



2022年版

电线电缆选型样本

Wires&Cables Catalogue

安徽天康(集团)股份有限公司
ANHUI TIANKANG (GROUP) SHARES CO.,LTD.

INNOVATION MAKES EXCELLENT

有 | 跨 | 越 | 才 | 有 | 卓 | 越



安徽天康(集团)股份有限公司
ANHUI TIANKANG (GROUP) SHARES CO.,LTD.



关于天康

- 长江宛如一条巨龙奔腾不息，在长江之滨的天长市有这样一颗璀璨的明珠——安徽天康（集团）股份有限公司，在经历了岁月的历练与洗礼后愈发闪耀夺目。

安徽天康（集团）股份有限公司创建于1974年，总部位于“长三角”经济圈核心区域一天长市，是中国民营企业制造业500强企业、中国电子信息百强企业、国家级守合同重信用企业、国家高新技术企业、安徽省依法纳税先进企业、银行资信AAA级企业、中国仪表行业十强企业、中国电线电缆十强企业、安徽省重点骨干企业、“全国五一劳动奖状”获得者等荣誉。

天康集团历经四十余年的蓬勃发展，已形成集仪器仪表、光电缆、医疗卫生、锂电池等跨行业、多元化的集团公司，下属子公司达二十余家。旗下产品凭借良好的质量与服务，被广泛应用于石油、电力、化工、通讯、卫生、新能源汽车及储能等行业和领域。

作为皖东经济最具活力与贡献的骨干企业之一，天康集团以“追求卓越，缔造满意”为目标，依托一流的产品、一流的管理、一流的服务，不仅在国内市场中赢得了广泛赞誉；在国际市场中，天康产品远销欧洲、非洲、亚洲等46个国家和地区。

天康集团在发展中逐步形成了独特的品牌文化及着眼全球的经营部局，全力塑造“高科技、高品质、国际化”的品牌形象。始终秉承“有跨越才有卓越”的天康精神，在创建和谐企业的基础上，引进国际先进的构架与模式，组织企业的生产经营管理体系。在积极参与国际化竞争的基础上，不断把握市场发展脉搏，寻求经济战略联盟，与全球伙伴共同发展与进步。如今天康人将全新的投入化为无私的奉献，与世界共同发展，与人类一起进步。

打造百年天康 拉动千亿产业

引领中国民族工业发展，成为技术领先与产品领先型企业，
备受瞩目的国际化经营公司。



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天康集团电线电缆选型样本

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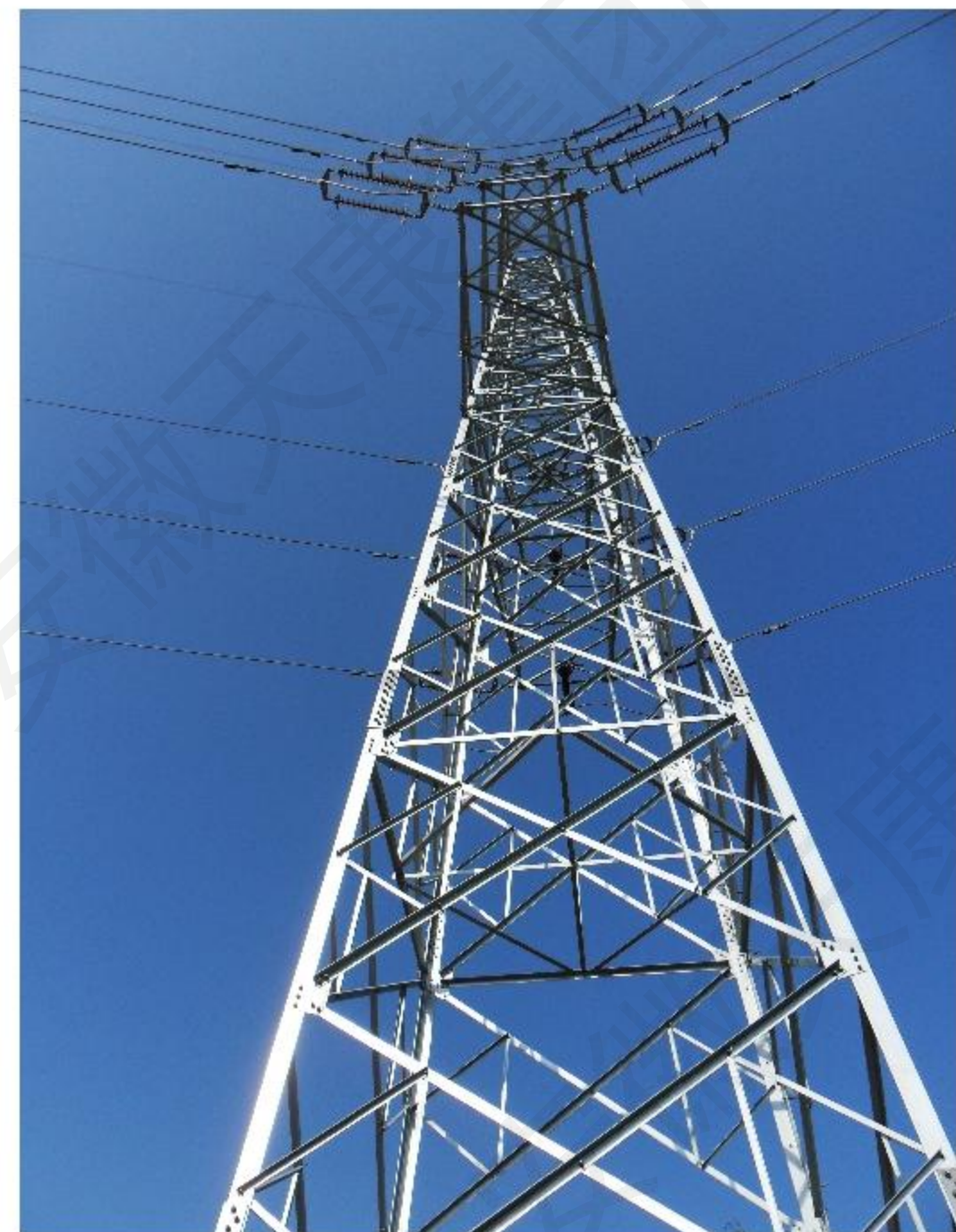
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电力电缆 Power cable



35kV及以下交联聚乙烯绝缘电力电缆

Power Cable with XLPE Insulation for rated voltages from 1kV up to 35kV

0.6/1kV及以下聚氯乙烯绝缘电力电缆

Power cable with PVC insulation and sheath for rated voltage of 0.6/1kV or Lower

变频电机用交联聚乙烯绝缘电缆（变频电缆）

XLPE Insulation Cable for Variable Frequency Motor Application(Frequency Conversion Cable)

氟塑料绝缘（阻燃）电力电缆

(Flame retardant)power cable with Fluoroplastic insulation

硅橡胶绝缘（阻燃）电力电缆

(Flame retardant)Power cable with Silicon insulation

硅橡胶绝缘（阻燃）扁电力电缆

(Flame retardant)Flat power cable with Silicon insulation

35kV及以下交联聚乙烯绝缘电力电缆

Power Cable with XLPE Insulation for rated voltages from 1kV up to 35kV

本产品适用于固定敷设在交流50Hz，额定电压35kV及以下的电力输配电线路上作输送电能用。与聚氯乙烯绝缘电力电缆相比，交联电力电缆产品不仅具有优异的电气性能、机械性能、耐热老化性能、耐环境应力和耐化学腐蚀性能的能力，而且结构简单，重量轻，不受敷设落差限制，长期工作温度90℃等特点。

一、生产执行标准

GB/T12706.1-2020~GB/T12706.3-2020《额定电压1kV (Um=1.2kV) 到35kV (Um=40.5kV) 挤包绝缘电力电缆》，也可按用户需要，采用国际电工委员会IEC60502标准生产。

二、使用特点

- 1、电缆导体的允许长期最高工作温度为90℃；
- 2、短路时（最长持续时间不超过5秒）电缆导体的最高温度不超过250℃；
- 3、电缆敷设时的环境温度不得低于0℃；
- 4、电缆的最小弯曲半径：
多芯电缆无铠装不小于电缆外径的15倍，有铠装不小于电缆外径的12倍；
单芯电缆无铠装不小于电缆外径的20倍，有铠装不小于电缆外径的15倍；
- 5、电缆的工频额定电压 U_0/U 为0.6/1kV~26/35kV。
 U_0 ：电缆设计用的导体对地或金属屏蔽之间的额定工频电压，称相电压；
 U ：电缆设计用的导体间的额定工频电压，称线电压；
 U_m ：设备可承受的“最高系统电压”的最大值。

三、产品型号中各字母代表意义

- 1、材料代号
第1种和第2种铜导体.....省略
第5种铜导体.....R
铝导体.....L
交联聚乙烯或交联聚烯烃.....YJ
聚氯乙烯.....V
聚乙烯或聚烯烃.....Y
- 2、结构特征代号
双钢带铠装.....2
细圆钢丝铠装.....3
粗圆钢丝铠装.....4

The cable is used to transmit power on the power transmission and distribution line of A.C. 50Hz, rated voltage 35 KV or lower. By comparison with power cable with PVC insulation, it has not only excellent electric performance, mechanical performance, heat & aging resistant performance, weather resistant performance, chemical corrosion resistant performance, but also simple structure, light weight, no restriction by laying drop, and high temperature allowance for long term working(90℃) as well.

Executive standard

GB/T12706.1-2020~GB/T12706.3-2020《Power cables with extruded insulation and their accessories for rated voltages from 1kV (Um=1.2 kV) to 35kV (Um=40.5 kV) 》.We also can use the IEC60502 standard for production according to the requirement of the customer.

Working Condition

- 1、Long-term allowable working temperature by cable conductor is no more than 90℃.
- 2、Max. temperature of cable conductor shall be no more than 250℃ during short circuit (the longest lasting time shall be no more than 5 seconds).
- 3、Environment temperature for installation is no less than 0℃.
- 4、Min.bending radius of cable:
The multicore cable without armored is not less than 15 times of the outer diameter of the cable,the multicore with armored is not less than 12 times of the outer diameter of the cable.
The single core cable without armored is not less than 20 times of outer diameter of the cable,the single core cable with armored is not less than 15 times of the outer diameter of the cable.
- 5、Power frequency rated voltage U_0/U of cable is 0.6/1kV~26/35kV.
 U_0 : Power frequency rated voltage of the conductor for cable designing to earth or between metallic, which is called phase voltage.
 U : Power frequency rated voltage between conductor for cable designing, which is called wire voltage.
 U_m : The max.value of the "Maximum system voltage" which the equipment can bear.

The meaning of each letter in the product model

- 1.Material Code
Class 1 and Class 2 conductor..... Omitted
Class 5 conductor..... R
Aluminium..... L
XLPE or polyolefin..... YJ
PVC..... V
PE or polyolefin..... Y
- 2.Structure Code
Double steel tape armor..... 2
round steel wire armor..... 3
Thick round steel wire armor..... 4

(双) 非磁性金属带铠装	6	(Double) non-magnetic metallic tape armor	6
非磁性金属丝铠装	7	non-magnetic metallic wire armor	7
聚氯乙烯外护套	2	PVC Outer sheath	2
聚乙烯或聚烯烃外护套	3	PE or polyolefin Outer sheath	3

四、电缆型号名称及适用场合

Type, Description and Application Occasion

型号 Type		名称 Description	适用场合 Application occasion
铜 Cu	铝 Al		
YJV	YJLV	交联聚乙烯绝缘聚氯乙烯护套电力电缆 Power cable with XLPE insulation, PVC sheath	敷设在室内、隧道、电缆沟及管道中，也可埋在松散的土壤中，电缆不能承受机械外力作用。单芯电缆不允许敷设在磁性管道中。 To be laid indoors, in the tunnel, cable furrow, pipe or under soft soil. The cable can not bear mechanical force from outside. Single core cable isn't permitted to be laid in the magnetic pipe.
YJY	YJLY	交联聚乙烯绝缘聚乙烯或聚烯烃护套电力电缆 Power cable with XLPE insulation, PE or Polyolefin sheath	
YJV22	YJLV22	交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Power cable with XLPE insulation, steel tape armored, PVC sheath	直埋敷设在地下（埋设深度：距地面≥0.7m），电缆能承受一定机械外力作用，但不能承受大的拉力。 To be laid underground(depth of burying: at least 0.7m above earth), the cable can bear certain mechanical force, but it can not bear great pulling force.
YJY23	YJLY23	交联聚乙烯绝缘钢带铠装聚乙烯或聚烯烃护套电力电缆 Power cable with XLPE insulatio, steel tape armored, Polyethylene or Polyolefin sheath	
YJV32	YJLV32	交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 Power cable with XLPE insulation, steel wire armored, PVC sheath.	敷设在水中或具有落差较大的土壤中，电缆能承受相当的拉力。 To be laid in the water or in the soil with a large drop,cable can bear considerable pulling force.
YJY33	YJLY33	交联聚乙烯绝缘细钢丝铠装聚乙烯或聚烯烃护套电力电缆 Power cable with XLPE insulation, steel wire armored, PE sheath or polyolefin sheath.	
YJV42	YJLV42	交联聚乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 Power cable with XLPE insulation, thick steel wire armored, PVC sheath.	敷设在水中及落差较大的隧道或竖井中，电缆能承受较大的拉力。 To be laid in the water and in the tunnel or shaft with a large drop,cable can bear large pulling force.
YJY43	YJLY43	交联聚乙烯绝缘粗钢丝铠装聚乙烯或聚烯烃护套电力电缆 Power cable with XLPE insulation, thick steel wire armored, PE sheath or polyolefin sheath.	

- 备注：
- ①阻燃电缆、无卤低烟阻燃电缆、耐火电缆及其组合型电缆的名称和型号应按GB/T 19666的规定在上述型号的基础上编制。
- ②比如阻燃型电缆，在原型号前加“Z-” “ZA-” “ZB-” “ZC” “ZD-” ，无卤低烟阻燃型的，在原型号前加“WDZ-” “WDZA-” “WDZB-” “WDZC” “WDZD-” ，无卤低烟低毒阻燃型的，在原型号前加“WDUZ-” “WDUZA-” “WDUZB-” “WDUZC” “WDUZD-” 。
- ③耐火型电缆，在原型号前加“N-” “ZAN-” “ZBN-” “ZCN” “ZDN-” ，无卤低烟阻燃耐火电缆，在原型号前加“WDZN-” “WDZAN-” “WDZBN-” “WDZCN” “WDZDN-” ，无卤低烟低毒阻燃型耐火电缆，在原型号前加“WDUZN-” “WDUZAN-” “WDUZBN-” “WDUZCN” “WDUZDN-” 。
- ④低烟低卤阻燃电缆，在原型号前加“DDZ-” “DDZA-” “DDZB-” “DDZC” “DDZD-” 。
- ⑤低烟无卤阻燃B1级电缆，在原型号前加“WDZB1” 或 “WDZB1N” 。

- Note:
- ①The names and models of flame retardant cables, halogen-free low smoke flame retardant cables, fire resistant cables and their combined type cables shall be compiled on the basis of the above models according to the provisions of GB/T 19666
- ②For flame-retardant cable type, add "Z-", "ZA-", "ZB-", "ZC" and "ZD-" before the original model;For halogen-free low-smoke flame retardant type, add "WDZ-", "WDZA-", "WDZB-", "WDZC" and "WDZD-" before the original model;For halogen-free, low smoke, low toxicity and flame retardant type, add "WDUZ-", "WDUZA-", "WDUZB-", "WDUZC" and "WDUZD-" before the original model.
- ③For fire-resistant cable type , add "-","ZAN-","ZBN-","ZCN","ZDN-" before the original model; Halogen-free low smoke flame retardant fire-resistant cable, add "WDZN-","WDZAN-","WDZBN-","WDZCN" and "WDZDN-" before the original model; Halogen-free low-smoke low-toxicity flame-retardant fire-resistant cable, "WDUZN-","WDUZAN-","WDUZBN-","WDUZCN" and "WDUZDN-" are added before the original model.
- ④For Low smoke and low halogen flame retardant cable type, add "DDZ-","DDZA-","DDZB-","DDZC" and "DDZD-" before the original model.
- ⑤For Halogen-free low smoke class B1 flame retardant cable type, add "WDZB1" or "WDZB1N" before the original model.

五、生产范围

Production Scope

型号 Type		芯数 Core No.	额定电压 (kV) Rated voltage								
铜 Cu	铝 Al		0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20 18/30	21/35	26/35
YJV YJY	YJLV YJLY	1	1.5~800	10~800	25~630	25~630	25~630	25~630	50~630	50~630	50~630
		2	1.5~400	10~400	/	/	/	/	/	/	/
		3	1.5~500	10~500	25~400	25~400	25~400	25~400	50~400	50~400	50~400
		4	1.5~400	/	/	/	/	/	/	/	/
		3+1	4~400	10~400	/	/	/	/	/	/	/
		3+2 4+1	4~400	/	/	/	/	/	/	/	/
		5	1.5~300	/	/	/	/	/	/	/	/
YJV62 YJV72 YJY63 YJY73	YJLV62 YJLV72 YJLY63 YJLY73	1	10~800	10~800	25~630	25~630	25~630	25~630	50~630	50~630	50~630
YJV22 YJV32 YJY23 YJY43 YJY33	YJLY22 YJLY32 YJLY23 YJLY43 YJLY33	2	4~300	10~300	/	/	/	/	/	/	/
		3	2.5~500	10~500	25~400	25~400	25~400	25~400	50~400	50~400	50~400
		4	1.5~400	/	/	/	/	/	/	/	/
		3+1	4~400	10~400	/	/	/	/	/	/	/
		3+2 4+1	4~400	/	/	/	/	/	/	/	/
		5	2.5~300	/	/	/	/	/	/	/	/

六、电缆外径尺寸

OD Size of Cable(OD:outer diameter)

YJV-0.6/1kV、YJLV-0.6/1kV Table1

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*1.5	0.7	1.4	5.6	47	38
1*2.5	0.7	1.4	6.0	59	44
1*4	0.7	1.4	6.5	77	52
1*6	0.7	1.4	7.0	99	62
1*10	0.7	1.4	8.2	147	84
1*16	0.7	1.4	9.3	209	109
1*25	0.9	1.4	11.0	304	149
1*35	0.9	1.4	12.0	400	184
1*50	1.0	1.4	13.8	524	232
1*70	1.1	1.4	16.2	732	310
1*95	1.1	1.5	17.2	991	404
1*120	1.2	1.5	19.1	1230	490
1*150	1.4	1.6	21.2	1485	603
1*185	1.6	1.6	23.1	1820	748
1*240	1.7	1.7	26.0	2454	954
1*300	1.8	1.8	28.4	3041	1157
1*400	2.0	1.9	33.1	3622	1478
1*500	2.2	2.0	37.8	4959	1874
1*630	2.4	2.2	40.0	6384	2382
1*800	2.6	2.3	45.0	7850	2890

YJV-0.6/1kV、YJLV-0.6/1kV Table2

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV	YJLV
2*1.5	0.7	1.8	9.7	/	103	86
2*2.5	0.7	1.8	10.6	/	131	102
2*4	0.7	1.8	11.5	/	173	123
2*6	0.7	1.8	12.6	/	226	150
2*10	0.7	1.8	15.2	/	342	214
2*16	0.7	1.8	17.3	/	488	285
2*25	0.9	1.8	20.0	/	711	393
2*35	0.9	1.8	22.0	/	927	486
2*50	1.0	1.8	25.2	19.8	1096	499
2*70	1.1	1.8	28.6	22.2	1518	657
2*95	1.1	2.0	32.8	25.2	2061	864
2*120	1.2	2.1	37.4	28.0	2567	1058
2*150	1.4	2.2	41.0	31.2	3155	1292
2*185	1.6	2.3	44.8	34.2	3913	1583
2*240	1.7	2.5	51.0	38.0	5053	2207
2*300	1.8	2.7	56.0	41.0	6320	2595
2*400	2.0	2.9	64.0	46.0	8312	3350

YJV-0.6/1kV、YJLV-0.6/1kV Table3

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV	YJLV
3*1.5	0.7	1.8	10.0	/	127	99
3*2.5	0.7	1.8	10.8	/	167	120
3*4	0.7	1.8	11.8	/	221	175
3*6	0.7	1.8	12.9	/	293	179
3*10	0.7	1.8	15.7	/	445	253
3*16	0.7	1.8	18.0	/	640	340
3*25	0.9	1.8	20.8	/	959	482
3*35	0.9	1.8	22.9	/	1274	613
3*50	1.0	1.8	26.8	22.6	1590	695
3*70	1.1	1.9	30.7	26.5	2228	935
3*95	1.1	2.0	35.0	29.8	3015	1220
3*120	1.2	2.1	39.9	33.0	3763	1497
3*150	1.4	2.3	44.0	36.6	4965	1861
3*185	1.6	2.4	48.0	41.6	5778	2281
3*240	1.7	2.6	54.7	46.4	7513	2920
3*300	1.8	2.8	59.8	50.6	9409	3642
3*400	2.0	3.1	67.0	57.0	12100	4600
3*500	2.2	3.3	75.5	64.0	15000	5700

YJV-0.6/1kV、YJLV-0.6/1kV Table4

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV	YJLV
4*1.5	0.7	1.8	10.6	/	154	117
4*2.5	0.7	1.8	11.5	/	204	142
4*4	0.7	1.8	12.8	/	274	175
4*6	0.7	1.8	14.0	/	363	214
4*10	0.7	1.8	17.0	/	559	307
4*16	0.7	1.8	19.6	/	815	416
4*25	0.9	1.8	22.8	/	1208	585
4*35	0.9	1.8	25.2	/	1612	747
4*50	1.0	1.9	29.7	27.0	2057	886
4*70	1.1	2.0	34.1	31.0	4902	1941
4*95	1.1	2.1	38.8	34.6	3914	1567
4*120	1.2	2.3	44.5	39.0	4902	1941
4*150	1.4	2.4	48.8	42.4	6033	2380
4*185	1.6	2.6	53.6	48.0	7526	2955
4*240	1.7	2.8	60.9	51.2	9781	3778
4*300	1.8	3.0	66.6	59.8	12184	4646
4*400	2.0	3.3	77.0	68.0	16000	5900

YJV-0.6/1kV、YJLV-0.6/1kV Table5

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV	YJLV
3*4+1*2.5	0.7/0.7	1.8	12.3	/	236	180
3*6+1*4	0.7/0.7	1.8	13.5	/	316	210
3*10+1*6	0.7/0.7	1.8	16.6	/	460	380
3*16+1*10	0.7/0.7	1.8	19.2	/	679	375
3*25+1*16	0.9/0.7	1.8	22.4	/	1065	586
3*35+1*16	0.9/0.7	1.8	24.6	/	1368	821
3*50+1*25	1.0/0.9	1.8	28.1	27.0	1901	1141
3*70+1*35	1.1/0.9	1.9	32.0	31.0	2585	1463
3*95+1*50	1.1/1.0	2.1	36.7	35.2	3718	2231
3*120+1*70	1.2/1.1	2.2	41.9	39.0	4443	2665
3*150+1*70	1.4/1.1	2.3	45.2	41.8	5326	3190
3*185+1*95	1.6/1.1	2.5	50.0	47.0	6628	3842
3*240+1*120	1.7/1.2	2.7	56.9	52.6	8501	5001
3*300+1*150	1.8/1.4	2.9	62.5	57.9	10320	5679
3*400+1*185	2.0/1.6	3.1	71.0	65.0	13950	5960

YJV-0.6/1kV、YJLV-0.6/1kV Table6

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV	YJLV
3*4+2*2.5	0.7/0.7	1.8	13.6	/	294	187
3*6+2*4	0.7/0.7	1.8	14.8	/	399	234
3*10+2*6	0.7/0.7	1.8	17.5	/	589	320
3*16+2*10	0.7/0.7	1.8	20.7	/	879	446
3*25+2*16	0.9/0.7	1.8	24.5	/	1313	633
3*35+2*16	0.9/0.7	1.8	26.2	/	1607	742
3*50+2*25	1.0/0.9	1.9	30.2	27.7	2243	1029
3*70+2*35	1.1/0.9	2.0	34.2	32.2	3126	1392
3*95+2*50	1.1/1.0	2.2	39.2	36.3	4207	1814
3*120+2*70	1.2/1.1	2.3	44.8	40.7	5303	2176
3*150+2*70	1.4/1.1	2.4	47.8	43.5	6209	2552
3*185+2*95	1.6/1.1	2.6	53.1	48.0	7898	3204
3*240+2*120	1.7/1.2	2.8	60.5	53.4	10188	4086
3*300+2*150	1.8/1.4	3.0	66.0	58.0	12675	5045
3*400+2*185	2.0/1.6	3.0	75.0	68.0	15850	6100

YJV-0.6/1kV、YJLV-0.6/1kV Table7

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV	YJLV
4*4+1*2.5	0.7/0.7	1.8	14.5	/	313	197
4*6+1*4	0.7/0.7	1.8	15.5	/	448	271
4*10+1*6	0.7/0.7	1.8	18.2	/	656	361
4*16+1*10	0.7/0.7	1.8	21.3	/	946	475
4*25+1*16	0.9/0.7	1.8	25.3	/	1408	670
4*35+1*16	0.9/0.7	1.8	27.6	/	1807	823
4*50+1*25	1.0/0.9	1.9	31.5	29.0	2479	1127
4*70+1*35	1.1/0.9	2.1	36.1	33.9	3483	1539
4*95+1*50	1.1/1.0	2.2	41.1	38.0	4677	1986
4*120+1*70	1.2/1.1	2.4	47.2	41.9	5971	2522
4*150+1*70	1.4/1.1	2.5	51.1	45.4	7021	2865
4*185+1*95	1.6/1.1	2.7	56.2	50.3	8858	3599
4*240+1*120	1.7/1.2	2.9	64.1	56.0	11173	4598
4*300+1*150	1.8/1.4	3.1	70.0	67.0	14275	5659
4*400+1*185	2.0/1.6	3.4	79.0	70.0	17930	6800

YJV-0.6/1kV、YJLV-0.6/1kV Table8

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV	YJLV
5*1.5	0.7	1.8	11.4	/	182	/
5*2.5	0.7	1.8	12.5	/	239	/
5*4	0.7	1.8	13.8	/	332	206
5*6	0.7	1.8	15.0	/	448	252
5*10	0.7	1.8	18.5	/	677	372
5*16	0.7	1.8	21.3	/	1000	512
5*25	0.9	1.8	26.0	/	1504	742
5*35	0.9	1.8	29.5	/	2007	905
5*50	1.0	2.0	33.0	31.4	2815	1233
5*70	1.1	2.1	37.7	36.8	3823	1669
5*95	1.1	2.3	43.3	41.4	5155	2149
5*120	1.2	2.4	49.3	44.8	6400	2606
5*150	1.4	2.6	54.3	49.6	7869	3213
5*185	1.6	2.8	60.0	55.0	9788	3962
5*240	1.7	3.0	67.0	62.0	12849	5200
5*300	1.8	3.2	74.0	69.0	15920	6315

YJV62-0.6/1kV、YJLV62-0.6/1kV Table9

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62*	YJLV62*
1*10	0.7	1.4	12.0	332	270
1*16	0.7	1.4	13.1	409	310
1*25	0.9	1.4	14.8	520	365
1*35	0.9	1.4	15.9	632	415
1*50	1.0	1.4	18.3	800	490
1*70	1.1	1.5	20.0	1025	591
1*95	1.1	1.6	21.5	1283	694
1*120	1.2	1.6	24.2	1549	805
1*150	1.4	1.7	25.6	1867	937
1*185	1.6	1.7	27.8	2235	1088
1*240	1.7	1.8	30.6	2795	1307
1*300	1.8	1.9	33.4	3767	1907
1*400	2.0	2.0	37.8	4810	2330
1*500	2.2	2.2	42.6	5945	2845
1*630	2.4	2.3	45.0	7318	3412
1*800	2.6	2.5	51.0	8900	3950

YJV22-0.6/1kV、YJLV22-0.6/1kV Table10

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV22	YJLV22
2*4	0.7	1.8	14.5	/	324	274
2*6	0.7	1.8	15.6	/	390	314
2*10	0.7	1.8	18.2	/	524	396
2*16	0.7	1.8	20.3	/	694	490
2*25	0.9	1.8	23.0	/	978	645
2*35	0.9	1.8	25.0	/	1222	782
2*50	1.0	1.8	28.0	21.8	1372	775
2*70	1.1	1.9	31.6	25.7	2124	1263
2*95	1.1	2.0	35.6	28.7	2728	1532
2*120	1.2	2.2	41.6	31.5	3292	1783
2*150	1.4	2.3	45.2	34.7	3975	2113
2*185	1.6	2.4	49.0	38.2	4838	2508
2*240	1.7	2.6	55.6	42.0	6035	2940
2*300	1.8	2.8	60.5	46.0	7460	3580
2*400	2.0	.0	69.0	52.0	9560	4430

YJV22-0.6/1kV、YJLV22-0.6/1kV Table11

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV22	YJLV22
3*2.5	0.7	1.8	13.8	/	284	/
3*4	0.7	1.8	14.8	/	379	303
3*6	0.7	1.8	15.9	/	466	352
3*10	0.7	1.8	18.7	/	655	462
3*16	0.7	1.8	21.0	/	887	582
3*25	0.9	1.8	23.8	/	1243	766
3*35	0.9	1.8	25.9	/	1558	927
3*50	1.0	1.8	29.6	26.1	1923	1027
3*70	1.1	2.0	33.7	30.0	2929	1636
3*95	1.1	2.2	39.4	33.3	3822	2026
3*120	1.2	2.3	44.3	36.5	4659	2394
3*150	1.4	2.4	48.2	40.6	5627	2832
3*185	1.6	2.6	52.4	45.6	6897	3400
3*240	1.7	2.7	59.3	50.4	8788	4195
3*300	1.8	2.9	64.4	55.1	10787	5020
3*400	2.0	3.2	74.0	65.0	14100	6010
3*500	2.2	3.4	83.0	72.0	17110	7890

YJV22-0.6/1kV、YJLV22-0.6/1kV Table12

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV22	YJLV22
4*1.5	0.7	1.8	13.6	/	285	/
4*2.5	0.7	1.8	14.5	/	311	/
4*4	0.7	1.8	15.8	/	445	408
4*6	0.7	1.8	17.0	/	550	488
4*10	0.7	1.8	20.0	/	787	688
4*16	0.7	1.8	22.6	/	1076	927
4*25	0.9	1.8	25.8	/	1519	1267
4*35	0.9	1.8	28.7	/	1957	1558
4*50	1.0	1.9	32.5	30.5	2759	2136
4*70	1.1	2.1	37.1	34.5	3678	2813
4*95	1.1	2.3	43.2	38.6	4832	2485
4*120	1.2	2.4	48.7	43.0	5906	2945
4*150	1.4	2.6	53.6	46.4	7186	3533
4*185	1.6	2.7	58.2	52.5	8807	4235
4*240	1.7	2.9	65.5	55.7	11268	5625
4*300	1.8	3.1	71.2	64.8	13824	6286
4*400	2.0	3.4	80.0	72.0	16800	6750

YJV22-0.6/1kV、YJLV22-0.6/1kV Table13

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV22	YJLV22
3*4+1*2.5	0.7/0.7	1.8	15.3	/	352	/
3*6+1*4	0.7/0.7	1.8	16.5	/	450	/
3*10+1*6	0.7/0.7	1.8	19.6	/	730	498
3*16+1*10	0.7/0.7	1.8	22.2	/	970	650
3*25+1*16	0.9/0.7	1.8	25.4	/	1390	870
3*35+1*16	0.9/0.7	1.8	27.6	/	1700	1010
3*50+1*25	1.0/0.9	1.9	31.1	30.5	2188	1280
3*70+1*35	1.1/0.9	2.0	35.0	34.5	2873	1837
3*95+1*50	1.1/1.0	2.2	40.9	39.2	4380	2340
3*120+1*70	1.2/1.1	2.3	46.1	43.0	5625	2876
3*150+1*70	1.4/1.1	2.5	49.6	45.8	6592	3240
3*185+1*95	1.6/1.1	2.6	54.6	51.5	8045	3878
3*240+1*120	1.7/1.2	2.8	61.5	57.1	10120	4791
3*300+1*150	1.8/1.4	3.0	67.1	62.9	11971	5700
3*400+1*185	2.0/1.6	3.3	75.0	69.0	15500	7000

YJV22-0.6/1kV、YJLV22-0.6/1kV Table14

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV22	YJLV22
3*4+2*2.5	0.7/0.7	1.8	17.0	/	463	356
3*6+2*4	0.7/0.7	1.8	18.5	/	584	420
3*10+2*6	0.7/0.7	1.8	20.3	/	806	338
3*16+2*10	0.7/0.7	1.8	23.5	/	1136	702
3*25+2*16	0.9/0.7	1.8	27.3	/	1610	930
3*35+2*16	0.9/0.7	1.8	29.0	/	1926	1061
3*50+2*25	1.0/0.9	1.9	33.0	31.2	2783	1770
3*70+2*35	1.1/0.9	2.2	37.3	35.7	3949	2244
3*95+2*50	1.1/1.0	2.3	43.3	40.3	5162	2769
3*120+2*70	1.2/1.1	2.4	49.0	44.7	6397	3269
3*150+2*70	1.4/1.1	2.5	52.0	47.5	7409	3752
3*185+2*95	1.6/1.1	2.7	57.7	52.5	9069	4565
3*240+2*120	1.7/1.2	2.9	65.1	57.9	11362	5597
3*300+2*150	1.8/1.4	3.4	72.0	63.0	14413	6783
3*400+2*185	2.0/1.6	3.3	77.0	71.0	17560	7850

