D）– KYJY（R）P	无卤低烟聚烯烃绝缘编织屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类本质安全型控制（软）电缆 Halogen free low smoke polyolefin insulated braided shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）intrinsically safe control（soft）cable
IA–WDZA（B、C、D）– KYJYP$_2$	无卤低烟聚烯烃绝缘铜带屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类本质安全型控制电缆 Halogen free low smoke polyolefin insulated copper tape shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）intrinsically safe control cable
IA–WDZA（B、C、D）– KYJYP$_3$	无卤低烟聚烯烃绝缘铝塑复合带屏蔽无卤低烟聚烯烃护套阻燃A（B、C、D）类本质安全型控制电缆 Halogen free low smoke polyolefin insulated aluminum and plastic compound tape shielding Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）intrinsically safe control cable
IA–WDZA（B、C、D）– KYJY$_{22}$	无卤低烟聚烯烃绝缘钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类本质安全型控制电缆 Halogen free low smoke polyolefin insulated steel tape armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）intrinsically safe control cable
IA–WDZA（B、C、D）– KYJYP$_{2-22}$	无卤低烟聚烯烃绝缘铜带屏蔽钢带铠装无卤低烟聚烯烃护套阻燃A（B、C、D）类本质安全型控制电缆 Halogen free low smoke polyolefin insulated copper tape shielding steel tape armoured Halogen free low smoke polyolefin sheath flame retardant A（B、C、D）intrinsically safe control cable

阻燃型在型号前加ZA（B、C、D），耐火型在型号中加N，辐照交联型在型号中加F
ZA（B.C.D）is added to flame–resistant cable，N is added to Refractory cable，F is added to Irradiation cable

五. 规格范围 Specification range

型号 Type	标称截面（mm^2）Nominal cross section area（mm^2）						
	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core NO.						
IA–KVV（R）、IA–KVV（R）P、IA–KYJ V（R）、IA–KYJV（R）P、IA–WDZA（B、C、D）– KYJY（R）、IA–WDZA（B、C、D）– KYJY（R）P	2–61				2–14		2–10
IA–KVVP$_2$、IA–KVVP$_3$ IA–KYJVP$_2$、IA–KYJVP$_3$ IA–WDZA（B、C、D）– KYJYP$_2$、IA–WDZA（B、C、D）– KYJYP$_3$	2–48				4–14		4–10
IA–KVV$_{22}$ IA–KYJV$_{22}$ IA–WDZA(B、C、D)– KYJY$_{22}$	7–48		4–37		4–14		4–10
IA–KVVP$_{2-22}$ IA–KYJVP$_{2-22}$ IA–WDZA(B、C、D)– KYJYP$_{2-22}$	7–48		4–37		4–14		4–10

六、主要技术参数 Technolgical parameters

1.电性能 Electrical properties

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 cable structure and conductor resistance	符合GB/T3956–2008标准（IEC60228:2004） Complies with the standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3	GB/T3048.8–2007
4	绝缘线芯电压试验 Insulation voltage test 0.6mm及以下 ≤0.6mm 0.6mm及以上 ≥0.6mm	kV	2 2.5	GB/T3048.8–2007
5	分布电容 Distribution capacity	pF/m	≤90	GB5441.2–1985
6	分布电感 Distributed inductance	mH/m	≤1.2	GB5441.3–1985
7	抗电磁干扰400A/M Electro–magnetic inferference inducance voltage 400A/M	mv	≤5	GB17626–2006
8	抗静电干扰10KV Electrostatic boltage 10KV	V	≤1	GB6833.3–1987
9	抗射频干扰1V/m Transimssion field penetrating intensity	dB	≤60	GB6833.10–1987

⊙聚氯乙烯绝缘计算机仪表电缆
PVC insulated computer cable

一. 适用范围 Application

本产品用于额定电压300/500V及以下电子计算机、监控网络、自动化控制系统的信号传输及检测仪器、仪表连接。

Applicable to computer、Monitoring Network、Signal transmission of automation control systems and Instrumentation、instrument connections, with rated voltage 300/500V and lower.

二. 执行标准 Implementation of standards

TICW6-2009
GB/T19666-2005（等同IEC60331、60332）
TICE6-2009
GB/T19666-2005(Equally IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：70℃。
2.安装敷设时环境温度不低于0℃。
3.安装敷设时最小弯曲半径：固定5×电缆外径，移动10×电缆外径。

1.Max working temperature of conductor: 70℃.
2.Ambient temperature of installation laying: ≥0℃
3.Low bending radius of installation laying: Fixed 5 times the outer diameter of cable
Mobile 10 times the outer diameter of cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
DJVV(R)P	聚氯乙烯绝缘编织总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated braided shield PVC sheathed (soft) computer cable
DJVPV(R)	聚氯乙烯绝缘编织分屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated braided shielding PVC sheathed (soft) computer cable
DJVPV(R)P	聚氯乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated braided shielding and shield PVC sheathed (soft) computer cable
DJVP$_2$V(R)	聚氯乙烯绝缘铜塑复合带分屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated Copper plastic tape shielding PVC sheathed (soft) computer cable
DJVP$_2$V(R)P$_2$	聚氯乙烯绝缘铜塑复合带分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated Copper plastic tape shielding and shield PVC sheathed (soft) computer cable
DJVV(R)P$_3$	聚氯乙烯绝缘铝塑复合带总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated AL-polyester shield PVC sheathed (soft) computer cable
DJVP$_3$V(R)	聚氯乙烯绝缘铝塑复合带分屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated AL-polyester shielding PVC sheathed (soft) computer cable
DJVP$_3$V(R)P$_3$	聚氯乙烯绝缘铝塑复合带分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated AL-polyester shielding and shield PVC sheathed (soft) computer cable
DJVV(R)P$_5$	聚氯乙烯绝缘铝塑复合带编织总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PVC insulated AL-polyester braided shield PVC sheathed (soft) computer cable

阻燃型在型号前加ZA（B、C、D），阻燃耐火型在型号前加ZA（B、C、D）N，无卤低烟型在型号前加WDZA（B、C、D），辐照交联型在型号中加F，钢带铠装型在型号后加22，钢丝铠装型在型号后加32。
ZA(B.C.D) is added to the flame-resistant cable, ZA(B.C.D)N is added to the fire-safe cable,WD ZA(B.C.D) is added to the LSZH cable, F is added to Irradiation cable, 22 is added to the steel tape armored cable, 32 is added to steel wire armored cable.

五. 规格范围 Specification range

型号 Type	标称截面（mm²） Nominal cross-sectional area	成缆元件结构 Structure cabling components		
		对线组In pairs	三线组Three-group	四线组Four-group
全部型号 All types	0.5～2.5	1～50	1～24	1～10

六. 主要技术参数 Technoloical parameters

序号 NO.	项 目 Project	单位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the sandard of GB/T3956-2008(IEC60228:2004)		GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 50HZ AC spark test of Insulated wire core	kV	4	GB/T3048.9-2007
3	工频1min电压试验 Frequency voltage test 1min	kV	1	GB/T3048.8-2007
4	屏蔽抑制系数 Shielding suppression factor	分屏蔽/总屏蔽：≤0.05 Shielding/shied ≤0.05		TICW6-2009附录B TICW6-2009AppendixB
		分屏蔽/总屏蔽：≤0.01 Shielding/shied ≤0.01		
5	线对地最大电容不平衡值（频率1KHZ，长度250m） Max capacity imbalance of Line-to-ground(Frequency:1KHZ, Length:250m)	pF	≤500	GB5441.3-1985
6	最大工作电容： A总屏蔽(除1成缆元件与2成缆元件外) B有总屏蔽的成缆1成缆元件和2成缆元件及带单独屏蔽对 Max working capacitor: A Shield(In addition to external 1,2 Cabling Components) B A total shield 1 Cabling components、2 Cabling components and individual shield	pF/m	250 280	GB5441.2-1985
7	工作电容和电感电阻比 L/Ω（1KHz） Working capacitor and inductance /resistance L/Ω（1KHz）	μH/Ω	0.5～1.0 mm² / 1.5 mm² / 2.5 mm² 25 / 40 / 65	EN50289-1-12:2005

⊙聚乙烯绝缘计算机仪表电缆
PE insulated computer cable

一. 适用范围 Application

本产品用于额定电压300/500V及以下电子计算机、监控网络、自动化控制系统的信号传输及检测仪器、仪表连接。

Applicable to computer、Monitoring Network、Signal transmission of automation control systems and Instrumentation、instrument connections, with rated voltage 300/500V and lower.

二. 执行标准 Implementation of standards

TICW6–2009
GB/T19666–2005（等同IEC60331、60332）
TICE6–2009
GB/T19666–2005(Equally IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：70℃。
2.安装敷设时环境温度不低于0℃。
3.安装敷设时最小弯曲半径：固定5×电缆外径，移动10×电缆外径。

1.Max working temperature of conductor: 70℃.
2.Ambient temperature of installation laying: ≥0℃
3.Low bending radius of installation laying: Fixed 5 times the outer diameter of cable
Mobile 10 times the outer diameter of cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
DJYV(R)P	聚乙烯绝缘编织总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated braided shield PVC sheathed (soft) computer cable
DJYPV(R)	聚乙烯绝缘编织分屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated braided shielding PVC sheathed (soft) computer cable
DJYPV(R)P	聚乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated braided shielding and shield PVC sheathed (soft) computer cable
DJYV(R)P_2	聚乙烯绝缘铜塑复合带总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated copper plastic tape shield PVC sheathed (soft) computer cable
DJYP_2V(R)	聚乙烯绝缘铜塑复合带分屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated copper plastic tape shielding PVC sheathed (soft) computer cable
DJYP_2V(R)P_2	聚乙烯绝缘铜塑复合带分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated copper plastic tape shielding and shield PVC sheathed (soft) computer cable
DJYV(R)P_3	聚乙烯绝缘铝塑复合带总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated AL–polyester shield PVC sheathed (soft) computer cable
DJYP_3V(R)	聚乙烯绝缘铝塑复合带分屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated AL–polyester shielding PVC sheathed (soft) computer cable
DJYP_3V(R)P_3	聚乙烯绝缘铝塑复合带分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated AL–polyester shielding and shield PVC sheathed (soft) computer cable
DJYV(R)P_5	聚乙烯绝缘铝塑复合带编织总屏蔽聚氯乙烯护套计算机仪表(软)电缆 PE insulated AL–polyester and braided shield PVC sheathed (soft) computer cable

阻燃型在型号前加ZA（B、C、D），阻燃耐火型在型号前加ZA（B、C、D）N，无卤低烟型在型号前加WDZA（B、C、D），辐照交联型在型号中加F，钢带铠装型在型号后加22，钢丝铠装型在型号后加32。
ZA(B.C.D) is added to the flame–resistant cable, ZA(B.C.D)N is added to the fire–safe cable,WDZA(B.C.D) is added to the LSZH cable, F is added to Irradiation cable，22 is added to the steel tape armored cable, 32 is added to steel wire armored cable.

五. 规格范围 Specification range

型号 Type	标称截面（mm^2） Nominal cross–sectional area	成缆元件结构 Structure cabling components		
		对线组In pairs	三线组Three–group	四线组Four–group
全部型号 All types	0.5～2.5	1～50	1～24	1～10

六. 主要技术参数 Technoloical parameters

序号 NO.	项 目 Project	单位 Unit	指 标 Index			试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standard ot GB/T3956–2008(IEC60228:2004)				GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 50HZ AC spark test of Insulated wire core	kV	4			GB/T3048.9–2007
3	工频1min电压试验 Frequency voltage test 1min	kV	1			GB/T3048.8–2007
4	屏蔽抑制系数 Shielding suppression factor	分屏蔽/总屏蔽：≤0.05 Shielding/shied ≤0.05				TICW6–2009附录B TICW6–2009AppendixB
		分屏蔽/总屏蔽：≤0.01 Shielding/shied ≤0.01				
5	线对地最大电容不平衡值（频率1KH，长度250m） Max capacity imbalance of Line–to–ground(Frequency:1KHZ, Length:250m)	pF	≤500			GB5441.3–1985
6	最大工作电容： A总屏蔽(除1成缆元件与2成缆元件外) B有总屏蔽的成缆1成缆元件和2成缆元件及带单独屏蔽对 Max working capacitor: A Shield(In addition to external 1,2 Cabling Components) B A total shield 1 Cabling components、2 Cabling components and individual shield	pF/m	0.5～1.0 mm^2	1.5 mm^2	2.5 mm^2	GB5441.2–1985
			75 115	85 125	90 130	
7	工作电容和电感电阻比 L/Ω（1KHz） Working capacitor and inductance/resistance L/Ω（1KHz）	μH/Ω	0.5～1.0 mm^2	1.5 mm^2	2.5 mm^2	EN50289–1–12:2005
			25	40	65	

⊙交联聚乙烯绝缘计算机仪表电缆
XLPE insulated computer cable

一. 适用范围 Application

本产品用于额定电压300/500V及以下电子计算机、监控网络、自动化控制系统的信号传输及检测仪器、仪表连接。

Applicable to computer、Monitoring Network、Signal transmission of automation control systems and Instrumentation、instrument connections, with rated voltage 300/500V and lower.

二. 执行标准 Implementation of standards

TICW6–2009
GB/T19666–2005（等同IEC60331、60332）
TICW6–2009
GB/T19666–2005(Equally IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：90℃。
2.安装敷设时环境温度不低于0℃。
3.安装敷设时最小弯曲半径：固定5×电缆外径，移动10×电缆外径。

1.Max working temperature of conductor: 70℃.
2.Ambient temperature of installation laying: ⩾0℃
3.Low bending radius of installation laying: Fixed 5 times the outer diameter of cable
Mobile 10 times the outer diameter of cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
DJYJV(R)P	交联聚乙烯绝缘编织总屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated braided shield PVC sheathed (soft) computer cable
DJYJPV(R)	交联聚乙烯绝缘编织分屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated braided shielding PVC sheathed (soft) computer cable
DJYJPV(R)P	交联聚乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated braided shielding and shield PVC sheathed (soft) computer cable
DJYJV(R)P_2	交联聚乙烯绝缘铜塑复合带总屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated copper plastic tape shield PVC sheathed (soft) computer cable
DJYJP_2V(R)	交联聚乙烯绝缘铜塑复合带分屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated copper plastic tape shielding PVC sheathed (soft) computer cable
DJYJP_2V(R)P_2	交联聚乙烯绝缘铜塑复合带分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated copper plastic tape shielding and shield PVC sheathed (soft) computer cable
DJYJV(R)P_3	交联聚乙烯绝缘铝塑复合带总屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated AL–polyester shield PVC sheathed (soft) computer cable
DJYJP_3V(R)	交联聚乙烯绝缘铝塑复合带分屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated AL–polyester shielding PVC sheathed (soft) computer cable
DJYJP_3V(R)P_3	交联聚乙烯绝缘铝塑复合带分屏蔽总屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated AL–polyester shielding and shield PVC sheathed (soft) computer cable
DJYJV(R)P_5	交联聚乙烯绝缘铝塑复合带编织总屏蔽聚氯乙烯护套计算机仪表(软)电缆 XLPE insulated AL–polyester and braided shield PVC sheathed (soft) computer cable

阻燃型在型号前加ZA（B、C、D），阻燃耐火型在型号前加ZA（B、C、D）N，无卤低烟型在型号前加WDZA（B、C、D），辐照交联型在型号中加F，钢带铠装型在型号后加22，钢丝铠装型在型号后加32。
ZA(B.C.D) is added to the flame–resistant cable, ZA(B.C.D)N is added to the fire–safe cable,WDZA(B.C.D) is added to the LSZH cable, F is added to Irradiation cable, 22 is added to the steel tape armored cable.
32 is added to steel wire armored cable.

五. 规格范围 Specification range

型号 Type	标称截面（mm^2） Nominal cross–sectional area	成缆元件结构 Structure cabling components		
		对线组In pairs	三线组Three–group	四线组Four–group
全部型号 All types	0.5 ~ 2.5	1 ~ 50	1 ~ 24	1 ~ 10

六. 主要技术参数 Technoloical parameters

序号 NO.	项 目 Project	单 位 Unit	指 标 Index			试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standard ot GB/T3956–2008(IEC60228:2004)				GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 50HZ AC spark test of Insulated wire core	kV	4			GB/T3048.9–2007
3	工频1min电压试验 Frequency voltage test 1min	kV	1			GB/T3048.8–2007
4	屏蔽抑制系数 Shielding suppression factor	分屏蔽/总屏蔽：⩽0.05 Shielding/shied ⩽0.05				TICW6–2009附录B TICW6–2009AppendixB
		分屏蔽/总屏蔽：⩽0.01 Shielding/shied ⩽0.01				
5	线对地最大电容不平衡值（频率1KH，长度250m） Max capacity imbalance of Line–to–ground(Frequency:1KHZ, Length:250m)	pF	⩽500			GB5441.3–1985
6	最大工作电容： A总屏蔽(除1成缆元件与2成缆元件外) B有总屏蔽的成缆1成缆元件和2成缆元件及带单独屏蔽对 Max working capacitor: A Shield(In addition to external 1,2 Cabling Components) B A total shield 1 Cabling components、2 Cabling components and individual shield	pF/m	0.5 ~ 1.0 mm^2	1.5 mm^2	2.5 mm^2	GB5441.2–1985
			75 115	85 125	90 130	
7	工作电容和电感电阻比 L/Ω（1KHz） Working capacitor and inductance/resistance L/Ω（1KHz）	μH/Ω	0.5 ~ 1.0 mm^2	1.5 mm^2	2.5 mm^2	EN50289–1–12:2005
			25	40	65	

⊙氟塑料绝缘耐高温计算机仪表电缆
PTFE insulated high temperature computer cable

一. 适用范围 Application

本产品用于额定电压300/500V及以下有耐高温、低温、耐酸碱腐蚀要求的电子计算机、监控网络、自动化控制系统的信号传输及检测仪器、仪表连接。

Applicable to the industries (300/500V), with may have special requirements of heat-resistant corrosion-resistant oilproof waterproof and resistant to acid and alkaline. It is mainly used in the computer、Monitoring Network、Signal transmission of automation control systems and Instrumentation、instrument connections.