YJV22-0.6/1kV、YJLV22-0.6/1kV Table15

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV22	YJLV22
4*4+1*2.5	0.7	1.8	17.5	/	485	368
4*6+1*4	0.7	1.8	18.9	/	637	460
4*10+1*6	0.7	1.8	21.0	/	882	588
4*16+1*10	0.7/0.7	1.8	24.1	/	1208	738
4*25+1*16	0.9/0.7	1.8	28.1	/	1713	976
4*35+1*16	0.9/0.7	1.8	30.4	/	2152	1169
4*50+1*25	1.0/0.9	2.0	34.5	32.5	3080	1191
4*70+1*35	1.1/0.9	2.2	40.3	37.9	4200	2432
4*95+1*50	1.1/1.0	2.3	45.3	42.0	5695	3004
4*120+1*70	1.2/1.1	2.5	51.4	45.9	7073	3679
4*150+1*70	1.4/1.1	2.6	55.7	49.9	8000	4126
4*185+1*95	1.6/1.1	2.8	60.8	54.8	10139	5029
4*240+1*120	1.7/1.2	3.0	68.7	61.0	12764	6257
4*300+1*150	1.8/1.4	3.2	76.0	68.0	16169	7552
4*400+1*185	2.0/1.6	3.3	79.0	70.0	19500	8450

YJV22-0.6/1kV、YJLV22-0.6/1kV Table16

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable		电缆近似重量 (kg/km) Approximate weight of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	YJV22	YJLV22
5*2.5	0.7	1.8	15.5	/	350	/
5*4	0.7	1.8	16.8	/	507	380
5*6	0.7	1.8	18.0	/	570	438
5*10	0.7	1.8	21.5	/	926	605
5*16	0.7	1.8	24.3	/	1277	769
5*25	0.9	1.8	29.5	/	1817	1023
5*35	0.9	1.9	33.0	/	2300	1527
5*50	1.0	2.0	35.8	34.9	2890	1815
5*70	1.1	2.2	41.9	40.8	4732	2578
5*95	1.1	2.4	47.5	45.4	6256	3265
5*120	1.2	2.6	53.7	49.3	7571	3797
5*150	1.4	2.7	58.9	54.1	9221	4565
5*185	1.6	2.9	65.0	64.0	11319	5494
5*240	1.7	3.1	73.0	71.0	14631	6981
5*300	1.8	3.4	80.0	78.0	17948	8341

YJV-1.8/3kV、YJLV-1.8/3kV Table17

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*10	2.0	1.4	11.0	209	147
1*16	2.0	1.4	12.0	278	179
1*25	2.0	1.4	13.0	375	220
1*35	2.0	1.4	14.5	465	259
1*50	2.0	1.5	15.5	595	323
1*70	2.0	1.5	17.0	817	402
1*95	2.0	1.6	19.0	1063	506
1*120	2.0	1.6	21.0	1293	598
1*150	2.0	1.7	22.5	1588	718
1*185	2.0	1.7	24.0	1943	842
1*240	2.0	1.8	27.0	2483	1031
1*300	2.0	1.9	29.0	3107	1262
1*400	2.0	2.0	32.5	4074	1594
1*500	2.2	2.1	36.5	5036	1961
1*630	2.4	2.2	40.5	6329	2423
1*800	2.6	2.2	44.0	7950	2990

YJV-1.8/3kV、YJLV-1.8/3kV Table18

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
2*10	2.0	1.8	20.0	437	313
2*16	2.0	1.8	22.0	577	378
2*25	2.0	1.8	24.0	773	463
2*35	2.0	1.8	25.6	978	544
2*50	2.0	1.9	28.0	1294	674
2*70	2.0	2.0	31.4	1718	850
2*95	2.0	2.1	35.0	2241	1063
2*120	2.0	2.2	38.0	2757	1269
2*150	2.0	2.3	42.0	3376	1516
2*185	2.0	2.4	46.0	4087	1793
2*240	2.0	2.6	49.5	5176	2200
2*300	2.0	2.7	56.0	6450	2683
2*400	2.0	2.9	62.0	8300	3330

YJV-1.8/3kV、YJLV-1.8/3kV Table19

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*10	2.0	1.8	22.0	576	390
3*16	2.0	1.8	24.0	777	479
3*25	2.0	1.8	26.5	1062	597
3*35	2.0	1.9	29.0	1374	723
3*50	2.0	2.0	31.5	1834	904
3*70	2.0	2.1	35.5	2452	1150
3*95	2.0	2.2	39.5	3215	1448
2*120	2.0	2.3	43.5	3968	1736
3*150	2.0	2.4	47.0	4871	2081
3*185	2.0	2.5	50.0	5912	2471
3*240	2.0	2.7	56.0	7509	3045
3*300	2.0	2.8	60.0	9302	3722
3*400	2.0	3.0	67.0	12100	4660
3*500	2.0	3.2	74.0	14950	5650

YJV62-1.8/3kV、YJLV62-1.8/3kV Table20

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62	YJLV62
1*10	2.0	1.4	13.5	291	229
1*16	2.0	1.4	14.5	368	269
1*25	2.0	1.4	15.5	477	322
1*35	2.0	1.5	16.5	576	371
1*50	2.0	1.5	17.5	713	441
1*70	2.0	1.6	19.5	955	540
1*95	2.0	1.6	21.5	1216	660
1*120	2.0	1.7	23.0	1467	772
1*150	2.0	1.7	25.0	1778	908
1*185	2.0	1.8	26.5	2160	1060
1*240	2.0	1.8	28.5	2716	1264
1*300	2.0	1.9	32.0	3383	1538
1*400	2.0	2.0	36.5	4384	1904
1*500	2.2	2.2	40.5	5722	2679
1*630	2.4	2.3	44.5	7076	3239
1*800	2.6	2.5	48.0	8769	3883

YJV22-1.8/3kV、YJLV22-1.8/3kV Table21

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
2*10	2.0	1.8	22.5	602	488
2*16	2.0	1.8	24.5	762	571
2*25	2.0	1.8	26.5	980	672
2*35	2.0	1.8	28.5	1214	776
2*50	2.0	1.9	31.0	1558	925
2*70	2.0	2.0	34.5	2022	1131
2*95	2.0	2.2	39.5	2943	1724
2*120	2.0	2.3	43.0	3532	1988
2*150	2.0	2.4	47.0	4238	2304
2*185	2.0	2.5	51.0	5041	2653
2*240	2.0	2.7	54.5	6217	3117
2*300	2.0	2.8	60.0	7619	3736
2*400	2.0	3.1	68.0	9705	4568

YJV22-1.8/3kV、YJLV22-1.8/3kV Table22

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*10	2.0	1.8	23.5	755	569
3*16	2.0	1.8	26.0	978	681
3*25	2.0	1.8	28.5	1293	828
3*35	2.0	1.9	30.5	1626	975
3*50	2.0	2.0	33.0	2118	1188
3*70	2.0	2.2	38.0	3114	1812
3*95	2.0	2.3	42.5	3973	2206
2*120	2.0	2.4	46.0	4809	2577
3*150	2.0	2.5	50.5	5809	3019
3*185	2.0	2.6	54.5	6952	3511
3*240	2.0	2.8	58.5	8651	4187
3*300	2.0	2.9	65.0	10640	5060
3*400	2.0	3.2	73.0	13697	6257
3*500	2.0	3.4	82.0	17540	8240

YJV72-1.8/3kV、YJLV72-1.8/3kV Table23

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*10	2.0	1.4	14.5	407	345
1*16	2.0	1.4	16.5	609	510
1*25	2.0	1.5	17.5	739	584
1*35	2.0	1.5	18.5	853	647
1*50	2.0	1.5	19.5	1011	739
1*70	2.0	1.6	22.0	1402	987
1*95	2.0	1.7	24.0	1696	1139
1*120	2.0	1.7	25.0	1981	1286
1*150	2.0	1.8	27.0	2338	1468
1*185	2.0	1.8	29.5	2750	1649
1*240	2.0	1.9	31.0	3354	1902
1*300	2.0	2.0	35.5	4314	2469
1*400	2.0	2.1	39.0	5445	2965
1*500	2.2	2.2	42.5	6567	3492
1*630	2.4	2.3	48.0	8441	4535
1*800	2.6	2.6	51.5	9930	4970

YJV32-1.8/3kV、YJLV32-1.8/3kV Table24

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
2*10	2.0	1.8	28.0	1077	962
2*16	2.0	1.8	30.1	1302	1110
2*25	2.0	1.8	32.5	1577	1269
2*35	2.0	1.9	34.3	1847	1409
2*50	2.0	2.0	38.5	2499	1867
2*70	2.0	2.1	42.0	3067	2178
2*95	2.0	2.2	46.0	3764	2551
2*120	2.0	2.3	51.3	4812	3276
2*150	2.0	2.5	55.3	5653	3729
2*185	2.0	2.4	59.2	6549	4172
2*240	2.0	2.7	63.1	7858	4772
2*300	2.0	2.9	70.2	9461	5595
2*400	2.0	3.0	76.0	11670	6421

YJV32-1.8/3kV、YJLV32-1.8/3kV Table25

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*10	2.0	1.8	29.0	1275	1089
3*16	2.0	1.8	31.5	1562	1264
3*25	2.0	1.9	34.0	1925	1460
3*35	2.0	1.9	37.5	2538	1887
3*50	2.0	2.1	40.5	3134	2204
3*70	2.0	2.2	44.0	3888	2586
3*95	2.0	2.3	50.5	5209	3442
2*120	2.0	2.4	54.0	6217	3985
3*150	2.0	2.5	58.5	7333	4543
3*185	2.0	2.7	62.5	8589	5148
3*240	2.0	2.8	67.0	10444	5980
3*300	2.0	3.0	74.0	12640	7060
3*400	2.0	3.4	84.0	16836	9396
3*500	2.0	3.6	91.5	20256	10956

YJV-3.6/6kV、YJLV-3.6/6kV Table26

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*25	2.5	1.5	18.1	528	373
1*35	2.5	1.5	19.0	641	424
1*50	2.5	1.6	20.3	813	503
1*70	2.5	1.6	22.1	1033	599
1*95	2.5	1.7	23.7	1334	745
1*120	2.5	1.7	25.3	1596	852
1*150	2.5	1.8	27.1	1913	983
1*185	2.5	1.8	28.8	2267	1120
1*240	2.6	1.9	31.3	2844	1356
1*300	2.8	2.0	34.5	3477	1617
1*400	3.0	2.1	38.5	4490	2010
1*500	3.2	2.2	42.3	5845	2745
1*630	3.2	2.3	48.0	7113	3207

YJV-3.6/6kV、YJLV-3.6/6kV Table27

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*25	2.5	2.1	36.0	1600	1126
3*35	2.5	2.2	38.0	1946	1282
3*50	2.5	2.3	41.2	2462	1514
3*70	2.5	2.4	44.7	3175	1847
3*95	2.5	2.5	48.7	4086	2284
3*120	2.5	2.6	51.7	4914	2638
3*150	2.5	2.7	55.5	5873	3027
3*185	2.5	2.8	58.9	6987	3478
3*240	2.6	3.0	64.7	8773	4220
3*300	2.8	3.2	72.6	10736	5045
3*400	3.0	3.4	78.0	13865	6276

YJV62-3.6/6kV、YJLV62-3.6/6kV Table28

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62*	YJLV62*
1*25	2.5	1.6	21.9	706	553
1*35	2.5	1.6	22.7	831	613
1*50	2.5	1.7	24.0	999	694
1*70	2.5	1.7	25.8	1232	800
1*95	2.5	1.8	27.4	1500	928
1*120	2.5	1.8	29.0	1788	1055
1*150	2.5	1.9	31.6	2270	1340
1*185	2.5	1.9	33.4	2637	1496
1*240	2.6	2.0	36.0	3202	1741
1*300	2.8	2.2	38.7	3846	2001
1*400	3.0	2.3	42.7	4872	2435
1*500	3.2	2.4	46.2	5907	2845
1*630	3.2	2.5	51.0	7560	3500

YJV72-3.6/6kV、YJLV72-3.6/6kV Table29

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*25	2.5	1.6	24.0	1297	1142
1*35	2.5	1.6	25.0	1460	1243
1*50	2.5	1.7	27.0	1664	1354
1*70	2.5	1.7	28.0	1973	1539
1*95	2.5	1.8	30.0	2322	1733
1*120	2.5	1.8	32.0	2640	1896
1*150	2.5	1.9	33.0	3003	2073
1*185	2.5	1.9	36.0	3683	2536
1*240	2.6	2.0	38.0	4382	2894
1*300	2.8	2.1	41.0	5138	3278
1*400	3.0	2.2	45.0	6305	3825
1*500	3.2	2.4	52.0	8423	5323
1*630	3.2	2.5	56.0	9943	6037

YJV22-3.6/6kV、YJLV22-3.6/6kV Table30

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*25	2.5	2.2	40.5	2470	1998
3*35	2.5	2.3	42.7	2890	2226
3*50	2.5	2.4	46.0	3470	2521
3*70	2.5	2.5	49.7	4298	2970
3*95	2.5	2.6	53.7	5291	3489
3*120	2.5	2.8	56.8	6228	3951
3*150	2.5	2.9	60.6	7293	4447
3*185	2.5	3.0	64.4	8498	4988
3*240	2.6	3.2	70.2	10456	5902
3*300	2.8	3.4	78.5	12604	6913
3*400	3.0	3.7	88.5	16875	9290

YJV32-3.6/6kV、YJLV32-3.6/6kV Table31

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*25	2.5	2.2	43.0	3344	2869
3*35	2.5	2.3	47.0	4267	3603
3*50	2.5	2.4	50.0	4946	3998
3*70	2.5	2.5	54.0	5850	4522
3*95	2.5	2.6	57.0	6948	5145
3*120	2.5	2.8	61.0	7987	5711
3*150	2.5	2.9	64.0	9159	6314
3*185	2.5	3.0	68.0	10506	6996
3*240	2.6	3.2	75.0	13494	8940
3*300	2.8	3.4	82.0	15928	10236
3*400	3.0	3.8	89.0	19685	12095

YJV-6/6kV, 6/10kV、YJLV-6/6kV, 6/10kV Table32

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*25	3.4	1.6	20.3	609	454
1*35	3.4	1.6	21.4	723	542
1*50	3.4	1.6	22.7	877	618
1*70	3.4	1.7	24.3	1111	729
1*95	3.4	1.7	25.9	1406	860
1*120	3.4	1.8	27.4	1666	968
1*150	3.4	1.8	29.0	1969	1099
1*185	3.4	1.9	30.8	2344	1251
1*240	3.4	2.0	33.2	2939	1496
1*300	3.4	2.0	36.2	3570	1748
1*400	3.4	2.2	37.9	4424	2078
1*500	3.4	2.2	41.9	5459	2514
1*630	3.4	2.4	46.0	6875	3050

YJV-6/6kV, 6/10kV、YJLV-6/6kV, 6/10kV Table33

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*25	3.4	2.2	39.4	1947	1472
3*35	3.4	2.3	42.0	2301	1643
3*50	3.4	2.4	45.0	2779	1888
3*70	3.4	2.5	48.7	3546	2260
3*95	3.4	2.7	52.3	4444	2657
3*120	3.4	2.8	55.7	5281	3028
3*150	3.4	2.9	59.4	6206	3426
3*185	3.4	3.0	63.0	7411	3933
3*240	3.4	3.1	68.2	9290	4722
3*300	3.4	3.3	75.0	11233	5497
3*400	3.4	3.6	82.0	13937	6602

YJV62-6/6kV, 6/10kV、YJLV62-6/6kV, 6/10kV Table34

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62*	YJLV62*
1*25	3.4	1.7	23.3	841	686
1*35	3.4	1.7	24.5	971	754
1*50	3.4	1.8	25.8	1165	855
1*70	3.4	1.8	28.4	1413	979
1*95	3.4	1.9	29.4	1728	1139
1*120	3.4	1.9	30.9	2014	1270
1*150	3.4	2.0	33.2	2355	1425
1*185	3.4	2.0	35.0	2735	1588
1*240	3.4	2.1	38.7	3682	2194
1*300	3.4	2.2	41.9	4366	2506
1*400	3.4	2.3	45.3	5462	2982
1*500	3.4	2.4	48.7	6952	3852
1*630	3.4	2.5	52.0	8345	4439

YJV22-6/6kV, 6/10kV、YJLV22-6/6kV, 6/10kV Table35

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*25	3.4	2.4	44.7	3054	2579
3*35	3.4	2.4	47.5	3508	2850
3*50	3.4	2.6	50.6	4032	3141
3*70	3.4	2.7	54.3	4930	3644
3*95	3.4	2.8	58.2	5951	4164
3*120	3.4	2.9	61.3	6871	4618
3*150	3.4	3.0	65.5	7801	5021
3*185	3.4	3.1	69.0	9286	5808
3*240	3.4	3.3	74.3	11355	6787
3*300	3.4	3.5	81.0	14368	8632
3*400	3.4	3.8	90.0	17406	10071

YJV72-6/6kV, 6/10kV、YJLV72-6/6kV, 6/10kV Table36

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*25	3.4	1.8	27.0	1456	1301
1*35	3.4	1.8	28.0	1610	1395
1*50	3.4	1.8	29.0	1804	1513
1*70	3.4	1.9	31.0	2105	1685
1*95	3.4	1.9	34.0	2697	2113
1*120	3.4	2.0	35.0	3034	2297
1*150	3.4	2.1	37.0	3384	2475
1*185	3.4	2.1	39.0	3842	2705
1*240	3.4	2.2	41.0	4546	3053
1*300	3.4	2.3	43.0	5272	3397
1*400	3.4	2.4	48.0	6731	4334
1*500	3.4	2.5	51.0	8037	4957
1*630	3.4	2.7	55.0	9686	5703

YJV32-6/6kV, 6/10kV、YJLV32-6/6kV, 6/10kV Table37

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*25	3.4	2.5	43.0	3344	2869
3*35	3.4	2.6	47.0	4267	3603
3*50	3.4	2.7	50.0	4946	3998
3*70	3.4	2.8	54.0	5850	4522
3*95	3.4	2.9	57.0	6948	5154
3*120	3.4	3.0	61.0	7987	5711
3*150	3.4	3.1	64.0	9159	6314
3*185	3.4	3.2	68.0	10506	6996
3*240	3.4	3.4	75.0	13494	8940
3*300	3.4	3.6	82.0	15928	10236
3*400	3.4	3.9	93.0	19870	12536

YJV-8.7/10kV, 8.7/15kV、YJLV-8.7/10kV, 8.7/15kV Table38

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*25	4.5	1.6	22.7	729	574
1*35	4.5	1.7	23.8	848	633
1*50	4.5	1.7	25.0	1008	717
1*70	4.5	1.8	26.6	1252	832
1*95	4.5	1.8	28.5	1554	970
1*120	4.5	1.9	30.0	1820	1084
1*150	4.5	1.9	31.4	2129	1221
1*185	4.5	2.0	33.4	2514	1378
1*240	4.5	2.1	35.8	3124	1631
1*300	4.5	2.1	38.6	3770	1896
1*400	4.5	2.2	42.0	4632	2237
1*500	4.5	2.3	44.6	5736	2657
1*630	4.5	2.5	49.0	7187	3204

YJV-8.7/10kV, 8.7/15kV、YJLV-8.7/10kV, 8.7/15kV Table39

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*25	4.5	2.4	45.4	2367	1893
3*35	4.5	2.5	47.8	2791	2133
3*50	4.5	2.6	50.7	3307	2417
3*70	4.5	2.7	54.3	4136	2850
3*95	4.5	2.8	57.6	5072	3285
3*120	4.5	2.9	61.3	5941	3687
3*150	4.5	3.0	64.6	6936	4156
3*185	4.5	3.1	68.3	8233	4755
3*240	4.5	3.3	73.5	10124	5556
3*300	4.5	3.5	80.2	12256	6521
3*400	4.5	3.7	87.0	15030	7695

YJV62-8.7/10kV, 8.7/15kV、YJLV62-8.7/10kV, 8.7/15kV Table40

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62*	YJLV62*
1*25	4.5	1.7	25.9	964	795
1*35	4.5	1.8	27.0	1098	875
1*50	4.5	1.8	28.2	1275	962
1*70	4.5	1.9	29.8	1532	1092
1*95	4.5	1.9	31.7	1857	1236
1*120	4.5	2.0	33.6	2364	1623
1*150	4.5	2.0	35.2	2734	1797
1*185	4.5	2.1	38.4	3157	2004
1*240	4.5	2.2	40.8	3731	2263
1*300	4.5	2.3	44.0	4504	2613
1*400	4.5	2.4	47.6	5445	3044
1*500	4.5	2.5	50.7	6610	3508
1*630	4.5	2.6	54.0	8590	4684

YJV22-8.7/10kV, 8.7/15kV、YJLV22-8.7/10kV, 8.7/15kV Table41

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*25	4.5	2.5	50.2	3164	3139
3*35	4.5	2.6	52.6	4091	3433
3*50	4.5	2.7	55.4	4715	3824
3*70	4.5	2.8	59.3	5703	4417
3*95	4.5	3.0	63.0	6728	4941
3*120	4.5	3.1	67.0	7716	5463
3*150	4.5	3.2	70.7	8859	6079
3*185	4.5	3.3	74.3	10257	6779
3*240	4.5	3.5	79.5	12371	7803
3*300	4.5	3.7	86.8	15622	9880
3*400	4.5	4.0	95.0	18724	11389

YJV72-8.7/10kV, 8.7/15kV、YJLV72-8.7/10kV, 8.7/15kV Table42

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*25	4.5	1.8	29.0	1612	1456
1*35	4.5	1.9	30.0	1768	1553
1*50	4.5	1.9	31.0	1969	1678
1*70	4.5	2.0	33.0	2110	1689
1*95	4.5	2.1	36.0	2882	2298
1*120	4.5	2.1	37.0	3207	2470
1*150	4.5	2.1	39.0	3577	2668
1*185	4.5	2.2	40.0	4048	2911
1*240	4.5	2.3	43.0	4749	3256
1*300	4.5	2.3	47.0	5933	4059
1*400	4.5	2.5	50.0	6935	4538
1*500	4.5	2.6	53.0	8240	5160
1*630	4.5	2.7	57.0	9962	5980

YJV32-8.7/10kV, 8.7/15kV、YJLV32-8.7/10kV, 8.7/15kV Table43

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*25	4.5	2.6	54.0	4966	4492
3*35	4.5	2.7	56.0	5488	4830
3*50	4.5	2.8	59.0	6170	5279
3*70	4.5	2.9	63.0	7378	6092
3*95	4.5	3.1	67.0	8386	6599
3*120	4.5	3.2	70.0	9473	7220
3*150	4.5	3.3	75.0	11565	8785
3*185	4.5	3.4	79.0	13090	9612
3*240	4.5	3.6	85.0	15421	10853
3*300	4.5	3.8	90.0	17964	12228
3*400	4.5	4.1	97.0	21228	13894

YJV-12/20kV、YJLV-12/20kV Table44

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*25	5.5	1.7	24.5	820	658
1*35	5.5	1.7	25.6	904	687
1*50	5.5	1.8	26.9	1095	785
1*70	5.5	1.8	28.5	1332	898
1*95	5.5	1.9	30.3	1621	1032
1*120	5.5	1.9	31.8	1896	1152
1*150	5.5	2.0	33.6	2252	1322
1*185	5.5	2.0	35.2	2638	1491
1*240	5.5	2.1	37.6	3214	1726
1*300	5.5	2.2	40.8	3847	1987
1*400	5.5	2.3	44.0	4862	2382
1*500	5.5	2.4	47.2	6192	3092
1*630	5.5	2.6	51.0	7499	3593

YJV-12/20kV、YJLV-12/20kV Table45

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*25	5.5	2.6	49.2	2615	2127
3*35	5.5	2.6	51.8	2751	2087
3*50	5.5	2.7	54.9	3320	2373
3*70	5.5	2.8	58.4	4073	2745
3*95	5.5	3.0	62.2	4943	3140
3*120	5.5	3.1	65.6	5816	3540
3*150	5.5	3.2	69.3	6952	4106
3*185	5.5	3.3	73.2	8155	4645
3*240	5.5	3.5	78.0	9958	5404
3*300	5.5	3.7	85.0	11926	6234
3*400	5.5	3.9	92.0	15066	7477

YJV62-12/20kV、YJLV62-12/20kV Table46

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62*	YJLV62*
1*25	5.5	1.8	27.3	1179	932
1*35	5.5	1.9	28.7	1255	1038
1*50	5.5	1.9	30.0	1450	1140
1*70	5.5	2.0	32.0	1710	1276
1*95	5.5	2.0	34.2	2019	1430
1*120	5.5	2.1	35.5	2330	1586
1*150	5.5	2.1	38.6	3039	2109
1*185	5.5	2.2	40.2	3464	2317
1*240	5.5	2.3	42.4	4124	2636
1*300	5.5	2.4	46.0	4815	2955
1*400	5.5	2.5	49.3	5920	3440
1*500	5.5	2.6	52.4	7414	4314
1*630	5.5	2.7	57.0	8844	4938

YJV22-12/20kV、YJLV22-12/20kV Table47

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*25	5.5	2.7	54.1	4035	3547
3*35	5.5	2.8	57.2	4211	3547
3*50	5.5	2.9	60.2	4884	3935
3*70	5.5	3.0	63.7	5741	4412
3*95	5.5	3.1	67.5	6735	4932
3*120	5.5	3.2	70.9	7769	5492
3*150	5.5	3.3	74.8	8994	6148
3*185	5.5	3.5	78.5	10306	6796
3*240	5.5	3.7	85.0	13183	8630
3*300	5.5	3.9	930	15397	9706
3*400	5.5	4.1	99.0	18837	11248

YJV72-12/20kV、YJLV72-12/20kV Table48

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*35	5.5	1.9	32.0	1951	1734
1*50	5.5	2.0	33.0	2185	1875
1*70	5.5	2.1	36.0	2749	2315
1*95	5.5	2.1	37.0	3111	2522
1*120	5.5	2.2	39.0	3465	2721
1*150	5.5	2.2	40.0	3866	2936
1*185	5.5	2.3	42.0	4316	3169
1*240	5.5	2.3	44.0	5008	3520
1*300	5.5	2.5	48.0	6239	4379
1*400	5.5	2.6	51.0	7398	4918
1*500	5.5	2.7	57.0	9074	5974
1*630	5.5	2.8	60.5	10638	6732

YJV32-12/20kV、YJLV32-12/20kV Table49

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*35	5.5	2.9	65.0	6035	5371
3*50	5.5	3.0	68.0	6781	5833
3*70	5.5	3.1	72.0	7736	6408
3*95	5.5	3.2	76.0	8873	7071
3*120	5.5	3.4	80.0	10901	8625
3*150	5.5	3.5	83.0	12268	9422
3*185	5.5	3.6	87.0	13773	10263
3*240	5.5	3.8	94.0	16033	11476
3*300	5.5	3.9	96.0	18366	12674
3*400	5.5	4.2	102.0	22018	14429

YJV-18/20kV、YJLV-18/20kV、 YJV-18/30kV、YJLV-18/30kV Table50

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*50	8.0	2.0	33.0	1339	1029
1*70	8.0	2.0	34.9	1609	1175
1*95	8.0	2.1	36.5	1896	1307
1*120	8.0	2.1	38.1	2199	1455
1*150	8.0	2.2	40.1	2526	1596
1*185	8.0	2.2	41.5	2955	1808
1*240	8.0	2.3	43.7	3566	2078
1*300	8.0	2.4	46.1	4199	2339
1*400	8.0	2.5	49.4	5236	2756
1*500	8.0	2.6	52.6	6594	3494
1*630	8.0	2.7	56.0	7955	4049

YJV62-18/20kV、YJLV62-18/20kV、 YJV62-18/30kV、YJLV62-18/30kV Table51

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62*	YJLV62*
1*50	8.0	2.1	38.3	1791	1481
1*70	8.0	2.2	40.0	2454	2020
1*95	8.0	2.2	41.8	2777	2188
1*120	8.0	2.3	43.2	3119	2375
1*150	8.0	2.3	45.0	3502	2572
1*185	8.0	2.4	47.2	3973	2826
1*240	8.0	2.5	49.4	4643	3455
1*300	8.0	2.5	51.8	5355	3495
1*400	8.0	2.6	55.1	6466	3986
1*500	8.0	2.7	58.7	7971	4871
1*630	8.0	2.9	62.0	9462	5556

YJV-18/20kV、YJLV-18/20kV、 YJV-18/30kV、YJLV-18/30kV Table52

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*50	8.0	3.1	67.0	4187	3238
3*70	8.0	3.2	71.0	4988	3660
3*95	8.0	3.3	74.0	5902	4100
3*120	8.0	3.5	78.0	6820	4543
3*150	8.0	3.6	81.0	7862	5016
3*185	8.0	3.7	85.0	9071	5561
3*240	8.0	3.8	90.0	10965	6412
3*300	8.0	4.0	95.0	12948	7256
3*400	8.0	4.2	102.0	16200	8611

YJV22-18/20kV、YJLV22-18/20kV YJV22-18/30kV、YJLV22-18/30kV Table53

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*50	8.0	3.3	73.0	5985	5037
3*70	8.0	3.4	77.0	6886	5558
3*95	8.0	3.5	81.0	7928	6125
3*120	8.0	3.7	86.0	9849	7572
3*150	8.0	3.8	89.0	11011	8165
3*185	8.0	3.9	93.0	12401	8891
3*240	8.0	4.1	98.0	14543	9989
3*300	8.0	4.2	103.0	16766	11074
3*400	8.0	4.5	110.0	20322	12733

YJV72-18/20kV、YJLV72-18/20kV、YJV72-18/30kV、YJLV72-18/30kV Table54

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*50	8.0	2.2	39.0	2923	2613
1*70	8.0	2.2	41.0	3267	2833
1*95	8.0	2.3	43.0	3634	3045
1*120	8.0	2.3	44.0	3983	3239
1*150	8.0	2.4	47.0	4844	3914
1*185	8.0	2.5	49.0	5368	4221
1*240	8.0	2.6	51.0	6121	4633
1*300	8.0	2.6	54.0	6912	5052
1*400	8.0	2.8	57.0	8096	5616
1*500	8.0	2.8	63.0	9784	6684
1*630	8.0	3.0	65.5	11410	7504

YJV32-18/20kV、YJLV32-18/20kV YJV32-18/30kV、YJLV32-18/30kV Table55

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*50	8.0	3.4	78.0	9121	8172
3*70	8.0	3.5	82.0	10215	8887
3*95	8.0	3.7	85.0	11428	9626
3*120	8.0	3.8	89.0	12611	10334
3*150	8.0	3.9	92.0	13881	11036
3*185	8.0	4.0	96.0	15426	11916
3*240	8.0	4.2	102.0	17746	13193
3*300	8.0	4.3	107.0	20088	14396
3*400	8.0	4.6	114.0	23857	16269

YJV-21/35kV、YJLV-21/35kV Table56

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*50	9.3	2.1	36.4	1586	1295
1*70	9.3	2.1	38.0	1878	1458
1*95	9.3	2.2	39.8	2192	1608
1*120	9.3	2.2	41.3	2500	1764
1*150	9.3	2.3	43.1	2818	1910
1*185	9.3	2.3	44.7	3252	2115
1*240	9.3	2.4	47.1	3906	2413
1*300	9.3	2.5	49.5	4567	2693
1*400	9.3	2.6	52.8	5479	3082
1*500	9.3	2.7	56.0	6691	3611
1*630	9.3	2.9	63.0	8199	4216

YJV62-21/35kV、YJLV62-21/35kV Table57

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62*	YJLV62*
1*50	9.3	2.2	41.1	2364	2054
1*70	9.3	2.3	42.8	2686	2252
1*95	9.3	2.3	44.6	3038	2449
1*120	9.3	2.4	46.4	3388	2644
1*150	9.3	2.4	48.2	3756	2826
1*185	9.3	2.5	49.8	4237	3090
1*240	9.3	2.6	52.2	4943	3455
1*300	9.3	2.6	54.6	5641	3781
1*400	9.3	2.7	58.3	6792	4312
1*500	9.3	2.8	61.5	8273	5173
1*630	9.3	3.0	65.0	9756	5850

YJV-21/35kV、YJLV-21/35kV Table58

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*50	9.3	3.3	76.0	5458	4885
3*70	9.3	3.4	80.0	6433	5567
3*95	9.3	3.5	83.0	7501	6298
3*120	9.3	3.6	87.0	8482	7286
3*150	9.3	3.7	90.0	9564	7692
3*185	9.3	3.8	94.0	10985	8643
3*240	9.3	4.0	99.0	13083	10008
3*300	9.3	4.1	104.0	15321	11460
3*400	9.3	4.4	111.0	18321	13383

YJV22-21/35kV、YJLV22-21/35kV Table59

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*50	9.3	3.5	83.0	9625	8786
3*70	9.3	3.6	88.0	10815	9569
3*95	9.3	3.8	91.0	12116	10372
3*120	9.3	3.9	95.0	13306	11111
3*150	9.3	4.0	98.0	14549	11830
3*185	9.3	4.1	102.0	16182	12765
3*240	9.3	4.3	108.0	18657	14153
3*300	9.3	4.4	113.0	21218	15532
3*400	9.3	4.7	120.0	24602	17338

YJV72-21/35kV、YJLV72-21/35kV Table60

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*50	9.3	2.2	44.0	3266	2975
1*70	9.3	2.2	47.0	4072	3652
1*95	9.3	2.3	49.0	4498	3914
1*120	9.3	2.3	50.0	4877	4141
1*150	9.3	2.4	52.0	5327	4419
1*185	9.3	2.4	54.0	5834	4697
1*240	9.3	2.5	56.0	6628	5135
1*300	9.3	2.6	59.0	7473	5599
1*400	9.3	2.7	62.0	8530	6133
1*500	9.3	2.8	68.0	10145	7065
1*630	9.3	3.2	72.0	11919	7936

YJV32-21/35kV、YJLV32-21/35kV Table61

芯数*导体标称截面 (mm ²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*50	9.3	3.5	87.0	10973	10091
3*70	9.3	3.6	91.0	12220	10752
3*95	9.3	3.8	95.0	13559	11783
3*120	9.3	3.9	98.0	14871	12643
3*150	9.3	4.0	101.0	16119	13364
3*185	9.3	4.1	105.0	17843	14392
3*240	9.3	4.3	111.0	20416	15876
3*300	9.3	4.4	113.0	22395	16704
3*400	9.3	4.7	120.0	26237	18649

YJV-26/35kV、YJLV-26/35kV Table62

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
1*50	10.5	2.1	38.4	1778	1487
1*70	10.5	2.2	40.1	2061	1641
1*95	10.5	2.2	41.9	2401	1817
1*120	10.5	2.3	43.3	2697	1960
1*150	10.5	2.3	45.1	3077	2139
1*185	10.5	2.4	46.7	3492	2355
1*240	10.5	2.5	49.1	4137	2644
1*300	10.5	2.5	51.5	4832	2958
1*400	10.5	2.7	54.8	5959	3362
1*500	10.5	2.7	59.4	6951	3871
1*630	10.5	2.9	64.0	8435	4452

YJV62-26/35kV、YJLV62-26/35kV Table63

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV62	YJLV62
1*50	10.5	2.3	43.5	2745	2435
1*70	10.5	2.3	45.4	3076	2642
1*95	10.5	2.4	47.6	3416	2827
1*120	10.5	2.4	49.0	3777	3033
1*150	10.5	2.5	50.8	4180	3250
1*185	10.5	2.5	52.4	4641	3494
1*240	10.5	2.6	54.8	5353	3865
1*300	10.5	2.7	57.6	6092	4232
1*400	10.5	2.8	60.9	7262	4782
1*500	10.5	2.9	65.2	8730	5630
1*630	10.5	3.1	70.0	10270	6364

YJV-26/35kV、YJLV-26/35kV Table64

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV	YJLV
3*50	10.5	3.5	81.0	6202	5311
3*70	10.5	3.6	85.0	7142	5856
3*95	10.5	3.7	89.0	8310	6524
3*120	10.5	3.8	92.0	9312	7059
3*150	10.5	3.9	96.0	10447	7667
3*185	10.5	4.0	99.0	11891	8413
3*240	10.5	4.2	105.0	14082	9514
3*300	10.5	4.3	110.0	16312	10576
3*400	10.5	4.6	116.0	19383	12048

YJV22-26/35kV、YJLV22-26/35kV Table65

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV22	YJLV22
3*50	10.5	3.7	90.0	9691	8800
3*70	10.5	3.8	94.0	10788	9502
3*95	10.5	3.9	98.0	12107	10321
3*120	10.5	4.0	101.0	13232	10979
3*150	10.5	4.1	104.0	14560	11780
3*185	10.5	4.2	108.0	16152	12674
3*240	10.5	4.4	114.0	18664	14075
3*300	10.5	4.6	119.0	21134	15398
3*400	10.5	4.8	126.0	24515	17181

YJV72-26/35kV、YJLV72-26/35kV Table66

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV72*	YJLV72*
1*50	10.5	2.4	47.0	3960	3669
1*70	10.5	2.5	49.0	4334	3914
1*95	10.5	2.5	51.0	4767	4183
1*120	10.5	2.6	52.0	5171	4435
1*150	10.5	2.6	54.0	5613	4705
1*185	10.5	2.7	56.0	6125	4988
1*240	10.5	2.7	58.0	6953	5460
1*300	10.5	2.8	61.0	7786	5912
1*400	10.5	2.9	64.0	8880	6693
1*500	10.5	3.0	70.0	10322	7242
1*630	10.5	3.2	74.0	12099	8116

YJV32-26/35kV、YJLV32-26/35kV Table67

芯数*导体标称截面 (mm²) Core no. * nominal cross section area of conductor	绝缘厚度 (mm) Insulation thickness	护套标称厚度 (mm) Sheath thickness	电缆近似外径 (mm) Approximate outer diameter of cable	电缆近似重量 (kg/km) Approximate weight of cable	
				YJV32	YJLV32
3*50	10.5	3.8	91.0	12049	11158
3*70	10.5	3.9	95.0	13133	11847
3*95	10.5	4.1	99.0	14772	12985
3*120	10.5	4.2	103.0	16057	13804
3*150	10.5	4.3	106.0	17420	14640
3*185	10.5	4.4	110.0	19213	15734
3*240	10.5	4.6	115.0	20473	16131
3*300	10.5	4.7	120.0	22454	17034
3*400	10.5	5.0	127.0	26195	18969

*用于交流系统的单芯铠装电缆的铠装层应采用非磁性金属材料。

备注：以上表格电缆近似重量仅供参考，核算及验收以实际重量为准，YJY、YJY23、YJY33、YJLY、YJLY23、YJLY33与表中对应型号的外径近似，重量略轻。

The armor layer of single core armored cable used in AC system. shall be made of non-magnetic metallic material

Note: Approximate weight of cable in the above table is for reference only, and the actual weight shall prevail for accounting and acceptance. YJY、YJY23、YJY33、YJLY、YJLY23 and YJLY33 are similar to the outer diameters of the corresponding models in the table, slightly lighter in weight.

七、电缆主要技术参数

1、20℃时导体最大直流电阻值应满足GB/T3956标准中的规定：

导体标称截面 mm ² Nominal cross section area of conductor	20℃时导体最大直流电阻 Ω/km Conductor max DC resistance at 20℃			导体标称截面 mm ² Nominal cross section area of conductor	20℃时导体最大直流电阻 Ω/km Conductor max DC resistance at 20℃		
	铜芯导体 Cu conductor	镀锡导体 Tinned conductor	铝芯导体 Al conductor		铜芯导体 Cu conductor	镀锡导体 Tinned conductor	铝芯导体 Al conductor
1.5	12.1	12.2	/	95	0.193	0.195	0.320
2.5	7.41	7.56	/	120	0.153	0.154	0.253
4	4.61	4.70	/	150	0.124	0.126	0.206
6	3.08	3.11	/	185	0.0991	0.100	0.164
10	1.83	1.84	3.08	240	0.0754	0.0762	0.125
16	1.15	1.16	1.91	300	0.0601	0.0607	0.100
25	0.727	0.734	1.20	400	0.0470	0.0475	0.0778
35	0.524	0.529	0.868	500	0.0366	0.0369	0.0605
50	0.387	0.391	0.641	630	0.0283	0.0286	0.0469
70	0.268	0.270	0.443	800	0.0224	0.0224	0.0367

Main Technical Parameter of Cable

The maximum DC resistance value of conductor at 20℃ shall meet the requirement of stipulated in GB/T3956 standard.

2、工频交流耐压试验；

Power Frequency AC voltage withstand test

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	18/20 18/30	21/35	26/35
试验电压 kV Test voltage kV	3.5	6.5	12.5	21	30.5	42	63	73.5	91
试验条件：环境温度下，5min。 Testing condition: under environment temperature for 5min. 试验要求：绝缘应无击穿。 Testing requirement: insulation without puncture.									

3、局部放电量应在1.73U₀电压下测量局部放电量，其数值应不高于以下规定：

Partial discharging capacity shall be tested at the voltage of 1.73U₀, and its value shall be no more than that stipulated in the following table:

额定电压 kV Rated voltage	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20	18/30	21/35	26/35
放电量 pC Partial discharging capacity	10							

- 4、90℃绝缘电阻常数不小于3.67MΩ.km；
5、无卤低烟阻燃性能指标：

Insulated resistance constant is no less than 3.67MΩ.km at 90℃.
Performance target of no halogen, low smoke and flame retardant.

试验项目 Test item	单位 Unit	性能要求 Performance requirement	试验方法 Test method
烟密度试验 Smoke density test 最小透光率 Min.light transmittance	%	60	GB/T17651
腐蚀性试验 Corrosive test 最小PH值 Min. PH value 电导率最大值 Max.conductivity	/ μS/mm	4.3 10	GB/T17650.2 (IEC60754)
卤化氢气体含量 Hydrogen halide gas content	mg/g	≤5	GB/T17650.1 (IEC60754)
成束试验 Bundle burning test	-	-	GB/T18380
试验级别 Test class	-	A、B、C	
供火时间 Time for fire	min	40、40、20	
每米可燃物总体积 Total volume of combustible per meter	L/m	7、3.5、1.5	
炭化高度 Carboniaed height	m	2.5、2.5、2.5	

6、电缆载流量（参考值）

Current-loading Capacity of Cable (Reference value)

不同土壤热阻系数的载流量修正系数

Current-loading capacity correcting coefficient under different heat-resistant coefficient of different soil

电压 kV Voltage	土壤热阻系数 K.m/W Soil heat-resitant coefficient			
	0.8	1.0	1.2	1.5
0.6/1~6/6	1.08	1.0	0.95	0.77
6/10~8.7/15	1.06	1.0	0.94	0.78
12/20~26/35	1.06	1.0	0.94	0.80

环境温度不同时（土壤中）的载流量修正系数表

Current-loading capacity correcting coefficient under different environment temperature (In the soil)

工作温度℃ Working temperature	环境温度（℃）（土壤中） Environment temperature(In Soil)					
90℃	10	15	20	25	30	35
修正系数 Correcting coefficient	1.11	1.07	1.04	1.00	0.96	0.92

环境温度不同时（空气中）的载流量修正系数表

Current-loading capacity correcting coefficient under different environment temperature (In the air)

工作温度℃ Working temperature	环境温度（℃）（空气中） Environment temperature(℃) (In the Air)							
90℃	20	25	30	35	40	45	50	55
修正系数 Correcting coefficient	1.23	1.17	1.12	1.06	1.00	0.94	0.87	0.81

6.1 低压交联电力电缆 (0.6/1kV)

Low voltage XLPE Power Cable (0.6/1kV)

XLPE绝缘电缆载流量 (空气中)
Current-loading capacity of XLPE insulation cable (in the air)

型号 Type	YJV YJLV YJY YJLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
芯数 Cores	单芯 Single core				两芯 Two cores		三芯 Three cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
2.5	31	24	41	32	33	25	28	22
4	41	32	54	42	43	34	37	29
6	52	42	68	56	55	45	47	39
10	71	55	93	72	76	58	65	50
16	92	71	120	93	97	75	84	65
25	120	94	155	120	130	100	110	87
35	150	115	195	150	160	120	135	105
50	180	140	235	180	195	150	170	130
70	230	180	295	230	245	190	215	165
95	285	220	370	285	305	235	265	205
120	335	260	430	330	355	275	310	240
150	385	300	495	380	405	315	350	270
185	450	350	570	445	465	365	405	315
240	535	414	680	530	/	/	480	375
300	620	485	790	615	/	/	555	435
400	720	570	920	720	/	/	640	510
500	835	670	1080	850	/	/	/	/
630	960	790	1260	1000	/	/	/	/
工作温度 Working temperature				90℃				
环境温度 Environment temperature				40℃				

备注：
1) 三角形排列时电缆彼此相互接触。
2) 平面排列时电缆中心间距为2倍的电缆外径。
3) 单根电缆分离敷设（即临近电缆对该电缆没有效应）。
4) 指电缆周围环境的土壤，或者说指电缆周围土壤发生水分迁移前的土壤。
5) 发生水分迁移时，当电缆周围土壤呈现干燥域时，应按该栏目下选择载流量。根据土壤类型不同土壤热阻系数大致分为：一般性土壤取2.0，沙（砂）质土壤取2.5，粘土取3.0（K.m/W）。
6) 试验表明：
YJV32, YJV33, YJV42, YJV43, YJLV32, YJLV33, YJLV42, YJLV43单 芯 钢丝铠装电缆应按本表相应规格下的载流量70%-60%（载流量下降率随着导体截面增加呈递减趋势选取）。

Note:
1) The cables are in contact with each other when arranged in triangles.
2) When the cables are arranged in a plane, the distance between the center of the cables is twice the outer diameter of the cables
3) Separate laying of single cable (i.e. adjacent cable has no effect on the cable)
4) Refers to the soil around the cable, or refers to the soil around the cable before water migration occurs.
5) Water migration occurs. When the soil around the cable presents dry alkali, the carrying capacity should be selected under this column. According to different soil types, soil thermal resistance coefficient can be roughly divided into: general soil 2.0, sandy (sandy) soil 2.5, clay 3.0 (K.m/W).
6) The test shows that:
YJV32, YJV33, YJV42, YJV43, YJLV32, YJLV33, YJLV42, YJLV43 single core steel wire armored cable should have a capacity of 70%-60% according to the corresponding specifications in this table (the rate of capacity decline is selected in a decreasing trend with the increase of conductor cross section).

XLPE绝缘电缆载流量 (土壤中)
Current-loading capacity of XLPE insulation cable (in the soil)

型号 Type	YJV YJLV YJY YJLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
排列 Array	三根单芯电缆呈三角形排列 The three single-core cables are arranged in a triangle				间距 s=1×De Spacing		 ¹⁾	
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil		土壤周围呈现干燥域 ⁵⁾ There is dry field around the cable					
	1.0		2.0		2.5		3.0	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
2.5	42	33	39	30	38	29	37	29
4	55	43	50	39	49	38	48	37
6	69	56	62	50	60	49	59	48
10	92	71	82	63	80	61	78	60
16	115	91	105	81	100	78	99	76
25	150	115	135	105	130	100	125	98
35	180	140	160	125	155	120	150	115
50	215	165	190	145	180	140	175	135
70	265	205	230	180	225	175	215	170
95	320	245	275	215	265	205	260	200
120	360	280	315	245	305	235	295	230
150	410	315	355	275	340	265	330	255
185	460	360	400	310	385	300	375	290
240	535	420	460	360	445	345	430	335
300	605	475	520	410	500	395	485	380
400	685	545	590	470	570	450	550	435
500	775	620	665	535	640	515	620	500
630	865	705	745	605	715	585	695	565
工作温度 Working temperature				90℃				
环境温度 Environment temperature				25℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

XLPE绝缘电缆载流量（土壤中）
Current-loading capacity of XLPE insulation cable (in the soil)

型号 Type	YJV YJLV YJY YJLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
排列 Array	三根单芯电缆呈三角形排列 The three single-core cables are arranged in a triangle				间距 s=2×De spacing		 ²⁾	
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil		土壤周围呈现干燥域 ⁵⁾ There is dry field around the cable					
	1.0		2.0		2.5		3.0	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
2.5	46	36	41	32	40	31	39	30
4	59	47	53	41	51	40	50	39
6	74	60	65	53	63	52	62	50
10	98	75	86	66	83	64	81	62
16	125	97	110	85	105	82	100	80
25	160	125	140	110	135	105	130	100
35	190	150	165	130	160	125	155	120
50	230	175	195	155	190	145	185	145
70	280	215	240	185	235	180	225	175
95	335	260	290	225	280	215	270	210
120	385	295	330	255	315	245	310	240
150	430	335	370	285	355	275	345	270
185	490	380	420	325	405	315	395	305
240	570	445	490	380	470	365	455	355
300	645	505	555	430	530	415	515	400
400	735	575	630	495	605	475	585	460
500	840	665	720	565	690	545	670	530
630	950	760	820	650	785	625	760	605
工作温度 Working temperature				90℃				
环境温度 Environment temperature				25℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆
 Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

XLPE绝缘电缆载流量（土壤中）
Current-loading capacity of XLPE insulation cable (in the soil)

型号 Type	YJV YJLV YJY YJLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
排列 Array	二芯 Two cores				 ³⁾			
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil		土壤周围呈现干燥域 ⁵⁾ There is dry field around the cable					
	1.0		2.0		2.5		3.0	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
2.5	46	36	43	34	43	33	42	33

4	59	47	56	44	55	43	54	43
6	75	61	70	57	69	56	68	55
10	100	78	94	72	92	71	90	66
16	130	100	120	92	115	90	115	88
25	165	130	150	120	150	115	145	115
35	200	155	185	140	180	140	175	135
50	240	185	215	170	210	165	210	160
70	290	225	265	205	260	200	255	195
95	355	275	320	250	310	240	305	235
120	405	315	365	285	355	275	350	270
150	450	350	410	315	395	305	390	300
185	510	395	460	360	450	350	440	340
工作温度 Working temperature				90℃				
环境温度 Environment temperature				25℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

XLPE绝缘电缆载流量 (土壤中)
Current-loading capacity of XLPE insulation cable (in the soil)

型号 Type	YJV YJLV YJY YJLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
排列 Array	三~五芯 Three to five cores				○ ³⁾			
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil		土壤周围呈现干燥域 ⁵⁾ There is dry field around the cable					
	1.0		2.0		2.5		3.0	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
2.5	39	31	37	29	36	28	35	28
4	51	40	47	37	46	36	46	36
6	64	52	59	48	58	47	57	46
10	86	66	79	60	77	59	75	58
16	110	85	100	78	98	76	96	74
25	140	110	130	100	125	97	120	95
35	170	130	155	120	150	115	145	115
50	205	160	185	140	175	135	175	135
70	250	195	225	175	215	170	210	165
95	300	235	270	210	260	200	255	195
120	345	265	305	240	295	230	290	225
150	385	300	350	265	335	260	325	250
185	435	340	385	300	375	290	365	285
240	500	395	445	350	435	340	425	330
300	565	445	505	390	490	385	475	375
400	640	510	570	455	550	440	540	430
工作温度 Working temperature				90℃				
环境温度 Environment temperature				25℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.2 中压交联电力电缆 (6kV~35kV)

Middle voltage XLPE cross-linked Power Cable (6kV~35kV)

交联聚乙烯绝缘电缆载流量 (空气中)

Current-loading capacity of XLPE insulation cable (In the air)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	1.8/3kV~6/6kV									
芯数 Cores	单芯 Singe core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shielding is connected to ground	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	135	105	135	105	165	130	165	130	120	93
35	165	130	165	130	205	155	205	155	145	110
50	200	155	200	155	245	190	245	190	175	135
70	250	195	250	195	305	240	305	235	215	170
95	305	235	305	235	375	290	370	290	265	205
120	355	275	355	275	435	340	435	335	305	235
150	405	315	405	315	495	385	485	380	345	270
185	465	360	465	360	575	445	555	435	400	310
240	550	430	550	430	675	525	645	510	470	365
300	635	495	630	495	785	610	735	585	535	420
400	745	585	735	580	910	715	840	680	620	495
500	855	685	840	675	1080	840	950	780	-	-
630	980	800	960	785	1240	990	1060	885	-	-
800	1130	930	1100	910	1440	1160	1170	1000	-	-
工作温度 Working temperature				90℃						
环境温度 Environment temperature				40℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量 (空气中)

Current-loading capacity of XLPE insulation cable (In the air)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	6/10kV~8.7/15kV									
芯数 Cores	单芯 Singe core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	140	110	140	110	170	130	170	130	120	95
35	175	135	170	135	205	160	205	160	145	115

50	205	160	205	160	245	190	245	190	175	135
70	260	200	255	200	310	240	305	240	220	170
95	315	245	315	245	380	295	370	290	265	205
120	365	285	365	280	435	340	430	335	305	235
150	415	320	410	320	495	385	485	385	350	270
185	475	370	470	370	570	440	550	430	395	310
240	565	440	560	435	680	530	645	510	470	370
300	645	505	640	500	780	605	730	580	535	420
400	750	590	740	585	910	715	840	675	610	485
500	865	690	850	680	1060	835	940	770	-	-
630	990	800	960	785	1230	930	1050	875	-	-
800	1140	940	1110	920	1440	1160	1170	1000	-	-
工作温度 Working temperature					90℃					
环境温度 Environment temperature					40℃					

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量 (空气中)
Current-loading capacity of XLPE insulation cable (In the air)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	18/20kV									
芯数 Cores	单芯 Singe core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to ground	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	145	110	145	110	170	130	170	130	120	96
35	175	135	170	135	205	160	205	160	150	115
50	210	160	210	160	245	190	245	190	175	135
70	260	200	260	200	310	240	305	240	220	170
95	320	245	320	245	380	295	370	290	265	205
120	370	285	365	285	440	340	430	335	305	235
150	420	325	415	325	500	385	485	380	350	270
185	480	375	475	370	570	445	555	435	395	310
240	565	440	560	440	675	525	645	510	465	365
300	650	510	645	505	780	610	735	580	530	415
400	755	595	745	590	910	710	835	675	615	485
500	865	690	850	685	1050	825	930	765	-	-
630	1000	810	980	795	1230	970	1050	880	-	-
800	1140	940	1110	920	1420	1140	1160	990	-	-
工作温度 Working temperature				90℃						
环境温度 Environment temperature				40℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量 (空气中) Current-loading capacity of XLPE insulation cable (In the air)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	18/30kV~26/35kV									
芯数 Cores	单芯 Singe core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	150	115	150	115	170	130	170	130	125	98
35	180	140	180	140	205	160	205	160	150	115
50	215	170	215	170	250	190	245	190	180	140
70	270	210	270	210	305	240	305	235	220	170
95	330	255	325	255	375	290	370	290	265	205
120	380	295	375	295	435	335	425	330	305	235
150	430	330	425	330	490	380	475	375	345	270
185	490	380	485	380	565	435	540	425	390	305
240	575	450	570	445	665	520	630	500	455	355
300	660	515	650	510	760	590	710	570	525	410
400	765	600	755	595	890	695	810	655	600	470
500	875	695	860	685	1030	810	910	750	-	-
630	1010	810	980	800	1200	950	1020	855	-	-
800	1150	940	1120	920	1380	1110	1130	960	-	-
工作温度 Working temperature				90℃						
环境温度 Environment temperature				40℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

XLPE绝缘电缆载流量 (土壤中)
Current-loading capacity of XLPE insulation cable (In the soil)

型号 Type	YJV YJY ⁶⁾							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
排列 Array	三根单芯电缆呈三角形排列 The three single-core cables are arranged in a triangle				间距 s=1×De spacing		 ¹⁾	
电压等级 Voltage	1.8/3kV~6/6kV		6/10kV~8.7/15kV		18/20kV		18/30kV~26/35kV	
截面 mm ² Nominal cross-section area	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu
	载流量 (A) Current-loading capacity (A)							
25	190	190	190	190	185	180	185	180
35	230	230	225	225	225	225	220	220
50	275	275	270	270	270	270	260	260
70	335	335	335	335	330	330	320	320
95	400	405	405	405	400	400	390	390

120	465	465	460	460	460	460	445	445
150	525	525	520	520	520	520	500	500
185	600	595	585	585	585	585	570	565
240	695	690	690	685	680	675	665	660
300	785	780	775	770	775	770	750	740
400	895	885	890	880	885	875	865	850
500	1010	1000	1010	990	1000	980	980	960
630	1140	1110	1130	1110	1140	1110	1110	1080
800	1270	1230	1270	1230	1270	1230	1250	1210
工作温度 Working temperature					90℃			
环境温度 Environment temperature					25℃			

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

XLPE绝缘电缆载流量（土壤中）

Current-loading capacity of XLPE insulation cable (In the soil)

型号 Type	YJLV YJLY ⁶⁾							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
排列 Array	三根单芯电缆呈三角形排列 The three single-core cables are arranged in a triangle				间距 $s=1 \times D_e$ spacing		 ¹⁾	
电压等级 Voltage	1.8/3kV~6/6kV		6/10kV~8.7/15kV		18/20kV		18/30kV~26/35kV	
金属屏蔽互联接地 Metal shieding is connected to ground	一端 One end	二端 Two end	一端 One end	二端 Two end	一端 One end	二端 Two end	一端 One end	二端 Two end
截面 mm ² Nominal cross-section area	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al
载流量 (A) Current-loading capacity (A)								
25	145	145	145	145	145	145	140	140
35	175	175	175	175	175	175	170	170
50	210	210	210	210	210	210	200	200
70	260	260	260	260	255	255	250	250
95	315	315	315	310	310	310	300	300
120	360	360	360	360	345	345	345	345
150	410	410	405	400	400	400	395	385
185	465	465	455	455	455	455	440	440
240	540	540	535	530	530	530	515	515
300	615	610	605	605	605	605	585	580
400	705	700	705	690	700	690	680	670
500	810	800	805	795	795	790	775	770
630	920	910	920	900	920	900	895	880
800	1050	1020	1050	1030	1040	1020	1020	990
工作温度 Working temperature					90℃			
环境温度 Environment temperature					25℃			

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

XLPE绝缘电缆载流量（土壤中） Current-loading capacity of XLPE insulation cable (In the soil)

型号 Type	YJV YJY ⁶⁾							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
排列 Array	三根单芯电缆呈平面排列 ²⁾ The three single-core cables are arranged in a plane				间距 $s=2 \times D_e$ spacing		 ²⁾	
电压等级 Voltage	1.8/3kV~6/6kV		6/10kV~8.7/15kV		18/20kV		18/30kV~26/35kV	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end	二端 Two end	一端 One end	二端 Two end	一端 One end	二端 Two end	一端 One end	二端 Two end
截面 mm ² Nominal cross-section area	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu	铜 Cu
	载流量 (A) Current-loading capacity (A)							
25	160	160	160	160	160	160	160	160
35	195	195	195	190	190	190	190	190
50	230	230	230	225	230	225	225	225
70	280	280	280	275	280	275	275	275
95	335	330	335	330	335	330	335	330
120	385	375	385	375	385	375	380	375
150	430	420	430	420	430	420	425	415
185	485	475	485	470	490	470	485	465
240	565	545	565	540	565	540	565	535
300	640	610	640	605	640	605	635	595
400	735	685	735	680	735	680	730	670
500	840	760	840	755	835	755	830	740
630	950	840	950	835	960	835	950	820
800	1080	910	1080	910	1080	900	1080	890
工作温度 Working temperature				90℃				
环境温度 Environment temperature				25℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

**XLPE绝缘电缆载流量（土壤中）
Current-loading capacity of XLPE insulation cable (In the soil)**

型号 Type	YJV YJLV YJY YJLY ⁶⁾							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
芯数 Cores	三芯 Three cores						 ³⁾	
电压等级 Voltage	1.8/3kV~6/6kV		6/10kV~8.7/15kV		18/20kV		18/30kV~26/35kV	
截面 mm ² Nominal cross-section area	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al	铝 Al
	载流量 (A) Current-loading capacity (A)							
25	135	105	135	105	135	105	135	105
35	165	125	165	125	160	125	160	125
50	195	150	190	150	190	150	190	145
70	240	185	240	185	235	185	230	180

95	290	225	285	220	285	220	275	215
120	325	255	320	250	320	250	315	245
150	370	285	365	280	365	285	355	275
185	415	325	410	320	410	320	400	310
240	485	380	480	375	475	370	460	360
300	540	425	540	425	535	420	520	410
400	620	490	610	485	605	480	590	465
工作温度 Working temperature				90℃				
环境温度 Environment temperature				25℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.3 多芯钢带铠装电缆载流量

Current carrying capacity of multi-core steel tape armored cable

XLPE绝缘电缆载流量 (空气中)
Current-loading capacity of XLPE insulation cable (In the air)

型号 Type	YJV22 YJLV22 YJY22 YJLY22 ⁶⁾							
电压等级 Voltage	0.6/1kV				1.8/3kV~8.7/10kV		8.7/15kV~26/35kV	
芯数 Cores	二芯 Two cores		三~五芯 Three to five cores		三芯 Three cores		三芯 Three cores	
排列 Array	○ ³⁾		○ ³⁾		○ ³⁾		○ ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	75	58	64	50	-	-	-	-
16	97	75	83	64	-	-	-	-
25	125	100	110	86	-	-	-	-
35	155	120	135	105	145	110	150	115
50	190	145	165	125	170	130	180	140
70	245	190	210	165	210	165	220	170
95	300	235	260	200	265	200	265	205
120	350	270	305	235	300	235	310	240
150	400	310	345	270	340	265	350	270
185	460	355	395	310	390	305	400	310
240	-	-	465	365	455	355	465	360
300	-	-	535	420	520	410	535	420
400	-	-	620	495	600	475	615	485
工作温度 Working temperature				90℃				
环境温度 Environment temperature				40℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

XLPE绝缘电缆载流量（土壤中）

Current-loading capacity of XLPE insulation cable (In the soil)

型号 Type	YJV22 YJLV22 YJY22 YJLY22 ⁶⁾											
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil											
	1.0											
排列 Array												
芯数 Cores	二芯 Two cores		三~五芯 Three to five cores		三芯 Three cores		三芯 Three cores		三芯 Three cores		三芯 Three cores	
电压等级 Voltage	0.6/1kV				1.8/3~6/6kV		6/10~8.7/15kV		18/20kV		18/30~26/35kV	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)											
2.5	45	35	35	30	-	-	-	-	-	-	-	-
4	59	47	50	40	-	-	-	-	-	-	-	-
6	74	61	60	50	-	-	-	-	-	-	-	-
10	100	77	85	65	-	-	-	-	-	-	-	-
16	135	105	110	85	-	-	-	-	-	-	-	-
25	165	130	140	110	140	105	135	105	135	105	135	105
35	200	155	170	130	165	125	165	125	160	125	160	125
50	240	185	200	155	195	150	190	150	190	150	190	145
70	295	230	245	190	240	185	240	185	235	185	230	180
95	355	275	300	230	285	220	285	220	285	220	275	215
120	405	315	335	260	325	255	320	250	320	250	315	245
150	455	355	380	295	370	285	365	280	365	285	355	275
185	515	400	430	335	415	325	410	320	410	320	400	310
240	-	-	500	390	480	375	480	375	475	370	460	360
300	-	-	565	440	545	425	540	425	535	420	520	410
400	-	-	650	505	615	485	610	485	605	480	590	465
工作温度 Working temperature						90℃						
环境温度 Environment temperature						25℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.4 非铠装电缆——空气管道中电缆载流量

Un-armored cable—Current-loading capacity in the air duct

交联聚乙烯绝缘电缆载流量（空气管道中）
Current-loading capacity of XLPE insulation cable (In the air duct)

型号 Type	YJV YJLV YJY YJLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
芯数 Cores	单芯 One core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
2.5	28	22	31	24	24	19	21	16
4	36	29	41	32	32	25	27	21
6	46	38	51	42	41	33	34	28
10	62	48	69	53	55	43	47	36
16	79	61	88	60	71	55	60	47
25	105	81	115	89	94	73	80	62
35	125	100	140	110	115	90	98	76
50	155	120	170	130	140	110	120	92
95	235	185	260	200	220	170	185	145
120	275	215	300	235	255	195	215	170
150	315	245	345	265	295	225	250	190
185	365	285	400	310	335	260	290	225
240	435	340	475	365	-	-	340	265
300	505	390	550	425	-	-	390	310
400	590	460	640	500	-	-	455	360
500	690	545	750	590	-	-	-	-
630	800	640	875	695	-	-	-	-
800	930	755	1030	820	-	-	-	-
工作温度 Working temperature				90℃				
环境温度 Environment temperature				40℃				

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量（空气管道中）
Current-loading capacity of XLPE insulation cable (In the air duct)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	1.8/3kV~6/6kV									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to ground	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									

25	115	92	115	91	125	98	125	98	91	70
35	140	110	140	110	150	115	150	115	110	85
50	170	130	170	130	180	140	180	140	130	100
70	210	165	210	160	225	175	220	175	160	125
95	260	200	255	195	275	215	270	210	195	155
120	295	230	290	225	315	245	305	240	225	175
150	335	260	330	255	360	280	345	270	260	200
185	385	295	375	295	415	320	390	310	295	230
240	455	355	440	345	490	380	450	360	345	270
300	525	410	505	400	565	440	505	410	395	310
400	610	480	585	465	660	515	570	470	460	365
500	710	560	665	540	765	600	630	530	-	-
630	820	655	760	620	895	710	695	595	-	-
800	950	770	855	715	1040	835	750	655	-	-
工作温度 Working temperature				90℃						
环境温度 Environment temperature				40℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量（空气管道中）

Current-loading capacity of XLPE insulation cable (In the air duct)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	6/10kV~8.7/15kV									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	120	95	120	95	130	100	130	100	95	74
35	145	115	145	115	155	120	155	120	115	89
50	175	135	175	135	185	145	185	145	135	105
70	215	170	215	165	235	180	230	180	170	130
95	265	205	260	205	285	220	275	215	205	160
120	305	235	300	235	325	255	315	245	235	180
150	345	265	340	265	370	285	350	280	265	205
185	395	305	385	300	420	330	395	315	300	235
240	465	360	455	355	500	390	455	365	355	280
300	530	415	515	450	570	445	510	415	400	315
400	620	485	590	470	670	525	570	470	460	365
500	715	565	670	545	775	605	630	530	-	-
630	835	660	760	625	900	710	690	595	-	-
800	960	775	860	720	1050	840	750	655	-	-
工作温度 Working temperature				90℃						
环境温度 Environment temperature				40℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量（空气管道中）
Current-loading capacity of XLPE insulation cable (In the air duct)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	18/20kV									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	125	97	125	96	130	100	130	100	97	75
35	150	115	150	115	160	125	160	125	115	90
50	175	135	175	135	190	145	190	145	135	105
70	220	170	220	170	235	185	235	180	170	130
95	265	205	265	205	285	220	280	220	205	160
120	310	240	305	235	330	255	315	250	235	185
150	350	270	345	270	375	290	355	280	270	210
185	400	310	390	305	430	335	400	320	305	235
240	470	365	455	360	505	390	460	370	355	280
300	540	420	520	410	580	450	515	415	405	320
400	625	490	595	475	675	525	575	475	465	370
500	720	570	680	545	780	610	630	535	-	-
630	840	665	770	630	900	715	695	595	-	-
800	970	780	865	725	1050	840	750	660	-	-
工作温度 Working temperature				90℃						
环境温度 Environment temperature				40℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量（空气管道中）
Current-loading capacity of XLPE insulation cable (In the air duct)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	18/30kV~26/35kV									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	130	100	130	100	140	110	140	105	100	80
35	160	120	155	120	165	130	165	130	125	96
50	190	145	185	145	200	155	195	150	145	115
70	230	180	230	180	245	190	240	185	180	140
95	280	220	280	215	300	230	290	225	215	165
120	325	250	320	250	340	265	325	260	245	190
150	365	280	355	280	385	300	365	290	275	215
185	415	320	405	320	440	340	410	325	315	245
240	490	380	475	370	520	400	465	375	365	285
300	555	430	535	420	590	460	515	420	415	325
400	645	505	610	490	685	535	580	480	470	375
500	745	585	690	560	795	625	635	535	-	-
630	855	680	780	640	920	725	690	595	-	-
800	990	795	875	730	1060	850	745	660	-	-
工作温度 Working temperature				90℃						
环境温度 Environment temperature				40℃						

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.5 非铠装电缆——土壤管道中载流量

Un-armored cable—Current-loading capacity in the soil pipe

交联聚乙烯绝缘电缆载流量（土壤管道中）

Current-loading capacity of XLPE insulation cable (In the soil pipe)