二. 执行标准 Implementation of standards

TICW6-2009
GB/T19666-2005（等同IEC60331、60332）
TICW6-2009
GB/T19666-2005(Equally IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：200℃。
2.安装敷设时环境温度不低于-60℃。
3.安装敷设时最小弯曲半径：固定5×电缆外径，移动10×电缆外径。

1.Max working temperature of conductor: 200℃.
2.Ambient temperature of installation laying: ⩾60℃
3.Low bending radius of installation laying: Fixed 5 times the outer diameter of cable
Mobile 10 times the outer diameter of cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
DJFF(R)P	氟塑料绝缘编织总屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated braided shield PTFE sheathed (soft) computer cable
DJFPF(R)	氟塑料绝缘编织分屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated braided shielding PTFE sheathed (soft) computer cable
DJFPF(R)P	氟塑料绝缘编织分屏蔽总屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated braided shielding and shield PTFE sheathed (soft) computer cable
DJFF(R)P_2	氟塑料绝缘铜塑复合带总屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated copper plastic tape shield PTFE sheathed (soft) computer cable
DJFP_2F(R)	氟塑料绝缘铜塑复合带分屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated copper plastic tape shielding PTFE sheathed (soft) computer cable
DJFP_2F(R)P_2	氟塑料绝缘铜塑复合带分屏蔽总屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated copper plastic tape shielding and shield PTFE sheathed (soft) computer cable
DJFF(R)P_3	氟塑料绝缘铝塑复合带总屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated AL-polyester shield PTFE sheathed (soft) computer cable
DJFP_3F(R)	氟塑料绝缘铝塑复合带分屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated AL-polyester shielding PTFE sheathed (soft) computer cable
DJFP_3F(R)P_3	氟塑料绝缘铝塑复合带分屏蔽总屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated AL-polyester shielding and shield PTFE sheathed (soft) computer cable
DJFF(R)P_5	氟塑料绝缘铝塑复合带编织总屏蔽氟塑料护套计算机仪表(软)电缆 PTFE insulated AL-polyester and braided shield PTFE sheathed (soft) computer cable

聚氯乙烯护套在型号中加V，阻燃型在型号前加ZA（B、C、D），阻燃耐火型在型号前加ZA（B、C、D）N，钢带铠装型在型号后加22，钢丝铠装型在型号后加32。
V is added to the PVC sheathed cable, ZA(B.C.D) is added to the flame-resistant cable, ZA(B.C.D)N is added to the fire-safe cable, 22 is added to the steel tape armored cable. 32 is added to steel wire armored cable

五、规格范围 Specification range

型号 Type	标称截面（mm^2） Nominal cross-sectional area	成缆元件结构 Structure cabling components		
		对线组In pairs	三线组Three-group	四线组Four-group
全部型号 All types	0.5～2.5	1～24	1～12	1～7

六、主要技术参数 Technoloical parameters

序号 NO.	项 目 Project	单位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the standard ot GB/T3956-2008(IEC60228:2004)		GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 50HZ AC spark test of Insulated wire core	kV	4	GB/T3048.9-2007
3	工频1min电压试验 Frequency voltage test 1min	kV	1	GB/T3048.8-2007
4	屏蔽抑制系数 Shielding suppression factor	分屏蔽/总屏蔽：≤0.05 Shielding/shied ≤0.05 分屏蔽/总屏蔽：≤0.01 Shielding/shied ≤0.01		TICW6-2009附录B TICW6-2009AppendixB
5	线对地最大电容不平衡值（频率1KH，长度250m） Max capacity imbalance of Line-to-ground(Frequency:1KHZ, Length:250m)	pF	≤500	GB5441.3-1985
6	最大工作电容： A总屏蔽(除1成缆元件与2成缆元件外) B有总屏蔽的成缆1成缆元件和2成缆元件及带单独屏蔽对 Max working capacitor: A Shield(In addition to external 1,2 Cabling Components) B A total shield 1 Cabling components、2 Cabling components and individual shield	pF/m	0.5～1.0 mm^2 / 1.5 mm^2 / 2.5 mm^2 250 / 250 / 250 280 / 280 / 280	GB5441.2-1985
7	工作电容和电感电阻比 L/Ω（1KHz） Working capacitor and inductance/resistance L/Ω（1KHz）	μH/Ω	0.5～1.0 mm^2 / 1.5 mm^2 / 2.5 mm^2 25 / 40 / 65	EN50289-1-12:2005

⊙硅橡胶绝缘耐热计算机仪表电缆
Silicon rubber insulated heat-resistant computer cable

一. 适用范围 Application

本产品用于额定电压300/500V及以下有耐热、耐低温、耐油、耐酸碱腐蚀要求的电子计算机、监控网络、自动化控制系统的信号传输及检测仪器、仪表连接。

Applicable to the industries (300/500V), with may have special requirements of heat-resistant corrosion-resistant oilproof waterproof and resistant to acid and alkaline. It is mainly used in the computer、Monitoring Network、Signal transmission of automation control systems and Instrumentation、instrument connections.

二. 执行标准 Implementation of standards

TICW6-2009
GB/T19666-2005（等同IEC60331、60332）
TICW6-2009
GB/T19666-2005(Equally IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：180℃。
2.安装敷设时环境温度不低于-60℃。
3.安装敷设时最小弯曲半径：固定5×电缆外径，移动10×电缆外径。

1.Max working temperature of conductor: 180℃.
2.Ambient temperature of installation laying: ≥60℃
3.Low bending radius of installation laying: Fixed 5 times the outer diameter of cable
Mobile 10 times the outer diameter of cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
DJGG(R)P	硅橡胶绝缘编织总屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated braided shield silicon rubber sheathed (soft) computer cable
DJGPG(R)	硅橡胶绝缘编织分屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated braided shielding silicon rubber sheathed (soft) computer cable
DJGPG(R)P	硅橡胶绝缘编织分屏蔽总屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated braided shielding and shield silicon rubber sheathed (soft) computer cable
DJGG(R)P_2	硅橡胶绝缘铜塑复合带总屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated copper plastic tape shield silicon rubber sheathed (soft) computer cable
DJGP_2G(R)	硅橡胶绝缘铜塑复合带分屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated copper plastic tape shielding silicon rubber sheathed (soft) computer cable
DJGP_2G(R)P_2	硅橡胶绝缘铜塑复合带分屏蔽总屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated copper plastic tape shielding and shield silicon rubber sheathed (soft) computer cable
DJGG(R)P_3	硅橡胶绝缘铝塑复合带总屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated AL-polyester shield silicon rubber sheathed (soft) computer cable
DJGP_3G(R)	硅橡胶绝缘铝塑复合带分屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated AL-polyester shielding silicon rubber sheathed (soft) computer cable
DJGP_3G(R)P_3	硅橡胶绝缘铝塑复合带分屏蔽总屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated AL-polyester shielding and shield silicon rubber sheathed (soft) computer cable
DJGG(R)P_5	硅橡胶绝缘铝塑复合带编织总屏蔽硅橡胶护套计算机仪表(软)电缆 Silicon rubber insulated AL-polyester and braided shield silicon rubber sheathed (soft) computer cable

聚氯乙烯护套在型号中加V，阻燃型在型号前加ZA（B、C、D），耐火型在型号前加ZA（B、C、D）N，钢带铠装型在型号后加22。
V is added to the PVC sheathed cable, ZA(B.C.D) is added to the flame-resistant cable, ZA(B.C.D)N is added to the fire-safe cable, 22 is added to the steel tape armored cable.

五. 规格范围 Specification range

型号 Type	标称截面（mm^2） Nominal cross-sectional area	成缆元件结构 Structure cabling components		
		对线组In pairs	三线组Three-group	四线组Four-group
全部型号 All types	0.5～2.5	1～24	1～12	1～7

六. 主要技术参数 Technoloical parameters

序号 NO.	项 目 Project	单 位 Unit	指 标 Index			试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the standard ot GB/T3956-2008(IEC60228:2004)				GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 50HZ AC spark test of Insulated wire core	kV	4			GB/T3048.9-2007
3	工频1min电压试验 Frequency voltage test 1min	kV	1			GB/T3048.8-2007
4	屏蔽抑制系数 Shielding suppression factor	分屏蔽/总屏蔽：≤0.05 Shielding/shied ≤0.05				TICW6-2009附录B TICW6-2009AppendixB
		分屏蔽/总屏蔽：≤0.01 Shielding/shied ≤0.01				
5	线对地最大电容不平衡值（频率1KH，长度250m） Max capacity imbalance of Line-to-ground(Frequency:1KHZ, Length:250m)	pF	≤500			GB5441.3-1985
6	最大工作电容： A总屏蔽(除1成缆元件与2成缆元件外) B有总屏蔽的成缆1成缆元件和2成缆元件及带单独屏蔽对 Max working capacitor: A Shield(In addition to external 1,2 Cabling Components) B A total shield 1 Cabling components、2 Cabling components and individual shield	pF/m	0.5～1.0 mm^2	1.5 mm^2	2.5 mm^2	GB5441.2-1985
			120 140	120 140	120 140	
7	工作电容和电感电阻比 L/Ω（1KHz） Working capacitor and inductance/resistance L/Ω（1KHz）	μH/Ω	0.5～1.0 mm^2	1.5 mm^2	2.5 mm^2	EN50289-1-12:2005
			25	40	65	

⊙本质安全型计算机仪表电缆
Intrinsically safe computer cable

一. 适用范围 Application

本产品用于额定电压300/500V及以下有爆炸性恶劣环境计算机系统、集散系统、自动化系统、仪器仪表连接。具有分布参数小、低电容、低电感、抗电磁场射频干扰、抗近场耦合等特点。

Applicable to the computer system、DCS、automation control systems and Instrumentation、instrument connections，with the rated voltage 300/500V (or lower).It has small distribution parameter, low circuit, low inductance, against the interference of the electromagnetic field and the near-field coupling capacitor.

二. 执行标准 Implementation of standards

TICW6-2009

GB/T3836-2010(等同IEC60079)

GB/T19666-2005（等同IEC60331、60332）

TICW6-2009

GB/T3836-2010(equal toIEC60079)

GB/T19666-2005(Equally IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：聚乙烯绝缘70℃，交联聚乙烯绝缘、聚烯烃绝缘90℃,硅橡胶绝缘180℃，聚全氟乙丙稀(FEP)绝缘200℃.

2.安装敷设时环境温度：聚氯乙烯、聚烯烃护套不低于0℃,硅橡胶、聚全氟乙丙稀(FEP)护套不低于-25℃。

3.安装敷设时最小弯曲半径：固定5 X 电缆外径，移动10X电缆外径。

1.Max working temperature of conductor:PE insulated:70℃,XLPE、polyolefin insulated:90℃.
Silicon rubber insulated:90℃,PTFE insulated:200℃

2.Ambient temperature of installation laying: PVC、polyolefin sheathed:≥0℃
Silicon rubber、PTFE sheathed: ≥-25℃

3.Low bending radius of installation laying: Fixed 5 times the outer diameter of cable
Mobile 10 times the outer diameter of cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
IA-DJYPV(R)P	聚乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套本质安全型计算机仪表(软)电缆 PE insulated braid shielding and shield PVC sheathed intrinsically safe (soft) computer cable
IA-DJYP$_2$V(R)P$_2$	聚乙烯绝缘铜塑复合带分屏蔽总屏蔽聚氯乙烯护套本质安全型计算机仪表(软)电缆 PE insulated cu-polyester shielding and shield PVC sheathed intrinsically safe (soft) computer cable
IA-DJYP$_3$V(R)P$_3$	聚乙烯绝缘铝塑复合带分屏蔽总屏蔽聚氯乙烯护套本质安全型计算机仪表(软)电缆 PE insulated AL-polyester shielding and shield PVC sheathed intrinsically safe (soft) computer cable
IA-DJYJPV(R)P	交联聚乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套本质安全型计算机仪表(软)电缆 XLPE insulated braid shielding and shied PVC sheathed intrinsically safe (soft) computer cable
IA-DJYJP$_2$V(R)P$_2$	交联聚乙烯绝缘铜塑复合带分屏蔽总屏蔽聚氯乙烯护套本质安全型计算机仪表(软)电缆 XLPE insulated cu-polyester shielding and shield PVC sheathed intrinsically safe (soft) computer cable
IA-DJYJP$_3$V(R)P$_3$	交联聚乙烯绝缘铝塑复合带分屏蔽总屏蔽聚氯乙烯护套本质安全型计算机仪表(软)电缆 XLPE insulated AL-polyester shielding and shield PVC sheathed intrinsically safe (soft) computer cable
IA-DJEPE(R)P	聚烯烃绝缘编织分屏蔽总屏蔽聚烯烃护套无卤低烟本质安全型计算机仪表(软)电缆 Polyolefin insulated braid shielding and shield polyolefin sheathed LSZH intrinsically safe (soft) computer cable
IA-DJEP$_2$E(R)P$_2$	聚烯烃绝缘铜塑复合带分屏蔽总屏蔽聚烯烃护套无卤低烟本质安全型计算机仪表(软)电缆 Polyolefin insulated cu-polyester shielding and shield polyolefin sheathed LSZH intrinsically safe (soft) computer cable
IA-DJEP$_3$E(R)P$_3$	聚烯烃绝缘铝塑复合带分屏蔽总屏蔽聚烯烃护套无卤低烟本质安全型计算机仪表(软)电缆 Polyolefin insulated AL-polyester shielding and shield polyolefin sheathed LSZH intrinsically safe (soft) computer cable
IA-DJGPG(R)P	硅橡胶绝缘编织分屏蔽总屏蔽硅橡胶护套本质安全型计算机仪表(软)电缆 Silicon rubber insulated braid shielding and shield silicon rubber sheathed intrinsically safe (soft) computer cable
IA-DJGP$_2$G(R)P$_2$	硅橡胶绝缘铜塑复合带分屏蔽总屏蔽硅橡胶护套本质安全型计算机仪表(软)电缆 Silicon rubber insulated cu-polyester shielding and shield silicon rubber sheathed intrinsically safe (soft) computer cable
IA-DJGP$_3$G(R)P$_3$	硅橡胶绝缘铝塑复合带分屏蔽总屏蔽硅橡胶护套本质安全型计算机仪表(软)电缆 Silicon rubber insulated AL-polyester shielding and shield silicon sheathed intrinsically safe (soft) computer cable
IA-DJFPF(R)P	氟塑料绝缘编织分屏蔽总屏蔽氟塑料护套本质安全型计算机仪表(软)电缆 PTFE insulated braid shielding and shield PTFE sheathed intrinsically safe (soft) computer cable
IA-DJFP$_2$F(R)P$_2$	氟塑料绝缘铜塑复合带分屏蔽总屏蔽氟塑料护套本质安全型计算机仪表(软)电缆 PTFE insulated cu-polyester shielding and shield PTFE sheathed intrinsically safe (soft) computer cable
IA-DJFP$_3$F(R)P$_3$	氟塑料绝缘铝塑复合带分屏蔽总屏蔽氟塑料护套本质安全型计算机仪表(软)电缆 PTFE insulated AL-polyester shielding and shield PTFE sheathed intrinsically safe (soft) computer cable
阻燃型在型号前加ZA（B、C、D），阻燃耐火型在型号前加ZA（B、C、D）N，无卤低烟型在型号前加WDZA(B、C、D)，钢带铠装型在型号后加22，钢丝铠装型在型号后加32。 ZA(B.C.D) is added to the flame-resistant cable, ZA(B.C.D)N is added to the fire-safe cable, WDZA(B、C、D) is added toLSOH cable， 22 is added to the steel tape armored cable, 32 is added to steel wire armored cable.	

五、规格范围 Specification range

型号 Type	标称截面（mm²） Nominal cross-sectional area	成缆元件结构 Structure cabling components		
		对线组In pairs	三线组Three-group	四线组Four-group
全部型号 All types	0.5～2.5	1～24	1～12	1～7

六、主要技术参数 Technoloical parameters

序号 NO.	项 目 Project	单位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the standard ot GB/T3956-2008(IEC60228:2004)		GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 50HZ AC spark test of Insulated wire core	kV	4	GB/T3048.9-2007
3	工频1min电压试验 Frequency voltage test 1min	kV	1	GB/T3048.8-2007
4	屏蔽抑制系数 Shielding suppression factor	分屏蔽/总屏蔽：≤0.05 Shielding/shied ≤0.05		TICW6-2009附录B TICW6-2009AppendixB
		分屏蔽/总屏蔽：≤0.01 Shielding/shied ≤0.01		
5	线对地最大电容不平衡值（频率1KH，长度250m） Max capacity imbalance of Line-to-ground(Frequency:1KHZ, Length:250m)	pF	≤500	GB5441.3-1985

			PE / XLPE			G			F			
			0.5 ~ 1.0 mm²	1.5 mm²	2.5 mm²	0.5 ~ 1.0 mm²	1.5 mm²	2.5 mm²	0.5 ~ 1.0 mm²	1.5 mm²	2.5 mm²	
6	最大工作电容： A总屏蔽(除1成缆元件与2成缆元件外) B有总屏蔽的成缆1成缆元件和2成缆元件及带单独屏蔽对 Max working capacitor: A Shield(In addition to external 1,2 Cabling Components) B A total shield 1 Cabling components、2 Cabling components and individual shield	pF/m	75 115	85 125	90 130	120 140	120 140	120 140	250 280	250 280	250 280	GB5441.2–1985
7	工作电容和电感电阻比 L/Ω（1KHz） Working capacitor and inductance/resistance L/Ω（1KHz）	μH/Ω	0.5 ~ 1.0 mm²	1.5 mm²	2.5 mm²	0.5 ~ 1.0 mm²	1.5 mm²	2.5 mm²	0.5 ~ 1.0 mm²	1.5 mm²	2.5 mm²	GB5441.2–1985
			25	40	65	25	40	65	25	40	65	
8	分布电感 Distributed inductance	mH/km	≤0.8									GB5441.2–1985
9	抗外磁场干扰（400A/m） Against external magnetic interference (400A/m)	mV	≤5									GB17626–2006
10	抗静电感应（20KV） Anti–static induction(20KV)	mV	≤200									GB6833.3–1987
11	抗辐射干扰 （120dB时透入） Radiation interference	dB	≤90									GB6833.10–1997
12	抗近场耦合（200MHz,500V） Anti–coupled approach（200MHz,500V）		≤0.02									IEC62153–4–7–2006

⊙柔性机床专用电缆
Flexible machine tool–use cable

一. 适用范围 Appolcation

本产品用于额定电压450/750V及以下有柔性要求机床、机器设备、生产线、组装线、控制系统、电气连接专用电缆，编织屏蔽层可保证信号脉冲无干扰，具有耐低温、耐油等特点。

Appolcable to the connction for machine tool 、machinery and equipment 、produce line、assembly line、control system and the electric with the rated voltage 450/750V (or lower),the braid shield can resist the pulse interference, and it has oilproof feature and ect.

二. 执行标准 Implementation of standards

Q/KRD–05–2010
GB/T19666–2005（等同IEC60331、60332）
Q/KRD–05–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.适用温度：固定–30～70℃，移动–5～70℃。
2.最小弯曲半径：固定5X电缆外径，移动10X电缆外径。
编织屏蔽，固定5X电缆外径，移动12X电缆外径。
1.The max working temperature of conductor (of a cable) is –30～70℃(fix)and –5～70℃(move)
2.The least allowed bending radius: 5 times the outer diameter of the cable of fix laying; 10 times the outer diameter of the cable of move ； braid shield calble is 5 times the outer diameter of the cable in fix laying; 12 times the outer diameter of the cable of move.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
F–MACHINERY	柔性数字线芯机床专用电缆 Flexible figure core machine tool–use cable
F–MACHINERY–JB	柔性彩色线芯机床专用电缆 Flexible colourful core machine tool–use cable
F–MACHINRYP	柔性数字线芯机床专用屏蔽电缆 Flexible figure core shielded machine tool–use cable
F–MACHINERYP–JB	柔性彩色线芯机床专用屏蔽电缆 Flexible colourful core shielded machine tool–use cable

五. 规格范围 Specification range

型号 Type	标称截面（mm²） Nominal cross section area（mm²）															
	0.5	0.75	1.0	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150
	芯数 Core No.															
F–MACHINERY F–MACHINRYP	2–61				2–19		2–7					2–5			3–4	
F–MACHINERY–JB F–MACHINERYP–JB	2–12				2–7		2–5					2–4			3–4	

六. 主要技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standard of GB/T3956–2008(IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3	GB/T3048.8–2007

⊙高柔性拖链控制电缆
Flexible towline control cable

一. 适用范围 Appolcation

本产品用于额定电压450/750V及以下有高柔性要求，在中等机械应力自由运动等生产线、装配线、控制线、控制系统和工业设备拖链系统中。高密度编织层可保护信号脉冲无干扰传输，具有耐低温、耐油、抗拉、耐撕裂等特点。

Appolcable to the connction for machine tool 、machinery and equipment 、produce line、assembly line、control system and the electric which request the hight flexible with the rated voltage 450/750V (or lower),the high density braid shield can resist the pulse interference,and it has oilproof feature and ect.