型号 Type	YJV YJLV YJY YJLY ⁶⁾													
电压等级 Voltage	0.6/1kV													
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil		管道周围土壤呈现干燥域 ⁵⁾ There is dry field around the cable						自然土壤 ⁴⁾ Natural soil					
	1.0		2.0		2.5		3.0		1.0					
排列 Array	 ¹⁾		 ¹⁾						 ²⁾		 ³⁾		 ³⁾	
芯数 Cores	单芯 One core		单芯 One core						单芯 One core		二芯 Two cores		3~5芯 Three to five cores	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)													
2.5	33	26	29	23	28	22	28	21	34	27	30	23	25	19
4	43	34	37	29	36	28	35	27	44	35	38	30	32	25
6	54	44	46	38	44	36	45	35	55	45	48	39	41	33
10	72	55	61	47	59	45	57	44	73	56	65	50	55	42
16	91	71	78	60	75	58	73	56	93	72	84	65	71	55
25	115	92	100	78	97	75	94	73	120	94	110	85	92	72
35	140	110	120	94	115	90	110	87	145	110	130	100	110	87
50	170	130	145	110	135	105	135	105	170	135	160	125	135	105
70	210	160	175	135	170	130	165	125	215	165	200	155	170	130
95	250	195	215	165	205	160	200	155	260	200	245	190	205	160
120	290	225	245	190	235	180	225	175	295	230	280	220	235	185
150	330	255	280	215	265	205	260	200	340	260	320	250	270	210
185	375	290	315	245	305	235	295	230	385	300	365	285	310	240
240	440	340	370	290	355	275	345	270	455	355	-	-	365	285
300	500	390	425	330	405	315	395	305	520	405	-	-	415	325
400	575	450	485	380	465	365	450	355	600	470	-	-	480	380
500	665	525	560	445	540	425	520	410	695	550	-	-	-	-
630	760	605	645	515	615	490	600	475	805	635	-	-	-	-
800	870	705	735	595	705	570	685	555	930	740	-	-	-	-
工作温度 Working temperature			90℃											
环境温度 Environment temperature			25℃											

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

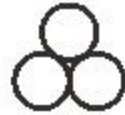
交联聚乙烯绝缘电缆载流量（土壤管道中）
Current-loading capacity of XLPE insulation cable (In the soil pipe)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	1.8/3kV~6/6kV									
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil									
	1.0									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	140	110	140	110	130	100	130	100	100	79
35	170	130	165	130	155	120	155	120	120	94
50	200	155	200	155	185	140	180	140	145	110
70	245	190	245	190	225	175	220	175	180	140
95	300	230	295	230	270	210	265	205	215	165
120	340	265	340	265	310	240	305	235	245	190
150	390	300	380	300	350	270	340	265	280	215
185	440	345	435	340	400	310	380	300	315	245
240	520	405	505	395	465	365	440	350	370	290
300	595	460	575	450	535	415	495	395	420	330
400	685	535	655	520	615	480	555	450	480	385
500	790	620	740	600	710	560	620	510	-	-
630	900	720	830	680	815	645	680	570	-	-
800	1030	835	920	775	940	750	735	635	-	-
工作温度 Working temperature					90℃					
环境温度 Environment temperature					25℃					

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量（土壤管道中）
Current-loading capacity of XLPE insulation cable (In the soil pipe)

型号 Type	YJV YJLV YJY YJLY ⁶⁾				
电压等级 Voltage	6/10kV~8.7/15kV				
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil 1.0				
芯数 Cores	单芯 One core				三芯 Three cores
排列 Array	 ¹⁾		 ²⁾		
金属屏蔽互联接地 Metal shieding is connected to ground	一端 One end	二端 Two end	一端 One end	二端 Two end	 ³⁾

截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	145	110	140	110	130	100	130	100	105	81
35	170	135	170	135	160	120	155	120	125	97
50	205	160	205	160	185	145	185	145	150	115
70	250	195	250	195	230	180	225	175	185	140
95	305	235	300	235	275	215	270	210	220	170
120	350	270	345	270	315	245	310	240	250	195
150	395	305	390	300	355	275	345	270	285	220
185	450	350	440	345	405	315	390	305	320	250
240	525	410	510	405	475	370	445	355	375	295
300	600	465	575	455	540	420	495	400	425	335
400	690	540	660	525	625	485	560	455	485	385
500	795	625	745	600	715	565	620	510	-	-
630	910	725	835	685	825	650	680	575	-	-
800	1040	840	930	780	950	755	740	635	-	-
工作温度 Working temperature			90℃							
环境温度 Environment temperature			25℃							

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量 (土壤管道中)
Current-loading capacity of XLPE insulation cable (In the soil pipe)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	6/10kV~8.7/15kV									
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil									
	1.0									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	145	110	140	110	130	100	130	100	105	81
35	170	135	170	135	160	120	155	120	125	97
50	205	160	205	160	185	145	185	145	150	115
70	250	195	250	195	230	180	225	175	185	140
95	305	235	300	235	275	215	270	210	220	170
120	350	270	345	270	315	245	310	240	250	195
150	395	305	390	300	355	275	345	270	285	220
185	450	350	440	345	405	315	390	305	320	250
240	525	410	510	405	475	370	445	355	375	295
300	600	465	575	455	540	420	495	400	425	335
400	690	540	660	525	625	485	560	455	485	385

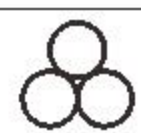
500	795	625	745	600	715	565	620	510	-	-
630	910	725	835	685	825	650	680	575	-	-
800	1040	840	930	780	950	755	740	635	-	-
工作温度 Working temperature			90℃							
环境温度 Environment temperature			25℃							

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量（土壤管道中）

Current-loading capacity of XLPE insulation cable (In the soil pipe)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	18/20kV									
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil 1.0									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to groud	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	145	110	145	110	135	105	130	105	105	82
35	175	135	175	135	160	125	160	125	125	99
50	205	160	205	160	190	145	185	145	150	115
70	255	195	255	195	230	180	230	180	185	145
95	305	240	305	235	280	215	275	215	220	170
120	350	275	350	270	320	250	315	245	255	195
150	400	310	390	305	360	280	350	275	285	225
185	455	350	445	345	410	320	390	310	325	250
240	530	410	515	405	480	370	450	355	375	295
300	605	470	585	460	545	425	500	400	425	335
400	695	545	660	525	625	490	560	455	485	385
500	795	630	745	600	720	565	620	510	-	-
630	910	730	840	690	830	655	680	575	-	-
800	1050	845	930	780	950	760	735	635	-	-
工作温度 Working temperature	90℃									
环境温度 Environment temperature	25℃									

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

交联聚乙烯绝缘电缆载流量 (土壤管道中)
Current-loading capacity of XLPE insulation cable (In the soil pipe)

型号 Type	YJV YJLV YJY YJLY ⁶⁾									
电压等级 Voltage	18/30kV~26/35kV									
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil									
	1.0									
芯数 Cores	单芯 One core								三芯 Three cores	
排列 Array	 ¹⁾				 ²⁾				 ³⁾	
金属屏蔽互联接地 Metal shieding is connected to ground	一端 One end		二端 Two end		一端 One end		二端 Two end			
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)									
25	150	115	150	115	140	105	140	105	110	87
35	180	140	180	140	165	130	165	130	135	105
50	215	165	210	165	195	150	195	150	155	120
70	260	205	260	200	240	185	235	185	190	150
95	315	245	315	245	290	225	280	220	230	180
120	360	280	355	280	330	255	320	250	260	205
150	405	315	400	310	370	285	355	280	295	230
185	460	360	450	355	420	325	400	315	330	255
240	540	420	520	410	490	380	455	365	380	300
300	615	475	590	465	560	435	505	405	435	340
400	705	555	670	535	640	500	565	460	490	390
500	810	640	750	610	735	580	620	520	-	-
630	930	735	840	690	845	665	680	590	-	-
800	1060	845	930	780	960	770	735	660	-	-
工作温度 Working temperature			90℃							
环境温度 Environment temperature			25℃							

注1、2、3、4、5、6同4.1条0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

0.6/1kV及以下聚氯乙烯绝缘电力电缆

Power cable with PVC insulation for rated voltage of 0.6/1kV or Lower

本产品适用于交流额定电压0.6/1kV及以下的电力线路中作输送电能用。其中五芯电力电缆是为适应配电系统的发展和安全性需要，将低压配电系统工程的中性与零线分开，使系统运行更趋稳定，保障了操作人员的安全性。

一、生产执行标准

GB/T12706.1-2020，也可按照用户需要，采用国际电工委员会IEC60502生产。

二、使用特点

- 1、电缆导体长期允许工作温度不超过70℃；
- 2、短路时（最长持续时间不超过5秒），电缆导体截面积 $\leq 300\text{mm}^2$ ，最高温度不超过160℃；导体截面积 $> 300\text{mm}^2$ ，最高温度不超过140℃。
- 3、敷设电缆时的环境温度应不低于0℃。

三、产品型号中各字母代表意义

- 1.材料代号
- | | |
|------------|----|
| 第1种和第2种铜导体 | 省略 |
| 第5种铜导体 | R |
| 铝导体 | L |
| 聚氯乙烯 | V |
| 聚乙烯 | Y |
- 2、结构特征代号
- | | |
|-------------|---|
| 双钢带铠装 | 2 |
| 细圆钢丝铠装 | 3 |
| 粗圆钢丝铠装 | 4 |
| （双）非磁性金属带铠装 | 6 |
| 非磁性金属丝铠装 | 7 |
| 聚氯乙烯外护套 | 2 |
| 聚乙烯外护套 | 3 |

四、电缆基本型号名称

型号 Type		名称 Description	适用场合 Application
铜 Cu	铝 Al		
VV	VLV	铜（铝）芯聚氯乙烯绝缘聚氯乙烯护套电力电缆 Power cable with copper / AL conductor, PVC insulation and sheath	敷设在室内、隧道、电缆沟及管道中，电缆不能承受机械外力作用。 To be laid indoors, in the tunnel, cable furrow or pipe. The cable can not bear mechanical force from outside.

The cable is used to transmit power on the A.C.0.6/1KV or below power transmission line. The five cores power cable is designed to separate the neutral and lines of low-voltage distribution system in order to meet the needs of the development and safety of the distribution system,so that the operation of the system is more stable and the safety of the operator is ensured.

Executive standard

GB/T12706.1-2020,We can also produce cables according to the requirement of the customer or IEC60502 standard.

Working Condition

- 1.Long-term allowable working temperature of cable conductor allowed shall be no more than 70℃.
- 2.Short circuit(the longest duration is no more than 5 second),conductor cross-sectional area $\leq 300\text{mm}^2$,the highest temperature is no more than 160℃.Conductor cross-sectional ares $> 300\text{mm}^2$,maximum temperature does not exceed 140℃.
- 3.Environment temperature for installation shall be no less than 0℃.

The meaning of each letter in the product model

- 1.Material Code
- | | |
|-------------------------------|---------|
| Class 1 and Class 2 conductor | Omitted |
| Class 5 conductor | R |
| Aluminium | L |
| PVC | V |
| PE | Y |
- 2.Structure Code
- | | |
|---|---|
| Double steel tape armor | 2 |
| round steel wire armor | 3 |
| Thick round steel wire armor | 4 |
| (Double) non-magnetic metallic tape armor | 6 |
| non-magnetic metallic wire armor | 7 |
| PVC Outer sheath | 2 |
| PE Outer sheath | 3 |

Type, Description and Application occasion

VV22	VLV22	铜（铝）芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Power cable with copper / AL conductor PVC insulation, steel tape armored and PVC sheath	敷设在地下，电缆能承受一定机械外力作用，但不能承受大的拉力。 To be laid underground, the cable can bear certain mechanical force, but it can not bear great pulling force.
VV32	VLV32	铜（铝）芯聚氯乙烯绝缘钢丝铠装聚氯乙烯护套电力电缆 Power cable with copper / AL conductor PVC insulation, steel wire armored and PVC sheath	敷设在地下，电缆能承受一定机械外力作用，也可以承受一定的拉力。 To be laid underground, the cable can bear certain mechanical force, and also bear certain pulling force.
VV42	VLV42	铜（铝）芯聚氯乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 Power cable with copper / AL conductor, PVC insulation, thick steel wire armored, PVC sheath	敷设在地下，电缆能承受较大机械外力的场所。 To be laid underground, the cable can bear large mechanical tension.

备注：
①阻燃电缆、耐火电缆及其组合型电缆的名称和型号应按GB/T 19666的规定在上述型号的基础上编制。
②比如阻燃型电缆，在原型号前加“Z-”、“ZA-”、“ZB-”、“ZC” “ZD-”。
③耐火型电缆，在原型号前加“N-”、“ZAN-”、“ZBN-”、“ZCN” “ZDN-”。
④低烟低卤阻燃电缆，在原型号前加“DDZ-”、“DDZA-”、“DDZB-”、“DDZC” “DDZD-”。

①The names and models of flame retardant cables, fire resistant cables and their combined type cables shall be compiled on the basis of the above models according to the provisions of GB/T 19666.
②For flame-retardant cable type, add "Z-", "ZA-", "ZB-", "ZC" and "ZD-" before the original model.
③For fire-resistant cable type, add "-", "ZAN-", "ZBN-", "ZCN", "ZDN-" before the original model.
④For Low smoke and low halogen flame retardant cable type, add "DDZ-", "DDZA-", "DDZB-", "DDZC" and "DDZD-" before the original model.

五、生产范围

Production Range

型号 Type		芯数 Core Number	标称截面 mm ² Nominal cross section area
铜 Cu	铝 Al		
VV	VLV	1	1.5~800
VV22	VLV22	2	1.5~400
VV32	VLV32	3	1.5~500
		3+1	4~400
		4	2.5~300
		4+1	4~400
		3+2	4~400
		5	4~400

注：
1、本公司可根据用户需要，提供五芯结构电缆产品；
2、用于交流系统的单芯铠装电缆的铠装层应采用非磁性金属材料。

Note:1.We also produce cable with five cores according to the requirement of the customer.
2.Non-magnetic metal material should be adopted as armored layer for single core armored cable for A.C. system.

六、电缆主要技术参数

Main Technical parameter of cable

- 1、20℃时导体最大直流电阻值应满足GB/T3956标准中的导体的规定；

2、工频交流耐压试验单芯无屏蔽电缆应将其浸入水中1h，在导体和水之间施加试验电压3.5kV/5min；多芯电缆应依次在每一根绝缘导体对其余导体之间施加试验电压3.5kV/5min，绝缘均应无击穿。
- 1.The Maximum DC resistance value of conductor at 20℃ shall meet the requirement of conductor stipulated in GB/T3956 standard.

2.Power frequency AC Voltage withstand test for single core cable without shielding, impose test voltage 3.5kV/5min between conductor and water when be immersed in the water for one hour. For multi-core cable, between each insulated conductor and other conductor, impose test voltage 3.5kV/5min.

标称截面 mm ² Nominal cross section area	1.5	2.5	4	6	10	16	25	35	50
20℃时导体最大直流电阻 Ω/km The maximum DC resistance value of conductor at 20℃	12.1	7.41	4.61	3.08	1.83	1.15	0.727	0.524	0.387
标称截面 mm ² Nominal cross section area	70	95	120	150	185	240	300	400	500
20℃时导体最大直流电阻 Ω/km The maximum DC resistance value of conductor at 20℃	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366

七、电缆近似外径及近似重量（表1~表8）

Approximate outer diameter and weight of cable
(From table1 to table8)

Table 1

芯数×标称截面 mm² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable	电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable	电缆近似重量 kg/km Approximate weight of cable	
		VV	VLV		VV62*	VLV62*
1×1.5	5.8	50	/	/	/	/
1×2.5	6.2	62	47	/	/	/
1×4	7.1	81	62	/	/	/
1×6	7.6	109	73	/	/	/
1×10	8.9	160	100	12.4	364	303
1×16	9.9	229	131	13.4	453	355
1×25	11.7	334	178	15.2	574	424
1×35	12.6	436	222	16.2	696	487
1×50	14.6	605	294	18.1	920	615
1×70	16.3	779	361	19.8	1120	709
1×95	18.5	1073	492	22.0	1600	1041
1×120	20.2	1297	573	23.7	1865	1166
1×150	22.5	1607	699	26.0	2231	1351
1×185	24.8	2000	869	28.3	2732	1621
1×240	27.8	2602	1098	31.5	3471	1990
1×300	30.7	3252	1202	34.2	3644	2176
1×400	34.7	4192	1756	38.0	5790	2848
1×500	39.0	5188	2139	43.0	6364	3315
1×630	41.0	6380	2560	46.0	7653	3830
1×800	45.0	8030	2910	56.0	9030	4100

Table 2

芯数×标称截面 mm² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable	
	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV	VLV	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV22	VLV22
2×1.5	10.4	/	118	/	/	/	/	/
2×2.5	11.3	/	147	117	/	/	/	/
2×4	13.0	/	188	139	16.0	/	428	379
2×6	13.9	/	254	182	17.1	/	527	454
2×10	16.5	/	373	252	19.8	/	711	586
2×16	18.6	/	541	342	21.8	/	1057	858
2×25	22.0	/	783	473	25.3	/	1387	1076
2×35	24.2	/	1031	582	27.5	/	1723	1318
2×50	26.0	20.3	1191	601	28.8	23.6	1800	1391
2×70	30.2	22.7	1603	750	33.0	26.0	2324	1507
2×95	35.0	26.2	2124	1015	39.2	29.1	2993	1884
2×120	39.0	28.8	2630	1169	43.2	32.6	3537	2076
2×150	42.6	32.2	3146	1419	47.0	36.2	4136	2409
2×185	46.6	35.8	4109	1789	50.8	39.5	5103	2784
2×240	51.0	41.0	5240	2260	56.0	45.0	6410	3310
2×300	58.0	48.0	6530	2850	64.0	53.0	7930	4040
2×400	63.0	53.0	8300	3340	70.0	58.0	10105	4965

Table 3

芯数×标称截面 mm ² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable	
	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV	VLV	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV22	VLV22
3×1.5	10.6	/	142	/	/	/	/	/
3×2.5	11.7	/	174	128	/	/	/	/
3×4	13.6	/	236	163	16.6	/	487	412
3×6	14.7	/	325	216	17.7	/	626	517
3×10	17.4	/	488	305	20.4	/	972	789
3×16	19.7	/	718	419	22.7	/	1259	961
3×25	23.4	/	1051	587	26.4	/	1684	1188
3×35	25.8	/	1400	755	28.8	/	2153	1507
3×50	27.7	25.5	1733	820	30.7	28.5	2449	1536
3×70	32.4	28.4	2315	1036	35.2	31.7	3106	1827
3×95	37.5	32.8	3107	1371	41.7	36.7	4031	2295
3×120	41.8	35.7	3961	1631	46.0	39.6	4819	2626
3×150	45.7	40.0	4805	2064	50.1	44.0	5890	3649
3×185	50.0	44.4	5864	2488	54.6	48.6	7130	3749
3×240	57.0	49.7	7574	3188	61.6	53.9	8964	4578
3×300	62.6	54.3	9896	4130	67.2	58.7	11363	5624
3×400	70.0	62.0	12530	5100	75.0	70.0	14170	6730
3×500	79.0	71.0	15630	6340	83.0	75.0	17328	8103

Table 4

芯数×标称截面 mm ² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable	
	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV	VLV	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV22	VLV22
4×2.5	12.2	/	225	166	/	/	/	/
4×4	15.0	/	274	185	18.0	/	540	451
4×6	16.2	/	368	234	19.2	/	694	560
4×10	19.7	/	565	340	22.7	/	1070	851
4×16	22.0	/	794	460	25.0	/	1352	1017
4×25	26.0	/	1193	668	29.0	/	1904	1372
4×35	28.7	/	1502	795	31.7	/	2293	1586
4×50	30.7	30.4	1939	927	33.7	33.4	2741	1728
4×70	35.9	33.8	2648	1215	40.1	37.0	3571	2145
4×95	41.7	38.2	3588	1632	46.1	41.5	4630	2674
4×120	46.6	42.0	4300	1894	50.8	45.5	5477	3071
4×150	50.9	46.4	5379	2778	55.5	49.9	6665	3613
4×185	55.7	51.2	8074	3434	60.3	54.9	7923	4231
4×240	63.5	55.3	10497	4403	68.1	59.0	12041	5947
4×300	69.5	64.5	13080	5428	74.3	68.2	14844	7193

Table 5

芯数×标称截面 mm ² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable	
	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV	VLV	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV22	VLV22
3×4+1×2.5	14.5	/	300	210	17.5	/	481	391
3×6+1×4	16.1	/	400	262	19.1	/	597	462
3×10+1×6	18.9	/	590	364	21.9	/	827	602
3×16+1×10	21.6	/	850	488	24.6	/	1255	893
3×25+1×16	25.0	/	1255	681	28.0	/	1578	1005
3×35+1×16	27.6	/	1585	826	30.6	/	1927	1172
3×50+1×25	29.6	29.6	2066	980	32.2	32.6	2760	1673
3×70+1×50	33.9	33.2	2778	1259	36.9	36.2	3546	2045
3×95+1×50	39.1	38.0	2836	1774	43.3	42.1	4670	2607
3×120+1×70	44.0	41.5	4857	2200	48.2	45.5	5745	3087
3×150+1×70	47.2	44.6	5700	2484	51.4	48.4	6862	3646
3×185+1×95	52.3	49.7	7114	3081	56.9	54.2	8394	4361
3×240+1×120	59.4	55.9	9068	3855	64.0	60.3	10536	5278
3×300+1×150	65.2	61.6	11249	4520	69.8	66.0	13165	6145
3×400+1×185	69.5	65.0	14330	5795	73.0	70.0	15900	7350

Table 6

芯数×标称截面 mm ² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable	
	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV	VLV	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV22	VLV22
5×4	16.0	/	391	265	19.0	/	604	478
5×6	17.0	/	511	322	20.0	/	742	553
5×10	20.0	/	772	453	24.0	/	1049	730
5×16	23.0	/	1102	596	27.0	/	1416	910
5×25	27.0	/	1625	834	31.0	/	1999	1208
5×35	30.0	/	2156	1058	33.0	/	2905	1808
5×50	35.0	/	2934	1449	40.0	/	3827	2342
5×70	40.0	/	4050	1905	45.0	/	5092	2947
5×95	46.0	/	5518	2540	52.0	/	6731	3753
5×120	50.0	/	6678	2921	56.0	/	8017	4260
5×150	55.0	/	8273	3638	61.0	/	9780	5144
5×185	62.0	/	10250	4450	67.0	/	11920	6120
5×240	70.0	/	13449	5831	76.0	/	15438	7820
5×300	77.0	/	16674	7109	84.0	/	18910	9345
5×400	87.0	/	20441	8100	92.0	/	22085	10315

Table 7

芯数×标称截面 mm ² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable	
	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV	VLV	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV22	VLV22
4×4+1×2.5	15.0	/	364	247	19.0	/	604	478
4×6+1×4	17.0	/	513	336	20.0	/	742	553
4×10+1×6	20.0	/	734	441	23.0	/	1049	730
4×16+1×10	23.0	/	1038	570	26.0	/	1416	910
4×25+1×16	26.0	/	1524	790	30.0	/	1999	1208
4×35+1×16	28.0	/	1934	955	32.0	/	2905	1808
4×50+1×25	34.0	32.0	2673	1326	39.0	35.0	3827	2342
4×70+1×50	39.0	35.0	3672	1737	44.0	40.0	5092	2947
4×95+1×50	44.0	41.0	4981	2301	49.0	45.0	6731	3753
4×120+1×70	48.0	45.5	6278	2844	54.0	50.0	8017	4260
4×150+1×70	53.0	49.3	7390	3252	58.0	54.0	9780	5144
4×185+1×95	59.0	55.2	9296	4060	65.0	60.0	11920	6120
4×240+1×120	66.0	62.0	12021	5176	72.0	67.0	15438	7820
4×300+1×150	73.0	68.5	14951	6372	80.0	73.0	18910	9345
4×400+1×185	78.0	72.0	16730	8100	83.0	75.0	20263	10000

Table 8

芯数×标称截面 mm ² Core number×nominal cross section area	电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable		电缆近似外径 mm Approximate outer diameter of cable		电缆近似重量 kg/km Approximate weight of cable	
	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV	VLV	紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor	VV22	VLV22
3×4+2×2.5	15.0	/	340	233	18.0	/	541	434
3×6+2×4	16.0	/	462	298	20.0	/	685	522
3×10+2×6	19.0	/	664	397	23.0	/	924	657
3×16+2×10	22.0	/	969	748	26.0	/	1269	1061
3×25+2×16	25.0	/	1424	761	29.0	/	1767	1090
3×35+2×16	27.0	/	1726	865	31.0	/	2105	1244
3×50+2×25	32.0	/	2407	1200	37.0	/	3248	2040
3×70+2×35	37.0	35.0	3315	1589	42.0	40.0	4248	2522
3×95+2×50	42.0	40.0	4468	2087	47.0	46.0	5575	3194
3×120+2×70	46.0	45.0	5621	2509	52.0	50.0	6844	3732
3×150+2×70	50.0	49.0	6540	2901	56.0	53.0	7874	4234
3×185+2×95	56.0	55.0	8308	3637	62.0	59.5	9800	5129
3×240+2×120	63.0	62.0	10683	4610	69.0	66.0	12444	6370
3×300+2×150	69.0	68.0	13293	5700	76.0	73.0	15240	7646
3×400+2×185	77.0	75.0	16263	7965	78.0	76.0	18028	8387

八、电缆载流量 (0.6/1kV)

在空气中敷设

- 1、单芯电缆平行敷设时中心距离：185mm²及以下为电缆直径的2倍；240mm²及以上为90mm；
- 2、导电线芯最高允许工作温度：70℃，
- 3、不同敷设方式下载流量修正系数表。

环境温度不同时的载流量修正系数表

Current-loading capacity correcting coefficient under different environment temperature

导体工作温度 (°C) Working temperature	环境温度 (°C) Environment temperature(°C) (in the Air)									敷设方式 Laying method
	10	15	20	25	30	35	40	45	50	
70	1.30	1.30	1.29	1.22	1.15	1.08	1.00	0.91	0.81	空气中 In the air
	1.15	1.11	1.05	1.00	0.94	0.88	/	/	/	土壤中 In the soil

Current-loading capacity of cable

To be laid in the air

- 1.Center distance for laying single core cable in parallel 185mm² or lower: 2 times that of cable diameter.240mm² or higher 90mm.
- 2.Max.working temperature of conductive core is 70℃.
- 3.Current-loading capacity correcting coefficient table for different laying methods.

不同土壤热阻系数的载流量修正系数
Current-loading capacity correcting coefficient under different heat-resistant coefficient of different soil

电压 (kV) Voltage	土壤热阻系数 $\rho W = (K.m/W)$ Heat-resistant coefficient of soil			
	0.8	1.0	1.2	1.5
0.6/1~6/6	1.08	1.0	0.95	0.77

4、0.6/1kV铜导体PVC绝缘PVC护套阻燃或非阻燃电力
电缆载流量 0.6/1kV Cu conductor, PVC insulation, PVC sheath, flame
retardant or non-flame retardant power cable carrying capacity.

4.1 PVC绝缘电缆载流量 (空气中) Current-loading capacity of PVC insulation cable (in the air)

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
2.5	24	19	31	24	25	19	21	17
4	32	25	41	32	33	26	28	22
6	40	33	52	43	42	34	36	29
10	55	42	70	55	58	44	49	38
16	74	58	97	75	76	59	66	51
25	95	74	120	96	98	76	84	65
35	115	90	150	115	120	93	100	80
50	140	110	180	140	145	115	125	98
70	180	140	230	180	185	145	160	120
95	220	170	280	215	230	170	195	150
120	255	200	325	255	265	205	235	180
150	295	230	375	290	305	235	260	200
185	340	265	430	335	350	275	305	235
240	405	320	515	400	-	-	360	280
300	470	370	595	465	-	-	410	320
400	550	435	700	550	-	-	485	380
500	635	510	810	640	-	-	-	-
630	735	600	950	760	-	-	-	-
800	830	695	1090	880	-	-	-	-
工作温度 Working temperature								
环境温度 Environment temperatue				40℃				

备注:

1) 三角形排列时电缆彼此相互接触。

2) 平面排列时电缆中心间距为2倍的电缆外径。

3) 单根电缆分离敷设 (即临近电缆对该电缆没有效应)。

4) 指电缆周围环境的土壤, 或者说指电缆周围土壤发生水分迁移前的土壤。

5) 发生水分迁移时, 当电缆周围土壤呈现干燥域时, 应按该栏目下选择载流量。根据土壤类型不同土壤热阻系数大致分为: 一般性土壤取2.0, 沙 (砂) 质土壤取2.5, 粘土取3.0 (K.m/W)。

6) 试验表明: VV332,VV33,VLV32,VLV33型号单芯电缆应按本表相应规格下的载流量70%-60% (载流量下降率随着导体截面增加呈递减趋势选取)。

Note:1.The cables are in contact with each other when arranged in triangles.

2.When the cables are arranged in a plane, the distance between the center of the cables is twice the outer diameter of the cables

3..Separate laying of single cable (i.e. adjacent cable has no effect on the cable)

4.Refers to the soil around the cable, or refers to the soil around the cable before water migration occurs.

5)Water migration occurs. When the soil around the cable presents dry alkali, the carrying capacity should be selected under this column. According to different soil types, soil thermal resistance coefficient can be roughly divided into: general soil 2.0, sandy (sandy) soil 2.5, clay 3.0 (K.m/W)

6.The test shows that: VV332,VV33,VLV32,VLV33single core steel wire armored cable should have a capacity of 70%-60% according to the corresponding specifications in this table (the rate of capacity decline is selected in a decreasing trend with the increase of conductor cross section).

4.2 PVC绝缘电缆载流量 (土壤中)

Current-loading capacity of PVC insulation cable (in the soil)

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	81	62	84	65	84	65	72	55
16	105	82	110	85	110	85	94	73
25	130	100	135	105	140	110	120	94
35	160	120	165	125	175	135	145	110
50	185	145	195	150	205	160	175	135
70	230	180	240	185	255	195	210	165
95	275	215	290	225	305	235	255	200
120	315	245	325	255	350	270	295	230
150	350	275	370	285	390	305	330	255
185	395	310	420	325	440	345	370	290
240	460	360	485	380	-	-	425	335
300	515	405	550	430	-	-	480	375
400	585	465	630	490	-	-	555	435
500	655	530	715	565	-	-	-	-
630	740	605	820	655	-	-	-	-
800	810	675	920	740	-	-	-	-
工作温度 Working temperature				70℃				
环境温度 Environment temperatue				25℃				

注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.3 PVC绝缘电缆载流量 (空气管道中)

Current-loading capacity of PVC insulation cable (in the air duct)

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	49	37	54	42	44	34	37	29
16	66	51	73	56	58	45	49	38
25	83	65	93	72	73	56	61	48
35	100	79	110	87	89	69	75	58

50	125	95	135	105	105	84	92	71
70	155	120	170	130	135	105	115	89
95	190	145	205	160	165	130	140	110
120	215	170	240	185	195	150	170	130
150	250	195	275	210	220	170	190	145
185	290	225	315	245	255	200	220	170
240	345	265	375	290	-	-	260	205
300	395	310	435	335	-	-	300	225
400	465	365	510	395	-	-	355	280
500	540	430	590	465	-	-	-	-
630	630	505	695	550	-	-	-	-
800	720	585	800	640	-	-	-	-
工作温度 Working temperature				70℃				
环境温度 Environment temperatue				40℃				

注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.4 PVC绝缘电缆载流量（土壤管道中）

Current-loading capacity of PVC insulation cable (in the soil pipe)

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	62	47	63	48	25	20	47	36
16	81	63	83	64	33	26	62	48
25	100	80	105	82	42	34	78	61
35	120	96	125	98	56	43	95	73
50	145	115	150	115	73	57	115	89
70	180	140	185	145	93	72	140	110
95	220	170	225	175	110	87	170	135
120	250	195	255	200	135	105	200	155
150	285	220	290	225	165	130	225	175
185	325	250	335	260	205	160	260	200
240	380	295	390	305	235	185	305	240
300	430	335	450	350	270	210	350	275
400	500	390	520	410	310	240	405	320
500	570	450	600	475	-	-	-	-
630	655	525	695	550	-	-	-	-
800	740	600	790	635	-	-	-	-
工作温度 Working temperature				70℃				

环境温度 Environment temperatue	25℃
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注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.5 PVC绝缘电缆载流量（土壤管道中）

Current-loading capacity of PVC insulation cable (in the soil pipe)

型号 Type	VV22 VY22 VLV22 VLY22 ⁶⁾							
电压等级 Voltage	0.6/1kV							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil		电缆周围呈现干燥域 ⁵⁾ There is dry field around the cable					
	1.0		2.0		2.5		3.0	
芯数 Cores	三~五芯 Three to five cores							
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	70	54	-	-	-	-	-	-
16	92	71	-	-	-	-	-	-
25	115	92	-	-	-	-	-	-
35	140	110	135	105	135	105	135	105
50	175	130	165	125	160	125	160	125
70	205	160	200	155	195	150	195	150
95	250	195	240	185	240	185	235	180
120	290	225	275	215	275	210	270	210
150	325	250	310	240	305	235	305	235
185	365	285	345	270	345	265	340	265
240	420	330	400	315	395	310	395	305
300	475	370	455	355	450	350	445	350
400	540	430	515	410	510	405	505	400
工作温度 Working temperature				70℃				
环境温度 Environment temperatue				25℃				

注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

九、交货长度

Delivery Length

按合同要求长度交货，长度计量误差为±0.5%。

The goods will be delivered according to the contract with length error of ±0.5%.