二. 执行标准 Implementation of standards

Q/KRD–06–2010
GB/T19666–2005（等同IEC60331、60332）
Q/KRD–06–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.适用温度：固定–30～70℃，移动–5～70℃。
2.最小弯曲半径：固定5X电缆外径，移动7.5X电缆外径，
编织屏蔽固定5X电缆外径，编织屏蔽移动10X电缆外径。
1.The max working temperature of conductor (of a cable) is –30～70℃(fix)and –5～70℃(move)
2.The least allowed bending radius: 5 times the outer diameter of the cable of fix laying; 10 times the outer diameter of the cable of move ； braid shield calble is 5 times the outer diameter of the cable in fix laying; 12 times the outer diameter of the cable of move

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
HF–TKR	高柔性拖链控制电缆 High–flexible towline control cable
HF–TKRP	高柔性拖链屏蔽控制电缆 High–flexible shielded towline control cable
HF–TKR–PUR	高柔性拖链聚氨酯护套控制电缆 High–flexible polyurethane sheathed towline control cable
HF–TKRP–PUR	高柔性拖链聚氨酯护套屏蔽控制电缆 High–flexible polyurethane sheathed shielded towline control cable

五. 规格范围 Specification range

型号 Type	标称截面（mm^2） Nominal cross section area（mm^2）							
	0.5	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core No.							
HF–TKR HF–TKR–PUR	2–61					2–12		2–7
HF–TKRP HF–TKRP–PUR	2–48			2–37		2–7		2–5

六. 主要技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standard of GB/T3956–2008(IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8–2007

⊙高柔性拖链数据传输电缆
Flexible towline date transmission cable

一. 适用范围 Appolcation

本产品用于额定电压300/500V及以下机床、机械、自动化、加工设备、驱动设备等拖链系统中频繁移动，要求高柔性、抗电磁干扰数据传输等场合。

Applicable to connction for machine tool、machinery、automation、processing equipment、drives and anyother towline system which need high flexible with the rated voltage 300/500V (or lower).

二. 执行标准 Implementation of standards

Q/KRD–07–2010
GB/T19666–2005（等同IEC60331、60332）
Q/KRD–07–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.适用温度：固定–30～70℃，移动–5～70℃。
2.最小弯曲半径：固定5X电缆外径，移动10X电缆外径。
1.The max working temperature of conductor (of a cable) is –30～70℃(fix)and –5～70℃(move)
2.The least allowed bending radius: 5 times the outer diameter of the cable of fix laying; 10 times the outer diameter of the cable of move .

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
HF–TDATAR	高柔性拖链数据传输电缆 High–flexible towline date transmission cable
HF–TDATARP	高柔性拖链数据传输屏蔽电缆 High–flexible shielded towline date transmission cable
HF–TDATAR–PUR	高柔性拖链聚氨酯护套数据传输电缆 High–flexible polyurethane sheathed towline date transmission cable
HF–TDATARP–PUR	高柔性拖链聚氨酯护套数据传输屏蔽电缆 High–flexible polyurethane sheathed towline date transmission cable

五. 规格范围 Specification range

型号 Type	芯数×标称截面（mm^2） Core * Nominal cross section area（mm^2）
全部型号 All types	2×0.14～25×0.34

六. 主要技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standard of GB/T3956–2008(IEC60228:2004)		GB/T3048.4–2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	3	GB/T3048.9–2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	2	GB/T3048.8–2007
4	20℃绝缘电阻 Insulation resistance(20℃)	MΩ·km	20	GB/T3048.5–2007

⊙高柔性拖链传感器屏蔽电缆
Flexible towline sensor shield cable

一. 适用范围 Appolcation

本产品用于额定电压300/500V及以下转速器、刹车、机械工程、工业机器人技术、操纵设备拖链系统中数据和信号传输。

Appolacable to transimssion date and signal for cachometer 、brake、mechanical engineering、industrial robot technology、control equipment towline system with the rated voltage 300/500V (or lower).

二. 执行标准 Implementation of standards

Q/KRD–08–2010
GB/T19666–2005（等同IEC60331、60332）

Q/KRD–08–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.适用温度：固定–50～90℃，移动–40～80℃。
2.最小弯曲半径： 10X电缆外径。

1.The max working temperature of conductor (of a cable) is –50～90℃(fix)and –40～80℃(move).
2.The least allowed bending radius: 10 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
HF–T.SENSORP	高柔性拖链传感器屏蔽电缆 High–flexible towline sensor shield cable

五. 规格范围 Specification range

型号 Type	芯数×标称截面（mm^2） Core * Nominal cross section area（mm^2）
HF–T.SENSORP	4×2×0.25～2×1.0

六. 主要技术参数 Technolgical parameters

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standard of GB/T3956–2008(IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	2	GB/T3048.8–2007
3	20℃绝缘电阻 Insulation resistance(20℃)	MΩ・km	20	GB/T3048.5–2007
4	耦合电阻 Coupling resistance	Ω/km	250	DIN41640–54–1988

⊙高柔性拖链伺服电机屏蔽电缆
Flexible towline serve motor shield cable

一. 适用范围 Appolcation

本产品用于额定电压1kV及以下机器、自动化、驱动控制、生产工程拖链系统中高精密伺服电机供电，适合EMC防电磁干扰场合。

Applicable to the power supply for high precision serve motor of the mechine、 automation、drives control system and the produce towline system with the rated voltage 1KV(or lower).It is suilt for EMC.

二. 执行标准 Implementation of standards

Q/KRD–09–2010
GB/T19666–2005（等同IEC60331、60332）

Q/KRD–09–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.适用温度：固定–50～80℃，移动–40～80℃。
2.最小弯曲半径：7.5X电缆外径。

1.The using temperature of conductor (of a cable) is –50～80℃(fix)and –40～80℃(move).
2.The least allowed bending radius: 7.5 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
HF– T・SERVOMOTORP	高柔性拖链伺服电机屏蔽电缆 High flexible towline serve motor shield cable

阻燃型在型号前加ZA（B、C、D）。
ZA（B.C.D）is added to flame–resistant cable.

五. 规格范围 Specification range

型号 Type	芯数×标称截面（mm^2） Core * Nominal cross section area（mm^2）
HF– T・SERVOMOTORP	4×1.5～4×50 4×1.0+2×（2×0.75）～4×50+2×（2×1.5）

六. 主要技术参数 Technolgical parameters

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准(IEC60228:2004) Complies with the standard of GB/T3956–2008(IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	2	GB/T3048.8–2007
3	20℃绝缘电阻 Insulation resistance(20℃)	MΩ・km	20	GB/T3048.5–2007
4	耦合电阻 Coupling resistance	Ω/km	250	DIN41640–54–1988

⊙高柔性机器人专用屏蔽电缆
Flexible robot–use shield cable

一. 适用范围 Appolcation

本产品用于额定电压300/500V及以下有扭曲和弯曲应力要求的机器人和连接操作时控制和信号传输。

Applicable to control and the signal transimssin for the robot and the connections which need distortion and bending with the rated voltage 300/500V (or lower).

二. 执行标准 Implementation of standards

Q/KRD–10–2010
GB/T19666–2005（等同IEC60331、60332）
Q/KRD–10–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.适用温度：固定–40～80℃，移动–30～80℃。
2.最小弯曲半径：7.5X电缆外径。
3.扭曲应力下可承载+360°/米
1.The using temperature of conductor (of a cable) is –50～90℃(fix)and –40～80℃(move).
2.The least allowed bending radius: 7.5 times the outer diameter of the cable.
3.The distortion stress is +360°/m.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
HF–ROBOTERP–PUR	高柔性机器人专用屏蔽电缆 High–flexible robot–use shield cable

阻燃型在型号前加ZA（B、C、D），无卤低烟型在型号前加WDZA（B、C、D）。
ZA（B.C.D）is added to flame–resistant cable, WDZA (B.C.D) is added for Low–smoke halogenfree polyolefin.

五. 规格范围 Specification range

型号 Type	芯数×标称截面（mm^2） Core * Nominal cross section area（mm^2）
HF–ROBOTERP–PUR	4×0.25～25×1.5

六. 主要技术参数 Technolgical parameters

序号 NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008标准 (IEC60228:2004) Complies with the standard of GB/T3956–2008(IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	2	GB/T3048.8–2007
3	耦合电容 Coupling capacitance 线芯/线芯 core/core 线芯/屏蔽 core/shield	nF/km	100 120	GB/T5441.3–1985
4	感抗 Inductive	mH/km	0.69	EN50289–1–12:2005

⊙聚乙烯绝缘铁路信号电缆
PE insulated railway signal cable

一. 适用范围 Appolcation

本产品用于额定电压500V或直流电压1000V及以下传输铁路信号、音频信号或自动化装置固定敷设。

It is used as the link of railway signal,audio signal transmission and the automatic device with the AC rated voltage 500V or DC rated voltage 1000V (or lower).

二. 执行标准 Implementation of standards

TB/T2476.2–1993
GB/T19666–2005（等同IEC60331、60332）

TB/T2476.2–1993
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度70℃。
2.使用环境温度–40℃～60℃。
3.安装敷设环境温度：聚氯乙烯护套不低于0℃，聚乙烯护套不低于–10℃。
4.安装敷设时最小弯曲半径：10X电缆外径，铠装15X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃.
2.Using temp : –40℃～60℃.
3.The ambient temperature for laying is not lower than 0℃(PVC sheathed); –10℃（PE sheathed）.
4.The least allowed bending radius: Non–steel tape–armored cable is 10 times the outer diameter of the calbe; steel tape–armored cable is 15 times the outer diameter of the calbe.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
PTYV	聚乙烯绝缘聚氯乙烯护套铁路信号电缆 PE insulated PVC sheathed railway signal cable
PTYY	聚乙烯绝缘聚乙烯护套铁路信号电缆 PE insulated and sheathed railway signal cable
PTY_{22}	聚乙烯绝缘钢带铠装聚氯乙烯护套铁路信号电缆 PE insulated PVC sheathed steel tape–armorred railway signal cable
PTY_{23}	聚乙烯绝缘钢带铠装聚乙烯护套铁路信号电缆 PE insulated and sheathed steel tape–armorred railway signal cable

阻燃型在型号前加ZA（B、C、D）
ZA(B.C.D)is added infront of the type in flame–resistant cable

五. 规格范围 Specification range

型 号 Type	线 径(mm) Diameter	芯 数 Core NO .
全部型号 All types	1.0	4–61

六. 主要技术参数 Technolgical parameters

序 号 NO .	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	20℃时导体直流电阻 Conductor DC resistance at 20℃	Ω/km	23.5	GB/T3048.4–2007
1.1	每根导体直流电阻 Single conductor DC resistance			
1.2	工作线对导体电阻不平衡 Cinductor resistance imbalance		0.02	
2	绝缘电阻 Insulation resistance	Ω/km	3000	GB/T3048.5–2007
3	电容 Capacitance	nF/km		GB5441.2–1985
3.1	对线组工作电容 Capacitance of pair wire		70	
3.2	星型四线组工作电容 Capacitance of star shape 4–core		50	
3.3	任一绝缘线芯对连接到地的其它绝缘线芯间电容 Capacitance between insulated wire		100	
4	电容耦合 Capacitance coupling	pF/500		GB5441.3–1985
4.1	K1 平均值 Average value		100	
	最大值 Maximum		330	
4.2	K9–12平均值 Average value		120	
	最大值 Maximum		230	
	四芯电缆K1指标为最大值 Four core cable K1 is the maximum			
5	对外来地电容不平衡 50HZ 2min wire grounding capacitance imbalance	pF/500		GB5441.3–1985
	ea1、ea2平均值 Average value		330	
	最大值 Maximum		1300	
	四芯电缆K1指标为最大值 Four core cable K1 is the maximum			
6	工频50Hz2min绝缘耐压试验 Frequency(5min) voltage test	V		GB/T3048.8–2007
	线芯间 Insulation boltage		1000	
	线芯对其余线芯接地 Wire grounding		1800	

铁路信号电缆 Railway signal cable

⊙聚乙烯绝缘综合护套铁路信号电缆
PE insulated comprhensive sheathed railway signal cable

一. 适用范围 Appolcation

本产品用于额定电压500V或直流电压1000V及以下传输铁路信号、音频信号或自动化装置，需要设置屏蔽的电气化区段固定敷设。

It is used as the link of railway signal,audio signal transmission and the automatic device with the AC rated voltage 500V or DC rated voltage 1000V (or lower),which need the shield section.

二. 执行标准 Implementation of standards

TB/T2476.3–1993
GB/T19666–2005(等同IEC60331、60332)
TB/T2476.3–1993
GB/T19666–2005(Equally IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度70℃。
2.使用环境温度–40℃～60℃。
3.安装敷设环境温度：聚氯乙烯护套不低于0℃，聚乙烯护套不低于–10℃。
4.安装敷设时最小弯曲半径：10X电缆外径，铠装15X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃.
2.Using temp : –40℃～60℃.
3.The ambient temperature for laying is not lower than 0℃(PVC sheathed); –10℃（PE sheathed）.
4.The ambient temperature for laying is not lower than 0℃(PVC sheathed); –10℃（PE sheathed）.

四. 型号、名称 Type and Denomination

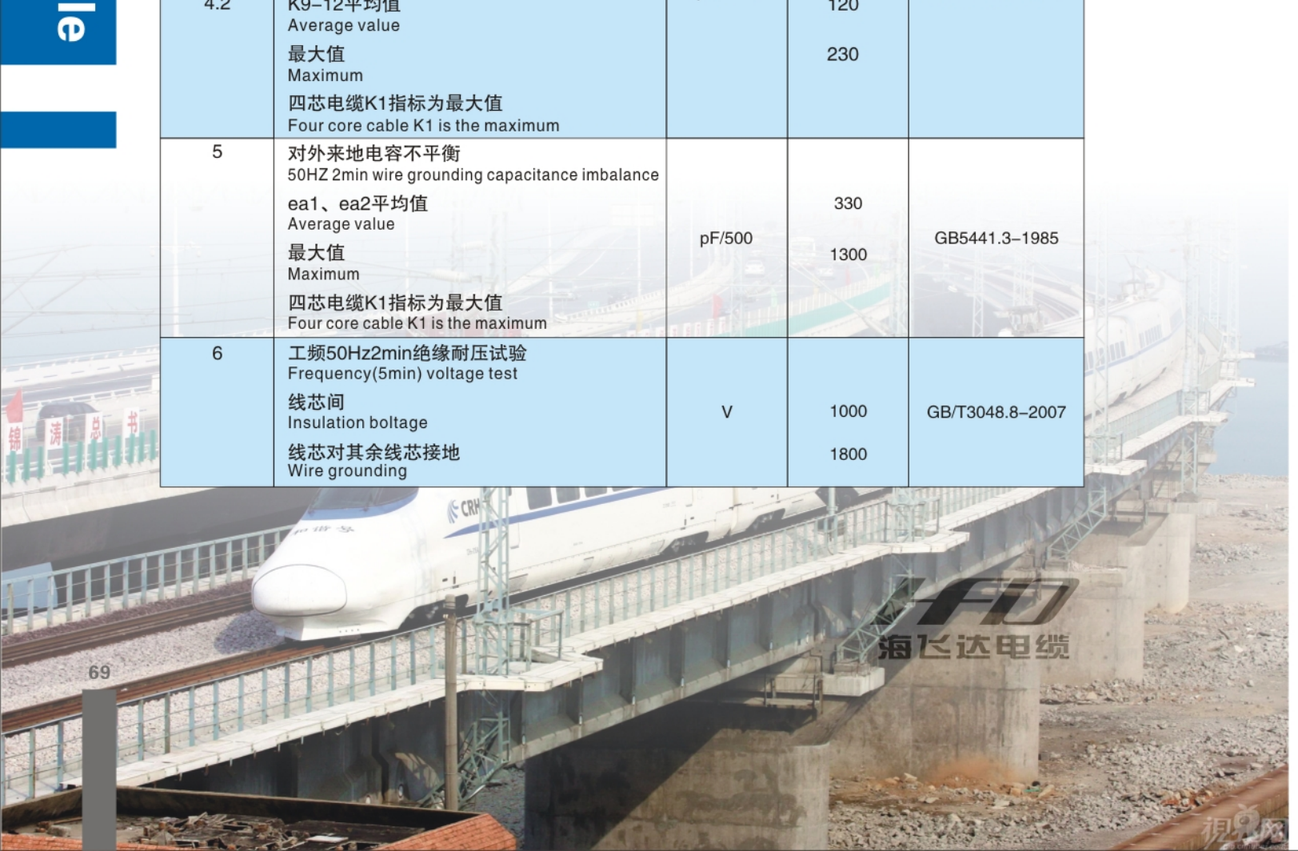
型号 Type	产品名称 Denomination
$PTYA_{22}$	聚乙烯绝缘综合护套钢带铠装聚氯乙烯护套铁路信号电缆 PE insulated comprehensive sheathed steel tape–armored PVC sheathed railway signal cable
$PTYA_{23}$	聚乙烯绝缘综合护套钢带铠装聚乙烯护套铁路信号电缆 PE insulated comprehensive sheathed steel tape–armored PE sheathed railway signal cable
阻燃型在型号前加ZA（B、C、D），耐寒型在型号中加H。 ZA(B.C.D)is added to the flame–resistant cable,H is added to the cold–srsistant cable.	

五. 规格范围 Specification range

型号 Type	线径mm Diameter	芯数 Core NO .
全部型号 All types	1.0	4–61

六. 主要技术参数 Technolgical parameters

序 号 NO .	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	20℃时导体直流电阻 Conductor DC resistance at 20℃	Ω/km	23.5	GB/T3048.4–2007
1.1	每根导体直流电阻 Single conductor DC resistance			
1.2	工作线对导体电阻不平衡 Cinductor resistance imbalance		0.02	
2	绝缘电阻 Insulation resistance	Ω/km	3000	GB/T3048.5–2007
3	电容 Capacitance	nF/km		GB5441.2–1985
3.1	对线组工作电容 Capacitance of pair wire		70	
3.2	星型四线组工作电容 Capacitance of star shape 4–core		50	
3.3	任一绝缘线芯对连接到地的其它绝缘线芯间电容 Capacitance between insulated wire		100	
4	电容耦合 Capacitance coupling	pF/500		GB5441.3–1985
4.1	K1 平均值 Average value		100	
	最大值 Maximum		330	
4.2	K9–12平均值 Average value		120	
	最大值 Maximum		230	
	四芯电缆K1指标为最大值 Four core cable K1 is the maximum			
5	对外来地电容不平衡 50HZ 2min wire grounding capacitance imbalance	pF/500		GB5441.3–1985
	ea1、ea2平均值 Average value		330	
	最大值 Maximum		1300	
	四芯电缆K1指标为最大值 Four core cable K1 is the maximum			
6	工频50Hz2min绝缘耐压试验 Frequency(5min) voltage test	V		GB/T3048.8–2007
	线芯间 Insulation boltage		1000	
	线芯对其余线芯接地 Wire grounding		1800	



⊙轨道交通车辆用电缆
Rail transit vehicles used cable

一. 适用范围 Appolcation

本产品用于额定电压500V、750V、1500V、3000V及以下有阻燃无卤低烟要求的各种机车车辆及城市轨道车辆的配电、控制、信号系统的电器装置用连接。

Applicable to electrical devices connection of power distribution, control and signal system for all kinds of locomotive vehicles and urban rail vehicles with rated voltage 500 v, 750 v, 1500 v, 3000 v (or lower) which has requirements of flame retardant, halogen free ,low smoke.

二. 执行标准 Implementation of standards

GB/T12528–2008
TB/T1484–2010
GB/T19666–2005（等同IEC60331、60332）

GB/T12528–2008
TB/T1484–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度：125℃。
2.最低使用环境温度–40℃。
3.最小弯曲半径：20mm及以下3*电缆外径，20mm及以上6*电缆外径

1.The highest working temperature of conductor (of a cable) is 125℃
2.The lowest ambient temperature for using is –40℃.
3.The minimum allowed bending radius: 20mm or below 3*cable outer diameter, 20mm or above is 6* cable outer diameter

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
WDZ–DCYJ–125	耐热125℃低烟无卤阻燃辐照交联聚烯烃绝缘轨道交通车辆电缆 Heat resistant 125℃ low smoke halogen free flame retardant irradiation crosslinking polyolefin insulated rail transit vehicles cable
WDZ–DCYJ/2–125	耐热125℃低烟无卤阻燃辐照交联聚烯烃绝缘耐矿物油轨道交通车辆电缆 Heat resistant 125℃ low smoke halogen free flame retardant irradiation crosslinking polyolefin insulated mineral oil resistant rail transit vehicles cable
WDZ–DCYJ/3–125	耐热125℃低烟无卤阻燃辐照交联聚烯烃绝缘耐矿物和燃料油轨道交通车辆电缆 Heat resistant 125℃ low smoke halogen free flame retardant irradiation crosslinking polyolefin insulated mineral oil and fuel oil resistant rail transit vehicles cable
WDZ–DCYJB–125	耐热125℃低烟无卤阻燃薄壁辐照交联聚烯烃绝缘轨道交通车辆电缆 Heat resistant 125℃ low smoke halogen free flame retardant thin wall irradiation crosslinking polyolefin insulated rail transit vehicles cable
WDZ–DCYJB/2–125	耐热125℃低烟无卤阻燃薄壁辐照交联聚烯烃绝缘耐矿物油轨道交通车辆电缆 Heat resistant 125℃ low smoke halogen free flame retardant thin wall irradiation crosslinking polyolefin insulated mineral oil resistant rail transit vehicles cable
WDZ–DCYJB/3–125	耐热125℃低烟无卤阻燃薄壁辐照交联聚烯烃绝缘耐矿物和燃料油轨道交通车辆电缆 Heat resistant 125℃ low smoke halogen free flame retardant thin wall irradiation crosslinking polyolefin insulated mineral oil and fuel oil resistant rail transit vehicles cable

五、规格范围 Specification range

型号 Type	芯数 Core NO.	标称截面（mm^2） Nominal cross section area（mm^2）
WDZ-DCYJ-125 WDZ-DCYJ/2-125 WDZ-DCYJ/3-125	1	0.75～300
WDZ-DCYJB-125 WDZ-DCYJB/2-125 WDZ-DCYJB/3-125	1	0.5～6

六、主要技术参数 Technolgical parameters

序 号NO.	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准 (IEC60228:2004) Complies with the standard of GB/T3956-2008 (IEC60228:2004)		GB/T3048.4-2007
2	工频15min电压试验 Frequency (15min) voltage test	kV	2/3.5/6/12	GB/T3048.8-2007
3	击穿试验电压 Browkdown test 浸水24h，水温度20℃+5℃ Breakdown test voltage Browkdown test 24h in the water with temperature 20 ℃ + 5 ℃	kV	4/6/16/20	GB/T30488-2007
4	表面漏、放电试验 Electrictily leakage and discharge test 浸水24h，水温20℃+5℃ 24h in the water with the temperature 20℃+5℃ 测试电压（交流） Test voltage(AC) 闪络电压（最小） Flashover voltage (least) 漏电流（最大） Electrictily discharge (mix)	 kV kV mA	 2 10 1～2.5	GB12528.附录D GB12528. Appendix D
5	耐湿试验 Wet resistant test 500 750 1500 3000	V	 750 1000 1800 3600	GB12528.11附录E GB12528.11appendix E
6	燃烧时，释放出气体试验I Low –smok test 卤类气体总量（最大） Halides gas (mix) PH值（最小） PH 导电率（最大） Conductivity	 mg/g μ_s/mm	 5 4.3 10	GB/T17650
8	单根垂直燃烧 Sigle core vertical burning (未烧部分最小）(non-burning)	mm	50	GB/T18380
9	绝缘电阻试验 Insulation resistance	Ω.cm	$5*10^{15}$	GB/T3048.5-2007

导电率对应 μ_s/mm

⊙船舶电气装置用电力电缆
Vessels electrical devices used power cable

一. 适用范围 Appolcation

本产品用于额定电压0.6/1kV、1.8/3kV及以下船舶及海上石油平台电力系统。
This product is used for rated voltage 0.6/1kV、1.8/3kV or lower vessels and offshore oil platform power system.

二. 执行标准 Implementation of standards

JB/T8140-1995
GB/T9331-2008(等同于IEC60092-353)
GB/T19666-2005(等同IEC60331、60332)

JB/T8140-1995
GB/T9331-2008(equal to IEC60092-353)
GB/T19666-2005(equal to IEC60331, 60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：聚氯乙烯绝缘70℃，辐照乙丙绝缘80℃，交联聚乙烯（聚烯烃）绝缘90℃
2. 安装敷设时环境温度不低于0℃。
3. 安装敷设时最小弯曲半径：单芯4×电缆外径，编织铠装12 ×电缆外径

1. The conductor highest working temperature: PVC insulated 70℃, irradiation EPR insulated 80℃, Crosslinked polyethylene (polyolefin) insulated 90℃
2. The ambient temperature for laying is not lower than 0℃.
3. The minimum bending radius when in installation laying is single core 4 × cable outer diameter，weaving armoured 12 ×cable outer diameter

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
CEFR/DA	辐照乙丙绝缘氯化聚乙烯护套船用电力软电缆 Irradiation EPR insulated chlorinated polyethylene sheath vessels used electric power soft cable
CEF/DA	辐照乙丙绝缘氯化聚乙烯护套船用电力电缆 Irradiation EPR insulated chlorinated polyethylene sheath vessels used power cable
CEF80/DA	辐照乙丙绝缘氯化聚乙烯内护套裸铜丝编织铠装船用电力电缆 Irradiation EPR insulated chlorinated polyethylene inner sheath bare copper wire weaving armoured vessels used power cable
CEF90/DA	辐照乙丙绝缘氯化聚乙烯内护套裸钢丝编织铠装船用电力电缆 Irradiation EPR insulated chlorinated polyethylene inner sheath bare steel wire weaving armoured vessels used power cable
CEV/DA	辐照乙丙绝缘聚氯乙烯护套船用电力电缆 Irradiation EPR insulated PVC sheath vessels used power cable
CEV80/DA	辐照乙丙绝缘聚氯乙烯内护套裸铜丝编织铠装船用电力电缆 Irradiation EPR insulated PVC inner sheath bare copper wire weaving armoured vessels used power cable
CEV90/DA	辐照乙丙绝缘聚氯乙烯内护套钢丝编织铠装船用电力电缆 Irradiation EPR insulated PVC inner sheath steel wire weaving armoured vessels used power cable

型号 Type	产品名称 Denomination
CVV/DA	聚氯乙烯绝缘聚氯乙烯护套船用电力电缆 PVC insulated PVC sheath vessels used power cable
CVV80/DA	聚氯乙烯绝缘聚氯乙烯护套裸铜丝编织铠装船用电力电缆 PVC insulated PVC sheath bare copper wire weaving armoured vessels used power cable
CVV90/DA	聚氯乙烯绝缘聚氯乙烯护套裸钢丝编织铠装船用电力电缆 PVC insulated PVC sheath bare steel wire weaving armoured vessels used power cable
WD–CYJY/DA	交联聚乙烯（聚烯烃）绝缘低烟无卤聚烯烃护套船用电力电缆 XLPE(Polyolefin) insulated LOSH sheath vessels used power cable
WD–CYJY80/DA	交联聚乙烯（聚烯烃）绝缘低烟无卤聚烯烃护套裸铜丝编织铠装船用电力电缆 XLPE(Polyolefin) insulated LOSH sheath bare copper wire weaving armoured vessels used power cable
WD–CYJY90/DA	交联聚乙烯（聚烯烃）绝缘低烟无卤聚烯烃护套裸钢丝编织铠装船用电力电缆 XLPE(Polyolefin) insulated LOSH sheath bare steel wire weaving armoured vessels used power cable

五. 规格范围 Specification range

型号 Type	芯数 Core NO .	标称截面mm² Nominal cross section area
CEFR/DA	1–37	1~2.5
CEF	1	1~300
CEF80/DA	2	1~120
CEF90/DA	3	1~185
CEV/DA	1	1~300
CEV80/DA	2	1~120
CEV90/DA	3	1~185
CVV/DA	1	1~300
CVV80/DA	2	1~120
CVV90/DA	3	1~185
WD–CYJY/DA	1	1~300
WD–CYJY80/DA	2	1~120
WD–CYJY90/DA	3	1~185

六. 主要技术参数 Technolgical parameters

1. 电性能Electrical properties

序 号 NO .	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and the conductor resistance	符合GB/T3956–2008标准（IEC60228:2004） Complies with standard GB/T3956–2008（IEC60228:2004）		GB/T3048.4–2007
2	工频5min电压试验 Power frequency 5 min voltage test	0.6/1kV	3.5	GB/T3048.8–2007
		1.8/3kV	6.5	
3	4h交流耐压试验 4h AC voltage withstand test	K	2.4	GB/T3048.8–2007

2.阻燃性能Flame retardant performance

A.单根阻燃性能Single core flame retardant performance

代号 Code	试样外径D(mm) Specimen diameter(mm)	供火时间(s) For fire time(s)	合格指标 Compliance index	试验方法 Test method
Z	D≤25	60	试样烧焦应不超过距上夹具下缘500mm–540mm的范围之外 Specimen char is far from fixture 500mm–540mm	GB/T18380.1–2001（IEC60332–1：1993） GB/T18380.2–2001（IEC60332–2：1989）
	25≤D≤50	120		
	50 < D≤75	240		
	D > 75	480		

B.耐火性能Fire resistance

代号 Code	适用范围 Using range	供火时间＋冷却时间 For fire time＋Cooling time(min)	供火温度 For fire temperature（℃）	试样电压 Test voltage (V)	合格指标 Compliance index	试验方法 Test method
Z	1kV及以下电缆 ≤1kV	90＋15	750	额定值 Rating	1.2A 熔断器不断 2A fuse is not break off 2.指示灯不熄 Indicator bright	GB/T19216.21–2003 (IEC60331–21：2000)

⊙船舶电气装置控制和仪器回路用电缆
Vessels electrical devices control and Instrument loop used cable

一. 适用范围 Appolcation

本产品用于额定电压150/250V及以下船舶及海上石油平台控制和仪器回路系统。

This product is used for rated voltage 150/250V and lower vessels and offshore oil platform control and instrument loop system.

二. 执行标准 Implementation of standards

GB/T9332–2008(等同于IEC60092–376)
GB/T19666–2005(等同于IEC60331、60332)
GB/T9332–2008(equal to IEC60092–376)
GB/T19666–2005(equal to IEC60331、60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：聚氯乙烯绝缘70℃、交联聚乙烯（聚烯烃）90℃。
2.安装敷设时环境温度不低于0℃。
3.安装敷设时最小弯曲半径：6×电缆外径

1.The conductor highest working temperature: PVC insulated 70℃, Crosslinked polyethylene (polyolefin) insulated 90℃
2. The ambient temperature for laying is not lower than 0℃.
3. The minimum bending radius when installation laying is 6×cable outer diameter

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
CKVV/DA	聚氯乙烯绝缘聚氯乙烯护套船用控制电缆 PVC insulated PVC sheath vessels used control cable
CKVV80/DA	聚氯乙烯绝缘聚氯乙烯内护套裸铜丝编织铠装船用控制电缆 PVC insulated PVC inner sheath bare copper wire weaving armoured vessels used control cable
CKVV82/DA	聚氯乙烯绝缘铜丝编织铠装聚氯乙烯外护套船用控制电缆 PVC insulated copper wire weaving armoured PVC outer sheath vessels used control cable
CKVV90/DA	聚氯乙烯绝缘聚氯乙烯内护套裸钢丝编织铠装船用控制电缆 PVC insulated PVC inner sheath bare steel wire weaving armoured vessels used control cable
CKVV92/DA	聚氯乙烯绝缘聚氯乙烯内护套钢丝编织铠装聚氯乙烯外护套船用控制电缆 PVC insulated PVC inner sheath steel wire weaving armoured PVC outer sheath vessels used control cable
CKEF/DA	辐照乙丙绝缘氯化聚乙烯外护套船用控制电缆 Irradiation EPR insulated Chlorinated polyethylene outer sheath vessels used control cable
CKEF82/DA	辐照乙丙绝缘铜丝编织铠装氯化聚乙烯外护套船用控制电缆 Irradiation EPR insulated copper wire weaving armoured chlorinated polyethylene outer sheath vessels used control cable
CKEF92/DA	辐照乙丙绝缘氯化聚乙烯内护套钢丝编织铠装氯化聚乙烯外护套船用控制电缆 Irradiation EPR insulated chlorinated polyethylene inner sheath steel wire weaving armoured chlorinated polyethylene outer sheath vessels used control cable
CKJV/DA	交联聚乙烯绝缘聚氯乙烯外护套船用控制电缆 XLPE insulated PVC outer sheath vessels used control cable
CKJ82/DA	交联聚乙烯绝缘铜丝编织铠装聚氯乙烯外护套船用控制电缆 XLPE insulated copper wire weaving armoured PVC outer sheath vessels used control cable
CKJ92/DA	交联聚乙烯绝缘聚氯乙烯内护套钢丝编织铠装聚氯乙烯外护套船用控制电缆 XLPE insulated PVC inner sheath steel wire weaving armoured PVC outer sheath vessels used control cable
WD–CKYJY/DA	交联聚乙烯(聚烯烃)绝缘无卤低烟聚烯烃外护套船用控制电缆 XLPE(Polyolefin)insulated LSOH Polyolefin outer sheath vessels used control cable
WD–CKYJY82/DA	交联聚乙烯（聚烯烃）绝缘铜丝编织铠装无卤低烟聚烯烃外护套船用控制电缆 XLPE(Polyolefin)insulated copper wire weaving armoured LSOH Polyolefin outer sheath vessels used control cable
WD–CKYJY92/DA	交联聚乙烯（聚烯烃）绝缘无卤低烟聚烯烃内护套钢丝编织铠装无卤低烟聚烯烃外护套船用控制电缆 XLPE(Polyolefin)insulated LSOH Polyolefin inner sheath steel wire weaving armoured LSOH Polyolefin outer sheath vessels used control cable

五. 规格范围 Specification range

型号 Type	芯数 Core NO.	标称截面mm² Nominal cross section area
CKVV/DA CKVV80/DA CKVV82/DA CKVV90/DA CKVV92/DA	2~37	0.75–1.0
CKEF/DA CKEF82/DA CKEF92/DA	2~37	0.75–1.0
CKJV/DA CKJ82/DA CKJ92/DA	2~37	0.75–1.0
WD–CKYJY/DA WD–CKKYJY82/DA WD–CKYJY92/DA	2~37	0.75–2.5

六. 主要技术参数 Technolgical parameters

1. 电性能Electrical properties

序 号 NO .	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and the conductor resistance	符合GB/T3956-2008标准 （IEC60228:2004） Complies with standard GB/T3956-2008（IEC60228:2004）		GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 Insulation AC 50Hz Spark test	kV	6	GB/T3048.8-2007
3	工频5min电压试验 power frequency 5 min voltage test	kV	3	GB/T3048.8-2007
4	绝缘线芯电压试验 Insulation voltage test 0.6mm及以下≤0.6mm 0.6mm及以上≥0.6mm	kV	2 2.5	GB/T3048.8-2007

2.阻燃性能Flame retardant performance

单根阻燃性能Single core flame retardant performance

代号 Code	试样外径D(mm) Specimen diameter(mm)	供火时间(s) For fire time(s)	合格指标 Compliance index	试验方法 Test method
Z	D≤25	60	试样烧焦应不超过距上夹具下缘500mm-540mm的范围之外 Specimen char is far from fixture 500mm-540mm	GB/T18380.1-2001 （IEC60332-1：1993） GB/T18380.2-2001 （IEC60332-2：1989）
	25≤D≤50	120		
	50 < D≤75	240		
	D > 75	480		

⊙光伏电缆
PV cable

一. 适用范围 Appolcation

本产品用于额定电压0.6/1 kV（直流1.8 kV）及以下太阳能电站、光伏系统等，具有耐高温、抗臭氧、抗紫外线、耐油、防腐、使用寿命长等特点。

This product is used for rated voltage 0.6/1 kV (dc 1.8 kV) and lower solar power plants, photovoltaic system and etc. And it has characteristic of high temperature resistant,anti ozone, anti ultraviolet, oil resistant, anti corrosion, long service life, etc.

二. 执行标准 Implementation of standards

CEEIA B218-2012
UL 4703
2Pfg 1169/08.07

CEEIA B218-2012
UL 4703
2Pfg 1169/08.07

三. 使用特性 Using characteristics

1、导体最高工作温度120℃。
2、短路时（最长持续时间不超过5s）最高工作温度不超过250℃。
3、安装敷设时最小弯曲半径：6×电缆外径。

1、The conductor highest working temperature 120℃.
2、When in the short circuit (lasting no longer than 5 s) the highest working temperature does not exceed 250℃.
3、The minimum bending radius in installing laying：6×cable outer diameter.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
PV1-F	光伏电缆 PV cable

五. 规格范围 Specification range

型号 Type	芯数 Core NO .	标称截面mm² Nominal cross section area
PV1-F	1	1.5∽70

六. 主要技术参数 Technolgical parameters

序 号 NO .	项 目 Project	单 位 Unit	指 标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and the conductor resistance	符合GB/T3956-2008标准 （IEC60228:2004） Complies with standard GB/T3956-2008（IEC60228:2004）		GB/T3048.4-2007
2	交流5min电压试验 5 min voltage test（AC）	kV	6.5	GB/T3048.8-2007
3	成品电缆低温弯曲试验 Finished cable bending test at low temperature	℃	-40	IEC 60811-1-4：2001
4	护套热收缩试验 Sheath thermal shrinkage test	℃	120	GB/T 2951.13-2008 IEC 60811-1-3：2001
5	成品电缆单根燃烧试验 The finished cable single core burning test	mm	≥50	GB/T 18380.1-2001 IEC 60332-1-2：2004
6	无卤特性试验 Halogen-free characteristic test PH导电率 PH Electrical conductivity	μs/mm	≥4.3 ≤10	GB/T 17650.2-1998 IEC 60754-2：1991

光伏、风力发电（机组）电缆 PV, Wind power (unit) cable

⊙风力发电（机组）电缆
Wind power (generator) cable

一. 适用范围 Appolcation

本产品用于额定电压0.6/1kV及以下风力发电机组系统，具有耐低温、耐油、抗腐蚀、抗老化、高强度、耐扭曲等特点。

Appolcate to the wind power ganerator with the rated voltage 0.6/1kV (or lower).It has high strength, enduring oil,resistance abrasion, enduring low temperature and good flexible and ect.

二. 执行标准 Implementation of standards

TICW1-2009
Q/KRD -13 -2010 （参照IEC、VDE标准）
GB/T19666-2005（等同IEC60331、60332）

TICW1-2009
Q/KRD -13 -2010 （refer to standard IEC、VDE）
GB/T19666-2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.适用温度：-40/60℃~70℃（90℃，105℃，180℃）。
2.最小弯曲半径：6X电缆外径。

1.Using temp : -40/60℃~70℃（90℃，105℃，180℃）.
2.The least allowed bending radius is 6 times the outer diameter of the cable .