变频电机用交联聚乙烯绝缘电缆（变频电缆）

XLPE Insulation Cable for Variable Frequency Motor Application (Frequency Conversion Cable)

变频电缆主要用于变频电源和变频电机之间连接用的电缆，以及额定电压1kV及以下的输配电线路中，作输送电能用。尤其适用于造纸、冶金、纺织、金属加工、矿山、铁路和食品加工等行业。

一、生产执行标准

GB/T12706-2020及企业标准。

二、使用条件

- 1、额定电压 U_0/U : 0.6/1kV;
- 2、电缆导体长期允许最高温度为90℃，短路时最高温度为250℃（最长持续时间为5秒）；
- 3、安装敷设环境温度不低于0℃，固定敷设时环境温度不低于-10℃；
- 4、电缆允许最小弯曲半径不小于15D（D-电缆外径，mm）。

三、产品性能

- 1、BPYJVP、BPYJVP2、BPYJVPR、BPYJVP2R、BPYJVTP2、BPYJVPP2R、BPYJVP1P2R、BPYJVPP2R型设计采用符合GB/T3956规定的铜导体，原型号前加ZA-、ZB-、ZC-、ZD-表示阻燃型；
- 2、交联聚乙烯绝缘，耐温耐候性好；
- 3、低传输阻抗，电磁兼容性好；
- 4、低工作电容；
- 5、良好的抗干扰和低辐射性能；
- 6、对称的三芯电缆结构设计，具有比四芯电缆更好的传输性能。

四、主要技术参数

- 1、20℃时导体最大直流电阻：

导体标称截面 mm ² Nominal cross section area of conductor	20℃时导体最大直流电阻Ω/km Max.DC resistance of conductor at 20℃		导体标称截面 mm ² Nominal cross section area of conductor	20℃时导体最大直流电阻Ω/km Max.DC resistance of conductor at 20℃	
	1类导体或2类绞合导体 category 1 conductor or stranded conductor(category 2)	5类软导体 Flexible conductor (category 5)		1类导体或2类绞合导体 category 1 conductor or stranded conductor(category 2)	5类软导体 Flexible conductor (category 5)
0.75	24.5	26.0	35	0.524	0.554
1.0	18.1	19.5	50	0.387	0.386
1.5	12.1	13.3	70	0.268	0.272
2.5	7.41	7.98	95	0.193	0.206
4	4.61	4.95	120	0.153	0.161
6	3.08	3.30	150	0.124	0.129
10	1.83	1.91	185	0.0991	0.106
16	1.15	1.21	240	0.0754	0.0801
25	0.727	0.780	300	0.0601	0.0641

It is used for power transmission on power lines of rated voltage 0.6/1kV or lower. It has strong electromagnetic interference, lightning and equilibrium potential, and improves the quality of power supply. It is specially used in the field of paper-making, metallurgy, textile mill, metalworking, mine, railway and food processing, etc.

Executive standard

GB/T12706-2020 and Enterprise standard.

Working Condition

1. Rated voltage U_0/U : 0.6/1kV.
2. Max. temperature of cable conductor for Long-term working is 90℃. Max. working temperature of cable conductor is 250℃ during short circuit (the longest lasting time shall be no more than 5 seconds).
3. Environment temperature for installing is no less than 0℃, the ambient temperature of fixed laying is no less than -10℃.
4. Min. bending radius allowed by cable is no less than 15D. (D means outer diameter of cable with unit "mm")

Product Performance

1. Design for type BPYJVP、BPYJVP2、BPYJVPR、BPYJVP2R、BPYJVTP2、BPYJVPLPR、BPYJVPLP1R、BPYJVP2PR use copper conductor which meets the requirements of GB/T3956 standard.
2. XLPE insulation, good heat resistance and good weather resistance.
3. Low transmission impedance; good performance of electromagnetic compatibility.
4. Low working capacitance.
5. Good performance of interference resistance and low radiation
6. The symmetrical 3 cores cable is designed to have better transmission performance than the 4 cores cable.

Main Technical Parameter

1. Max. DC resistance of conductor at 20℃

2、交流电压试验

电压应依次施加在每一绝缘导体对其余导体和金属层之间施加试验电压3500V/5min，绝缘应无击穿。试验应在环境温度下进行。

A.C. Voltage Test

The voltage should be applied in turn to the test voltage 3500V/5min between the other conductors and the rest of the conductor and the metal layer without puncture of insulation. And test will be done at the environment temperature.

五、型号说明

Type Introduction



名称 Item	代号 Code	说明 Description
系列代号 Series No.	BP	变频电缆 Frequency converter cable
绝缘代号 Insulation No.	YJ	交联聚乙烯绝缘 XLPE insulation
护套代号 Sheath Code	V	聚氯乙烯护套 PVC sheath
	Y/E	聚乙烯或聚烯烃 PE or Polyolefin
屏蔽代号 Shielding Code	TP2	铜丝缠绕+铜带绕包屏蔽 Copper wire twine+copper tape wrapped shielding
	PP2	铜丝编织屏蔽+铜带绕包屏蔽 Copper wire braided shielding+copper tape wrapped shielding
	P	铜丝编织屏蔽 Copper wire braided shielding
	P1	镀锡铜丝编织屏蔽 Tinned copper wire braided shielding
	P2	铜带屏蔽 Cu tape shielding
	P3	铝箔带屏蔽 Al (foil) tape shielding
	P1P3	铝箔绕包屏蔽+镀锡铜丝编织屏蔽 Al+PET wrapped shielding plus tinned copper wire braided shielding
铠装代号 Armour Code	22	钢带铠装聚氯乙烯护套 Steel tape Armour, PVC sheath
	23	钢带铠装聚烯烃护套/钢带铠装聚乙烯护套 Steel tape Armour, polyolefin sheath; steel tape armored, PE sheath
阻燃代号 Flame retardant Code	ZR	阻燃型 (C类) Flame-retardant type (Category C)
	WDZ	低烟无卤阻燃 Low smoke halogen free flame retardant

六、生产范围

Production Scope

型号 Type	芯数 Core No.	导体标称截面 mm ² Nominal cross section area of conductor
BPYJVP、BPYJVP2、BPYJVTP2	3、3+1	2.5~300
BPYJVP(R)、BPYJVP2(R)、BPYJVP1P2(R)、BPYJVPP2(R)、BPYJVPP2(R)、BPYJVP1P2(R)	3+3	主线芯截面：2.5~300 Cross section area of main core: 2.5~300 副线芯截面：0.5~35 Cross section area of auxiliary core: 0.5~35

注：可根据用户需要提供铠装结构变频电缆。

Note: We also produce frequency converter cable with armored structure according to the requirement of customer.

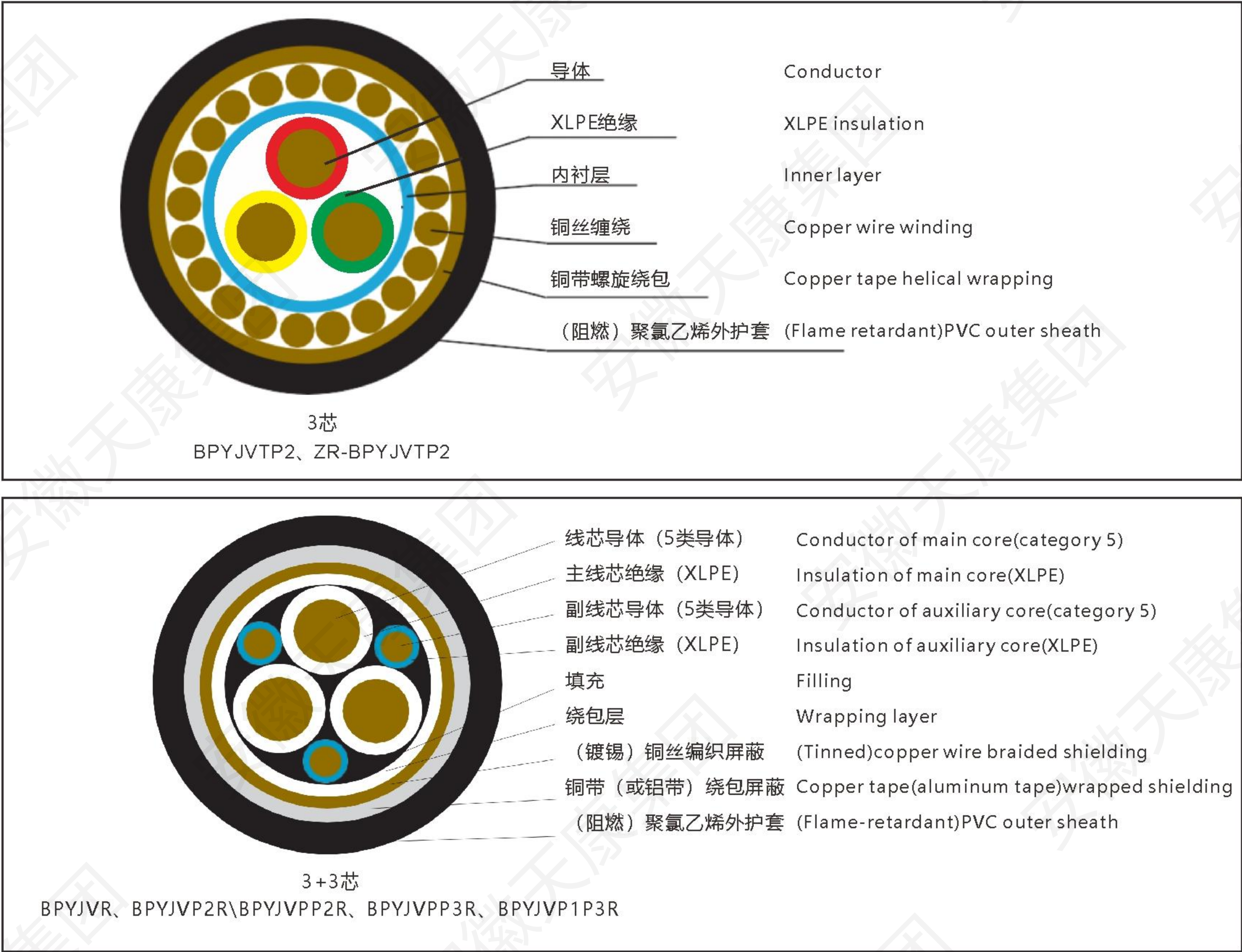
七、型号名称

Type and Description

型号 Type	名称 Description
BPYJVP(R)	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽变频（软）电缆 Frequency converter (flexible) cable with copper core, XLPE insulation, copper wire braid shielding, PVC sheath
BPYJVP2(R)	铜芯交联聚乙烯绝缘聚氯乙烯护套铜带绕包屏蔽变频（软）电缆 Frequency converter (flexible) cable with copper core, XLPE insulation, copper tape wrapped shielding,PVC sheath
BPYJVTP2	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝缠绕+铜带绕包屏蔽变频电缆 Frequency converter cable with copper core, XLPE insulation, copper wire twine plus copper tape wrapped shielding, PVC sheath
BPYJVP13(R) BPYJVPP3(R)	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽+铝箔绕包屏蔽变频（软）电缆 Frequency converter flexible cable with copper core, XLPE insulation, AL. polyester wrapped plus copper wire braided shielding, PVC sheath
BPYJVP1P3(R)	铜芯交联聚乙烯绝缘聚氯乙烯护套镀锡丝编织屏蔽+铝箔绕包屏蔽变频（软）电缆 Frequency converter flexible cable with copper core, XLPE insulation, AL. polyester wrapped plus copper tape wrapped shielding, PVC sheath
BPYJVP12(R) BPYJVPP2(R)	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽+铜带绕包变频（软）电缆 Frequency converter flexible cable with copper core, XLPE insulation, copper wire braided plus copper tape wrapped shielding, PVC sheath
BPYJVP1P2(R)	铜芯交联聚乙烯绝缘聚氯乙烯护套镀锡丝编织屏蔽+铜带绕包变频（软）电缆 Frequency converter flexible cable with copper core, XLPE insulation, tinned copper wire braided plus copper tape wrapped shielding, PVC sheath

八、产品结构示意图

The Figure of Cable Structure



九、外径尺寸

Dimension of Outer Diameter

1、BPYJVP、BPYJVTP2、BPYJVP2, 3+1芯:

1.BPYJVP、BPYJVTP2、BPYJVP2、3+1 cores:

规格 Specification	近似外径 mm APPROX OD	近似重量 kg/km Approximate weight	电缆载流量 A Current-loading capacity of cable
3×4+1×2.5	16.0	334	34
3×6+1×4	17.3	430	45
3×10+1×6	20.2	627	53
3×16+1×10	22.7	833	84
3×25+1×16	27.4	1308	109
3×35+1×16	28.9	1718	132
3×50+1×25	30.2	3059	159
3×70+1×35	32.8	3445	195
3×95+1×50	34.9	4172	237
3×120+1×70	39.6	5055	274
3×150+1×70	44.2	5410	310
3×185+1×95	48.5	7062	355
3×240+1×120	54.6	9811	416
3×300+1×150	64.0	10500	555

2、BPYJVPR、BPYJVP2R、BPYJVPP2R、BPYJVP1P

2.BPYJVPR、BPYJVP2R、BPYJVPP2R、BPYJVP1P2R, 3+3 cores:

2R, 3+3芯:

规格 Specification	近似外径 mm APPROX OD	近似重量 kg/km Approximate weight	电缆载流量 A Current-loading capacity of cable
3×2.5+3×0.5	12.5	232	26
3×4+3×0.75	14.0	330	34
3×6+3×1.0	15.4	422	45
3×10+3×1.5	19.6	621	53
3×16+3×2.5	22.7	820	84
3×25+3×4	28.0	1310	109
3×35+3×6	29.4	1723	132
3×50+3×10	36.3	3075	159
3×70+3×10	40.0	3454	195
3×95+3×16	45.5	4180	237
3×120+3×16	50.4	5100	274
3×150+3×25	55.5	5432	310
3×185+3×25	60.6	7098	355
3×240+3×35	61.0	10221	416
3×300+3×50	70.0	10650	555

十、交货长度

Delivery Length

根据双方协议长度供货。

According to the agreement between both parties.

氟塑料绝缘（阻燃）电力电缆

(Flame retardant)power cable with Fluoroplastic insulation

本产品适用于额定电压0.6/1kV及以下高温范围和恶劣环境内，作电气设备电能传输线。

It is used as power transmission cable for electric equipments of rated voltage 0.6/1kV or lower in bad environment or that with high temperature.

一、生产执行标准

TICW2-2009，JB/T13484-2018及企业标准。

Executive standard

TICW2-2009,JB/T13484-2009 and Enterprise standard.

二、使用特性

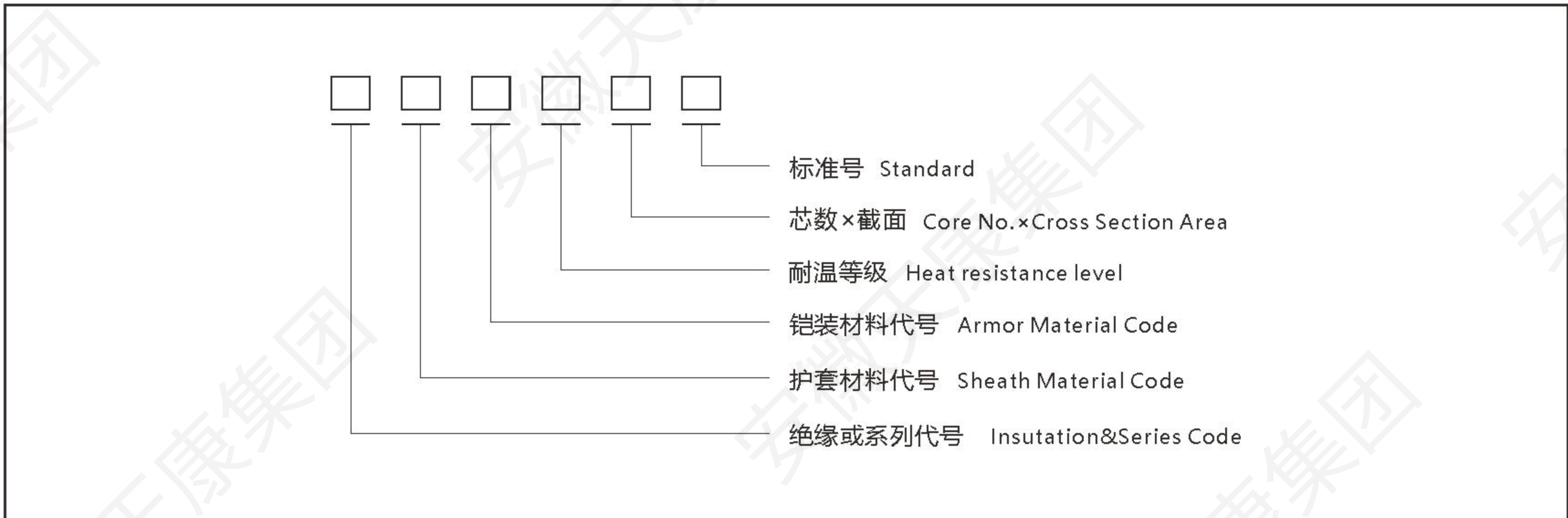
- 1、额定电压 U_0/U : 0.6/1kV;
- 2、电缆允许最高工作温度: 氟塑料绝缘为200℃;
- 3、电缆敷设温度应不低于-15℃;
- 4、电缆的弯曲半径如下：单芯电缆，其弯曲半径不小于电缆外径的20D；三芯电缆，其弯曲半径不小于电缆外径的15D；
- 5、氟塑料绝缘及护套型电力电缆具有优异的耐化学腐蚀性、耐高温及阻燃性。

Operational performance

- 1.Rated voltage U_0/U : 0.6/1kV.
- 2.Max.working temperature allowed by cable is 200℃ for cable with fluoroplastic insulation.
- 3.Cable laying temperature shall not be lower than -15℃.
- 4..Bending radius of cable as follows:
It is no less than 20 times that of cable outer diameter for cable with single core.It is no less than 15 times that of cable outer diameter for cable with 3 cores.
- 5..Power cable with fluoroplastic insulation and sheath has good features of chemical corrosion resistance, high temperature resistance and flame retardance.

三、型号说明

Model explantion



项目 Item	代号 Code	说明 Explanation
绝缘 Insutation	F	氟塑料绝缘 Fluoroplastic insulation
护套 Sheath	G	硅橡胶护套 Silicone rubber sheath
	F	氟塑料护套 Fluoroplastic sheath
铠装 Armoring	2	钢带铠装 Steel tape armor
	9	镀锌钢丝编织铠装 Steel wire braid armored
耐温等级 Grade of Heat resistance	200	最高工作温度 200℃ The Max.operating temperature 200℃

四、电缆的型号名称

Type and Description

1、电缆的型号名称

Type and Description

型 号 Type	名 称 Description
FF	氟塑料绝缘护套耐高温电力电缆 Power cable with Fluoroplastic insulation and sheath.
FF2F	氟塑料绝缘钢带铠装氟塑料护套电力电缆 Power cable with Fluoroplastic insulation ,steel tape armor,Fluoroplastic sheath
FF9F	氟塑料绝缘钢丝编织铠装氟塑料护套电力电缆 Power cable with Fluoroplastic insulation ,steel wire braided armor,F46 sheath
(ZR) -FG	氟塑料绝缘（阻燃）硅橡胶护套耐高温电力电缆 (Flame retardant)Power cable with Fluoroplastic insulation and silicon rubber sheath.

注：
1、氟塑料和硅橡胶绝缘电缆不推荐采用铠装结构，如采用铠装结构，优先采用金属丝编织铠装，金属丝采用铜丝、镀锌钢丝等。
2、除特殊结构外，用于交流回路的单芯电缆铠装应采用非磁性材料。

Note:
1. It is not recommended to adopt armored structure for fluoroplastic and silicone rubber insulated cables. If armored structure is adopted, metal wire braided armor is preferred, and copper wire and galvanized steel wire are used.
2. Except for special structures, single core armor cables used for AC circuits shall be made of non-magnetic materials.

五、电缆规格

Specication of Cable

1、电缆规格表示为芯数×导体标称截面mm²，其芯数及导体标称截面：

" core number * nominal cross section" stands for cable specification. Please see the following table for core number and nominal cross section.

型 号 Type	芯 数 Core number	标称截面 mm² Nominal cross section area
FF、FG	1	1.5 ~ 185
FF、FF9F、FF2F	2、3、4、5、3+2、3+1、4+1	1.5 ~ 70
FG、FG2G		1.5 ~ 240

六、技术参数

Technical Parameter

- 1、20℃导体直流电阻应符合GB/T3956标准规定；
- 2、电缆应经受3500V交流耐压试验5min绝缘不击穿。

- 1.DC resistance of conductor at 20℃ shall meet the requirement of GB/T3956 standard.
- 2.Cable shall bear AC voltage test of 3500V for 5min without puncture of insulation.

七、交货长度

Delivery Length

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过±0.5%。

- 1.Delivery length of cable depends on both agreements.
- 2.The measurement error of lenth is no more than ±0.5%.

硅橡胶绝缘（阻燃）电力电缆

(Flame retardant)Power cable with Silicon insulation

本产品适用于额定电压0.6/1kV及以下的高温范围和恶劣环境内，作电气设备电能传输线。它具有优良的耐高温、阻燃、耐辐射、耐老化、耐臭氧、防水等特性，并具有很好的耐寒性、耐候性。

一、生产执行标准

TICW4-2009、JB/T 13106-2017及企业标准。

二、使用特性

- 1、额定电压 U_0/U ：600/1000V；
- 2、电缆允许工作温度范围-60℃~+180℃；
- 3、短路时（最长持续间不超过5S）电缆导体的最高温度不超过350℃；
- 4、电缆敷设温度应不低于-20℃；
- 5、有铠装或屏蔽结构的电缆弯曲半径不小于电缆外径的12倍，无铠装或屏蔽结构的电缆弯曲半径不小于电缆外径的6倍。

三、电缆型号名称

型号 Type	名称 Description
GG (YGC)	硅橡胶绝缘硅橡胶护套电力电缆 Power cable with silicon rubber insulation and sheath
GG2G	硅橡胶绝缘硅橡胶护套钢带铠装电力电缆 Power cable with silicon rubber insulation and sheath, steel tape armor
GG3G	硅橡胶绝缘硅橡胶护套细钢丝铠装电力电缆 Power cable with silicon rubber insulation and sheath, fine wire armor

注：1、阻燃型应在表中型号前加“ZA、ZB、ZC、ZD”。
2、单芯电缆应选用非磁性材料。

It is used as power transmission cable of electric equipments of rated voltage 0.6/1kV or lower in bad environment or that with high temperature. It has good features of high temperature resistance, flame resistance, radiation resistance, aging resistance, ozone resistance, water proof, freezing resistance, weather resistance etc.

Executive standard

TICW4-2009、JB/T 13106-2017 and Enterprise standard.

Operational performance

- 1.Rated voltage U_0/U :600/1000V
- 2.Working temperature allowed by cable is -60℃~+180℃.
- 3.Max temperature of cable conductor is no more than 350℃ during short circuit(The longest lasting time is no more than 5s.)
- 4.Temperature for installing is no less than -20℃.
- 5.Bending radius of cable with armouring or shielding structure is no less than 12 times of cable outer diameter, for cable without armouring or shielding structure, bending radius is no less than 6 times of cable outer diameter.

Type and Description

Note:1.The flame retardant type should be added "ZA,ZB,ZC,ZD" before the type in the table.
2.Single core cables shall be made of non-magnetic materials.

四、电缆规格

电缆规格用导体芯数×导体标称截面 mm^2 表示。

Specication

"core number*nominal cross section area" stands for cable specication.

型号 Type	芯数 Core number	标称截面 mm^2 Nominal cross section area	导体种类 Type of conductor
GG (YGC)	2、3、4、5、3+2、3+1、4+1	单芯：1.5~300 多芯：1.5~240	5类导体 Category 5 conductor
GG2G, GG3G		1.5~500 for single core 1.5~240 for multi-core	

五、技术参数

- 1、成品电缆导体20℃时直流电阻：应满足GB/T3956标准要求；
- 2、成品电缆应经受工频交流试验电压3500V/5min电压试验，绝缘无击穿。

Technical parameter

- 1.DC resistance of finished cable conductor at 20℃ shall meet the requirement of GB/T3956 standard.
- 2.Finished cable shall bear A.C voltage test of 3500V under power frequency for 5 minutes without puncture of insulation.

六、交货长度

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过±0.5%。

Delivery Length

- 1.Delivery length of cable depends on both agree-ments.
- 2.The measurement error of lenth is no more than ±0.5%.

硅橡胶绝缘（阻燃）扁电力电缆

(Flame retardant)Flat power cable with Silicon insulation

该电缆广泛应用于起重、运输、机械、电气、钢铁、医药、冶金、港口、矿山、物流、仓储等行业的0.6/1kV及以下各种移动动力装置的电源连接及控制、信号、照明等。

It is used as power connection & controlling & signal & lighting of various moving power equipment, in the field of lifting, transportation, machine, electronic, steel, medicine, metallurgy, port, mine and storage etc.

一、生产执行标准

JB/T 13107-2017及企业标准。

Executive standard

JB/T 13107-2017 and Enterprise standard.

二、使用特性

- 1、额定电压：U₀/U为0.6/1kV；
- 2、电缆允许工作温度范围：
硅橡胶绝缘-60℃ ~ +180℃；
- 3、短路时（最长持续间不超过5S）电缆导体的最高温度不超过350℃；
- 4、电缆敷设温度应不低于-20℃；
- 5、电缆最小弯曲半径为电缆短轴长度的10倍。

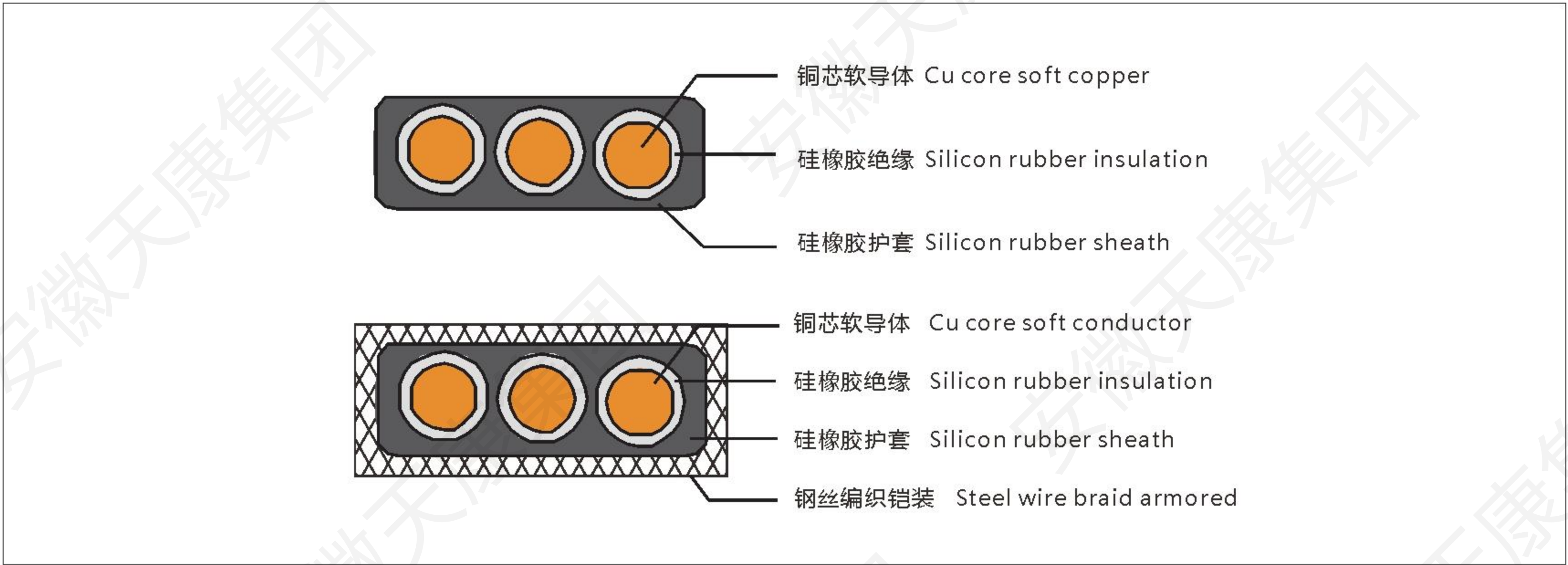
Operational performance

- 1.Rated voltage U₀/U:0.6/1kV
- 2.Working temperature allowed by cable
-60℃ ~ +180℃ for cable with silicon rubber insulation.
- 3.Max.temperature of cable conductor is no more than 350℃ during short circuit(the longest lasting time is no more than 5s).
- 4.Temperature for installing is no lower than -20℃.
- 5.Min. bending radius of cable is 10 times that of small border length of cable.

三、电缆型号名称

Type and Description

型号 Type	名称 Description
(ZR)-YGGGB	硅橡胶绝缘硅橡胶护套（阻燃）扁电力电缆 (Flame retardant)Flat power cable with silicon rubber insulation and sheath
GGB90	硅橡胶绝缘硅橡胶护套（阻燃）钢丝编织铠装扁电力电缆 (Flame retardant)Flat power cable with silicon rubber insulation and sheath,steel wire braid armored



四、主要性能参数

Main Performance Parameter

1、在20℃时导体直流电阻

DC resistance of conductor at 20℃

截面 mm ² Cross section area	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
R ₂₀ (Ω/km)	26.0	19.5	13.3	7.98	4.95	3.30	1.91	1.21	0.780	0.554	0.386	0.272	0.206	0.161	0.129	0.106	0.0801

2、规格及参考数据如下表规定：

Specification and data for reference stipulated in the following table:

标称截面 mm ² Nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	间距 mm Space	电缆 (参考) 外径 mm Cable OD	(参考) 重量 (kg) Weight
4×1.0	0.8	1.6	1.0	17.8×6.1	225
6×1.0	0.8	1.6	1.0	25.6×6.1	345
8×1.0	0.8	1.6	1.0	33.4×6.1	360
4×1.5	1.0	1.6	1.0	20.5×6.8	291
6×1.5	1.0	1.6	1.0	29.6×6.8	360
8×1.5	1.0	1.6	1.0	38.8×6.8	469
4×2.5	1.0	1.6	1.5	24.5×8.1	333
6×2.5	1.0	1.6	1.5	37×8.1	536
8×2.5	1.0	1.6	1.5	48.1×8.1	608
4×4	1.0	1.7	1.7	30.5×8.4	457
6×4	1.0	1.7	1.7	44×8.4	790
4×6	1.0	1.9	2.0	33.8×9.5	615
6×6	1.0	1.9	2.0	48.8×9.5	1098
3×10	1.0	2.4	2.4	31.7×11.5	702
6×10	1.0	2.4	2.4	59.8×11.5	1428
3×25	1.2	2.7	2.8	41.8×15	1645
6×25	1.2	2.7	2.8	79.5×15	3325
4×35	1.2	3.0	3.0	48.5×16.7	2181
3×50	1.4	3.1	3.4	55×19.2	2681
4×50	1.4	3.1	3.4	70.4×19.2	3158
3×70	1.4	3.3	3.8	59.1×22.9	2878
3×120	1.6	3.7	4.2	74.8×30.4	5157
3×150	1.8	4.1	4.4	80.2×32.6	6171

3、成品电缆线芯的电压试验

成品电缆的电压试验应经受交流50Hz, 试验电压3500V、5min, 绝缘无击穿。

Voltage test of Finished Cable Conductor

Finished cable shall bear voltage test of 3500V, AC 50Hz for 5 minutes without puncture of insulation.

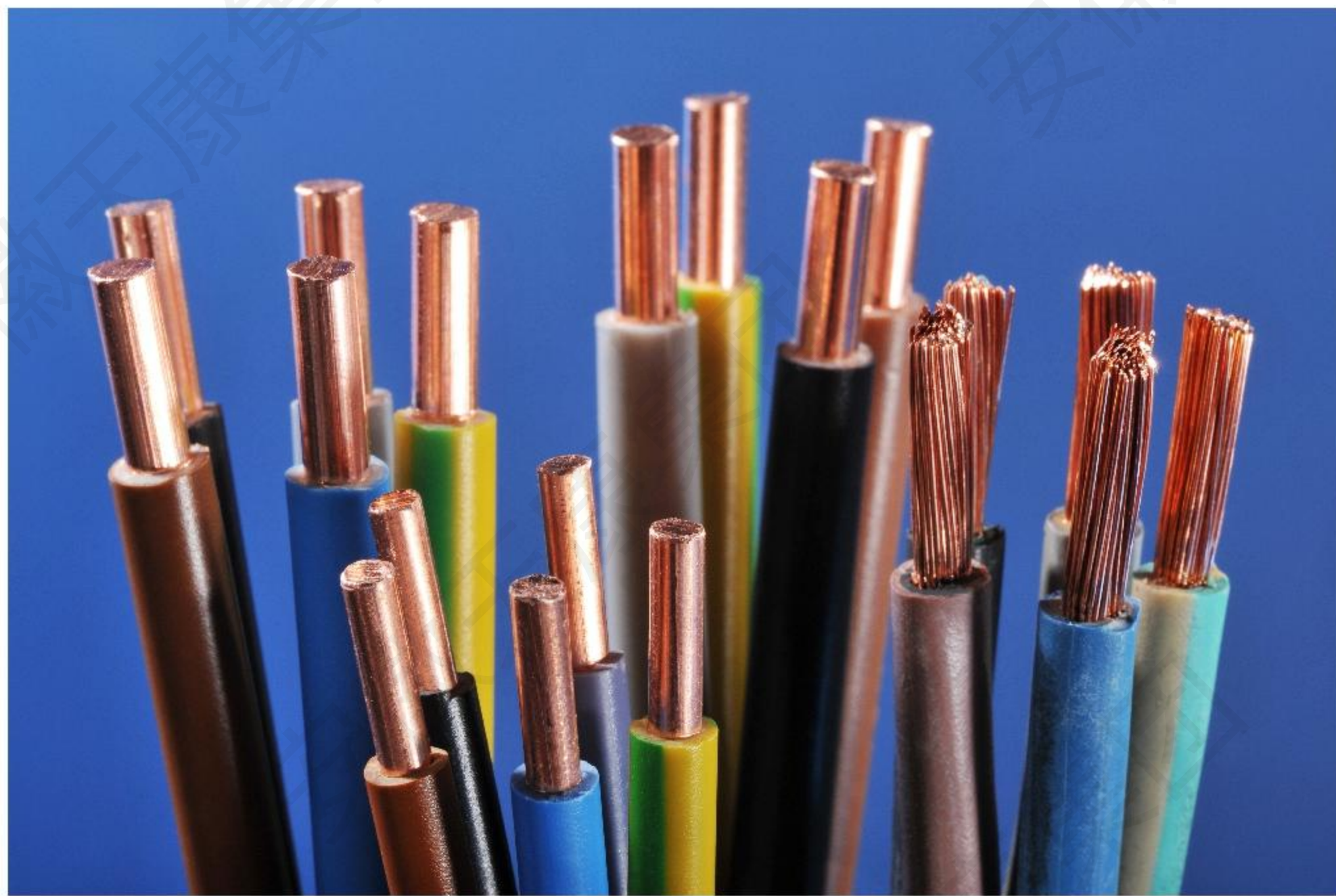
五、交货长度

- 1、根据双方协议, 允许任何长度的电缆交货;
- 2、长度计量误差不超过±0.5%。

Delivery Length

1. Delivery length of cable depends on both agree-ments.
2. The measurement error of length is no more than ±0.5%.

控制电缆 Control cable



交联聚乙烯绝缘控制电缆

Control Cable with XLPE Insulation

聚氯乙烯绝缘控制电缆

Control cable with PVC insulation

硅橡胶绝缘（阻燃）控制电缆

(Flame retardant) Control cable with Silicon rubber

氟塑料绝缘控制电缆

Control Cable with Fluoroplastic insulation

交联聚乙烯绝缘控制电缆

Control Cable with XLPE Insulation

本产品适用于交流额定电压450/750V及以下控制，监控回路及保护线路等场合使用。

一、生产执行标准

GB/T9330-2020。

二、使用特点

- 1、电缆导体的长期允许工作温度为90℃；
- 2、电缆的敷设温度应不低于0℃，推荐的允许弯曲半径：无铠装层的电缆，应不小于电缆外径的8倍；有铠装或铜带屏蔽结构的电缆，应不小于电缆外径的12倍。

三、产品型号中各字母代表意义

- | | |
|---------------|----|
| 1、系列代号 | K |
| 2、材料代号 | |
| 铜导体 | 省略 |
| 交联聚乙烯或交联聚烯烃绝缘 | YJ |
| 聚氯乙烯护套 | V |
| 聚乙烯或聚烯烃护套 | Y |
| 3、结构特征代号 | |
| 编织屏蔽 | P |
| 铜带屏蔽 | P2 |
| 软结构 | R |
| 铝/塑复合薄膜屏蔽 | P3 |
| 铜/塑复合带（箔）屏蔽 | P4 |
| 双钢带铠装 | 2 |
| 钢丝铠装 | 3 |
| 聚氯乙烯外护套 | 2 |
| 聚乙烯或聚烯烃外护套 | 3 |

This product is suitable for the use of AC rated voltage 450/750V and below, WITH in monitoring circuit and protection line or other occasions.