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
FD-TRYHVD	特殊聚氯乙烯绝缘弹性体护套风力发电（机组）接地电缆 Special PVC insulated elastomers (PVC) sheathed Wind power (generator)ground cable
FD-TRYHV	特殊聚氯乙烯绝缘弹性体护套风力发电（机组）电缆 Special PVC insulated elastomers (PVC) sheathed Wind power (generator) cable
FD-TRYHVP	特殊聚氯乙烯绝缘弹性体护套风力发电（机组）屏蔽电缆 Special PVC insulated elastomers (PVC) sheathed shielded Wind power (generator) cable
FD-TRYHG	硅橡胶绝缘护套风力发电（机组）电缆 Silica rubber insulation and sheathed Wind power (generator) cable
FD-TRYHGP	硅橡胶绝缘护套风力发电（机组）屏蔽电缆 Silica rubber insulation and sheathed shielded Wind power (generator) cabl
FD-TRYHE	特殊弹性体绝缘护套风力发电（机组）电缆 Special elastomers (PVC) insulated and sheathed shielded Wind power (generator) cable
FD-TRYHEP	特殊弹性体绝缘护套风力发电（机组）屏蔽电缆 Special elastomers (PVC) insulated and sheathed Wind power (generator) cable
FD-TRYHU	聚氨酯绝缘护套风力发电（机组）电缆 Polyurethane insulated and sheathed wind power (generator) cable
FD-TRYHUP	聚氨酯绝缘护套风力发电（机组）屏蔽电缆 Polyurethane insulated and sheathed shielded wind power (generator) cable

阻燃型在型号前加ZA（B、C、D），无卤低烟型在型号前加WDZA（B、C、D）。
ZA（B.C.D）is added to the flame-resistant cable, WDZA(B、C、D） is added to the low-smoke halogenfree polyolefin.

五、规格范围 Specification range

型号 Type	芯数 Core No .	标称截面（mm^2） Nominal cross section area（mm^2）
FD-TRYHVD	1	6～300
FD-TRYHV FD-TRYHVP	2～37	0.75～2.5
FD-TRYHG FD-TRYHGP FD-TRYHE	2～24	0.75～150
FD-TRYHEP FD-TRYHU FD-TRYHUP	2～19	0.75～2.5

六、主要技术参数

序号 NO .	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准 (IEC60228:2004) Complies with the standard of GB/T3956-2008 (IEC60228:2004)		GB/T3048.4-2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8-2007
3	4h 交流电压试验 4h AC voltage test	kV	4	GB/T3048.8-200
4	常温扭转试验 reverse test	720° ～ 2160° /min	10000个周期 2000 cycle times	TICW-1-2009附录B Appendix B of TICW-1-2009
5	低温扭转试验 Low-temp reverse test	360° ～ 1080° /min	2000个周期 2000 cycle times	TICW-1-2009附录B Appendix B of TICW-1-2009
6	负重试验 Load carring test	导体截面积X15N Conductor cross section area * 15N	7*24h	TICW-1-2009附录C Appendix C of TICW-1-2009
7	低温弯曲试验 Bending test	-55℃～-25℃±2	180°	TICW-1-2009附录C Appendix C of TICW-1-2009
8	燃烧试验 Fire test			GB/T18380-2001

⊙聚氯乙烯绝缘电梯电缆
PVC inshulated elevator cable

一. 适用范围 Appolcation

本产品用于额定电压450/750V及以下电梯、升降机械设备连接。
Appolcable to the connection for the elevator with the rated voltage 450/750V (or lower).

二. 执行标准 Implementation of standards

GB/T5023.6-2006（等同IEC60227） GB/T5023.6-2006（equal to IEC60227）
GB/T19666-2005（等同IEC60331、60332） GB/T19666-2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度70℃。
2.不适用在温度0℃以下使用。
3.安装自由悬挂长度不超过35m，圆形不超过45m，移动速度扁形不超过1.6m/s，圆形不超过4.0m/s，如使用范围超过上述限制时，应增加承拉元件。
1.The max working temperature of conductor (of a cable) is 70℃.
2.The ambient temperature for laying is not lower than 0℃.
3.Suspension length for installation is no longer than 35m;45m (round),the move speed is no more than 1.6m/s and 4.0m/s(the round one);added the ant-tensile component when the date is exceed above.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
TVVB	扁形聚氯乙烯绝缘聚氯乙烯护套电梯电缆 PVC inshulated and sheathed elevator flat cable
TVVBP(G)	扁型聚氯乙烯绝缘聚氯乙烯护套屏蔽电梯电缆（加强型） Flat shape PVC insulated PVC sheath shielding elevator cable (enhanced type)
TVVBG	扁形聚氯乙烯绝缘聚氯乙烯护套加强型电梯电缆 PVC inshulated and sheathed shielded reinforcement elevator flat cable
TVV(G)	圆形聚氯乙烯绝缘聚氯乙烯护套电梯电缆（加强型） Round shape PVC insulated PVC sheath elevator cable (enhanced type)

阻燃型在型号前加ZA（B、C、D）
ZA（B.C.D）is added to flame-resistant cable

五. 规格范围 Specification range

型号 Type	标称截面（mm^2） Nominal cross section area（mm^2）		
	0.75 1.0	1.5 2.5	4 6 10 16 25
	芯数 Core number		
TVVB TVVBP(G) TVVBG	（3）（4）（5）6 9 12（16）18（20）或24 （3）（4）（5）6 9 12（16）18（20）or24	（3）4 5 6 9或12 （3）4 5 6 9 or 12	4或5 4 or 5
TVV(G)	4-61	6 9 12 18 24或30 6 9 12 18 24 or 30	4或5 4 or 5

六. 主要技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准 (IEC60228:2004) Complies with the standard of GB/T3956-2008(IEC60228:2004)		GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz) 300/500V≤0.6mm 450/750V＞0.6mm	kV	1.5 / 2.5	GB/T3048.9-2007
3	工频5min电压试验 Frequency(5min) voltage test 300/500V 450/750V	kV	2 / 2.5	GB/T3048.8-2007

⊙丁腈聚氯乙烯绝缘扁平电缆
NBR PVC compound insulated flat cable

一. 适用范围 Appolcation

本产品用于额定电压0.6/1kV及以下有低温、耐油、耐酸碱腐蚀要求的行车、台车、电梯、起重机、装卸机械、传输机械有严重弯曲和往返运动场合。

Applicable to travelling crane, trolley, elevator, crane, loading and unloading machinery, transmission machinery with rated voltage of 0.6/1kV in the occasions which will bending seriously and have back and forth movement. And it will have requirements of low temperature resistant, oil resistant, resistant to acid and alkali corrosion.

二. 执行标准 Implementation of standards

Q/KRD-12-2010
GB/T19666-2005（等同IEC60331、60332）
Q/KRD-12-2010
GB/T19666-2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度70℃。
2.安装敷设环境温度不低于0℃，最低工作温度不低于-25℃。
3.安装敷设最小弯曲半径：10X电缆外径。
4.如受中等以上应力，应增加承拉元件。
1.The max working temperature of conductor (of a cable) is 70℃.
2.The ambient temperature for laying is not lower than 0℃.The lowest working tempeature is -25℃.
3.The least allowed bending radius: 10 times the outer diameter of the cable.
4.Added the ant-tensile componment and it will bear the medium stress.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
YVFB	丁腈聚氯乙烯绝缘弹性体护套扁平电缆 NBR insulated elastomer sheathed flat cable
YVFBP(G)	丁腈聚氯乙烯绝缘弹性体护套屏蔽扁平电缆（加强型） Nitrile PVC insulated elastomer sheath shielding flat cable (enhanced type)
YVFBG	丁腈聚氯乙烯绝缘弹性体护套加强型扁平电缆 NBR insulated elastomer sheathed shielded reinforcement flat cable
阻燃型在型号前加ZA（B、C、D），可根据客户要求加入同轴射频电缆元件。 ZA（B.C.D）is added to flame-resistant cable,and added the Coaxial radio frequency cable component as the client need.	

五、规格范围 Specification range

型号 Type	芯数 Core No.	标称截面（mm^2） Nominal cross section area（mm^2）
YVFB	3	0.75～150
	3+1	1.5～120
	4	0.75～50
	7	0.75～25
	10	0.75～6
	12	0.75～4
	16	0.75～2.5
YVFBP(G)	3	1.0～150
	3+1	1.0～120
	7	1.0～25
	10	1.0～6
YVFBG	3	0.75～95
	3+1	0.75～50
	4	0.75～50
	7	0.75～25

移动用电梯、扁平电缆 Movable flat cable

六、主要技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the standard of GB/T3956-200(IEC60228:2004)		GB/T3048.4-2007
2	工频5min电压试验 Frequency(5min)voltage test	kV	3.5	GB/T3048.8-2007
3	4h交流电压试验 4h AC voltage test	kV	2.4	GB/T3048.8-2007

⊙硅橡胶绝缘扁平电缆
Silica rubber inshulated flat cable

一. 适用范围 Appolcation

本产品用于额定电压0.6/1kV及以下有耐高温、低温、耐油、耐酸碱腐蚀要求的行车、台车、电梯、起重机、装卸机械、传输机械有严重弯曲和往返的运动场合。

Applicable to travelling crane, trolley, elevator, crane, loading and unloading machinery, transmission machinery with rated voltage of 0.6/1kV in the occasions which will bending seriously and have back and forth movement. And it will have requirements of high, low temperature resistant, oil resistant, resistant to acid and alkali corrosion.

二. 执行标准 Implementation of standards

Q/KRD-11-2010
GB/T19666-2005（等同IEC60331、60332）
Q/KRD-11-2010
GB/T19666-2005 （equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.导体最高工作温度180℃。
2.安装敷设环境温度不低于0℃，最低工作环境温度不低于-40℃。
3.安装敷设最小弯曲半径：固定4X电缆外径，移动7.5X电缆外径。
4.如受中等以上应力，应增加承拉元件。

1.The max working temperature of conductor (of a cable) is 180℃
2.The ambient temperature for laying is not lower than 0℃.The lowest working tempeature is -40℃.
3.The least allowed bending radius: 6 times the outer diameter of the cable in fixed laying; 7.5 times the outer diameter of the cable in move divices.
4.Added the ant-tensile componment and it will bear the medium stress.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
YGGB	硅橡胶绝缘硅橡胶护套扁平电缆 Silica rubber inshulated and sheathed flat cable
YGGBP(G)	硅橡胶绝缘硅橡胶护套屏蔽扁平电缆（加强型） Silica rubber insulated and sheathed shielding flat cable (enhanced type)
YGGBG	硅橡胶绝缘硅橡胶护套加强型扁平电缆 Silica rubber inshulated and sheathed reinforcement flat cable
阻燃型在型号前加ZA（B、C、D） ZA（B.C.D）is added to flame-resistant cable	

五、规格范围 Specification range

型号 Type	芯数 Core No.	标称截面（mm^2） Nominal cross section area（mm^2）
全部型号 All types	2 3	1.5～70
	4 3+1	1.5～50
	6	1.5～35
	7 8	1.5～16
	10 12	1.5～6

移动用电梯、扁平电缆 Movable flat cable

六. 主要技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准(IEC60228:2004) Complies with the standard of GB/T3956-2008(IEC60228:2004)		GB/T3048.4-2007
2	绝缘线芯交流50Hz火花试验 Spark test (AC. Voltage 50Hz)	kV	6/10	GB/T3048.9-2007
3	工频5min电压试验 Frequency(5min) voltage test	kV	3.5	GB/T3048.8-2007

⊙中压辐照乙丙绝缘扁平电缆
MV irradiation EPR insulation flat cable

一. 适用范围 Appolcation

本产品用于行车、吊车、起重机、移动挖掘机、斗轮机等重型机械设备有弯曲和往返运动的要求，具有耐候、耐化学物质、耐低温、高强度等特点。

This product is used in heavy machinery equipment like travelling crane, crane, hoist, mobile excavator, dou turbine etc. which have demands for bending and back and forth movement. And the characteristics of weather resistance, resistance to chemicals, low temperature resistant, high strength etc.

二. 执行标准 Implementation of standards

Q/KRD-20-2015
Q/KRD-20-2015

三. 使用特性 Using characteristics

1、额定工作电压：3.6/6 kV、6/10 kV、8.7/15 kV
2、导体最高工作温度90℃。
3、安装敷设最小弯曲半径：移动10×电缆外径厚度。

1、The rated working voltage：3.6/6 kV, 6/10 kV, 8.7/15 kV
2、The conductor highest working temperature 90 ℃.
3、Minimum bending radius in installation laying：
mobile 10 x the thickness of outer diameter of cable.

四. 型号、名称 Type and Denomination

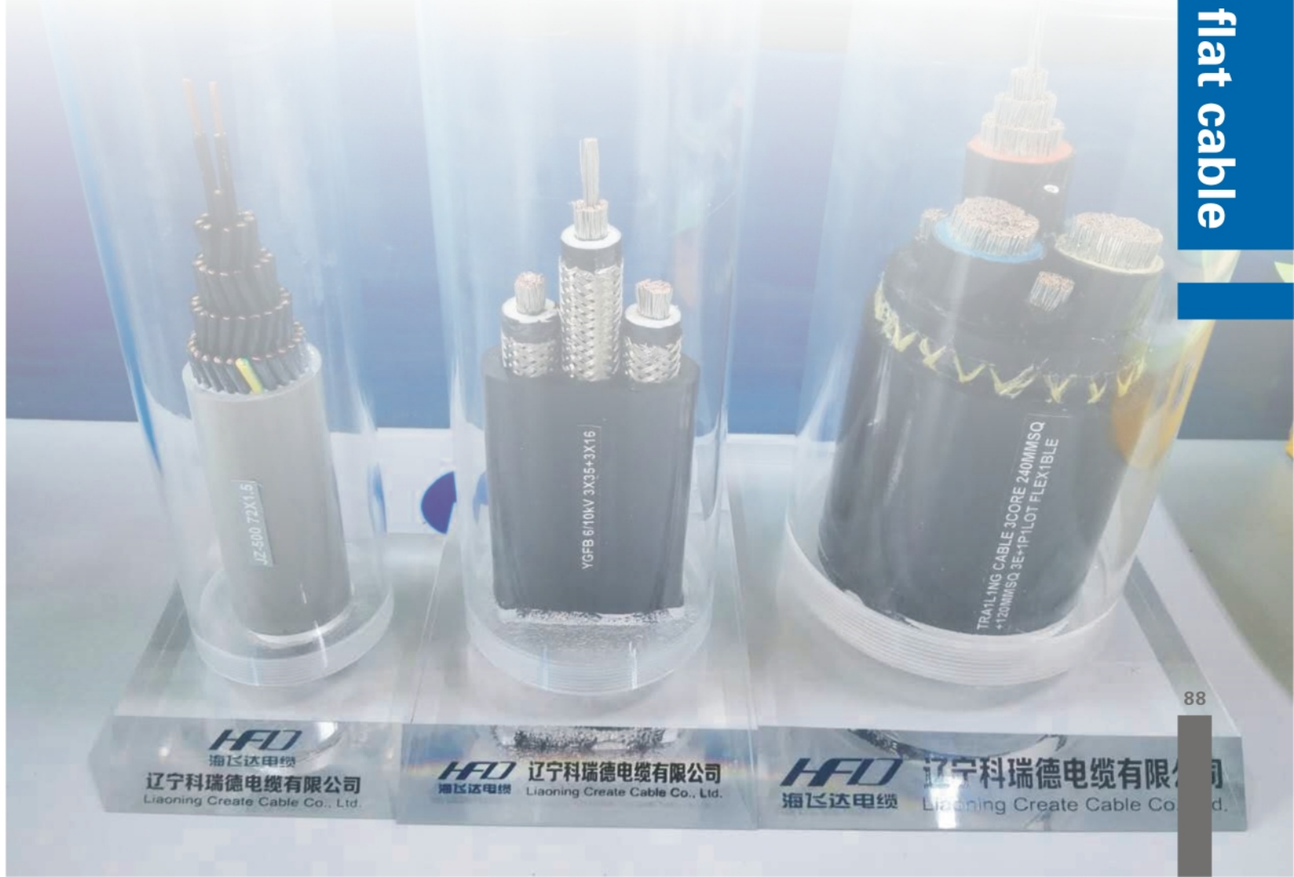
型号 Type	产品名称 Denomination
YGEFRB	中压辐照乙丙绝缘扁平电缆 MV irradiation EPR insulation flat cable
YGEFRGB	中压辐照乙丙绝缘加强型扁平电缆 MV irradiation EPR insulation enhanced flat cable

五、规格范围 Specification range

型号 Type	芯数 Core No.	标称截面（mm^2） Nominal cross section area（mm^2）
YGEFRB	3+1/3	25～300
YGEFRGB	3+1/3	25～300

六. 主要技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956-2008标准 (IEC60228:2004) Complies with the standard of GB/T3956-2008(IEC60228:2004)		GB/T3048.4-2007
2	工频5min电压试验 5 min voltage test（AC）	kV	$3.5U_0$	GB/T3048.8-2007
3	局部放电试验 Partial discharge test	pc	≤10	GB/T3048.12-2007
4	冲击电压试验（峰值）kV Impulse voltage test (peak) kV	kV	60～95	GB/T3048.13-2007



⊙核电站用电缆
Nuclear power station used cables

一. 适用范围 Appolcation

本产品用于额定电压0.6/1kV及以下核电站1E级设备内K3类电力、控制、计算机仪表等。

Applicable for rated voltage 0.6/1kV and lower nuclear power station 1E grade equipment K3 class electric power, control, computer instrument etc.

二. 执行标准 Implementation of standards

GB/T22577–2008
GB/T19666–2005（等同于IEC60331、603327）

GB/T22577–2008
GB/T19666–2005（equal to IEC60331、603327）

三. 使用特性 Using characteristics

1.导体最高工作温度：105℃~150℃
2.安装敷设时环境温度不低于0℃
3.安装敷设时最小弯曲半径：单芯20×电缆外径、多芯15×电缆外径

1 .The conductor highest working temperature:105℃~ 150℃
2. The ambient temperature for laying is not lower than 0℃.
3. The minimum bending radius when installation laying is single core 20×cable outer diameter, multi core 15×cable outer diameter

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
HD–YJ(F)E	无卤低烟聚烯烃绝缘辐照交联核电站用电力电缆 LSOH Polyolefin insulated irradiation crosslinked nuclear station used power cable
HD–YJ(F)E_{23}	无卤低烟聚烯烃绝缘辐照交联钢带铠装核电站用电力电缆 LSOH Polyolefin insulated irradiation crosslinked steel belt armoured nuclear station used power cable
HD–KYJ(F)E	无卤低烟聚烯烃绝缘辐照交联核电站用控制电缆 LSOH Polyolefin insulated irradiation crosslinked nuclear station used control cable
HD–KYJ(F)EP	无卤低烟聚烯烃绝缘辐照交联编织屏蔽核电站用控制电缆 LSOH Polyolefin insulated irradiation crosslinked weaving shielding nuclear station used control cable
HD–KYJ(F)E_{23}	无卤低烟聚烯烃绝缘辐照交联钢带铠装核电站用控制电缆 LSOH Polyolefin insulated irradiation crosslinked steel belt armoured nuclear station used control cable
HD–JYE(F)EP	无卤低烟聚烯烃绝缘辐照交联编织屏蔽核电站用计算机仪表电缆 LSOH Polyolefin insulated irradiation crosslinked weaving shielding nuclear station used computer instrument cable
HD–JYE(F)P_2EP_2	无卤低烟聚烯烃绝缘辐照交联铜塑带分屏总屏核电站用计算机仪表电缆 LSOH Polyolefin insulated irradiation crosslinked copper and plastic compound tape Separated shielding total shielding nuclear station used computer instrument cable
HD–JYE(F)P_3EP_3	无卤低烟聚烯烃绝缘辐照交联铝塑带分屏总屏核电站用计算机仪表电缆 LSOH Polyolefin insulated irradiation crosslinked aluminum and plastic compound tape separated shielding total shielding nuclear station used computer instrument cable

核电站用电缆 Nuclear power station used cables

五. 规格范围 Specification range

型号 Type	额定电压 Rated voltage	芯（对）数 Core (pair) No.	标称截面mm² Nominal cross section area
HD–YJ(F)E HD–YJ(F)E_{23}	0.6/1kV	1~5	1.5~300
HD–KYJ(F)E HD–KYJ(F)EP HD–KYJ(F)E_{23}	450/750V	2~37	0.75~6
HD–JYE(F)EP HD–JYE(F)P_2EP_2 HD–JYE(F)P_3EP_3	300/500V	2~24	0.75~2.5

六. 主要技术参数 Technolgical parameters

1. 电性能Electrical properties

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and the conductor resistance	符合GB/T3956–2008标准（IEC60228:2004） Complies with standard GB/T3956–2008（IEC60228:2004）		GB/T3048.4–2007
2	工频5min电压试验 Power frequency 5 min voltage test	kV	3.5	GB/T3048.8–2007
3	4h交流耐压试验 4h AC voltage withstand test	kV	2.4	GB/T3048.8–2007

2.阻燃性能Flame retardant performance
A.单根阻燃性能Single core flame retardant performance

代号 Code	试样外径D(mm) Specimen diameter(mm)	供火时间(s) For fire time(s)	合格指标 Compliance index	试验方法 Test method
Z	D≤25	60	试样烧焦应不超过距上夹具下缘500mm–540mm的范围之外 Specimen char is far from fixture 500mm–540mm	GB/T18380.1–2001（IEC60332–1：1993） GB/T18380.2–2001（IEC60332–2：1989）
	25≤D≤50	120		
	50＜D≤75	240		
	D＞75	480		

B.成束阻燃性能Bundle core flame retardant performance

代号 Code	试样非金属材料体积 Volume of specimen nometallic material(L/m)	供火时间 For fire time(s)	合格指标 Compliance index	试验方法 Test method
ZA	7	40	1.试样上炭化的长度最大不应超过距喷嘴底边向上2.5m. Specimen carbonation is far from the edge of nozzle as 2.5m 2.停止供火后试样上的有火焰燃烧时间不应超过1h The flaming time is no l onger than 1h after for fire	GB/T18380.3–2001 (IEC60332–3:1992) (IEC60332–3–25:2000)
ZB	3.5	40		
ZC	1.5	20		
ZD	0.5	20		

⊙电机绕组引接软电缆
Motor winding leading connection soft cable

一. 适用范围 Appolcation

本产品用于额定电压500V、1000V、3000V、6000V、10000V及以下与电机绕组连接，其另一端与电机壳体接线柱连接，或引出到机壳外。

This product is used for rated voltage 500V, 1000V, 3000V,6000V, 10000V and lower motor winding connection, and the other end is connected to the binding post of motor shell, or leads to the outside of motor shell.