Executive standard

GB/T9330-2020.

Working Condition

- 1.Long-term working temperature allowed by cable conductor is 90℃.
- 2.Environment temperature for installation should be no less than 0℃, allowed bending radius is stipulated as follows:It should be no less than 8 times that of cable OD for unarmored cable.It should be no less than 12 times that of cable OD for the cable with armored or copper shielded structure.

The meaning of each letter in the product model

- | | |
|--|---------|
| 1.Series code | K |
| 2.Material Code | |
| Copper conductor | Omitted |
| XLPE or crosslinked polyolefine insulation | YJ |
| PVC sheath | V |
| PE or Polyolefine sheath | Y |
| 3.Structural character code | |
| Braided shield | P |
| Copper tape shield | P2 |
| Soft structure | R |
| Aluminum/plastic composite film shielding | P3 |
| Copper/plastic tape(foil) shielding | P4 |
| Dual steel tape armor | 2 |
| Steel wire armor | 3 |
| PVC outer sheath | 2 |
| PE or Polyolefine sheath | 3 |

四、型号名称

Type and Description

型号 Type	产品名称 Description
KYJV	铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath.
KYJVP	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath, copper wire braided shielding.
KYJVP2	铜芯交联聚乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath, copper tape shielding.
KYJVP3	铜芯交联聚乙烯绝缘聚氯乙烯护套铝箔/铝塑复合带屏蔽控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath, Aluminium/plastic composite film shielding.
KYJVP4	铜芯交联聚乙烯绝缘聚氯乙烯护套铜/复合带屏蔽控制电缆 Copper core XLPE insulated PVC sheathed copper/plastic composite tape shielded control cable.
KYJV22	铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath, steel tape armor.
KYJVP2-22	铜芯交联聚乙烯绝缘聚氯乙烯护套铜带屏蔽钢带铠装控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath, copper tape shielding, steel tape armor.
KYJV32	铜芯交联聚乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆 Control cable with Cu conductor, XLPE insulation, PVC sheath and steel wire armor.

KYJY	铜芯交联聚乙烯绝缘聚乙烯护套控制电缆 Control cable with Cu core,XLPE insulation,PE sheath
KYJYP	铜芯交联聚乙烯绝缘聚乙烯护套铜丝编织屏蔽控制电缆 Control cable with Cu core,XLPE insulation,PE sheath,copper wire braided shielding
KYJYP2	铜芯交联聚乙烯绝缘聚乙烯护套铜带屏蔽控制电缆 Control cable with Cu core,XLPE insulation,PE sheath,copper tape shielding
KYJYP3	铜芯交联聚乙烯绝缘聚乙烯护套铝塑复合带屏蔽控制电缆 Control cable with Cu core,XLPE insulation,PE sheath,Aluminium/plastic composite tape shielding
KYJYP4	铜芯交联聚乙烯绝缘聚乙烯护套铜塑复合带屏蔽控制电缆 Control cable with Cu core,XLPE insulation,PE sheath,Copper/plastic composite tape shielding
KYJYP23	铜芯交联聚乙烯绝缘聚乙烯护套钢带铠装控制电缆 Control cable with Cu core,XLPE insulation,PE sheath, Steel tape armor
KYJYP2-23	铜芯交联聚乙烯绝缘聚乙烯护套铜带屏蔽钢带铠装控制电缆 Control cable with Cu core,XLPE insulation,PE sheath, Copper tape shielding,Steel tape armor
KYJY33	铜芯交联聚乙烯绝缘聚乙烯护套铜带屏蔽钢丝铠装控制电缆 Control cable with Cu core,XLPE insulation,PE sheath, Copper tape shielding,Steel wire armor

备注：无卤低烟阻燃电缆和无卤低烟阻燃耐火电缆，护套代号Y或3表示无卤聚烯烃护套。

①阻燃电缆、无卤低烟阻燃电缆、耐火电缆及其组合型电缆的名称和型号应按GB/T 19666的规定在上述型号的基础上编制。

②比如阻燃型电缆，在原型号前加“Z-”、“ZA-”、“ZB-”、“ZC” “ZD-”，无卤低烟阻燃型的，在原型号前加“WDZ-”、“WDZA-”、“WDZB-”、“WDZC” “WDZD-”，无卤低烟低毒阻燃型的，在原型号前加“WDUZ-”、“WDUZA-”、“WDUZB-”、“WDUZC” “WDUZD-”。

③耐火型电缆，在原型号前加“N-”、“ZAN-”、“ZBN-”、“ZCN” “ZDN-”，无卤低烟阻燃耐火电缆，在原型号前加“WDZN-”、“WDZAN-”、“WDZBN-”、“WDZCN” “WDZDN-”，无卤低烟低毒阻燃型耐火电缆，在原型号前加“WDUZN-”、“WDUZAN-”、“WDUZBN-”、“WDUZCN” “WDUZDN-”。

④低烟低卤阻燃电缆，在原型号前加“DDZ-”、“DDZA-”、“DDZB-”、“DDZC” “DDZD-”。

⑤低烟无卤阻燃B1级电缆，在原型号前加“WDZB1-”或“WDZB1N-”。

Remark:Halogen-free low-smoke flame-retardant cable and halogen-free low-smoke flame-retardant fire-retardant cable, with sheath code Y or 3 indicating halogen-free polyolefin sheath.

①The names and models of flame retardant cables, halogen-free low smoke flame retardant cables, fire resistant cables and their combined type cables shall be compiled on the basis of the above models according to the provisions of GB/T 19666

②For flame-retardant cable type, add "Z-", "ZA-", "ZB-", "ZC" and "ZD-" before the original model;For halogen-free low-smoke flame retardant type, add "WDZ-", "WDZA-", "WDZB-", "WDZC" and "WDZD-" before the original model;For halogen-free, low smoke, low toxicity and flame retardant type, add "WDUZ-", "WDUZA-", "WDUZB-", "WDUZC" and "WDUZD-" before the original model.

③For fire-resistant cable type, add "-", "ZAN-", "ZBN-", "ZCN", "ZDN-" before the original model;
Halogen-free low smoke flame retardant fire-resistant cable, add "WDZN-", "WDZAN-", "WDZBN-", "WDZCN" and "WDZDN-" before the original model;
Halogen-free low-smoke low-toxicity flame-retardant fire-resistant cable, "WDUZN-", "WDUZAN-", "WDUZBN-", "WDUZCN" and "WDUZDN-" are added before the original model.

④For Low smoke and low halogen flame retardant cable type, add "DDZ-", "DDZA-", "DDZB-", "DDZC" and "DDZD-" before the original model.

⑤For Halogen-free low smoke class B1 flame retardant cable type, add “WDZB1-” or “WDZB1N-” before the original model.

五、生产范围

Production Scope

型号 Type	导体标称截面积 mm ² Nominal sectional area of conductor							
	0.5	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core							
KYJV、KYJVP、KYJY、KYJYP	/	2~61			2~19		2~10	
KYJVP2、KYJVP3、KYJVP4、KYJYP2、KYJYP3、KYJYP4	/	4~61			4~19		4~10	
KYJY23	/	7~61		4~61		4~19		4~10
KYJVP2-22、KYJYP2-23	/	7~61		4~61		4~19		4~10
KYJV32、KYJY33	/	19~61		7~61		4~19		4~10
阻燃电缆、无卤低烟阻燃电缆、耐火电缆及其组合型电缆的规格范围同上述对应型号的规格范围。 推荐的芯数系列为2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52和61芯。 The specifications of flame retardant cable,LSHF flame retardant cable,fire resistant and its combination cable shall be the same as the specifications of the corresponding modles in the table above. Recommended number of cores is 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61.								

六、技术参数

Technical Parameter

1、成品电缆导体20℃时直流电阻

1、DC resistance of finished cable conductor at 20℃.

项目 Item	单位 Unit	技术指标 Technical indices							
20℃时导体直流电阻 DC resistance of conductor at 20℃	Ω/km	截面mm ² Cross section area	0.75	1.0	1.5	2.5	4	6	10
		1类或2类 Category 1 or 2	24.5	18.1	12.1	7.41	4.61	3.08	1.83
		5类, Category 5	26.0	19.5	13.3	7.98	/	/	/

2、成品电缆应经受3.0kV/5min工频交流电压试验，绝缘不击穿。

2、Finished cable should bear A.C. voltage of 3.0KV under power frequency for 5min without puncture of insulation.

3、成品电缆90℃时绝缘电阻：

3、Insulation resistance of finished cable at 90℃ .

项目 Item	单位 Unit	技术指标 Technical indices							
90℃时绝缘电阻 Insulation resistance at 90℃	Ω.km	截面mm ² Cross section area	0.75	1.0	1.5	2.5	4	6	10
		1类, Category 1	1.20	1.10	1.10	1.0	0.85	0.70	/
		2类, Category 2	1.40	1.30	1.00	0.90	0.77	0.65	0.65

4、交联聚乙烯绝缘控制电缆的耐热性、耐寒性、耐化学性、绝缘电阻和使用寿命优于聚氯乙烯绝缘控制电缆。

4、XLPE insulated control cable is much better than PVC insulation control cable , in terms of heat resistance, cold resistance, chemical resistance, insulation resistance and service life.

5、无卤低烟阻燃性能指标：

5、Performance target of no halogen, low smoke and flame retardant.

试验项目 Test item	单位 Unit	性能要求 Performance requirement	试验方法 Test method
烟密度试验 Smoke density test 最小透光率 Min.light transmittance	%	60	GB/T17651
腐蚀性试验 Corrosive test 最小PH值 Min. PH value 电导率最大值 Max.conductivity	μS/mm	4.3 10	GB/T17650.2 (IEC60754)
卤化氢气体含量 Hydrogen halide gas content	mg/g	≤5	GB/T17650.1 (IEC60754)
成束试验 Bundle burning test	-	-	GB/T18380
试验级别 Test class	-	A、B、C	
供火时间 Time for fire	min	40、40、20	
每米可燃物总体积 Total volume of combustile per meter	L/m	7、3.5、1.5	
炭化高度 Carboniaed height	m	2.5、2.5、2.5	

七、典型电缆结构及外形尺寸

External Dimension of Common Type

KYJV型铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath (KYJV)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
2×0.75	1	7.0	8×0.75	1	10.0	19×2.5	1	19.6
2×1.0	1	7.2	8×1.0	1	10.5	19×4	1	22.0
2×1.5	1	7.8	8×1.5	1	11.0	19×6	1	24.8
2×2.5	1	9.0	8×2.5	1	13.7	24×0.75	1	16.4
2×4	1	9.8	8×4	1	15.3	24×1.0	1	17.0
2×6	1	10.8	8×6	1	17.0	24×1.5	1	18.8
2×10	/	/	8×10	/	/	24×2.5	1	22.8
3×0.75	1	7.3	10×0.75	1	11.4	27×0.75	1	16.7
3×1.0	1	7.6	10×1.0	1	11.8	27×1.0	1	17.3
3×1.5	1	8.2	10×1.5	1	13.5	27×1.5	1	19.6
3×2.5	1	9.4	10×2.5	1	16.0	27×2.5	1	23.5
3×4	1	10.4	10×4	1	17.6	30×0.75	1	17.3
3×6	1	11.5	10×6	1	20.5	30×1.0	1	18.0
3×10	/	/	10×10	/	/	30×1.5	1	20.5
4×0.75	1	7.9	12×0.75	1	11.8	30×2.5	1	24.5
4×1.0	1	8.2	12×1.0	1	12.2	37×0.75	1	18.6
4×1.5	1	8.9	12×1.5	1	14.0	37×1.0	1	20.0
4×2.5	1	10.3	12×2.5	1	16.5	37×1.5	1	22.0
4×4	1	11.3	12×4	1	18.2	37×2.5	1	26.0
4×6	1	13.1	12×6	1	21.0	44×0.75	1	21.5
4×10	/	/	14×0.75	1	12.3	44×1.0	1	22.0
5×0.75	1	8.5	14×1.0	1	13.3	44×1.5	1	24.5
5×1.0	1	8.8	14×1.5	1	14.5	44×2.5	1	30.0
5×1.5	1	9.5	14×2.5	1	17.3	48×0.75	1	22.0
5×2.5	1	11.2	14×4	1	20.0	48×1.0	1	23.0
5×4	1	12.5	14×6	1	22.0	48×1.5	1	24.8
5×6	1	14.3	16×0.75	1	13.5	48×2.5	1	30.3
5×10	/	/	16×1.0	1	14.0	52×0.75	1	22.5
7×0.75	1	9.2	16×1.5	1	15.4	52×1.0	1	23.5
7×1.0	1	9.5	16×2.5	1	18.2	52×1.5	1	25.5
7×1.5	1	10.5	16×4	1	21.0	52×2.5	1	31.1
7×2.5	1	12.2	16×6	1	23.5	61×0.75	1	24.0
7×4	1	14.0	19×0.75	1	14.2	61×1.0	1	24.3
7×6	1	15.5	19×1.0	1	14.7	61×1.5	1	27.5
7×10	/	/	19×1.5	1	16.2	61×2.5	1	33.0

KYJV型铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath (KYJV)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
2×0.75	2	7.2	8×0.75	2	10.5	19×2.5	2	20.1
2×1.0	2	7.3	8×1.0	2	10.5	19×4	2	22.6
2×1.5	2	8	8×1.5	2	11.9	19×6	2	25.1
2×2.5	2	9.2	8×2.5	2	14.6	24×0.75	2	17.0
2×4	2	10.2	8×4	2	16.3	24×1.0	2	17.5
2×6	2	11.2	8×6	2	18.0	24×1.5	2	19.4
2×10	2	13.6	8×10	2	21.5	24×2.5	2	23.4
3×0.75	2	7.6	10×0.75	2	11.8	27×0.75	2	17.0
3×1.0	2	7.8	10×1.0	2	12.2	27×1.0	2	18.0
3×1.5	2	8.4	10×1.5	2	14.0	27×1.5	2	20.2
3×2.5	2	9.7	10×2.5	2	16.4	27×2.5	2	23.9
3×4	2	10.8	10×4	2	18.4	30×0.75	2	17.5
3×6	2	11.9	10×6	2	20.8	30×1.0	2	18.5
3×10	2	14.4	10×10	2	24.4	30×1.5	2	20.9
4×0.75	2	8.0	12×0.75	2	12.2	30×2.5	2	24.8
4×1.0	2	8.4	12×1.0	2	12.5	37×0.75	2	19.0
4×1.5	2	9.1	12×1.5	2	14.4	37×1.0	2	20.5
4×2.5	2	10.6	12×2.5	2	16.9	37×1.5	2	22.5
4×4	2	11.8	12×4	2	19.0	37×2.5	2	26.7
4×6	2	13.6	12×6	2	21.5	44×0.75	2	21.5
4×10	2	15.8	14×0.75	2	13.5	44×1.0	2	23.0
5×0.75	2	8.8	14×1.0	2	13.8	44×1.5	2	25.2
5×1.0	2	9.0	14×1.5	2	15.1	44×2.5	2	30.6
5×1.5	2	9.9	14×2.5	2	17.8	48×0.75	2	22.0
5×2.5	2	11.5	14×4	2	20.4	48×1.0	2	23.5
5×4	2	12.9	14×6	2	22.6	48×1.5	2	25.6
5×6	2	14.8	16×0.75	2	14.0	48×2.5	2	31.1
5×10	2	17.2	16×1.0	2	14.5	52×0.75	2	22.5
7×0.75	2	9.5	16×1.5	2	15.9	52×1.0	2	24.0
7×1.0	2	9.8	16×2.5	2	18.7	52×1.5	2	26.3
7×1.5	2	10.7	16×4	2	21.5	52×2.5	2	32.0
7×2.5	2	12.5	16×6	2	23.8	61×0.75	2	24.0
7×4	2	14.6	19×0.75	2	14.7	61×1.0	2	25.2
7×6	2	16.1	19×1.0	2	15.0	61×1.5	2	28.5
7×10	2	18.8	19×1.5	2	16.7	61×2.5	2	33.9

KYJVP型铜芯交联聚乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath and copper wire braided shielding (KYJVP)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
2×0.75	1	7.8	8×0.75	1	10.9	19×6	1	25.4
2×1.0	1	8.0	8×1.0	1	11.3	24×0.75	1	17.4
2×1.5	1	8.6	8×1.5	1	12.3	24×1.0	1	18.0
2×2.5	1	9.8	8×2.5	1	15.2	24×1.5	1	20.2
2×4	1	10.6	8×4	1	16.6	24×2.5	1	23.8
2×6	1	11.6	8×6	1	18.3	27×0.75	1	17.7
2×10	/	/	10×0.75	1	12.2	27×1.0	1	18.3
3×0.75	1	8.1	10×1.0	1	13.2	27×1.5	1	20.6
3×1.0	1	8.3	10×1.5	1	14.6	27×2.5	1	24.3
3×1.5	1	9.0	10×2.5	1	17.0	30×0.75	1	18.3
3×2.5	1	10.3	10×4	1	19.0	30×1.0	1	18.9
3×4	1	11.1	10×6	1	21.0	30×1.5	1	21.3
3×6	1	12.2	12×0.75	1	13.1	30×2.5	1	25.4
3×10	/	/	12×1.0	1	13.5	37×0.75	1	20.0
4×0.75	1	8.7	12×1.5	1	15.0	37×1.0	1	20.7
4×1.0	1	8.9	12×2.5	1	17.5	37×1.5	1	22.8
4×1.5	1	9.6	12×4	1	19.6	37×2.5	1	27.9
4×2.5	1	11.1	12×6	1	21.7	44×0.75	1	22.2
4×4	1	12.1	14×0.75	1	13.7	44×1.0	1	23.0
4×6	1	14.1	14×1.0	1	14.3	44×1.5	1	26.3
4×10	/	/	14×1.5	1	15.7	44×2.5	1	31.1
5×0.75	1	9.3	14×2.5	1	18.3	48×0.75	1	22.5
5×1.0	1	9.6	14×4	1	20.5	48×1.0	1	23.3
5×1.5	1	10.9	14×6	1	22.7	48×1.5	1	26.0
5×2.5	1	13.1	16×0.75	1	14.5	48×2.5	1	31.5
5×4	1	14.5	16×1.0	1	15.0	52×0.75	1	23.1
5×6	1	15.8	16×1.5	1	16.4	52×1.0	1	23.9
5×10	/	/	16×2.5	1	19.6	52×1.5	1	27.3
7×0.75	1	10.0	16×4	1	21.5	52×2.5	1	32.4
7×1.0	1	10.3	16×6	1	23.9	61×0.75	1	24.4
7×1.5	1	11.2	19×0.75	1	15.2	61×1.0	1	25.3
7×2.5	1	13.8	19×1.0	1	15.7	61×1.5	1	28.6
7×4	1	15.0	19×1.5	1	17.2	61×2.5	1	34.7
7×6	1	16.5	19×2.5	1	20.6	/	/	/
7×10	/	/	19×4	1	22.6	/	/	/

KYJVP型铜芯交联聚乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath and copper wire braided shielding (KYJVP)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
2×0.75	2	8.0	8×0.75	2	11.3	24×0.75	2	18.0
2×1.0	2	8.2	8×1.0	2	11.6	24×1.0	2	18.6
2×1.5	2	8.8	8×1.5	2	13.5	24×1.5	2	20.8
2×2.5	2	10.0	8×2.5	2	15.6	24×2.5	2	24.4
2×4	2	11.0	8×4	2	17.3	27×0.75	2	18.3
2×6	2	12.0	8×6	2	19.0	27×1.0	2	19.4
2×10	2	14.6	8×10	2	22.5	27×1.5	2	21.2
3×0.75	2	8.3	10×0.75	2	13.2	27×2.5	2	25.1
3×1.0	2	8.5	10×1.0	2	13.6	30×0.75	2	18.9
3×1.5	2	9.2	10×1.5	2	15.0	30×1.0	2	20.0
3×2.5	2	10.5	10×2.5	2	17.4	30×1.5	2	21.9
3×4	2	11.6	10×4	2	19.4	30×2.5	2	26.0
3×6	2	13.2	10×6	2	21.8	37×0.75	2	20.7
3×10	2	15.4	10×10	2	25.7	37×1.0	2	21.4
4×0.75	2	8.9	12×0.75	2	13.5	37×1.5	2	23.5
4×1.0	2	9.2	12×1.0	2	14.2	37×2.5	2	28.6
4×1.5	2	9.9	12×1.5	2	15.4	44×0.75	2	23.0
4×2.5	2	11.3	12×2.5	2	17.9	44×1.0	2	24.4
4×4	2	13.1	12×4	2	20.4	44×1.5	2	27.1
4×6	2	14.6	12×6	2	22.5	44×2.5	2	31.9
4×10	2	16.8	14×0.75	2	14.3	48×0.75	2	23.3
5×0.75	2	9.6	14×1.0	2	14.8	48×1.0	2	24.2
5×1.0	2	9.8	14×1.5	2	16.1	48×1.5	2	26.9
5×1.5	2	11.2	14×2.5	2	18.8	48×2.5	2	32.3
5×2.5	2	13.4	14×4	2	21.4	52×0.75	2	23.9
5×4	2	15.0	14×6	2	23.8	52×1.0	2	25.0
5×6	2	16.4	16×0.75	2	15.0	52×1.5	2	28.2
5×10	2	20.3	16×1.0	2	15.5	52×2.5	2	33.2
7×0.75	2	10.3	16×1.5	2	16.9	61×0.75	2	25.3
7×1.0	2	10.6	16×2.5	2	20.1	61×1.0	2	26.2
7×1.5	2	11.5	19×0.75	2	15.7	61×1.5	2	29.5
7×2.5	2	14.1	19×1.0	2	16.2	61×2.5	2	35.6
7×4	2	15.6	19×1.5	2	17.7	/	/	/
7×6	2	17.1	19×2.5	2	21.1	/	/	/
7×10	2	20.2	/	/	/	/	/	/

KYJVP2 (P3, P4) 型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带 (铝塑复合带, 铜塑复合带) 控制电缆
Control Cable with Cu conductor,XLPE insulation and PVC sheath and Copper tape(Aluminium polyester tape , Copper polyester tape)shielding KYJVP2(P3,P4)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×0.75	1	8.3	12×0.75	1	12.8	27×0.75	1	17.1
4×1.0	1	8.6	12×1.0	1	13.2	27×1.0	1	17.7
4×1.5	1	9.3	12×1.5	1	14.4	27×1.5	1	20.0
4×2.5	1	10.7	12×2.5	1	16.9	27×2.5	1	23.7
4×4	1	11.7	12×4	1	18.6	30×0.75	1	17.7
4×6	1	13.5	12×6	1	21.1	30×1.0	1	18.3
5×0.75	1	8.9	14×0.75	1	13.3	30×1.5	1	20.7
5×1.0	1	9.2	14×1.0	1	13.7	30×2.5	1	24.5
5×1.5	1	10.0	14×1.5	1	15.1	37×0.75	1	19.0
5×2.5	1	11.6	14×2.5	1	17.7	37×1.0	1	20.1
5×4	1	13.3	14×4	1	19.9	37×1.5	1	22.2
5×6	1	14.7	14×6	1	22.1	37×2.5	1	26.4
7×0.75	1	9.6	16×0.75	1	13.9	44×0.75	1	21.6
7×1.0	1	9.9	16×1.0	1	14.4	44×1.0	1	22.4
7×1.5	1	10.8	16×1.5	1	15.8	44×1.5	1	24.8
7×2.5	1	12.6	16×2.5	1	19.0	44×2.5	1	30.2
7×4	1	14.4	16×4	1	20.9	48×0.75	1	21.9
7×6	1	15.9	16×6	1	23.3	48×1.0	1	22.7
8×0.75	1	10.6	19×0.75	1	14.6	48×1.5	1	25.2
8×1.0	1	10.9	19×1.0	1	15.1	48×2.5	1	30.7
8×1.5	1	12.6	19×1.5	1	16.6	52×0.75	1	22.5
8×2.5	1	14.6	19×2.5	1	20.0	52×1.0	1	23.3
8×4	1	16.0	19×4	1	22.0	52×1.5	1	25.9
8×6	1	17.7	19×6	1	24.5	52×2.5	1	31.5
10×0.75	1	11.8	24×0.75	1	16.8	61×0.75	1	23.8
10×1.0	1	12.8	24×1.0	1	17.4	61×1.0	1	24.7
10×1.5	1	14.0	24×1.5	1	19.6	61×1.5	1	27.4
10×2.5	1	16.4	24×2.5	1	23.2	61×2.5	1	33.4
10×4	1	18.0	/	/	/	/	/	/
10×6	1	20.4	/	/	/	/	/	/

KYJVP2 (P3, P4) 型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带 (铝塑复合带, 铜塑复合带) 控制电缆
Control Cable with Cu conductor,XLPE insulation and PVC sheath and Copper tape(Aluminium polyester tape , Copper polyester tape)shielding KYJVP2(P3,P4)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×0.75	2	8.6	10×1.5	2	14.4	24×1.0	2	18.0
4×1.0	2	8.8	10×2.5	2	16.8	24×1.5	2	20.2
4×1.5	2	9.5	10×4	2	18.8	24×2.5	2	23.8
4×2.5	2	11.0	10×6	2	21.2	27×0.75	2	17.7
4×4	2	12.2	10×10	2	24.8	27×1.0	2	18.4
4×6	2	14.0	12×0.75	2	13.2	27×1.5	2	20.6
4×10	2	16.2	12×1.0	2	13.6	27×2.5	2	24.3
5×0.75	2	9.2	12×1.5	2	14.8	30×0.75	2	18.3
5×1.0	2	9.5	12×2.5	2	17.3	30×1.0	2	19.0
5×1.5	2	10.3	12×4	2	19.8	30×1.5	2	21.3
5×2.5	2	11.9	12×6	2	21.9	30×2.5	2	25.2
5×4	2	13.9	12×10	2	25.6	37×0.75	2	20.1
5×6	2	15.2	14×0.75	2	13.7	37×1.0	2	20.8
5×10	2	17.6	14×1.0	2	14.2	37×1.5	2	22.9
7×0.75	2	9.9	14×1.5	2	15.5	37×2.5	2	27.1
7×1.0	2	10.2	14×2.5	2	18.2	44×0.75	2	22.4
7×1.5	2	11.1	14×4	2	20.8	44×1.0	2	23.2
7×2.5	2	13.5	14×6	2	23.0	44×1.5	2	25.6
7×4	2	15.0	14×10	2	26.9	44×2.5	2	31.0
7×6	2	16.5	16×0.75	2	14.4	48×0.75	2	22.7
7×10	2	19.2	16×1.0	2	14.9	48×1.0	2	23.6
8×0.75	2	10.9	16×1.5	2	16.3	48×1.5	2	26.0
8×1.0	2	11.3	16×2.5	2	19.5	48×2.5	2	31.5
8×1.5	2	12.9	19×0.75	2	15.1	52×0.75	2	23.3
8×2.5	2	15.0	19×1.0	2	15.6	52×1.0	2	24.2
8×4	2	16.7	19×1.5	2	17.1	52×1.5	2	26.7
8×6	2	18.4	19×2.5	2	20.5	52×2.5	2	32.4
8×10	2	21.9	19×4	2	23.0	61×0.75	2	24.7
10×0.75	2	12.8	19×6	2	25.5	61×1.0	2	25.6
10×1.0	2	13.2	24×0.75	2	17.4	61×1.5	2	28.3
/	/	/	/	/	/	61×2.5	2	34.7

KYJV22型铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel tape armored (KYJV22)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×1.5	1	12.3	12×1.5	1	16.8	27×1.5	1	22.4
4×2.5	1	13.7	12×2.5	1	19.7	27×2.5	1	26.1
4×4	1	14.7	12×4	1	21.4	30×0.75	1	20.5
4×6	1	15.9	12×6	1	23.5	30×1.0	1	21.1
5×1.5	1	13.0	14×0.75	1	15.7	30×1.5	1	23.1
5×2.5	1	14.6	14×1.0	1	16.1	30×2.5	1	27.3
5×4	1	15.7	14×1.5	1	17.5	37×0.75	1	21.8
5×6	1	17.1	14×2.5	1	20.5	37×1.0	1	22.5
7×0.75	1	12.6	14×4	1	22.3	37×1.5	1	24.6
7×1.0	1	12.9	14×6	1	24.5	37×2.5	1	29.8
7×1.5	1	13.8	16×0.75	1	16.3	44×0.75	1	24.0
7×2.5	1	15.6	16×1.0	1	16.8	44×1.0	1	24.8
7×4	1	16.8	16×1.5	1	18.2	44×1.5	1	27.6
7×6	1	18.3	16×2.5	1	21.4	44×2.5	1	33.0
8×0.75	1	13.6	16×4	1	23.3	48×0.75	1	24.3
8×1.0	1	13.9	16×6	1	25.7	48×1.0	1	25.1
8×1.5	1	15.0	19×0.75	1	17.0	48×1.5	1	28.0
8×2.5	1	17.0	19×1.0	1	17.5	48×2.5	1	33.5
8×4	1	18.4	19×1.5	1	19.0	52×0.75	1	24.9
8×6	1	20.5	19×2.5	1	22.4	52×1.0	1	25.7
10×0.75	1	14.8	19×4	1	24.4	52×1.5	1	29.3
10×1.0	1	15.2	19×6	1	27.3	52×2.5	1	34.7
10×1.5	1	16.4	24×0.75	1	19.6	61×0.75	1	26.2
10×2.5	1	18.8	24×1.0	1	20.2	61×1.0	1	27.5
10×4	/	20.8	24×1.5	1	22.0	61×1.5	1	30.8
10×6	1	22.8	24×2.5	1	26.2	61×2.5	1	37.8
12×0.75	1	15.2	27×0.75	1	19.9	/	/	/
12×1.0	1	15.6	27×1.0	1	20.5	/	/	/

KYJV22型铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel tape armored (KYJV22)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×1.5	2	12.5	10×6	2	23.6	24×2.5	2	26.2
4×2.5	2	14.0	10×10	2	27.6	27×0.75	2	20.5
4×4	2	15.2	12×0.75	2	15.6	27×1.0	2	21.2
4×6	2	16.4	12×1.0	2	16.0	27×1.5	2	23.0
4×10	2	18.6	12×1.5	2	17.2	27×2.5	2	27.1
5×1.5	2	13.3	12×2.5	2	20.1	30×0.75	2	21.1
5×2.5	2	14.9	12×4	2	22.2	30×1.0	2	21.8
5×4	2	16.3	12×6	2	24.3	30×1.5	2	23.7
5×6	2	17.6	14×0.75	2	16.1	30×2.5	2	28.0
5×10	2	20.4	14×1.0	2	16.6	37×0.75	2	22.5
7×0.75	2	12.9	14×1.5	2	17.9	37×1.0	2	23.2
7×1.0	2	13.2	14×2.5	2	21.0	37×1.5	2	25.3
7×1.5	2	14.1	14×4	2	23.2	37×2.5	2	30.5
7×2.5	2	15.9	14×6	2	25.4	44×0.75	2	24.8
7×4	2	17.4	16×0.75	2	16.8	44×1.0	2	25.6
7×6	2	18.9	16×1.0	2	17.3	44×1.5	2	28.4
7×10	2	22.0	16×1.5	2	18.7	44×2.5	2	33.8
8×0.75	2	13.9	16×2.5	2	21.9	48×0.75	2	25.1
8×1.0	2	14.3	16×4	2	24.3	48×1.0	2	26.0
8×1.5	2	15.3	16×6	2	27.0	48×1.5	2	29.4
8×2.5	2	17.4	19×0.75	2	17.5	48×2.5	2	34.7
8×4	2	19.5	19×1.0	2	18.0	52×0.75	2	25.7
8×6	2	21.2	19×1.5	2	19.5	52×1.0	2	27.0
8×10	2	24.3	19×2.5	2	22.9	52×1.5	2	30.1
10×0.75	2	15.2	19×4	2	25.4	52×2.5	2	36.8
10×1.0	2	15.6	19×6	2	28.3	61×0.75	2	27.5
10×1.5	2	16.8	24×0.75	2	20.2	61×1.0	2	28.4
10×2.5	2	19.6	24×1.0	2	20.8	61×1.5	2	31.7
10×4	2	21.6	24×1.5	2	22.6	61×2.5	2	38.7