二. 执行标准 Implementation of standards

JB/T6213–2006
GB/T19666–2005(等同IEC60331,60332)

JB/T6213–2006
GB/T19666–2005(equal to IEC60331,60332)

三. 使用特性 Using characteristics

1.导体最高工作温度：辐照乙丙绝缘90℃、辐照交联聚烯烃绝缘125℃、150℃，硅橡胶绝缘180℃。
2.安装敷设时环境温度不低于–15℃。
3.安装敷设时最小弯曲半径：6×电缆外径

1.The conductor highest working temperature: Irradiation EPR insulated 90℃, Irradiation crosslinking polyolefin insulated 125℃,150℃, Silicone rubber insulated 180℃。
2.The ambient temperature for laying is not lower than –15℃。
3.The minimum bending radius when installation laying：6×Cable outer diameter

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
JE	辐照乙丙橡皮绝缘引接电线 Irradiation EPR insulated Lead wiring
JEH	辐照乙丙橡皮绝缘氯化聚乙烯护套引接电线 Irradiation EPR insulated chlorinated polyethylene sheath Lead wiring
JYJ125	125℃辐照交联聚烯烃绝缘引接电线 125℃ irradiation crosslinked polyolefin insulated Lead wiring
JYJ150	150℃辐照交联聚烯烃绝缘引接电线 150℃ irradiation crosslinked polyolefin insulated Lead wiring
JG	硅橡胶绝缘引接电缆 Silicone rubber insulated Lead wiring

五. 规格范围 Specification range

型号 Type	额定电压 Rated voltage	芯数 Core No.	标称截面mm² Nominal cross section area
JE	500、1000、3000、6000、10000	1	0.12–240
JEH	500、1000、3000、6000、10000	1	25–240
JYJ125 JYJ150	500、1000、3000、6000、10000	1	1–240
JG	500、1000	1	0.5–240

六. 主要技术参数 Technolgical parameters

序 号 NO.	项 目 Project	额定电压（KV） Rated voltage					试验方法 Test method
		0.5	1	3	6	10	
1	电缆结构及导体电阻 Cable structure and the conductor resistance	符合GB/T3956–2008标准（IEC60228:2004） Complies with standard GB/T3956–2008（IEC60228:2004）					GB/T3048.4–2007
2	工频5min电压试验（kV） Power frequency 5 min voltage test	3	6	15	20	35	GB/T3048.8–2007

⊙补偿（导线）电缆
Extension （wires）cables

一. 适用范围 Appolcation

本产品用于连接电源与测量装置，补偿与热电偶连接处温度变化产生的误差。
It use as the connection between the power source and measuring device,compensating the error during the changing of temapurature.

二. 执行标准 Implementation of standards

GB/T4989–2013(等同IEC584.3–1989)
GB3836–2007(等同IEC60079–2007)
GB/T19666–2005（等同IEC60331、60332）

GB/T4989–2013(equal to IEC584.3–1989)
GB3836–2007(equal to IEC60079–2007)
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.最高工作温度：聚氯乙烯、交联聚乙烯、聚烯烃绝缘70℃（90℃，105℃），
硅橡胶绝缘180℃，聚全氟乙丙烯（FEP）绝缘200℃，聚四氟乙烯（PFA）绝缘260℃。
2.最小弯曲半径：聚氯乙烯护套6X电缆外径，硅橡胶、氟塑料护套10X电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃（90℃，105℃）(PVC、XLPE、polyolefin);
180℃（Silica rubber）；200℃（FEP）；260℃（PFA）.
2.The least allowed bending radius is 6 times(PVC) the outer diameter of the cable;
10 times(Silica rubber 、FEP 、PFA）the outer diameter of the cable.

四. 型号、名称 Type and Denomination

1. 热电偶用补偿导线：Extenisn wires

型号 Type	产品名称 Denomination
KX–GS–VV(R)	聚氯乙烯绝缘聚氯乙烯护套精密级K分度号热电偶补偿（软）导线 PVC insulated and sheathed thermocoule extension (soft)wire
KX–GS–VV(R)P	聚氯乙烯绝缘编织屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）导线 PVC insulated and sheathed braid shield thermocoule extension (soft)wire
KX–GS–YJV(R)	交联聚乙烯绝缘聚氯乙烯护套精密级K分度号热电偶补偿（软）导线 XLPE insulated PVC sheathed thermocoule extension (soft)wire
KX–GS–YJV(R)P	交联聚乙烯绝缘编织屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）导线 XLPE insulated PVC sheathed braid shield thermocoule extension (soft)wire
KX–GS–WDZA (B、C、D)–YJY(R)	聚烯烃绝缘聚烯烃护套精密级K分度号无卤低烟热电偶补偿（软）导线 Polyolefin insulated Low–smoke halogenfree polyolefin sheathed thermocoule extension (soft)wire
KX–GS–WDZA (B、C、D)–YJY(R)P	聚烯烃绝缘编织屏蔽聚烯烃护套精密级K分度号无卤低烟热电偶补偿（软）导线 Polyolefin insulated Low–smoke halogenfree polyolefin sheathed braid shield thermocoule extension (soft)wire
KX–HS–GG(R)	硅橡胶绝缘硅橡胶护套精密级K分度号热电偶补偿（软）导线 Silica rubber insulated and sheathed thermocoule extension (soft)wire
KX–HS–GG(R)P	硅橡胶绝缘编织屏蔽硅橡胶护套精密级K分度号热电偶补偿（软）导线 Silica rubber insulated and sheathed braid shield thermocoule extension (soft)wire
KX–HS–FV(R)	氟塑料绝缘聚氯乙烯护套精密级K分度号热电偶补偿（软）导线 Fluoroplastics rubber insulated PVC sheathed thermocoule extension (soft)wire
KX–HS–FV(R)P	氟塑料绝缘编织屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）导线 Fluoroplastics r insulated PVC sheathed braid shield thermocoule extension (soft)wire

KX-HS-FG(R)	氟塑料绝缘硅橡胶护套精密级K分度号热电偶补偿（软）导线 Fluoroplastics rubber insulated Silica rubber sheathed thermocoule extension (soft)wire
KX-HS-FG(R)P	氟塑料绝缘编织屏蔽硅橡胶护套精密级K分度号热电偶补偿（软）导线 Fluoroplastics insulated Silica rubber sheathed braid shield thermocoule extension (soft)wire
KX-HS-FF(R)	氟塑料绝缘氟塑料护套精密级K分度号热电偶补偿（软）导线 Fluoroplastics insulated and sheathed thermocoule extension (soft)wire
KX-HS-FF(R)P	氟塑料绝缘编织屏蔽氟塑料护套精密级K分度号热电偶补偿（软）导线 Fluoroplastics insulated and sheathed braid shield thermocoule extension (soft)wire

上述型号仅列出KX，其它如SC、RC、KCA、KC、NX、EX、JX、TX只需改变型号第一项，
阻燃型在型号前加ZA（B、C、D），耐火型在型号前加NH。
“KX”is listed above,for “SC、RC、KCA、KC、NX、EX、JX、TX”,just teplace “KX”with them.
ZA（B.C.D）is added to flame-resistant cable,NH is added to fire-safe cable.

2. 本质安全型热电偶用补偿导线：Intrnsically safe extension wire used in thempcpule

型号 Type	产品名称 Denomination
IA-KX-GS-YV(R)P	聚乙烯绝缘编织屏蔽聚氯乙烯护套精密级K分度号本质安全型热电偶补偿（软）导线 PE insulated PVC sheathed braid shield intrnsically safe (soft) thermocouple extension wire
IA-KX-HS-FG(R)P	氟塑料绝缘编织屏蔽硅橡胶护套精密级K分度号本质安全型热电偶补偿（软）导线 Fluoroplastics insulated Silica rubber sheathed braid shield intrnsically safe (soft) thermocouple extension wire
IA-KX-HS-FF(R)P	氟塑料绝缘编织屏蔽氟塑料护套精密级K分度号本质安全型热电偶补偿（软）导线 Fluoroplastics insulated sheathed braid shield intrnsically safe (soft) thermocouple extension wire

上述型号仅列出KX，其它如SC、RC、KCA、KC、NX、EX、JX、TX只需改变型号第一项，
阻燃型在型号前加ZA（B、C、D），耐火型在型号前加NH。
“KX”is listed above,for “SC、RC、KCA、KC、NX、EX、JX、TX”,just replace “KX”with them.
ZA（B.C.D）is added to flame-resistant cable,NH is added to fire-safe cable.

3. 热电偶用补偿电缆：Extension cable used in thermocouple

型号 Type	产品名称 Denomination
KX-GS-VV(R)P	聚氯乙烯绝缘编织总屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）电缆 PVC insulated and sheathed totally braid shield (soft) thermocouple extension cable
KX-GS-VPV(R)P	聚氯乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）电缆 PVC insulated and sheathed subshielded 、totally braid shield (soft) thermocouple extension cable
KX-GS-YJV(R)P	交联聚乙烯绝缘编织总屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）电缆 XLPE insulated PVC sheathed totally braid shield (soft) thermocouple extension cable
KX-GS-YJPV(R)P	交联聚乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）电缆 XLPE insulated PVC sheathed subshielded 、totally braid shield (soft) thermocouple extension cable
KX-HS-FV(R)P	氟塑料绝缘编织总屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）电缆 Fluoroplastics insulated PVC sheathed totally braid shield (soft) thermocouple extension cable
KX-HS-FPV(R)P	氟塑料绝缘编织分屏蔽总屏蔽聚氯乙烯护套精密级K分度号热电偶补偿（软）电缆 Fluoroplastics insulated PVC sheathed subshielded 、totally braid shield (soft) thermocouple extension cable
KX-HS-FG(R)P	氟塑料绝缘编织总屏蔽硅橡胶护套精密级K分度号热电偶补偿（软）电缆 Fluoroplastics insulated Silica rubber sheathed totally braid shield (soft) thermocouple extension cable
KX-HS-FPG(R)P	氟塑料绝缘编织分屏蔽总屏蔽硅橡胶护套精密级K分度号热电偶补偿（软）电缆 Fluoroplastics insulated Silica rubber sheathed subshielded 、totally braid shield (soft) thermocouple extension cable
KX-HS-FF(R)P	氟塑料绝缘编织总屏蔽氟塑料护套精密级K分度号热电偶补偿（软）电缆 Fluoroplastics insulated and sheathed totally braid shield (soft) thermocouple extension cable
KX-HS-FPF(R)	氟塑料绝缘编织分屏蔽氟塑料护套精密级K分度号热电偶补偿（软）电缆 Fluoroplastics insulated and sheathed subshielded (soft) thermocouple extension cable
KX-HS-FPF(R)P	氟塑料绝缘编织分屏蔽总屏蔽氟塑料护套精密级K分度号热电偶补偿（软）电缆 Fluoroplastics insulated and sheathed subshielded 、totally braid shield (soft) thermocouple extension cable

上述型号仅列出KX，其它如SC、RC、KCA、KC、NX、EX、JX、TX只需改变型号第一项，
阻燃型在型号前加ZA（B、C、D），耐火型在型号前加NH。
“KX”is listed above,for “SC、RC、KCA、KC、NX、EX、JX、TX”,just replace “KX”with them.
ZA（B.C.D）is added to flame-resistant cable,NH is added to fire-safe cable.

4. 本质安全型热电偶用补偿电缆：Intrinsically safe extension cable used in thermocouple

型号 Type	产品名称 Denomination
IA-KX-GS-VPV(R)P	聚氯乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套精密级K分度号本质安全型热电偶补偿（软）电缆 PVC insulated and sheathed subshielded 、totally braid shield intrnsically safe (soft) thermocouple extension cable
IA-KX-GS-YJPV(R)P	交联聚乙烯绝缘编织分屏蔽总屏蔽聚氯乙烯护套精密级K分度号本质安全型热电偶补偿（软）电缆 XLPE insulated PVC sheathed subshielded 、totally braid shield intrnsically safe (soft) thermocouple extension cable
IA-KX-GS-FPV(R)P	氟塑料绝缘编织分屏蔽总屏蔽聚氯乙烯护套精密级K分度号本质安全型热电偶补偿（软）电缆 Fluoroplastics insulated PVC sheathed subshielded 、totally braid shield intrnsically safe (soft) thermocouple extension cable
IA-KX-HS-FPG(R)P	氟塑料绝缘编织分屏蔽总屏蔽硅橡胶护套精密级K分度号本质安全型热电偶补偿（软）导线 Fluoroplastics insulated Silica rubber sheathed subshielded 、totally braid shield intrnsically safe (soft) thermocouple extension cable
IA-KX-HS-FPF(R)P	氟塑料绝缘编织分屏蔽总屏蔽氟塑料护套精密K分度号本质安全型热电偶补偿（软）导线 Fluoroplastics insulated and sheathed subshielded 、totally braid shield intrnsically safe (soft) thermocouple extension cable

上述型号仅列出KX，其它如SC、RC、KCA、KC、NX、EX、JX、TX只需改变型号第一项，
阻燃型在型号前加ZA（B、C、D），耐火型在型号前加NH。
“KX”is listed above,for “SC、RC、KCA、KC、NX、EX、JX、TX”,just replace “KX”with them.
ZA（B.C.D）is added to flame-resistant cable,NH is added to fire-safe cable.

五. 规格范围 Specification range

1. 热电偶用补偿导线：Extenisn wires

型号 Type	芯数 Core NO.	芯数×标称截面（mm^2） Core * Nominal cross section area（mm^2）
全部型号 All types	1~20	0.5~2.5

六. 主要技术参数 Technolgical parameters

1. 型号、线芯材料、绝缘颜色：Type、meterial of conductor and the color of insulation

型号 Type	配用热电偶分度号 Graduated NO.	配用热电偶 Thermocouple	线芯材料 Alloy conductor of extension wire		绝缘层着色 Color of insulation	
			正极 Positive pole	负极 Negative pole	正极 Positive pole	负极 Negative pole
SC	S	铂铑10-铂 Platinum-rhodium10-pltinum	SPC（铜） SPC(copper)	SNC(铜镍0.6) SNC(copper nickel 0.6)	红 Red	绿 Green
RC	R	铂铑13-铂 Platinum-rhodium13-pltinum	RPC（铜） RPC(copper)	RNC(铜镍0.6) RNC(copper nickel 0.6)	红 Red	绿 Green
KCA	K	镍铬-镍硅 Nickel-chrome-Nickel-silicon	KPCA（铁） KPCA(iron)	KNCA(铜镍22) KNCA(copper nickel 22)	红 Red	蓝 Blue
KC			KPCB（铜） KPCB(copper)	KNCB(铜镍40) KNCB(copper nickel 40)	红 Red	蓝 Blue
KX			KPX（镍铬10） KPX(Nickel-Cr10)	KNX(镍硅3) KNX(Nickel silicon 3)	红 Red	黑 Black

NC	N	镍铬硅-镍硅 Nickel–chrome–silicon–Nickel–silicon	NPC（铁） NPC(iron)	NNC(铜镍18) NNC(copper nickel 18)	红 Red	灰 Gray
NX			NPX(镍铬14硅) NPX(Nickel–Cr14)	NNX（镍硅4镁） NNX（Nickel silicon 4 magnesium)	红 Red	灰 Gray
EX	E	镍铬-铜镍 Nickel–dhrome–Copper–nickel	NPX（镍铬10） NPX(Nickel–Cr10)	ENX(铜镍45) ENX(copper nickel 45)	红 Red	棕 Brown
JX	J	铁-铜镍 Iron–copper–nickel	JPX（铁） JPX(iron)	JNX(铜镍45) JNX(copper nickel 45)	红 Red	紫 Purple
TX	T	铜-铜镍 Copper–copper–nickel	TPX（铜） TPX(copper)	TNX(铜镍45) TNX(copper nickel 45)	红 Red	白 White

2. 使用分类及护层颜色 Application clssifition and sheath color

使用分类 Application classification	精度等级及标志 Precision degree and mark		护套颜色 Color of sheath		
	普通级 General class	精密级 Percision class	普通级 General class	精密级 Percision class	本安型 Intrinsically safe
一般用 General use	G	GS	黑色 Black	灰色 Gray	蓝色 Blue
耐热用 Hat–resistant use	H	HS	黑色 Black	黄色 Yellow	蓝色 Blue

3. 热电动势、允差往复电阻 Heat voltage、allowance and reclprocating resistance

热电偶分度号 Graduated NO.	型号 Type	热电动势及允差（μV） Heat voltage and allowance（μV）						热电偶测量端温度（℃） Temp of testingend
		100℃			200℃			
		热电动势 Heat voltage	允差 Alowance		热电动势 Heat voltage	允差 Alowance		
			普通级 General class	精密级 Percision class		普通级 General class	精密级 Percision class	
S或R S or R	SC,RC	646	±60	±30	1441	±60	–	100 200
K	KCA	4096	±88	±44	8138	±88	±44	100 200
	KCB	4096	±88	±44	8138	±88	±44	100 200
	KX	4096	±88	±44	8138	±88	±44	100 200
N	NC	2774	±86	±43	5913	±86	±43	100 200
	NX	2774	±86	±43	5913	±86	±43	100 200
E	EX	6319	±138	±81	13421	±138	±81	100 200
J	JX	5269	±123	±62	10779	±133	±62	100 200
T	TX	4279	±60	±30	9288	±60	±30	100 200

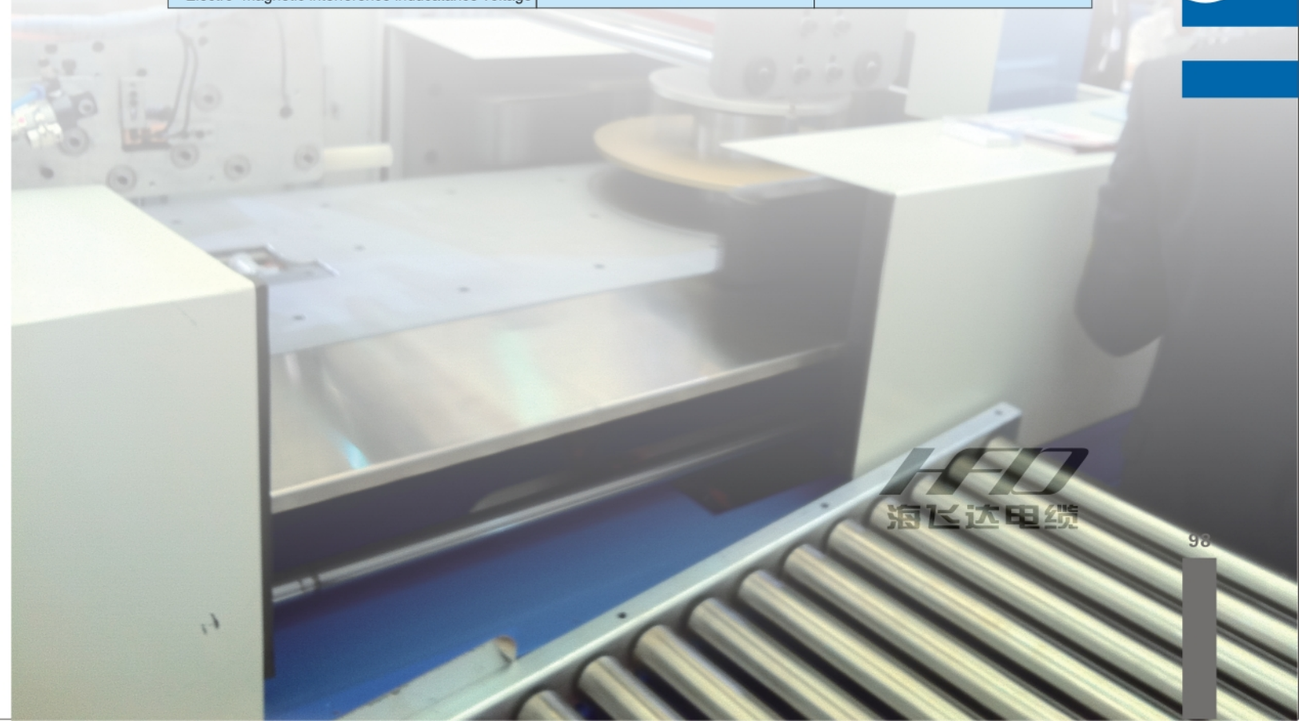
4. 20℃时往复电阻值 Reciprocating resistance at 20℃

型号 Type	20℃时往复电阻值（Ω/m） Reciprocating resistance at 20℃				
	0.2mm²	0.5mm²	1.0mm²	1.5mm²	2.5mm²
SC,RC	0.25	0.10	0.05	0.03	0.02

KCA	3.50	1.40	0.70	0.47	0.28
KCB	2.60	1.04	0.52	0.35	0.21
KX	5.50	2.20	1.10	0.73	0.44
EX	6.25	2.50	1.25	0.83	0.50
JX	3.25	1.30	0.65	0.43	0.26
TX	2.60	1.04	0.52	0.35	0.21
NC	3.75	1.5	0.75	0.50	0.30
NX	7.15	2.86	1.43	0.95	0.57

5. 本安补偿（导线）电缆除具有上述性能指标外，还具有以下主要本安性能指标
Intrinsically safe extension (wire) cable has the following intrinsically safe properties besides above

性能项目 Property	单 位 Unit	指 标 Index
工作电容（1KHz） Operating capacity（1KHz）	μF/m	≤80
电容不平衡 Capacity imbalance	μF/m	≤1
分布电感 Distribution inducatance	μF/m	≤0.6
静电感应电压 Electrostatic inductance boltage	V	≤1
电磁干扰感应电压 Electro–magnetic interference inducatance voltage	mV	≤5



⊙同轴射频电缆
Coaxial radio frequency cable

一. 适用范围 Appolcation

本产品用于发射机、接收机、计算机、无线通信电子装置传输射频信号。
Applicate to transmit (high frequency) signals for transmitter,receiver,computer,wireless communications equipment and ect.

二. 执行标准 Implementation of standards

GB/T14864–2013
MIL–C–17
GB/T14864–2013
MIL–C–17

三. 使用特性 Using characteristics

1.导体最高工作温度70℃。
2.最低环境温度：固定敷设–40℃，非固定敷设–15℃。
3.安装敷设时最小弯曲半径：室内5X电缆外径 ，室外10 X 电缆外径。
1.The max working temperature of conductor (of a cable) is 70℃
2.The ambient temperature for laying is not lower than –40℃(fixed laying) and –15℃(not for fixed laying)
3.The least allowed bending radius: 5 times the outer diameter of the cable inside and 10 times the outer diameter of the cable outside.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
SYV	实芯聚乙烯绝缘聚氯乙烯护套同轴射频电缆 Solid–core PE insulated PVC radio coaxial frequency cable
RG/U	RG同轴电缆 RG radio coaxial frequency cable

五、规格范围 Specification range

型号 Type	特性阻抗 Impedance	内导体 Conductor		绝缘外径 Insulation OD	电缆外径 Cable OD	衰减常数 Attenuation constant			电容 Capacity	试验电压 Test voltage KV/1min
		根数/直径number/d	外径 OD			30 MHZ	2000 MHZ	3000 MHZ		
	Ω	mm	mm	mm	mm	dB/m≤	dB/m≤	dB/m≤	PF/m≤	KV
SYV–50–1–41	50±3.5	7/0.09	0.27	0.87±0.05	1.9±0.10	0.336	0.873	4.36	100	1.0
SYV–50–2–1	50±2	7/0.16	0.48	1.5±0.10	2.8±0.20	0.203	0.524	2.69	100	2.0
SYV–50–2–41	50±2	1/0.68	0.68	2.2±0.10	4.0±0.20	0.129	0.341	1.855	100	3.0
SYV–50–3–4	50±2	1/0.9	0.90	2.95±0.13	5.8±0.20	0.100	0.264	1.482	100	4.0
SYV–50–5–42	50±2.5	1/1.40	1.40	4.8±0.20	7.2±0.30	0.0664	0.181	1.062	100	6.0
SYV–50–5–43	50±2.5	1/1.37	1.37	4.6±0.20	7.8±0.30	0.0664	0.181	1.062	100	6.0
SYV–50–7–2	50±2	7/0.75	2.25	7.25±0.25	10.3±0.30	0.0497	0.137	0.851	100	10.0
SYV–50–7–41	50±2	7/0.75	2.25	7.25±0.25	11.0±0.30	0.0497	0.137	0.851	100	10.0
SYV–50–9–41	50±2	7/0.95	2.82	9.0±0.30	12.2±0.40	0.0396	0.111	0.724	100	12.0
SYV–50–12–41	50±2	7/1.15	3.45	11.5±0.40	15±0.40	0.0337	0.0956	0.656	100	15.0
SYV–50–15–41	50±2	7/1.54	4.62	15±0.50	19±0.50	0.0273	0.0780	0.574	100	20.0
SYV–50–17–41	50±2	19/1.04	5.20	17.3±0.40	22.2±0.50	0.0243	0.0713	0.546	100	22.0
SYV–50–23–41	50±2.5	19/1.37	6.85	23±0.60	28.8±0.70	0.0211	0.0621	0.496	100	28.0

SYV–50–28–41	50±2.5	19/1.65	8.25	28±0.6	34.5±0.70	0.0190	0.0585	0.472	100	36.0
SYV–75–2–41	75±3	7/0.08	0.24	1.5±0.10	2.9±0.10	0.22	0.579	2.97	67	1.5
SYV–75–3–41	75±3	7/0.17	0.51	3.0±0.13	5.0±0.25	0.122	0.308	1.676	67	2.0
SYV–75–5–43	75±3	1/0.72	0.72	4.6±0.20	7.1±0.30	0.0706	0.190	1.028	67	5.0
SYV–75–5–44	75±3	7/0.26	0.78	4.6±0.20	7.1±0.30	0.0785	0.211	1.21	67	5.0
SYV–75–7–2	75±3	7/0.4	1.2	7.25±0.25	10.3±0.30	0.0510	0.140	0.864	67	8.0
SYV–75–9–41	75±3	1/1.37	1.37	9.0±0.30	12.4±0.40	0.0369	0.104	0.693	67	10.0
SYV–75–12–41	75±3	7/0.63	1.89	11.5±0.30	15.0±0.40	0.0344	0.0968	0.659	67	12.5
SYV–75–15–41	75±3	7/0.82	2.46	15±0.40	19.0±0.50	0.0274	0.0793	0.574	67	16.0
SYV–75–17–41	75±3	7/0.95	2.85	17.3±0.40	22.0±0.50	0.0244	0.0715	0.537	67	18.5
SYV–75–23–41	75±3	7/1.27	3.81	23±0.6	28.8±0.70	0.020	0.0630	0.481	67	24.0
SYV–75–28–41	75±3	7/1.5	4.5	28±0.6	34.5±0.70	0.0181	0.0551	0.458	67	28.0
SYV–100–7–41	100±5	1/0.6	0.6	7.25±0.25	10.3±0.30	0.0537	0.147	0.729	57	5.5

型号 Type	特性阻抗 Impedance	内导体 Conductor		绝缘外径 Insulation OD	电缆外径 Cable OD	衰减常数 Attenuation constant			电容 Capacity	试验电压 Test voltage KV/1min
		根数/直径number/d	外径 OD			10 MHZ	300 MHZ	300 MHZ		
	Ω	mm	mm	mm	mm	dB/m≤	dB/m≤	dB/m≤	PF/m≤	KV
RG–5/U	50	1/1.29	1.29	4.7	8.4±0.20	0.027	0.048	0.154	100	7
RG–5A/U	50±22	1/1.29	1.29	4.6	8.4±0.20	0.027	0.047	0.144	100	7
RG–8/U	50±22	7/0.724	2.17	7.24	10.30±0.20	0.019	0.035	0.138	100	10
RG–10/U	50±22	7/0.724	2.17	7.24	12.07±0.20	0.019	0.035	0.138	100	10
RG–14/U	50±22	1/2.59	2.59	9.4	13.80±0.20	0.014	0.025	0.092	100	12
RG–18/U	50±22	7/4.78	4.78	7.4	22.10±0.30	0.008	0.015	0.059	100	22
RG–58C/U	50±22	19/0.18	0.90	2.95	4.95±0.15	0.043	0.082	0.015	100	5
RG–213/U	50±22	7/0.752	2.00	7.24	10.30±0.20	0.020	0.082	0.128	100	10
RG–223/U	50±22	1/0.89	0.89	2.95	5.49±0.20	0.020	0.037	0.174	100	5
RG–6A/U	75±3	1/0.72	0.72	4.7	8.43±0.20	0.028	0.048	0.125	67.0	7
RG–11A/U	75±3	7/0.40	1.2	7.24	10.30±0.20	0.020	0.036	0.125	67.0	10
RG–216/U	75±3	7/0.40	1.2	7.25	10.90±0.20	0.020	0.036	0.125	67.0	10

⊙总线电缆
Profibus cable

一. 适用范围 Application

本产品用于额定电压250V网络化总线系统布线。

Appolcate to wiring for network bus system with the rated voltage 250v.

二. 执行标准 Implementation of standards

GB/T16657–2008(等同IEC61158)
GB/T19666–2005(等同IEC60331.60332)
GB/T16657–2008(equal to IEC61158)
GB/T19666–2005(equal to IEC60331.60332)

三. 使用特性 Using characteristics

1.适用温度： –40℃ ~ 70℃。
2.最小弯曲半径：固定10X电源外径

1.Using temp: –40℃ ~ 70℃
2.The least allowed bending radius is 10 times outer diameter of the power supply.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
PROFIBUS–N	室内用总线电缆 Profibus cable for inside
PROFIBUS–W	室外用总线电缆 Profibus cable for outside
阻燃型在型号前加ZA（B、C、D），无卤低烟型在型号前加WDZ A（B、C、D），可根据要求生产防鼠蚁型、耐油型、钢丝铠装型。 ZA(B、C、D) is added to Flame retardant cable，WDZA(B、C、D) is added to LSOH cable，Rodent control ant type 、Oil–resistant, steel wire armored cable can be produced on request	

五. 规格范围 Specification range

型号 Type	芯线对数 Core pai number	标称截面（mm^2）Nominal cross section area（mm^2）
PROFIBUS–N	1	0.22 0.32 0.8
PROFIBUS–W	2	0.22 0.32 0.8

六. 主要技术参数 Technolgical parameters

序 号 NO.	项 目 Project	单 位 Unit	标准要求 Standard requirement
1	阻 抗 Inpedance	Ohm ± 10%	150
2	电 容 Capatitance	nF/km	30
3	试验电压 Test voltage	kV	1.5

⊙螺旋电缆
Spiral cable

一. 适用范围 Application

本产品用于额定电压300/500V及以下通讯、医疗、机械工程、电力机车、装配线、机器人、电动工具厂、中等弹性力等场合，屏蔽结构可抗电磁干扰。

Appolcate to distribution and transmission with the rated voltage 300/500v (or lower).Inclued communication equipment ,medical treatment,mechanical engineering,electric locomotive,assembly line,robot,power tools factory and anyother occasion which need the medium spring . The shield structure can refuse the electromagnetic interference.

二. 执行标准 Implementation of standards

Q/KRD–14–2010
GB/T19666–2005（等同IEC60331、60332）
Q/KRD–14–2010
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

适用温度：聚氯乙烯护套–5℃ ~ 70℃，聚氨酯护套–25℃ ~ 80℃。
Using temp : –5℃ ~ 70℃(PVC sheathed)，–25℃ ~ 80℃(Polyurethane sheathed).

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
HF–SPIRER–PVC	聚氯乙烯护套螺旋电缆 PVC sheathed sprail cable
HF–SPIRER–PUR	聚氨酯护套螺旋电缆 Polyurehtane sheathed sprail cable
HF–SPIRERP–PUR	聚氨酯护套屏蔽螺旋电缆 Polyurehtane sheathed shiled sprail cable
阻燃型在型号前加ZA（B、C、D） ZA(B\C\D)is added to the flame–resistant cable.	

五. 规格范围 Specification range

型 号 Type	芯 数 Core NO.	标称截面 Nominal cross section area（mm^2）	弹性伸缩率 Elasticity expansion rate	螺旋闭合长度W1 Sprail closure length（mm）	拉伸范围 Tensile range（mm）
HF–SPIRER–PVC	2–3.5	0.3–1.5	1.3	200–2800	400–5600
HF–SPIRER–PVR	2–18	0.3–2.5	1.4	200–3000	800–12000
HF–SPIRER–PUR	2–25	0.14–1.5	1.4	300–1500	900–4500

⊙钢包车拖拽专用电缆
Buggy ladle drag exclusive use cable

一. 适用范围 Application

本产品用于额定电压0.6/1 kV及以下冶炼钢包车及同类环境场合使用。具有防腐蚀、耐老化、抗拖拽、耐高温、耐溅烫、使用寿命超过其它同类电缆的特点。可根据现场使用需要设计动力、控制、通讯为一体的专用组合电缆。

This product is used for rated voltage up to 0.6/1 kV smelting ladle car and similar environment and situations. Has the characteristics of anti–corrosion, aging resistance, resistance to drag and drop, high temperature resistant, splash proof, longer service life than other similar types of cable. Can design exclusive use combination cable which collect as power, control and communication in one according to the needs of field use.

二. 执行标准 Implementation of standards

Q/KRD–21–2016
Q/KRD–21–2016

三. 使用特性 Using characteristics

1、导体最高工作温度90℃。
2、短路时（最长持续时间不超过5s）最高工作温度不超过250℃。
3、安装敷设时最小弯曲半径：固定安装不少于电缆实际外径5倍；
移动安装不少于电缆实际外径8倍。
1、Conductor the maximum operating temperature of 90℃.
2、When in the short circuit (lasting no longer than 5s) the highest working temperature does not exceed 250℃.
3、The minimum bending radius in installing laying：
Fixed installation isn't less than 5 times the actual diameter of cable.
Mobile installation isn't less than 8 times the actual diameter of cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
GBC–RGEJHJ	钢包车拖拽专用电缆 Buggy ladle drag exclusive use cable
GBC–RGEJHJP	钢包车拖拽专用屏蔽电缆 Buggy ladle drag exclusive use shielded cable

五. 规格范围 Specification range

型号 Type	芯数Core No.	标称截面（mm^2）Nominal cross section area	
		动力线Power wire	控制线Control wire
GBC–RGEJHJ	3∽10	6∽120	2.5∽6
GBC–RGEJHJP	3∽10	6∽120	2.5∽6

注：线芯数量和组合可按用户要求。
Note：number and combination of wire cores can be user's requirements.

⊙聚乙烯绝缘直流高压电缆
PE insulated DC high voltage

一. 适用范围 Application

本产品用于额定电压150V及以下静电喷涂、选矿、植绒、除尘设备弱电流高电压直流装置作连接线。

Applicable to distribution and transmission with the rated voltage 150v of seatic electricity,ore–dressing,flocking, dust trmoval equipment and anyother weak current high voltage DC equipment.

二. 执行标准 Implementation of standards

Q/KRD–16–2010
Q/KRD–16–2010

三. 使用特性 Using characteristics

1.导体最高工作温度：70℃。
2.安装敷设温度不低于–5℃。
3.最小弯曲半径：20 X 电缆外径。
1.The max working temperature of conductor (of a cable) is 70℃
2.The ambient temperature for laying is not lower than 0℃.
3.The least allowed bending radius: single–core cable is 20 times the outer diameter of the cable.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
GZYV	聚乙烯绝缘直流高压电缆 PVC insulated DC high voltage

五. 规格范围 Specification range

型号 Type	规 格 Specification	标称截面（mm^2） Nominal cross section area
GZYV	50kV 75kV 100kV 125kV 150kV	2.5

⊙耐高温安装（电线）电缆
Heat–resistant installation （wire）cable

一. 适用范围 Application

本产品用于额定电压600V及以下有耐高温、低温、耐酸碱腐蚀、抗老化、不燃烧等要求的电器、仪表设备连接。应用于石油、化工、电子、冶金、航空等行业。

Appolicable to the distribution and transmission for the electrial ,appearance equipment which request the high temp, cold environment.It has good resistant to scid/alkaline ,anti–aging,not burn and ect.Wildly use in petrochemical, electronic, metallurgy and auiation industry.