KYJVP2 (P3, P4) -22型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）屏蔽钢带铠装控制电缆
Control Cable with Cu conductor,XLPE insulation and PVC sheath ,Copper tape(Aluminium polyester tape ,
Copper polyester tape)shielding and steel tape armored KYJVP2(P3,P4)-22

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×1.5	1	12.0	12×1.5	1	17.2	27×1.5	1	22.8
4×2.5	1	12.7	12×2.5	1	20.1	27×2.5	1	26.9
4×4	1	14.1	12×4	1	21.8	30×0.75	1	20.9
4×6	1	15.1	12×6	1	23.9	30×1.0	1	21.5
5×1.5	1	13.4	14×0.75	1	16.1	30×1.5	1	23.5
5×2.5	1	15.0	14×1.0	1	16.5	30×2.5	1	27.7
5×4	1	16.1	14×1.5	1	17.9	37×0.75	1	22.2
5×6	1	17.5	14×2.5	1	20.9	37×1.0	1	22.9
7×0.75	1	13.0	14×4	1	22.7	37×1.5	1	25.0
7×1.0	1	13.3	14×6	1	24.9	37×2.5	1	30.2
7×1.5	1	14.2	16×0.75	1	16.7	44×0.75	1	24.4
7×2.5	1	16.0	16×1.0	1	17.2	44×1.0	1	25.2
7×4	1	17.2	16×1.5	1	18.6	44×1.5	1	28.0
7×6	1	18.7	16×2.5	1	21.8	44×2.5	1	33.4
8×0.75	1	14.0	16×4	1	20.9	48×0.75	1	24.7
8×1.0	1	14.3	16×6	1	23.3	48×1.0	1	25.2
8×1.5	1	15.4	19×0.75	1	17.4	48×1.5	1	28.0
8×2.5	1	17.4	19×1.0	1	17.9	48×2.5	1	33.4
8×4	1	18.8	19×1.5	1	19.8	52×0.75	1	25.3
8×6	1	20.9	19×2.5	1	22.8	52×1.0	1	26.1
10×0.75	1	15.2	19×4	1	24.8	52×1.5	1	29.7
10×1.0	1	15.6	19×6	1	27.3	52×2.5	1	35.1
10×1.5	1	16.8	24×0.75	1	20.0	61×0.75	1	27.0
10×2.5	1	19.6	24×1.0	1	20.6	61×1.0	1	27.9
10×4	/	21.2	24×1.5	/	22.4	61×1.5	1	31.2
10×6	1	23.2	24×2.5	1	26.0	61×2.5	1	38.2
12×0.75	1	15.6	27×0.75	1	20.3	/	/	/
12×1.0	1	16.0	27×1.0	1	20.9	/	/	/

KYJVP2 (P3, P4) -22型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）屏蔽钢带铠装控制电缆
Control Cable with Cu conductor,XLPE insulation and PVC sheath ,Copper tape shielding and steel tape armored
(Aluminium/plastic composite tape,copper/plastic composite tape)KYJVP2(P3、P4)-22

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×1.5	2	12.9	10×6	2	24.0	24×2.5	2	27.0
4×2.5	2	14.4	10×10	2	28.0	27×0.75	2	20.9
4×4	2	15.6	12×0.75	2	16.0	27×1.0	2	21.6
4×6	2	16.8	12×1.0	2	16.4	27×1.5	2	23.4
4×10	2	19.0	12×1.5	2	17.6	27×2.5	2	27.5
5×1.5	2	13.7	12×2.5	2	20.5	30×0.75	2	21.5
5×2.5	2	15.3	12×4	2	22.6	30×1.0	2	22.2
5×4	2	16.7	12×6	2	24.7	30×1.5	2	24.1
5×6	2	18.0	14×0.75	2	16.5	30×2.5	2	28.4
5×10	2	20.8	14×1.0	2	17.0	37×0.75	2	22.9
7×0.75	2	13.3	14×1.5	2	18.3	37×1.0	2	23.6
7×1.0	2	13.6	14×2.5	2	21.4	37×1.5	2	25.7
7×1.5	2	14.5	14×4	2	23.6	37×2.5	2	30.9
7×2.5	2	16.3	14×6	2	25.8	44×0.75	2	25.2
7×4	2	17.8	16×0.75	2	17.2	44×1.0	2	26.0
7×6	2	19.7	16×1.0	2	17.7	44×1.5	2	29.4
7×10	2	22.4	16×1.5	2	19.5	44×2.5	2	34.6
8×0.75	2	14.3	16×2.5	2	22.3	48×0.75	2	25.5
8×1.0	2	14.7	16×4	2	24.7	48×1.0	2	26.0
8×1.5	2	15.7	16×6	2	27.4	48×1.5	2	29.4
8×2.5	2	17.8	19×0.75	2	17.9	48×2.5	2	34.6
8×4	2	19.9	19×1.0	2	18.4	52×0.75	2	26.1
8×6	2	21.6	19×1.5	2	20.3	52×1.0	2	27.4
8×10	2	24.7	19×2.5	2	23.3	52×1.5	2	30.5
10×0.75	2	15.6	19×4	2	25.8	52×2.5	2	37.2
10×1.0	2	16.0	19×6	2	28.3	61×0.75	2	27.9
10×1.5	2	17.2	24×0.75	2	20.6	61×1.0	2	29.4
10×2.5	2	20.0	24×1.0	2	21.2	61×1.5	2	32.1
10×4	2	22.0	24×1.5	2	23.0	61×2.5	2	39.1

KYJV32型铜芯交联聚乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel wire armored (KYJV32)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×2.5	1	14.5	14×1.5	1	19.6	30×1.5	1	25.5
4×4	1	16.4	14×2.5	1	22.9	30×2.5	1	29.7
4×6	1	17.6	14×4	1	24.7	37×0.75	1	24.2
5×2.5	1	16.3	14×6	1	26.9	37×1.0	1	24.9
5×4	1	17.4	16×1.5	1	20.3	37×1.5	1	27.0
5×6	1	18.8	16×2.5	1	23.8	37×2.5	1	32.2
7×1.5	1	14.6	19×0.75	1	18.7	44×0.75	1	26.4
7×2.5	1	17.3	19×1.0	1	19.6	44×1.0	1	27.2
7×4	1	18.5	19×1.5	1	21.8	44×1.5	1	30.6
7×6	1	20.4	19×2.5	1	24.8	44×2.5	1	36.2
8×1.5	1	14.6	19×4	1	26.8	48×0.75	1	26.7
8×2.5	1	17.3	19×6	1	29.7	48×1.0	1	27.5
8×4	1	18.5	24×0.75	1	22.0	48×1.5	1	31.0
8×6	1	20.4	24×1.0	1	22.6	48×2.5	1	37.1
10×1.5	1	18.1	24×1.5	1	24.4	52×0.75	1	27.3
10×2.5	1	20.9	24×2.5	1	28.0	52×1.0	1	28.1
10×4	1	23.2	27×0.75	1	22.3	52×1.5	1	31.7
10×6	1	25.2	27×1.0	1	22.5	52×2.5	1	37.5
12×1.5	1	18.5	27×1.5	1	24.8	61×0.75	1	32.4
12×2.5	1	22.1	27×2.5	1	29.1	61×1.0	1	33.7
12×4	1	23.8	30×0.75	1	22.9	61×1.5	1	38.4
12×6	1	25.9	30×1.0	1	23.5	61×2.5	1	43.8

KYJV32型铜芯交联聚乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆

Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel 1ire armored (KYJV32)

芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD	芯数×标称截面 mm² Core No.*nominal cross section area	导体种类 Conductor category	近似 外径 mm APPROX OD
4×2.5	2	15.7	12×1.5	2	18.9	30×0.75	2	23.5
4×4	2	16.9	12×2.5	2	22.5	30×1.0	2	24.2
4×6	2	18.1	12×4	2	24.6	30×1.5	2	26.1
4×10	2	20.7	12×6	2	26.7	30×2.5	2	31.0
5×2.5	2	16.6	14×1.5	2	20.0	37×0.75	2	24.9
5×4	2	18.0	14×2.5	2	23.4	37×1.0	2	25.6
5×6	2	19.7	14×4	2	25.6	37×1.5	2	27.7
5×10	2	22.8	14×6	2	27.8	37×2.5	2	33.7
7×1.5	2	15.8	16×1.5	2	20.8	44×0.75	2	27.2
7×2.5	2	17.6	16×2.5	2	24.3	44×1.0	2	28.0
7×4	2	19.5	19×0.75	2	19.6	44×1.5	2	31.4
7×6	2	21.7	19×1.0	2	20.1	44×2.5	2	37.4
7×10	2	24.4	19×1.5	2	22.3	48×0.75	2	27.5
8×1.5	2	17.0	19×2.5	2	25.3	48×1.0	2	28.4
8×2.5	2	19.1	19×4	2	27.8	48×1.5	2	31.8
8×4	2	21.9	19×6	2	31.3	48×2.5	2	37.9
8×6	2	23.6	24×0.75	2	22.6	52×0.75	2	28.1
8×10	2	26.7	24×1.0	2	23.2	52×1.0	2	30.0
10×1.5	2	18.5	24×1.5	2	25.0	52×1.5	2	33.3
10×2.5	2	22.0	24×2.5	2	29.2	52×2.5	2	38.8
10×4	2	24.0	27×0.75	2	22.9	61×0.75	2	33.7
10×6	2	26.0	27×1.0	2	23.6	61×1.0	2	35.0
10×10	2	30.6	27×1.5	2	25.4	61×1.5	2	39.3
/	/	/	27×2.5	2	30.1	61×2.5	2	45.3

聚氯乙烯绝缘控制电缆

Control Cable with PVC Insulation

本产品适用于交流额定电压450/750V及以下控制，监控回路及保护线路等场合使用。

一、生产执行标准

GB/T 9330-2020。

二、使用特点

- 1、电缆导体的长期允许工作温度为70℃；
- 2、电缆的敷设温度应不低于0℃，推荐的允许弯曲半径：无铠装层的电缆，应不小于电缆外径的6倍；有铠装或铜带屏蔽结构的电缆；应不小于电缆外径的12倍；有屏蔽层结构的软电缆，应不小于电缆外径的6倍。

三、电缆型号及主要使用范围

型号 Type	名称 Description	主要使用范围 Application occasion
KVV	铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Control cable with Cu core, PVC insulation and sheath	敷设在室内、电缆沟、管道固定场合 Lay in a fixed place,such as indoors, cable trench and conduit
KVVP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆 Control cable with Cu core, PVC insulation and sheath, copper wire braided shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation.
KVVP2	铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Control cable with Cu core, PVC insulation and sheath, copper tape shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation.
KVVP3	铜芯聚氯乙烯绝缘聚氯乙烯护套铝塑复合带屏蔽控制电缆 Control cable with Cu conductor, PVC insulation, PVC sheath and Aluminum polyester tape	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation.
KVVP4	铜芯聚氯乙烯绝缘聚氯乙烯护套铜塑复合带屏蔽控制电缆 Control cable with Cu conductor, PVC insulation, PVC sheath and Cu polyester tape	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation.
KVV22	铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Control cable with Cu core, PVC insulation and sheath, steel tape armoring	敷设在室内、电缆沟、管道直埋等能承受较大机械外力的固定场合 For laying indoors, in cable trench, in conduit and underground , able to bear heavier pulling force, and for fixed installation.
KVVP2-22	铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽钢带铠装控制电缆 Control cable with Cu conductor, PVC insulation, PVC sheath and steel tape armed	敷设在室内、电缆沟、管道直埋等要求屏蔽并能承受较大机械外力的固定场合 For laying indoors, in cable trench, in conduit and underground , able to bear heavier pulling force, the cable should be shielded and for fixed installation.
KVV32	铜芯聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装控制电缆 Control cable with Cu core, PVC insulation and sheath, steel wire armoring	敷设在室内、电缆沟、管道竖井等能承受较大机械拉力等固定场合 For laying indoors, in trenches, in ducts and down well , able to bear heavier pulling force, and for fixed installation.
KVVR	铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆 Control soft cable with Cu core, PVC insulation and sheath	敷设在室内移动要求柔软等场合 To be laid indoor with demand on mobility and softness
KVVRP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制软电缆 Control soft cable with Cu core, PVC insulation and sheath, copper wire braided shielding	敷设在室内移动要求柔软、屏蔽等场合 To be laid indoor with demand on shielding and softness

①阻燃电缆、耐火电缆及其组合型电缆的名称和型号应按GB/T 19666的规定在上述型号的基础上编制。
②比如阻燃型电缆，在原型号前加“Z-”、“ZA-”、“ZB-”、“ZC” “ZD-”。
③耐火型电缆，在原型号前加“N-”、“ZAN-”、“ZBN-”、“ZCN” “ZDN-”
④低烟低卤阻燃电缆，在原型号前加 “DDZ-”、“DDZA-”、“DDZB-”、“DDZC” “DDZD-”。

This product is suitable for Protective link or control & monitoring circuits, with the AC rated voltages up to and including 450/750V

Executive standard

GB/T 9330-2020.

Operational performance

- 1.Long term working temperature of conductor allowed by cable is 70℃.
- 2.Environment temperature for installation is no less than 0℃. Recommended Bending Radius for laying:For armored cable or copper tape shielding cable , not less than 12 times of cable outer diameter.For screened flexible cable and without armor cable , not less than 6 times.

Type , Description and Application Occasion

①The names and models of flame retardant cables, fire resistant cables and their combined type cables shall be compiled on the basis of the above models according to the provisions of GB/T 19666
②For flame-retardant cable type, add "Z-", "ZA-", "ZB-", "ZC" and "ZD-" before the original model
③For fire-resistant cable type, add "-", "ZAN-", "ZBN-", "ZCN", "ZDN-" before the original model;
④For Low smoke and low halogen flame retardant cable type, add "DDZ-", "DDZA-", "DDZB-", "DDZC" and "DDZD-" before the original model.

四、生产范围

Production Scope

型号 Type	导体标称截面 mm² Nominal cross section of conductor area							
	0.5	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core number							
KVV, KVVP	/	2~61				2~19		2~10
KVVP2, KVVP3, KVVP4	/	4~61				4~19		4~10
KVV22	/	7~61		4~61		4~19		4~10
KVVP2-22	/	7~61		4~61		4~19		4~10
KVV32	/	19~61		4~61		4~19		4~10
KVVR	2~61					/		/
KVVRP	2~61			2~48		/		/

注：阻燃电缆、耐火电缆及其组合型电缆的规格范围同上述对应型号的规格范围。
推荐的芯数系列为：2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52和61芯。
The specifications of flame retardant cable, fire resistant and its combination cable shall be the same as the specifications of the corresponding modles in the table above. Recommended number of cores is 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61.

五、技术参数

Technical Parameter

1、成品电缆导体20℃时直流电阻

1、DC resistance of finished cable conductor at 20℃.

项目 Item	单位 Unit	技术指标 Technical indices							
20℃时导体直流电阻 DC resistance of conductor at 20℃	Ω/km	截面mm ² Cross section area	0.75	1.0	1.5	2.5	4	6	10
		1类或2类 Category 1 or 2	24.5	18.1	12.2	7.41	4.61	3.08	1.83
		5类, Category 5	26.0	19.5	13.3	7.98	/	/	/

2、成品电缆应经受3.0kV/5min工频交流电压试验，绝缘不击穿。

2、Finished cable should bear A.C. voltage of 3.0KV under power frequency for 5min without puncture of insulation.

3、电缆在70℃时绝缘电阻。

3、Insulation resistance of finished cable at 70℃.

项目 Item	单位 Unit	技术指标 Technical indices							
70℃时绝缘电阻 Insulation resistance at 70℃	MΩ.km	截面mm ² Cross section area	0.75	1.0	1.5	2.5	4	6	10
		1类, Category 1	0.012	0.011	0.011	0.010	0.0085	0.0079	/
		2类, Category 2	0.014	0.013	0.010	0.009	0.0077	0.0065	0.0065

六、典型电缆结构及外形尺寸

External Dimension of Common Type

KVV型铜芯聚氯乙烯绝缘及护套控制电缆

Control cable with Cu core, PVC insulation and sheath (KVV)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
2×0.75	1	7.0	8×2.5	1	14.9	24×0.75	1	16.4
2×1.0	1	7.2	8×4	1	16.3	24×1.0	1	17.0
2×1.5	1	8.2	8×6	1	18.0	24×1.5	1	20.4
2×2.5	1	9.4	10×0.75	1	11.4	24×2.5	1	24.0
2×4	1	10.2	10×1.0	1	11.8	27×0.75	1	16.7
2×6	1	11.2	10×1.5	1	14.4	27×1.0	1	17.3
3×0.75	1	7.4	10×2.5	1	16.8	27×1.5	1	20.8
3×1.0	1	7.6	10×4	1	18.4	27×2.5	1	24.5
3×1.5	1	8.6	10×6	1	20.8	30×0.75	1	17.3
3×2.5	1	9.9	12×0.75	1	11.8	30×1.0	1	17.9
3×4	1	10.8	12×1.0	1	12.2	30×1.5	1	21.5
3×6	1	11.9	12×1.5	1	14.8	30×2.5	1	25.4
4×0.75	1	7.9	12×2.5	1	17.3	37×0.75	1	18.6
4×1.0	1	8.2	12×4	1	19.0	37×1.0	1	19.7
4×1.5	1	9.4	12×6	1	21.5	37×1.5	1	23.2

4×2.5	1	10.8	14×0.75	1	12.3	37×2.5	1	27.4
4×4	1	11.8	14×1.0	1	13.3	44×0.75	1	21.2
4×6	1	13.6	14×1.5	1	15.5	44×1.0	1	22.0
5×0.75	1	8.5	14×2.5	1	18.2	44×1.5	1	26.0
5×1.0	1	8.8	14×4	1	20.4	44×2.5	1	31.4
5×1.5	1	10.2	14×6	1	22.6	48×0.75	1	21.5
5×2.5	1	11.8	16×0.75	1	13.5	48×1.0	1	22.3
5×4	1	13.5	16×1.0	1	14.0	48×1.5	1	26.4
5×6	1	14.8	16×1.5	1	16.4	48×2.5	1	31.9
7×0.75	1	9.2	16×2.5	1	19.6	52×0.75	1	22.1
7×1.0	1	9.5	16×4	1	21.5	52×1.0	1	22.9
7×1.5	1	11.0	16×6	1	23.8	52×1.5	1	27.1
7×2.5	1	13.4	19×0.75	1	14.2	52×2.5	1	32.8
7×4	1	14.6	19×1.0	1	14.7	61×0.75	1	23.4
7×6	1	16.1	19×1.5	1	17.2	61×1.0	1	24.3
8×0.75	1	10.2	19×2.5	1	20.6	61×1.5	1	29.4
8×1.0	1	10.5	19×4	1	22.6	61×2.5	1	35.2
8×1.5	1	12.3	19×6	1	25.1	/	/	/

KVV型铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath (KVV)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
2×0.75	2	7.2	8×0.75	2	10.5	19×2.5	2	21.1
2×1.0	2	7.4	8×1.0	2	10.9	19×4	2	23.6
2×1.5	2	8.4	8×1.5	2	12.6	19×6	2	26.1
2×2.5	2	9.6	8×2.5	2	15.3	24×0.75	2	17.0
2×4	2	10.6	8×4	2	17.0	24×1.0	2	17.6
2×6	2	11.6	8×6	2	18.7	24×1.5	2	21.0
2×10	2	14.8	8×10	2	23.6	24×2.5	2	24.6
3×0.75	2	7.6	10×0.75	2	11.8	27×0.75	2	17.3
3×1.0	2	7.8	10×1.0	2	12.2	27×1.0	2	18.0
3×1.5	2	8.9	10×1.5	2	14.8	27×1.5	2	21.4
3×2.5	2	10.2	10×2.5	2	17.2	27×2.5	2	25.1
3×4	2	11.2	10×4	2	19.2	30×0.75	2	17.9
3×6	2	12.3	10×6	2	21.6	30×1.0	2	18.6
3×10	2	15.7	10×10	2	26.8	30×1.5	2	22.2
4×0.75	2	8.2	12×0.75	2	12.2	30×2.5	2	26.0
4×1.0	2	8.4	12×1.0	2	12.6	37×0.75	2	19.3
4×1.5	2	9.6	12×1.5	2	15.3	37×1.0	2	20.4
4×2.5	2	11.1	12×2.5	2	17.8	37×1.5	2	23.9
4×4	2	12.3	12×4	2	19.8	37×2.5	2	28.1
4×6	2	14.1	12×6	2	22.3	44×0.75	2	22.0
4×10	2	17.2	14×0.75	2	12.7	44×1.0	2	22.8
5×0.75	2	8.8	14×1.0	2	13.8	44×1.5	2	26.8
5×1.0	2	9.1	14×1.5	2	16.0	44×2.5	2	32.2
5×1.5	2	10.4	14×2.5	2	18.6	48×0.75	2	22.3
5×2.5	2	12.1	14×4	2	21.2	48×1.0	2	23.2
5×4	2	14.0	14×6	2	23.4	48×1.5	2	27.2
5×6	2	15.4	16×0.75	2	14.0	48×2.5	2	32.7
5×10	2	18.9	16×1.0	2	14.5	52×0.75	2	22.9
7×0.75	2	9.5	16×1.5	2	16.8	52×1.0	2	23.8
7×1.0	2	9.8	16×2.5	2	20.1	52×1.5	2	28.0
7×1.5	2	11.3	16×4	2	22.4	52×2.5	2	33.6
7×2.5	2	13.7	16×6	2	24.8	61×0.75	2	24.3
7×4	2	15.2	19×0.75	2	14.7	61×1.0	2	25.2
7×6	2	16.7	19×1.0	2	15.2	61×1.5	2	30.3
7×10	2	21.0	19×1.5	2	17.7	61×2.5	2	36.1

KVVP型铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath and copper wire braided shielding (KVVP)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
2×0.75	1	7.8	8×2.5	1	15.9	24×0.75	1	17.4
2×1.0	1	8.0	8×4	1	17.3	24×1.0	1	18.0
2×1.5	1	9.0	8×6	1	19.0	24×1.5	1	21.4
2×2.5	1	10.2	10×0.75	1	12.2	24×2.5	1	25.3
2×4	1	11.0	10×1.0	1	13.2	27×0.75	1	17.7
2×6	1	12.0	10×1.5	1	15.4	27×1.0	1	18.3
3×0.75	1	8.1	10×2.5	1	17.8	27×1.5	1	21.8
3×1.0	1	8.3	10×4	1	19.8	27×2.5	1	25.8
3×1.5	1	9.4	10×6	1	21.8	30×0.75	1	18.3
3×2.5	1	10.7	12×0.75	1	13.1	30×1.0	1	18.9
3×4	1	11.6	12×1.0	1	13.5	30×1.5	1	22.5
3×6	1	13.2	12×1.5	1	15.8	30×2.5	1	26.6
4×0.75	1	8.7	12×2.5	1	18.3	37×0.75	1	20.0
4×1.0	1	8.9	12×4	1	20.4	37×1.0	1	20.7
4×1.5	1	10.1	12×6	1	22.5	37×1.5	1	24.2
4×2.5	1	11.6	14×0.75	1	13.7	37×2.5	1	29.3
4×4	1	13.1	14×1.0	1	14.3	44×0.75	1	22.2
4×6	1	14.6	14×1.5	1	16.5	44×1.0	1	23.0
5×0.75	1	9.3	14×2.5	1	19.6	44×1.5	1	27.3
5×1.0	1	9.6	14×4	1	21.4	44×2.5	1	32.7
5×1.5	1	10.9	14×6	1	23.6	48×0.75	1	22.5
5×2.5	1	13.1	16×0.75	1	14.5	48×1.0	1	23.3
5×4	1	14.5	16×1.0	1	15.0	48×1.5	1	27.7
5×6	1	15.8	16×1.5	1	17.4	48×2.5	1	33.2
7×0.75	1	10.0	16×2.5	1	20.6	52×0.75	1	23.1
7×1.0	1	10.3	16×4	1	22.5	52×1.0	1	23.9
7×1.5	1	11.8	16×6	1	25.1	52×1.5	1	29.0
7×2.5	1	14.4	19×0.75	1	15.2	52×2.5	1	34.0
7×4	1	15.6	19×1.0	1	15.7	61×0.75	1	24.4
7×6	1	17.1	19×1.5	1	18.2	61×1.0	1	25.6
8×0.75	1	10.9	19×2.5	1	21.6	61×1.5	1	30.7
8×1.0	1	11.3	19×4	1	23.6	61×2.5	1	36.7
8×1.5	1	13.6	19×6	1	26.4	/	/	/

KVVP型铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath and copper wire braided shielding (KVVP)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
2×0.75	2	8.0	7×10	2	22.0	19×2.5	2	22.1
2×1.0	2	8.2	8×0.75	2	11.3	24×0.75	2	18.0
2×1.5	2	9.2	8×1.0	2	11.6	24×1.0	2	18.6
2×2.5	2	10.4	8×1.5	2	14.2	24×1.5	2	22.0
2×4	2	11.4	8×2.5	2	16.3	24×2.5	2	25.9
2×6	2	12.4	8×4	2	18.0	27×0.75	2	18.3
2×10	2	15.8	8×6	2	20.1	27×1.0	2	19.0
3×0.75	2	8.3	8×10	2	24.9	27×1.5	2	22.4
3×1.0	2	8.5	10×0.75	2	13.2	27×2.5	2	26.4
3×1.5	2	9.6	10×1.0	2	13.6	30×0.75	2	18.9
3×2.5	2	10.9	10×1.5	2	15.8	30×1.0	2	20.0
3×4	2	12.0	10×2.5	2	18.2	30×1.5	2	23.2
3×6	2	13.7	10×4	2	20.6	30×2.5	2	27.3
3×10	2	16.7	10×6	2	22.6	37×0.75	2	20.7
4×0.75	2	8.9	10×10	2	28.1	37×1.0	2	21.4
4×1.0	2	9.2	12×0.75	2	13.5	37×1.5	2	25.2
4×1.5	2	10.4	12×1.0	2	14.2	37×2.5	2	30.0

4×2.5	2	11.8	12×1.5	2	16.3	44×0.75	2	23.0
4×4	2	13.6	12×2.5	2	18.8	44×1.0	2	23.8
4×6	2	15.1	12×4	2	21.2	44×1.5	2	28.1
4×10	2	18.2	12×6	2	23.3	44×2.5	2	33.5
5×0.75	2	9.6	14×0.75	2	14.3	48×0.75	2	23.3
5×1.0	2	9.8	14×1.0	2	14.8	48×1.0	2	24.2
5×1.5	2	11.2	14×1.5	2	17.0	48×1.5	2	29.1
5×2.5	2	13.4	14×2.5	2	20.0	48×2.5	2	34.0
5×4	2	15.0	14×4	2	22.2	52×0.75	2	23.9
5×6	2	16.4	14×6	2	24.7	52×1.0	2	25.0
5×10	2	20.3	16×0.75	2	15.0	52×1.5	2	29.8
7×0.75	2	10.3	16×1.0	2	15.5	52×2.5	2	35.3
7×1.0	2	10.6	16×1.5	2	17.8	61×0.75	2	25.3
7×1.5	2	12.1	16×2.5	2	21.1	61×1.0	2	26.5
7×2.5	2	14.7	19×0.75	2	15.7	61×1.5	2	31.6
7×4	2	16.2	19×1.0	2	16.2	61×2.5	2	37.6
7×6	2	17.7	19×1.5	2	18.7	/	/	/

KVVP2(P3,P4)型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）控制电缆
Control Cable with Cu conductor,PVC insulation and PVC sheath and Copper tape(Aluminium polyedter tape ,Copper polyedter tape)shielding KVVP2(P3,P4)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×0.75	1	8.3	10×6	1	21.2	27×0.75	1	17.1
4×1.0	1	8.6	12×0.75	1	12.8	27×1.0	1	17.7
4×1.5	1	9.8	12×1.0	1	13.2	27×1.5	1	21.2
4×2.5	1	11.2	12×1.5	1	15.2	27×2.5	1	24.9
4×4	1	12.2	12×2.5	1	17.7	30×0.75	1	17.7
4×6	1	14.0	12×4	1	19.4	30×1.0	1	18.3
5×0.75	1	8.9	12×6	1	21.9	30×1.5	1	21.9
5×1.0	1	9.2	14×0.75	1	13.3	30×2.5	1	25.8
5×1.5	1	10.6	14×1.0	1	13.7	37×0.75	1	19.0
5×2.5	1	12.2	14×1.5	1	15.9	37×1.0	1	20.1
5×4	1	13.9	14×2.5	1	18.6	37×1.5	1	23.6
5×6	1	15.2	14×4	1	20.8	37×2.5	1	27.8
7×0.75	1	9.6	14×6	1	23.0	44×0.75	1	21.6
7×1.0	1	9.9	16×0.75	1	13.9	44×1.0	1	22.4
7×1.5	1	11.4	16×1.0	1	14.4	44×1.5	1	26.4
7×2.5	1	13.2	16×1.5	1	16.8	44×2.5	1	31.8
7×4	1	15.0	16×2.5	1	20.0	48×0.75	1	21.9
7×6	1	16.5	16×4	1	21.9	48×1.0	1	22.7
8×0.75	1	10.6	16×6	1	24.2	48×1.5	1	26.8
8×1.0	1	10.9	19×0.75	1	14.6	48×2.5	1	32.3
8×1.5	1	13.3	19×1.0	1	15.1	52×0.75	1	22.5
8×2.5	1	15.3	19×1.5	1	17.6	52×1.0	1	23.3
8×4	1	16.7	19×2.5	1	21.0	52×1.5	1	27.5
8×6	1	18.4	19×4	1	23.0	52×2.5	1	33.2
10×0.75	1	11.8	19×6	1	25.5	61×0.75	1	23.8
10×1.0	1	12.8	24×0.75	1	16.8	61×1.0	1	24.7
10×1.5	1	14.8	24×1.0	1	17.4	61×1.5	1	29.2
10×2.5	1	17.2	24×1.5	1	20.8	61×2.5	1	35.2
10×4	1	18.8	24×2.5	1	24.4	/	/	/

KVVP2(P3,P4)型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）控制电缆
Control Cable with Cu conductor,PVC insulation and PVC sheath and Copper tape(Aluminium polyedter tape ,Copper polyedter tape)shielding KVVP2(P3,P4)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×0.75	2	8.6	10×2.5	2	17.6	24×2.5	2	25.0
4×1.0	2	8.8	10×4	2	19.6	27×0.75	2	17.7
4×1.5	2	10.0	10×6	2	22.0	27×1.0	2	18.4
4×2.5	2	11.5	10×10	2	27.2	27×1.5	2	21.8
4×4	2	12.7	12×0.75	2	13.2	27×2.5	2	25.5
4×6	2	14.5	12×1.0	2	13.6	30×0.75	2	18.3
4×10	2	17.6	12×1.5	2	15.7	30×1.0	2	19.0
5×0.75	2	9.2	12×2.5	2	18.2	30×1.5	2	22.6
5×1.0	2	9.5	12×4	2	20.6	30×2.5	2	26.4
5×1.5	2	10.8	12×6	2	22.7	37×0.75	2	20.1
5×2.5	2	12.5	12×10	2	28.1	37×1.0	2	20.8
5×4	2	14.4	14×0.75	2	13.7	37×1.5	2	24.3
5×6	2	15.8	14×1.0	2	14.2	37×2.5	2	28.5
5×10	2	19.3	14×1.5	2	16.4	44×0.75	2	22.4
7×0.75	2	9.9	14×2.5	2	19.0	44×1.0	2	23.2
7×1.0	2	10.2	14×4	2	21.6	44×1.5	2	27.2
7×1.5	2	11.7	14×6	2	23.8	44×2.5	2	32.6
7×2.5	2	14.1	14×10	2	29.6	48×0.75	2	22.7
7×4	2	15.6	16×0.75	2	14.4	48×1.0	2	23.6
7×6	2	17.1	16×1.0	2	14.9	48×1.5	2	27.6
7×10	2	21.0	16×1.5	2	17.2	48×2.5	2	33.1
8×0.75	2	10.9	16×2.5	2	20.5	52×0.75	2	23.3
8×1.0	2	11.3	19×0.75	2	15.1	52×1.0	2	24.2
8×1.5	2	13.6	19×1.0	2	15.6	52×1.5	2	28.4
8×2.5	2	15.7	19×1.5	2	18.1	52×2.5	2	34.0
8×4	2	17.4	19×2.5	2	21.5	61×0.75	2	24.7
8×6	2	19.1	19×4	2	24.0	61×1.0	2	25.6
8×10	2	24.0	19×6	2	26.5	61×1.5	2	30.1
10×0.75	2	12.8	24×0.75	2	17.4	61×2.5	2	36.5
10×1.0	2	13.2	24×1.0	2	18.0	/	/	/
10×1.5	2	15.2	24×1.5	2	21.4	/	/	/

KVV22型铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆
Control Cable with Cu conductor,PVC insulation and PVC sheath and steel tape armored (KVV22)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×1.5	1	12.8	12×1.0	1	15.6	27×1.5	1	23.6
4×2.5	1	14.2	12×1.5	1	17.6	27×2.5	1	27.7
4×4	1	15.2	12×2.5	1	20.5	30×0.75	1	20.5
4×6	1	16.4	12×4	1	22.2	30×1.0	1	21.1
5×1.5	1	13.6	12×6	1	24.3	30×1.5	1	24.3
5×2.5	1	15.2	14×0.75	1	15.7	30×2.5	1	28.6
5×4	1	16.3	14×1.0	1	16.1	37×0.75	1	21.8
5×6	1	17.6	14×1.5	1	18.3	37×1.0	1	22.5
7×0.75	1	12.6	14×2.5	1	21.4	37×1.5	1	26.0
7×1.0	1	12.9	14×4	1	23.2	37×2.5	1	31.2
7×1.5	1	14.4	14×6	1	25.4	44×0.75	1	24.0
7×2.5	1	16.2	16×0.75	1	16.3	44×1.0	1	24.8
7×4	1	17.4	16×1.0	1	16.8	44×1.5	1	29.2
7×6	1	18.9	16×1.5	1	19.6	44×2.5	1	34.6
8×0.75	1	13.6	16×2.5	1	22.4	48×0.75	1	24.3
8×1.0	1	13.9	19×0.75	1	17.0	48×1.0	1	25.1
8×1.5	1	15.7	19×1.0	1	17.5	48×1.5	1	30.2
8×2.5	1	17.7	19×1.5	1	20.4	48×2.5	1	35.5