二. 执行标准 Implementation of standards

GJB733A–2000
GB/T19666–2005（等同IEC60331、60332）
参照（E）2/23/EWG标准

GJB733A–2000
GB/T19666–2005（equal to IEC60331、60332）
Refer to the standard of（E）2/23/EWG

三. 使用特性 Using characteristics

1.最高工作温度：硅橡胶绝缘180℃、聚全氟乙丙烯（FEP）绝缘200℃、聚四氟乙烯（PFA）绝缘260℃。
2.最小弯曲半径：硅橡胶绝缘7.5X电缆外径，氟塑料绝缘4X电缆外径。
1.The max working temperature of conductor (of a cable) is 180℃(Silica rubber insulated);200℃(FEP insulated); 260℃（PFA insulated）.
2.The least allowed bending radius: 7.5 times the outer diameter of the calbe (Silica rubber insulated); 4 times the outer diameter of the calbe （FEP/ PFA）.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
AGR	铜芯(镀锡)硅橡胶绝缘安装软电缆 Cu core (tinned) silicon rubber insulation soft installation cable
AGRP	铜芯(镀锡)硅橡胶绝缘编织屏蔽安装软电缆 Cu core (tinned) silicon rubber insulation weaved shielded soft installation cable
AF–200	铜芯(镀锡)聚全氟乙丙烯绝缘安装电线 Cu core (tinned)FEP insulation installation wire
AFR–200	铜芯(镀锡)聚全氟乙丙烯绝缘安装软电线 Cu core (tinned)FEP insulation installation soft wire
AFRP–200	铜芯(镀锡)聚全氟乙丙烯绝缘编织屏蔽安装软电线 Cu core (tinned)FEP insulation weaved shielded soft installation wire
AFR–260	铜芯(镀锡/镀银) 聚四氟乙烯绝缘安装软电线 Cu core (tinned/silver–clad) PFA insulation soft installation wire
AFRP–260	铜芯(镀锡/镀银) 聚四氟乙烯绝缘编织屏蔽安装软电线 Cu core (tinned/silver–clad) PFA insulation weaved shielded soft installation wire
FF46–1	铜芯(镀锡) 聚全氟乙丙烯绝缘航空航天用电线 Cu core (tinned)FEP insulation aerospace installation wire
FF46–2	铜芯(镀银) 聚全氟乙丙烯绝缘航空航天用电线 Cu core (silver–clad)FEP insulation aerospace installation wire
FF4–2	铜芯（镀银）聚四氟乙烯绝缘航空航天用电线 Cu core (silver–clad) PFA insulation aerospace installation wire
$FF46P_{11}$–1	铜芯(镀锡) 聚全氟乙丙烯绝缘编织屏蔽航空航天用电缆 Cu core (tinned) FEP insulation weaved shielded aerospace installation cable
$FF46P_{21}$–2	铜芯（镀银） 聚全氟乙丙烯绝缘编织屏蔽航空航天用电缆 Cu core (silver–clad) FEP insulation weaved shielded aerospace installation cable
$FF4P_{21}$–2	铜芯（镀银）聚四氟乙烯绝缘编织屏蔽航空航天用电缆 Cu core (silver–clad) PFA insulation weaved shielded aerospace installation cable
阻燃型在型号前加ZA（B、C、D），耐火型在型号前加NH。 ZA（B.C.D）is added to the flame–resistant cable, NH is added to the fire–safe cable	

⊙无卤低烟辐照交联聚烯烃绝缘电线
LSOH Irradiation crosslinked polyolefin insulated electrical wire

一. 适用范围 Application

本产品适用于交流额定电压600V及以下航空、机场、舰船、地铁、车辆、电子、电器、电机、核电、高层建筑、公共场所等场合。

This product is suitable for AC rated voltage 600V and below, aviation, airports, ships subways, vehicles, electronics, electrical appliances, electrical, nuclear power, high–rise buildings, public places and other occasions.

二. 执行标准 Implementation of standards

JB/T 10491–2004
JB/T 10491–2004
本产品可根据客户需要按照UL等标准生产。
Produced in according to UL standard as requirements of client.

三. 使用特性 Using characteristics

1.最高工作温度：105℃、125℃、150℃。
2.最低环境温度：–60℃。
3.电缆允许弯曲半径：不小于电缆外径的4倍。
1.The max working temperature of conductor (of a cable) : 105℃、125℃、150℃.
2.The ambient temperature for working is not lower than –60℃.
3.The least allowed bending radius is 4 times the outer diameter of the cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
WDZ–BYJ–105/125 WDZN–BYJ–105/125	无卤低烟阻燃辐照交联绝缘电线 LSZH Flame Irradiation Cross–linked insulated wire 无卤低烟阻燃耐火辐照交联绝缘电线 LSZH Flame Refractory Irradiation Cross–linked insulated wire
WDZ–RYJ–105/125 WDZN–RYJ–105/125	无卤低烟阻燃辐照交联绝缘软电线 LSZH Flame Irradiation Cross–linked insulated Flexible wire 无卤低烟阻燃耐火辐照交联绝缘软电线 LSZH Flame Refractory Irradiation Cross–linked insulated Flexible wire
WDZ–BYJYJ–105/125 WDZN–BYJYJ–105/125	无卤低烟阻燃辐照交联绝缘 护套电缆 LSZH Flame Irradiation Cross–linked insulated Flexible cable 无卤低烟阻燃耐火辐照交联绝缘 护套电缆 LSZH Flame Refractory Irradiation Cross–linked insulated Flexible cable

五. 规格范围 Specification range

型号 Type	芯线对数 Core pai number	标称截面（mm^2）/线号 Nominal cross section area （mm^2）/wire number
WDZ–BYJ–105/125 WDZN–BYJ–105/125	1	0.5–300
WDZ–RYJ–105/125 WDZN–RYJ–105/125	1	0.5–240
WDZ–BYJYJ–105/125 WDZN–BYJYJ–105/125	2–5	0.75–16

⊙聚氯乙烯绝缘（电线）电缆
PVC insulated (wire)cable

一. 适用范围 Application

本产品用于额定电压450/750V及以下电气设备、仪器仪表、动力装置、照明线路及有屏蔽要求等布设线路连接用。

Appolcable to the fabirc line for electrical equipment,instrumentation,power plant,lighting circuits and some one need the shield cable with the rated voltage 450/750 V (or lower).

二. 执行标准 Implementation of standards

GB5023.3–5–2008（等同于IEC60227）
JB/T8734–2012
GB/T19666–2005（等同IEC60331、60332）
GB5023.3–5–2008（equal to IEC60227）
JB/T8734–2012
GB/T19666–2005（equal to IEC60331、60332）

三. 使用特性 Using characteristics

1.电缆（电线）长期允许工作温度应不超过70℃、90℃、105℃，敷设环境温度应不低于0℃。
2.电缆(电线)敷设安装允许弯曲半径应不小于电缆（电线）外径的6倍。

1.Working temp : 70℃、90℃、105℃; The ambient temperature for laying is not lower than 0 ℃
2.The least allowed bending radius is 6 times the outer diameter of the cable

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination	额定电压 Rated voltage (V)	芯数 Core No.	标称截面 Nominal cross section area (mm^2)
60227IEC01(BV)	一般用途单芯硬导体无护套电缆 General–purpose signal core hard conductor cable without sheath	450/750	1	1.5 ~ 400
60227IEC02(RV)	一般用途单芯软导体无护套电缆 General–purpose signal core soft conductor cable without sheath	450/750	1	1.5 ~ 240
60227IEC05(BV)	内部布线用导体温度为70℃单芯实芯导体无护套电缆 Internal wiring temp 70℃ of conductor single core solid conductor non–sheathed cable	300/500	1	0.5 ~ 1
60227IEC06(RV)	内部布线用导体温度为70℃单芯软导体无护套电缆 Internal wiring temp 70℃ of conductor single core solid soft conductor non–sheathed cable	300/500	1	0.5 ~ 1
60227IEC07(BV–90)	内部布线用导体温度为90℃单芯实芯导体无护套电缆 Internal wiring temp 90℃ of conductor single core solid conductor non–sheathed cable	300/500	1	0.5 ~ 2.5
60227IEC08(RV–90)	内部布线用导体温度为90℃单芯软导体无护套电缆 Internal wiring temp 90℃ of conductor single core solid soft conductor non–sheathed cable	300/500	1	0.5 ~ 2.5

60227IEC010(BVV)	轻型聚氯乙烯护套电缆 PVC insulated light cable	300/500	2 ~ 5	1.5 ~ 35
60227IEC052(RVV)	轻型聚氯乙烯护套软线 PVC insulated light soft cable	300/500	2 ~ 3	0.5 ~ 0.75
60227IEC53(RVV)	普通聚氯乙烯护套软线 General PVC insulated soft wire	300/500	2 ~ 5	0.75 ~ 2.5
BVR	聚氯乙烯绝缘软线 PVC insulated soft wire	450/750	1	2.5–70
BVVB	聚氯乙烯绝缘聚氯乙烯护套扁形电缆 PVC insulated and sheathed blat cable	300/500	2 ~ 3	0.75 ~ 10
AV	聚氯乙烯绝缘安装用电线 PVC insulated installation wire	300/500	1	0.08 ~ 0.4
AVR	聚氯乙烯绝缘安装用软电线 PVC insulated soft installation wire	300/500	1	0.08 ~ 0.4
AVVR	聚氯乙烯绝缘聚氯乙烯护套安装用软电缆 PVC insulated soft installation cable	300/500	3 ~ 24	0.12 ~ 0.4
RVS	聚氯乙烯绝缘绞型连接用软电缆 PVC insulated straggling soft cable	300/500	2	0.5 ~ 0.75
AVP	聚氯乙烯绝缘安装用屏蔽电缆 PVC insulated shield installation cable	300/500	1	0.08 ~ 0.4
RVP	聚氯乙烯绝缘屏蔽软电缆 PVC insulated shield soft cable	300/500	1	0.08 ~ 2.5
RVVP	聚氯乙烯绝缘聚氯乙烯护套屏蔽软电缆 PVC insulated and sheathed shield soft cable	300/500	1 ~ 24	0.08 ~ 2.5
$RVVP_1$	聚氯乙烯绝缘缠绕屏蔽聚氯乙烯护套软电缆 PVC insulated and sheathed wrapped shield soft cable	300/500	1 ~ 24	0.08 ~ 2.5

阻燃型在型号前加ZA（B、C、D），耐火型在型号前加NH。
ZA(B.C.D)is added to the flame–resistant cable, NH is added to the fire–safe cable.

海飞达电缆

⊙聚氯乙烯绝缘尼龙护套（电线）电缆
PVC insulated nylon sheathed （wire） cable

一. 适用范围 Application

本产品用于交流额定电压600V及以下电器仪表、电子设备及自动化装置作固定布线用。
It is used as link of electrical equipment and automation devices with the AC rated voltages 600V(or lower).

二. 执行标准 Implementation of standards

JB/T10261–2014
GB/T19666–2005（等同IEC60331、60332）
JB/T10261–2014
GB/T19666–2005（equal to IEC60331、60332

三. 使用特性 Using characteristics

环境温度为–60℃～105℃，在相对湿度98%、温度45℃环境中使用。
Environmental temperature: –60℃～105℃; Relative humidity: 98%,the using temp is 45℃.

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
BVN	聚氯乙烯绝缘尼龙护套电线 PVC isulated nylon sheathed wire
BVN–90	耐温90℃聚氯乙烯绝缘尼龙护套电线 90℃ PVC isulated nylon sheathed wire
FVN–105	耐温105℃聚氯乙烯绝缘尼龙护套电线 105℃ PVC isulated nylon sheathed wire
BVNVB	耐温70℃聚氯乙烯绝缘尼龙护套、聚氯乙烯外护套扁型电缆 70℃ PVC isulated nylon sheathed and PVC over sheathed flat cable
FVNP–105	耐温105℃聚氯乙烯绝缘尼龙护套编织屏蔽电线 105℃ PVC isulated nylon sheathed weaved shielded wire

阻燃型在型号前加ZA（B、C、D），耐火型在型号前加NH。
ZA（B.C.D）is added to the flame–resistant cable, NH is added to the fire–safe cable.

五. 规格范围 Specification range

型号 Type	芯数 Core No.	标称截面（mm^2） Nominal cross section area（mm^2）
BVN BVN–90 FVN–105	1	1.5～95
BVNVB FVNP–105	1　3	0.75～10

⊙丁腈聚氯乙烯绝缘弹性体护套改型电线
NBR insulated elastomer sheathed modified wire

一. 适用范围 Application

本产品用于450/750V及以下机械、起重、照明装置等电气设备连接。
Applicable to the connection for the machinery ,lifting and lighting circuits with the rated voltage 450/750V.

二. 执行标准 Implementation of standards

Q/KRD– 17– 2010
Q/KRD– 17– 2010

三. 使用特性 Using characteristics

1.导体最高工作温度：70℃。
2.短路时（最长持续时间不超过5s）最高工作温度不超过160℃。
3.最小弯曲半径：10Ｘ电缆外径。

1.The max working temperature of conductor (of a cable) is 70℃.
2.The short–circuit temperature (lasting no longer than 5s) is less than 160℃.
3.The least allowed bending radius is 10 times the outer diameter of the cable .

四. 型号、名称 Type and Denomination

型号 Type	产品名称 Denomination
BXVW	丁腈聚氯乙烯绝缘弹性体护套改型电线 NBR insulated elastomer sheathed modified wire
BXVWR	丁腈聚氯乙烯绝缘弹性体护套改型软电线 NBR insulated elastomer sheathed modified soft wire

五. 规格范围 Specification range

型号 Type	芯数 Core No.	标称截面（mm^2） Nominal cross section area（mm^2）
BXVW	1	0.75～150
BXVWR	1	0.75～150

六. 型号、技术参数 Technolgical parameters

序号 NO.	项目 Project	单位 Unit	指标 Index	试验方法 Test method
1	电缆结构及导体电阻 Cable structure and conductor resistance	符合GB/T3956–2008 标准(IEC60228:2004) Complies with standard of GB/T3956–2008 (IEC60228:2004)		GB/T3048.4–2007
2	工频5min电压试验 Frequency(5min) voltage test	kV	2.5	GB/T3048.9–2007

⊙UL认证（电线）电缆
UL Certification （Wire）cable

试样 Sample	额定电压 Rated voltage（V）	额定温度 Rated Temp（℃）	导体 Conductor	绝缘 insulated	规格 Specification（AWG）	用途 Application
UL1015	600	80~105	裸铜、镀锡铜线 Bare copper / Tinned copper	PVC	28–10	电器内部布线 The wiring inside the electrical equipment
UL2464	300	80	裸铜、镀锡铜线 Bare copper/ Tinned copper	PVC绝缘 PVC insulated PVC护套 PVC sheathed	3X28 ~ 50X22	广播、电脑、视听设备连接线 The connection line for broa dcasting ,computer and au diovisual equipment
UL3173	600	125	镀锡铜线 Tinned copper	聚烯烃 ployolefin	26 ~ 10	电子、电器及设备仪器连接线，电机、变压器引出线 The connection line for electro magnetic ,the lead line for motor and transformer.
UL20854	300	80	裸铜、镀锡铜线 Bare copper / Tinned copper	PVC/SRPVC/ HDPE/XLPE /FRPE	30 ~ 22	电器内部布线 The wiring inside the electrical equipment
UL1330	600	200	镀锡铜线 Tinned copper	FEP	30 ~ 10	家用电器、照明灯具、电子设备、温度传感器连接线 Then connection line for home appliances, illumination equipment, electronic equipment, temperature sensor and ect.
UL1332	300	200	镀锡铜线 Tinned copper	FEP	30 ~ 10	家用电器、照明灯具、电子设备、温度传感器连接线 Then connection line for home appliances,illumination equipment, electronic equipment,temperature sensor and ect.
UL1723	300	200	镀锡铜线 Tinned copper	FEP	32 ~ 16	家用电器、照明灯具、电子设备、温度传感器连接线 Then connection line for home appliances, illumination equipment, electronic equipment, temperature sensor and ect.
UL1180	300	80	镀银、镀镍铜线 silver–clad/ Nickel plated copper	PFA	32 ~ 10	家用电器、照明灯具、电子设备、温度传感器连接线 Then connection line for ,illumination equipment, electronic equipment, temperature sensor and ect.
UL1933	600	250	镀锡、镀银、镀镍铜线 Tinned copper/ silver –clad/ Nickel plated copper	PFA	36 ~ 20	家用电器、仪器仪表、电子电器、煤气、汽车点火等高压场合 Use for home appliances, Instrumentation, electrcal equipment,gas equipment,autolgnition and ect.which need the high voltage.
UL10393	600	200	镀银、镀镍铜线 silver–clad/ Nickel plated copper	PTFE	32 ~ 10	家用电器、仪器仪表、电子电器、煤气、汽车点火等高压场合 Use for home appliances, Instrumentation,electrcal equipment,gas equipment, autolgnition and ect. Which need the high voltage.
UL3122	300	200	镀锡铜线 Tinned copper	硅橡胶 Silica rubber	26 ~ 16	家用电器、仪器仪表、电子电器、煤气、汽车点火等高压场合 Use for home appliances, Instrumentation,electrcal equipment,gas equipment, autolgnition and ect. Which need the high voltage.

UL3135	600	200	镀锡、 镀银、 镀镍铜线 Tinned copper/ silver-clad/ Nickel plated copper	硅橡胶 Silica rubber	30 ~ 10	家用电器、仪器仪表、 电子电器、煤气、 汽车点火等高压场合 Use for home appliances, Instrumentation,electrcal equipment,gas equipment, autolgnition and ect. Which need the high voltage.
UL20234	300/500	250	裸铜、 镀锡铜线 Bare copper/ Tinned copper	PVC绝缘， PU/PVC护套 Insulated PU/ PVC sheathed	2*26 ~ 6*24	电话、耳机等卷线 Telephone and the headset line.
UL1911	5KV/10KV 15KV/20KV 25KV/30KV 35KV/40KV 50KV	250	镀银、 镀镍铜线 Bare copper /Tinned copper	PFA	24 ~ 10	家用电器、仪器仪表、 电子电器、煤气、 汽车点火等高压场合 Use for home appliances, Instrumentation,electrcal equipment,gas equipment, autolgnition and ect. Which has the high voltage
UL3239	3KV/6KV 10KV/20KV 30KV/40KV 50KV	200	镀锡铜线 Tinned copper	硅橡胶 Silica rubber	26 ~ 14	电器、照明灯具、 电子设备等高温高压连接 Then connection line for , illumination equipment, electronic equipment which has the high temp and the high voltage.

⊙辐照中心生产加工服务项目
Production and processing services

辽宁科瑞德电缆有限公司辐照中心安装由中国科学院上海应用物理所提供的DD–1.5Mev、DD–3.0Mev两台高频高压电子加速器，可广泛生产或加工无卤低烟辐照交联电线电缆，热缩材料等。

Liaoning Create Cable Co., Ltd irradiation center installed two sets of high frequency high voltage electron accelerator DD–1.5Mev、DD–3.0Mev, which provided by the Chinese Academy of Sciences Shanghai Institute of Applied Physics. It can be widely used in produce or process low smoke zero halogen irradiation crosslinking wire and cable, heat shrinkable materials etc.

1.无卤低烟辐照交联电子线
LSOH Irradiation crosslinking electronic wire
2.无卤低烟辐照交联建筑线
LSOH Irradiation crosslinking building wire
3.无卤低烟辐照交联汽车线
LSOH Irradiation crosslinking automotive wire
4.无卤低烟辐照交联轨道交通车辆用电缆
LSOH Irradiation crosslinking rail transit vehicle used cable
5.无卤低烟辐照船用电缆
LSOH Irradiation vessels cable
6.无卤低烟辐照控制电缆
LSOH Irradiation control cable
7.无卤低烟辐照电力电缆
LSOH Irradiation power cable
8.光伏、风力发电（机组）电缆
PV wind power (unit) cable
9.辐照交联机场助航灯光电缆
Irradiation crosslinking airfield navigation lighting cable
10.自控温加热电缆
Self–controlled temperature heating cable
11.辐照交联聚四氟乙烯航空线
Irradiation crosslinking Teflon aviation wire
12.1–10KV 辐照交联聚乙烯绝缘架空电缆
1–10KV Irradiation crosslinking Polyethylene insulate aerial cable
13.热缩型电缆附件
Heat shrinkable cable accessories
14.辐照交联热缩管、带、端帽
Irradiation crosslinking heat shrinkable tube, belt, end cap
15.辐照交联聚乙烯、聚丙烯泡沫管、片材、薄膜
Irradiation crosslinking polyethylene, Polypropylene foam pipe, sheet, thin film