8×4	1	19.5	19×2.5	1	23.4	52×0.75	1	24.9
8×6	1	21.2	19×4	1	25.4	52×1.0	1	25.7
10×0.75	1	14.8	19×6	1	28.3	52×1.5	1	30.9
10×1.0	1	15.2	24×0.75	1	19.6	52×2.5	1	36.4
10×1.5	1	17.2	24×1.0	1	20.2	61×0.75	1	26.2
10×2.5	1	20.0	24×1.5	1	23.2	61×1.0	1	27.5
10×4	1	21.6	24×2.5	1	27.2	61×1.5	1	32.6
10×6	1	23.6	27×0.75	1	19.9	61×2.5	1	39.6
12×0.75	1	15.2	27×1.0	1	20.5	/	/	/

KVV22型铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath and steel tape armored (KVV22)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×1.5	2	13.0	10×6	2	24.4	24×2.5	2	27.8
4×2.5	2	14.5	10×10	2	30.6	27×0.75	2	20.5
4×4	2	15.7	12×0.75	2	15.6	27×1.0	2	21.2
4×6	2	16.9	12×1.0	2	16.0	27×1.5	2	24.2
4×10	2	20.4	12×1.5	2	18.1	27×2.5	2	28.3
5×1.5	2	13.8	12×2.5	2	21.0	30×0.75	2	21.1
5×2.5	2	15.5	12×4	2	23.0	30×1.0	2	21.8
5×4	2	16.8	12×6	2	25.1	30×1.5	2	25.0
5×6	2	18.2	14×0.75	2	16.1	30×2.5	2	29.2
5×10	2	22.1	14×1.0	2	16.6	37×0.75	2	22.5
7×0.75	2	12.9	14×1.5	2	18.8	37×1.0	2	23.2
7×1.0	2	13.2	14×2.5	2	21.8	37×1.5	2	27.1
7×1.5	2	14.7	14×4	2	24.0	37×2.5	2	31.9
7×2.5	2	16.5	14×6	2	26.2	44×0.75	2	24.8
7×4	2	18.0	16×0.75	2	16.8	44×1.0	2	25.6
7×6	2	19.9	16×1.0	2	17.3	44×1.5	2	30.0
7×10	2	23.8	16×1.5	2	20.0	44×2.5	2	35.4
8×0.75	2	13.9	16×2.5	2	22.9	48×0.75	2	25.1
8×1.0	2	14.3	16×4	2	25.2	48×1.0	2	26.0
8×1.5	2	16.0	16×6	2	28.0	48×1.5	2	31.0
8×2.5	2	18.1	19×0.75	2	17.5	48×2.5	2	36.3
8×4	2	20.2	19×1.0	2	18.0	52×0.75	2	25.7
8×6	2	21.9	19×1.5	2	20.5	52×1.0	2	27.0
8×10	2	26.8	19×2.5	2	23.9	52×1.5	2	31.8
10×0.75	2	15.2	19×4	2	26.8	52×2.5	2	38.4
10×1.0	2	15.6	19×6	2	29.9	61×0.75	2	27.5
10×1.5	2	17.6	24×0.75	2	20.2	61×1.0	2	28.4
10×2.5	2	20.4	24×1.0	2	20.8	61×1.5	2	33.5
10×4	2	22.4	24×1.5	2	23.8	61×2.5	2	40.5

KVVP2 (P3,P4) -22型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）屏蔽钢带铠装控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath ,Copper tape(Aluminium polyester tape , Copper polyester tape)shielding and steel tape armored KVVP2(P3,P4)-22

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×1.5	1	12.0	12×0.75	1	15.6	27×1.5	1	22.8
4×2.5	1	12.7	12×1.0	1	16.0	27×2.5	1	26.9
4×4	1	14.1	12×1.5	1	17.2	30×0.75	1	20.9
4×6	1	15.1	12×2.5	1	20.1	30×1.0	1	21.5
4×10	1	16.3	12×4	1	21.8	30×1.5	1	23.5
5×1.5	1	13.4	12×6	1	23.9	30×2.5	1	27.7
5×2.5	1	15.0	14×0.75	1	16.1	37×0.75	1	22.2
5×4	1	16.1	14×1.0	1	16.5	37×1.0	1	22.9
5×6	1	17.5	14×1.5	1	17.9	37×1.5	1	25.0

7×0.75	1	13.0	14×2.5	1	20.9	37×2.5	1	30.2
7×1.0	1	13.3	14×4	1	22.7	44×0.75	1	24.4
7×1.5	1	14.2	14×6	1	24.9	44×1.0	1	25.2
7×2.5	1	16.0	16×0.75	1	16.7	44×1.5	1	28.0
7×4	1	17.2	16×1.0	1	17.2	44×2.5	1	33.4
7×6	1	18.7	16×1.5	1	18.6	48×0.75	1	24.7
8×0.75	1	14.0	16×2.5	1	21.8	48×1.0	1	25.2
8×1.0	1	14.3	19×0.75	1	17.4	48×1.5	1	28.0
8×1.5	1	15.4	19×1.0	1	17.9	48×2.5	1	33.4
8×2.5	1	17.4	19×1.5	1	19.8	52×0.75	1	25.3
8×4	1	18.8	19×2.5	1	22.8	52×1.0	1	26.1
8×6	1	20.9	19×4	1	24.8	52×1.5	1	29.7
10×0.75	1	15.2	19×6	1	27.3	52×2.5	1	35.1
10×1.0	1	15.6	24×0.75	1	20.0	61×0.75	1	27.0
10×1.5	1	16.8	24×1.0	1	20.6	61×1.0	1	27.9
10×2.5	1	19.6	24×1.5	1	22.4	61×1.5	1	31.2
10×4	1	21.2	24×2.5	1	26.0	61×2.5	1	38.2
10×6	1	23.2	27×0.75	1	20.3	/	/	/
10×10	1	26.8	27×1.0	1	20.9	/	/	/

KVVP2-22型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽钢带铠装控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath ,Copper tape shielding and steel tape armored (KVVP2-22)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×1.5	2	12.9	10×6	2	24.0	27×1.0	2	21.6
4×2.5	2	14.4	10×10	2	28.0	27×1.5	2	23.4
4×4	2	15.6	12×0.75	2	16.0	27×2.5	2	27.5
4×6	2	16.8	12×1.0	2	16.4	30×0.75	2	21.5
4×10	2	19.0	12×1.5	2	17.6	30×1.0	2	22.2
5×1.5	2	13.7	12×2.5	2	20.5	30×1.5	2	24.1
5×2.5	2	15.3	12×4	2	22.6	30×2.5	2	28.4
5×4	2	16.7	12×6	2	24.7	37×0.75	2	22.9
5×6	2	18.0	14×0.75	2	16.5	37×1.0	2	23.6
5×10	2	20.8	14×1.0	2	17.0	37×1.5	2	25.7
7×0.75	2	13.3	14×1.5	2	18.3	37×2.5	2	30.9
7×1.0	2	13.6	14×2.5	2	21.4	44×0.75	2	25.2
7×1.5	2	14.5	14×4	2	23.6	44×1.0	2	26.0
7×2.5	2	16.3	14×6	2	25.8	44×1.5	2	29.4
7×4	2	17.8	16×0.75	2	17.2	44×2.5	2	34.6
7×6	2	19.7	16×1.0	2	17.7	48×0.75	2	25.5
7×10	2	22.4	16×1.5	2	19.5	48×1.0	2	26.0
8×0.75	2	14.3	16×2.5	2	22.3	48×1.5	2	29.4
8×1.0	2	14.7	19×0.75	2	17.9	48×2.5	2	34.6
8×1.5	2	15.7	19×1.0	2	18.4	52×0.75	2	26.1
8×2.5	2	17.8	19×1.5	2	20.3	52×1.0	2	27.4
8×4	2	19.9	19×2.5	2	23.3	52×1.5	2	30.5
8×6	2	21.6	19×4	2	25.8	52×2.5	2	37.2
8×10	2	24.7	19×6	2	28.3	61×0.75	2	27.9
10×0.75	2	15.6	24×0.75	2	20.6	61×1.0	2	29.4
10×1.0	2	16.0	24×1.0	2	21.2	61×1.5	2	32.1
10×1.5	2	17.2	24×1.5	2	23.0	61×2.5	2	39.1
10×2.5	2	20.0	24×2.5	2	27.0	/	/	/
10×4	2	22.0	27×0.75	2	20.9	/	/	/

KVV32型铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath and steel wire armored (KVV32)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×2.5	1	14.5	14×1.5	1	19.6	30×1.5	1	25.5
4×4	1	16.4	14×2.5	1	22.9	30×2.5	1	29.7
4×6	1	17.6	14×4	1	24.7	37×0.75	1	24.2
5×2.5	1	16.3	14×6	1	26.9	37×1.0	1	24.9
5×4	1	17.4	16×1.5	1	20.3	37×1.5	1	27.0
5×6	1	18.8	16×2.5	1	23.8	37×2.5	1	32.2
7×1.5	1	14.6	19×0.75	1	18.7	44×0.75	1	26.4
7×2.5	1	17.3	19×1.0	1	19.6	44×1.0	1	27.2
7×4	1	18.5	19×1.5	1	21.8	44×1.5	1	30.6
7×6	1	20.4	19×2.5	1	24.8	44×2.5	1	36.2
8×1.5	1	14.6	19×4	1	26.8	48×0.75	1	26.7
8×2.5	1	17.3	19×6	1	29.7	48×1.0	1	27.5
8×4	1	18.5	24×0.75	1	22.0	48×1.5	1	31.0
8×6	1	20.4	24×1.0	1	22.6	48×2.5	1	37.1
10×1.5	1	18.1	24×1.5	1	24.4	52×0.75	1	27.3
10×2.5	1	20.9	24×2.5	1	28.0	52×1.0	1	28.1
10×4	1	23.2	27×0.75	1	22.3	52×1.5	1	31.7
10×6	1	25.2	27×1.0	1	22.5	52×2.5	1	37.5
12×1.5	1	18.5	27×1.5	1	24.8	61×0.75	1	32.4
12×2.5	1	22.1	27×2.5	1	29.1	61×1.0	1	33.7
12×4	1	23.8	30×0.75	1	22.9	61×1.5	1	38.4
12×6	1	25.9	30×1.0	1	23.5	61×2.5	1	43.8

KVV32型铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆

Control Cable with Cu conductor,PVC insulation and PVC sheath and steel wire armored (KVV32)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
4×2.5	2	15.7	12×2.5	2	22.5	30×1.0	2	24.2
4×4	2	16.9	12×4	2	24.6	30×1.5	2	26.1
4×6	2	18.1	12×6	2	26.7	30×2.5	2	31.0
4×10	2	20.7	14×1.5	2	20.0	37×0.75	2	24.9
5×2.5	2	16.6	14×2.5	2	23.4	37×1.0	2	25.6
5×4	2	18.0	14×4	2	25.6	37×1.5	2	27.7
5×6	2	19.7	14×6	2	27.8	37×2.5	2	33.7
5×10	2	22.8	16×1.5	2	20.8	44×0.75	2	27.2
7×1.5	2	15.8	16×2.5	2	24.3	44×1.0	2	28.0
7×2.5	2	17.6	19×0.75	2	19.6	44×1.5	2	31.4
7×4	2	19.5	19×1.0	2	20.1	44×2.5	2	37.4
7×6	2	21.7	19×1.5	2	22.3	48×0.75	2	27.5
7×10	2	24.4	19×2.5	2	25.3	48×1.0	2	28.4
8×1.5	2	17.0	19×4	2	27.8	48×1.5	2	31.8
8×2.5	2	19.1	19×6	2	31.3	48×2.5	2	37.9
8×4	2	21.9	24×0.75	2	22.6	52×0.75	2	28.1
8×6	2	23.6	24×1.0	2	23.2	52×1.0	2	30.0
8×10	2	26.7	24×1.5	2	25.0	52×1.5	2	33.3
10×1.5	2	18.5	24×2.5	2	29.2	52×2.5	2	38.8
10×2.5	2	22.0	27×0.75	2	22.9	61×0.75	2	33.7
10×4	2	24.0	27×1.0	2	23.6	61×1.0	2	35.0
10×6	2	26.0	27×1.5	2	25.4	61×1.5	2	39.3
10×10	2	30.6	27×2.5	2	30.1	61×2.5	2	45.3
12×1.5	2	18.9	30×0.75	2	23.5	/	/	/

KVVR型铜芯聚氯乙烯绝缘聚氯乙烯护控制软电缆

Flexible Control Cable with Cu conductor,PVC insulation and PVC sheath (KVVR)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
2×0.5	5	7.0	8×1.0	5	10.9	24×0.5	5	16.4
2×0.75	5	7.2	8×1.5	5	12.6	24×0.75	5	17.0
2×1.0	5	7.6	8×2.5	5	15.3	24×1.0	5	17.6
2×1.5	5	8.4	8×4	5	17.0	24×1.5	5	21.0
2×2.5	5	9.8	8×6	5	18.7	24×2.5	5	24.6
2×4	5	10.8	8×10	5	23.6	27×0.5	5	16.7
2×6	5	11.8	10×0.5	5	11.4	27×0.75	5	17.3
2×10	5	15.0	10×0.75	5	11.8	27×1.0	5	18.0
3×0.5	5	7.4	10×1.0	5	12.2	27×1.5	5	21.4
3×0.75	5	7.6	10×1.5	5	14.8	27×2.5	5	25.1
3×1.0	5	8.0	10×2.5	5	17.2	30×0.5	5	17.3
3×1.5	5	8.9	10×4	5	19.2	30×0.75	5	17.9
3×2.5	5	10.4	10×6	5	21.6	30×1.0	5	18.6
3×4	5	11.5	10×10	5	26.8	30×1.5	5	22.2
3×6	5	12.5	12×0.5	5	11.8	30×2.5	5	26.0
3×10	5	15.9	12×0.75	5	12.2	37×0.5	5	18.6
4×0.5	5	7.9	12×1.0	5	12.6	37×0.75	5	19.3
4×0.75	5	8.2	12×1.5	5	15.3	37×1.0	5	20.4
4×1.0	5	8.7	12×2.5	5	17.8	37×1.5	5	23.9
4×1.5	5	9.6	12×4	5	19.8	37×2.5	5	28.1
4×2.5	5	11.3	12×6	5	22.3	44×0.5	5	21.2
4×4	5	12.5	14×0.5	5	12.3	44×0.75	5	22.0
4×6	5	14.3	14×0.75	5	12.7	44×1.0	5	22.8
4×10	5	17.5	14×1.0	5	13.8	44×1.5	5	26.8
5×0.5	5	8.5	14×1.5	5	16.0	44×2.5	5	32.2
5×0.75	5	8.8	14×2.5	5	18.6	48×0.5	5	21.5
5×1.0	5	9.4	14×4	5	21.2	48×0.75	5	22.3
5×1.5	5	10.4	14×6	5	23.4	48×1.0	5	23.2
5×2.5	5	12.3	16×0.5	5	13.5	48×1.5	5	27.2
5×4	5	14.3	16×0.75	5	14.0	48×2.5	5	32.7
5×6	5	15.6	16×1.0	5	14.5	52×0.5	5	22.1
5×10	5	19.1	16×1.5	5	16.8	52×0.75	5	22.9
7×0.5	5	9.2	16×2.5	5	20.1	52×1.0	5	23.8
7×0.75	5	9.5	16×4	5	22.4	52×1.5	5	28.0
7×1.0	5	10.1	16×6	5	24.8	52×2.5	5	33.6
7×1.5	5	11.3	19×0.5	5	14.2	61×0.5	5	23.4
7×2.5	5	14.0	19×0.75	5	14.7	61×0.75	5	24.3
7×4	5	15.5	19×1.0	5	15.2	61×1.0	5	25.2
7×6	5	17.0	19×1.5	5	17.7	61×1.5	5	30.3
7×10	5	21.3	19×2.5	5	21.1	61×2.5	5	36.1
8×0.5	5	10.2	19×4	5	23.6	/	/	/
8×0.75	5	10.5	19×6	5	26.1	/	/	/

KVVRP型铜芯聚氯乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制软电缆

Flexible Control Cable with Cu conductor,PVC insulation , PVC sheath and Copper braided shield(KVVRP)

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter	芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor category	外径 mm Outer diameter
2×0.5	5	7.8	8×1.0	5	12.0	24×0.5	5	17.4
2×0.75	5	8.0	8×1.5	5	14.2	24×0.75	5	18.0
2×1.0	5	8.4	8×2.5	5	16.6	24×1.0	5	19.6
2×1.5	5	9.2	8×4	5	18.3	24×1.5	5	22.0
2×2.5	5	10.6	8×6	5	20.5	24×2.5	5	26.5
2×4	5	11.6	8×10	5	25.2	27×0.5	5	17.7
2×6	5	13.2	10×0.5	5	12.2	27×0.75	5	18.3
2×10	5	16.0	10×0.75	5	13.2	27×1.0	5	20.0

3×0.5	5	8.1	10×1.0	5	14.2	27×1.5	5	22.4
3×0.75	5	8.3	10×1.5	5	15.8	27×2.5	5	27.0
3×1.0	5	8.8	10×2.5	5	18.6	30×0.5	5	18.3
3×1.5	5	9.6	10×4	5	21.0	30×0.75	5	18.9
3×2.5	5	11.1	10×6	5	23.0	30×1.0	5	20.6
3×4	5	12.2	10×10	5	29.1	30×1.5	5	23.2
3×6	5	14.1	12×0.5	5	13.1	30×2.5	5	27.9
3×10	5	16.9	12×0.75	5	13.5	37×0.5	5	20.0
4×0.5	5	8.7	12×1.0	5	14.6	37×0.75	5	20.7
4×0.75	5	8.9	12×1.5	5	16.3	37×1.0	5	22.1
4×1.0	5	9.4	12×2.5	5	19.6	37×1.5	5	25.2
4×1.5	5	10.4	12×4	5	21.7	37×2.5	5	30.7
4×2.5	5	12.1	12×6	5	23.7	44×0.5	5	22.2
4×4	5	14.1	14×0.5	5	13.7	44×0.75	5	23.0
4×6	5	15.3	14×0.75	5	14.3	44×1.0	5	24.9
4×10	5	18.5	14×1.0	5	15.2	44×1.5	5	28.1
5×0.5	5	9.3	14×1.5	5	17.0	44×2.5	5	34.7
5×0.75	5	9.6	14×2.5	5	20.5	48×0.5	5	22.5
5×1.0	5	10.1	14×4	5	22.7	48×0.75	5	23.3
5×1.5	5	11.2	14×6	5	25.1	48×1.0	5	25.2
5×2.5	5	13.7	16×0.5	5	14.5	48×1.5	5	29.1
5×4	5	15.3	16×0.75	5	15.0	48×2.5	5	35.2
5×6	5	16.6	16×1.0	5	16.0	52×0.5	5	23.1
5×10	5	20.5	16×1.5	5	17.8	52×0.75	5	23.9
7×0.5	5	10.0	16×2.5	5	21.5	52×1.0	5	25.9
7×0.75	5	10.3	16×4	5	23.9	52×1.5	5	29.8
7×1.0	5	10.9	16×6	5	26.5	52×2.5	5	36.4
7×1.5	5	12.1	19×0.5	5	15.2	61×0.5	5	24.4
7×2.5	5	15.0	19×0.75	5	15.7	61×0.75	5	25.6
7×4	5	16.5	19×1.0	5	16.7	61×1.0	5	27.4
7×6	5	18.0	19×1.5	5	18.7	61×1.5	5	31.6
7×10	5	22.3	19×2.5	5	22.6	61×2.5	5	38.5
8×0.5	5	10.9	19×4	5	25.4	/	/	/
8×0.75	5	11.3	19×6	5	27.9	/	/	/

硅橡胶绝缘（阻燃）控制电缆

(Flame retardant) Control cable with silicon insulation

本产品适用于钢铁、冶炼、电厂、焦化厂、航空、冶金机械、石油、化工等高温工业中，额定电压450/750V及以下的控制及监控回路中。它具有优良的耐高温、阻燃、耐辐射、耐老化、耐臭氧、防水等特性，同时具有很好的耐寒性、耐候性。

一、生产执行标准

TICW5-2009, JB/T13108-2017及企业标准。

二、使用特点

- 1、交流额定电压 U_0/U : 450/750V;
- 2、电缆的敷设温度应不低于-20℃;
- 3、电缆允许工作最高温度范围: -60℃~+180℃, 推荐无铠装或屏蔽结构弯曲半径不小于电缆外径的6倍, 有铠装或屏蔽结构的电缆其弯曲半径不小于电缆外径的12倍;
- 4、有优良的耐臭氧老化、热老化、紫外光老化和大气老化性能。

三、型号名称及主要使用范围

型号 Type	名称 Description	主要使用范围 Application occasion
KGK KGGR	铜芯硅橡胶绝缘硅橡胶护套控制（软）电缆 Control(soft) cable with Cu core, silicon rubber insulation and sheath	敷设在室内、电缆沟、管道固定场合及要求柔软等移动场合。 For laying indoors, in cable trench, in conduit, with demand on mobility and softness
KGKP KGGRP	铜芯硅橡胶绝缘硅橡胶护套编织屏蔽控制（软）电缆 Control(soft) cable with Cu core, silicon rubber insulation and sheath, braided shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合及要求柔软、屏蔽等移动场合。 To be fixedly laid indoor, cable trench or pipe, in the environment with demand on softness and shielding
KGKP ₂	铜芯硅橡胶绝缘硅橡胶护套铜带屏蔽控制电缆 Control cable with Cu core, silicon rubber insulation and sheath, copper tape shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合。 To be fixed laid indoor, cable trench or pipe with demand on shielding
KGK2G	铜芯硅橡胶绝缘硅橡胶护套钢带铠装控制电缆 Control cable with Cu core, silicon rubber insulation&sheath and steel tape armored	敷设在电缆沟、直埋等要求抗一定机械外压力的固定场合。 To be laid in cable trench or direct in ground etc, able to bear external mechanical forces, and for fixed installation.
KGKP2-2G	铜芯硅橡胶绝缘铜带屏蔽钢带铠装硅橡胶护套控制电缆 Control cable with Cu core, silicon rubber insulation, Copper tape shielding, steel tape armored, silicon sheath	敷设在电缆沟、直埋等要求抗一定机械外压力的固定场合。 To be laid in cable trench or direct in ground etc, able to bear external mechanical forces, and for fixed installation.
KGK3G	铜芯硅橡胶绝缘细钢丝铠装硅橡胶护套控制电缆 Control cable with Cu core, silicon rubber insulation, steel wire armored, silicon sheath	敷设在垂直式落差的场合, 能承受一定机械外压力的固定场合。 To be laid laid on the occasion of vertical drop and able to bear external mechanical forces and for fixed installation.
KGKP3-2G	铜芯硅橡胶绝缘铝/塑复合带屏蔽钢带铠装硅橡胶护套控制电缆 Control cable with Cu core, silicon rubber insulation, Al/polyester tape shielding, steel tape armored, silicon sheath	敷设在电缆沟、直埋等要求抗一定机械外压力的固定场合。 To be laid in cable trench or direct in ground etc, able to bear external mechanical forces, and for fixed installation.

注：也可提供阻燃型硅橡胶控制电缆，订货时可在上表中的型号前加“ZA、ZB、ZC、ZD”。

It is widely used for supervising and controlling return circuit of rated voltage up to and including 450/750V for production under high temperature in the field of steel & iron, refinery, power plant, coking plant, aviation, metallurgy, machinery, petrochemical industry etc. It has good feature of high temperature resistance, flame retardance, radiation resistance, aging resistance, ozone resistance, water proof, freezing resistance and weather resistance.

Executive standard

TICW5-2009, JB/T13108 and Enterprise standard.

Operational performance

- 1.A.C rated voltage U_0/U : 450/750V.
- 2.Temperature for installing is not lower than -20℃.
- 3.Working temperature allowed by cable is -60℃~+180℃. Recommended bending radius:It shall be not less than 12 times that of cable O.D for armored or shield structure cable, and 6 times that of cable O.D for cable without armored and shield structure.
- 4.It has good features of ozone aging resistance, thermal aging resistance, ultraviolet resistance and atmosphere aging resistance.

Type, description and main application occasion

Note: we can also offer flame resistance control cable with silicon rubber insulation&sheath, prefix "ZA,ZB,ZC,ZD" should be added to type in table.

四、电缆规格

Cable specification

型号 Type	导体标称截面 mm² Nominal cross section of conductor area							
	0.5	0.75	1.0	1.5	2.5	4	6	10
	芯数 Core number							
KGG、KGGP	/	2~61			2~14		2~10	
KGGP2、KGGP3	/	2~61			2~14		2~10	
KGG2G	/	7~61			4~61	2~14		2~10
KGGP2-2G、KGGP3-2G	/	7~37			4~61	2~14		2~10
KGG3G	/	7~37			2~14		2~10	
KGGP	2~61					/		/
KGGRP	2~61			2~48		/		/
推荐的芯数系列为2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52和61芯。 斜体部分型号不是优先型号。 Recommended number of cores is 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61. The Italis part is not preferred.								

五、技术参数

- 1、成品电缆20℃时绝缘电阻常数应 $\geq 1500\text{M}\Omega\cdot\text{km}$ ，工作温度时绝缘电阻常数应 $\geq 0.15\text{M}\Omega\cdot\text{km}$ ；
- 2、成品电缆应经受工频交流2500V电压试验。绝缘不击穿。

Technical Parameter

1. Insulation resistance constant of finished cable shall no less than $1500\text{M}\Omega\cdot\text{km}$ at 20℃ and no less than $0.15\text{M}\Omega\cdot\text{km}$ at working temperature.
2. Finished cable shall subjected to power frequency AC 2500V voltage test. Insulation without puncture.

六、交货长度

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过 $\pm 0.5\%$ 。

Delivery Length

1. Delivery length of cable depends on both agree-ments.
2. The measurement error of lenth is no more than $\pm 0.5\%$.

氟塑料绝缘控制电缆

Control Cable with Fluoroplastics Insulation

本产品适用于交流额定电压450/750V及以下控制、监控回路以及电器仪表的连接线和自动控制系统的传输线。产品具有耐油、防水、耐磨、耐酸碱及各种化学试剂（除氯仿外）和各种腐蚀性气体、耐老化、不燃烧等优异性能；本产品主要适用于冶金、电力、化工、石油等工矿企业在高温、低温及各种恶劣环境中作电器、仪表的连接线和自动控制系统的传输线。氟塑料绝缘和护套耐高温控制电缆采用聚全氟乙丙烯材料，产品具有比普通控制电缆更高的耐热等级。

It is used as connection cable for electric appliances & instruments and transmission cable for automatic control system in controlling and supervising loop of A.C.rated voltage of 450/750V or lower. It has good feature of oil resistance, abrasion resistance, acid & alkali resistance, resistant to various chemical reagent(except chloroform) and corrosive gas resistance, aging resistance and incombustible etc. It is used as connection cable for electric appliances & instruments and transmission cable for automatic control system under bad environment of extreme temperature mainly in the field of metallurgy, power, chemical and petroleum enterprises. FEP material used in high temperature resistant cable with fluoroplastic insulation and sheath. It has better heat resistant degree compared with common control cable.

一、生产执行标准

TICW3-2009, JB/T13485-2018及企业标准。

Executive standard

TICW3-2009,JB/T13485-2018 and Enterprise standard.

二、使用特点

- 1、交流额定电压： U_0/U 为450/750V；
- 2、电缆导体长期允许工作温度为：氟塑料绝缘为200℃；
- 3、电缆的敷设温度应不低于：硅橡胶护套电缆-20℃，氟塑料护套电缆-15℃；
- 4、电缆推荐允许弯曲半径：无铠装层的电缆，应不小于电缆外径的8倍；有铠装层的电缆或带铜带屏蔽结构的电缆，应不小于电缆外径的15倍。

Operational performance

- 1.A.C. rated voltage U_0/U : 450/750V.
- 2.Long-term working temperature of cable conductor: Temperature of fluoroplastics insulation is 200℃.
- 3.Temperature for installing cable is no lower than: -20 ℃ for cable with silicon rubber sheath.-15℃ for cable with fluoroplastic sheath.
- 4.Bending radius allowed by cable:It is no less than 8 times that of cable OD for cable with unarmored.It is no less than 15times that of cable OD for cable with armored layer or copper tape shielding.

三、型号名称

1、型号结构组合形式

Type and Description

Type-naming Indication



2、基本型号与名称

Basic Type and Description

型号 Type	名称 Description
KFF	氟塑料绝缘氟塑料护套控制电缆 Control cable with fluoroplastic insulation and sheath
KFFP	氟塑料绝缘氟塑料护套铜丝编织屏蔽控制电缆 Control cable with fluoroplastic insulation and sheath,copper wire braided shielding

KFFR	氟塑料绝缘氟塑料护套控制软电缆 Control flexible soft cable with fluoroplastic insulation and sheath
KFFRP	氟塑料绝缘氟塑料护套铜丝编织屏蔽控制软电缆 Control flexible cable with fluoroplastic insulation and sheath,copper wire braided shielding
KFG	氟塑料绝缘硅橡胶护套控制电缆 Control cable with fluoroplastic insulation,silicon rubber sheath
KFGP	氟塑料绝缘硅橡胶护套铜丝编织屏蔽控制电缆 Control cable with fluoroplastic insulation,silicon rubber sheath,copper wire braided shielding
KFGR	氟塑料绝缘硅橡胶护套控制软电缆 Control flexible soft cable with fluoroplastic insulation,silicon rubber sheath
KFGRP	氟塑料绝缘硅橡胶护套铜丝编织屏蔽控制软电缆 Control flexible cable with fluoroplastic insulation,silicon rubber sheath,copper wire braided shielding

四、代号名称及含义

Codes Meaning

项目 Item	代号 Code	说明 Description
阻燃特性 Flame-retarding characteristics	ZRA/ZA	A类阻燃 Flame retardance of category A
	ZRB/ZB	B类阻燃 Flame retardance of category B
	ZRC/ZC	C类阻燃 Flame retardance of category C
系列代号 Series number	K	控制电缆 Control cable
绝缘材料 Insulation material	F	氟塑料 Fluoroplastic
护套材料 Sheath material	G	硅橡胶 Silicon rubber
	F	氟塑料 Fluoroplastic
屏蔽材料 Shielding material	P	铜丝编织屏蔽 Copper wire braided shielding
	P1	镀锡铜丝编织屏蔽 Tinned copper wire braided shielding
	P2	铜带屏蔽 Copper tape shielding
	P3	铝/塑复合带屏蔽 Aluminum/plastic composite tape shielding
铠装材料 Armoring material	9	细钢丝编织铠装 Fine steel wire braiding armored

注：可根据用户需要生产、设计特殊规格和型号电缆。

Note: we also produce cable with special specification and type according to the requirement of customer.

五、规格

Specication

型号 Type	额定电压 V Rated voltage	导体标称截面 mm² Nominal cross section of conductor area							
		0.5	0.75	1.0	1.5	2.5	4	6	10
		芯数 Core number							
KFF,KFG,KFFP KFGP,KFFP2	450/750	2~19				2~12			
KFFP,KFGP,FFRP KFGR,KFFR	450/750	2~19				-			
KFF9F		-	7~61		2~61		2~12		
注：推荐的芯数系列为2、3、4、5、7、8、10、12、14、16、19芯，如用户有特殊需要，也可生产61芯以下任意芯数的电缆。 Note: Recommended series of core number 2,3,4,5,7,8,10,12,14,16,19. we also produce cables with any number of cores below 61 cores.									

六、主要技术指标

Main Technical Indices

- 1、20℃时导体直流电阻值应符合GB/T3956标准要求。

2、成品电缆应经受交流3000V/5min电压试验。
- 1.Conductor DC resistance value at 20℃ shall meet the requirements of GB/T3956 standard.

2.The finished cable shall bear A.C Voltage test of 3000V for 5min.

七、常用规格结构尺寸及参考重量

The usual specification structure size and reference weight

Table 1 KFF、KFFP、KFFP2

芯数×标称截面 mm ² Core No.*nominal cross	导体种类 Category of conductor	最大外径 mm Max. outer diameter			参考重量kg/km Reference weight		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
2×0.5	1	4.5	5.4	5.0	35	51	69
2×0.75	1	4.9	5.8	5.4	45	63	84
2×1.0	1	5.2	6.1	5.7	52	72	95
2×1.5	1	5.8	6.7	6.3	65	86	111
2×2.5	1	6.5	7.4	7.0	92	118	151
2×4	1	7.8	8.7	8.3	142	165	175
2×6	1	8.9	9.8	9.4	211	245	279
3×0.5	1	4.7	5.6	5.2	44	62	80
3×0.75	1	5.2	6.1	5.7	57	77	99
3×1.0	1	5.3	6.2	5.8	69	89	114
3×1.5	1	6.1	7	6.6	88	110	141
3×2.5	1	7.1	8	7.6	126	153	191
3×4	1	8.5	9.4	9.0	215	255	278
4×0.5	1	5.1	6	5.6	54	73	94
4×0.75	1	5.7	6.6	6.2	70	92	118
4×1.0	1	6.2	7.1	6.7	86	109	140
4×1.5	1	6.8	7.7	7.3	111	136	174
4×2.5	1	7.7	8.6	8.2	157	187	234
4×4	1	9.6	10.5	10.1	270	295	311
5×0.5	1	5.9	6.8	6.4	64	85	110
5×0.75	1	6.4	7.3	6.9	85	108	138
5×1.0	1	6.8	7.7	7.3	103	129	165
5×1.5	1	7.5	8.4	8.0	134	162	207
5×2.5	1	8.8	9.7	9.3	191	224	280
5×4	1	10.6	11.5	12.1	325	362	395
7×0.5	1	6.3	7.3	6.8	82	106	136
7×0.75	1	7.1	8.1	7.6	110	136	174
7×1.0	1	7.4	8.4	7.9	135	164	208
7×1.5	1	8.2	9.2	8.7	177	208	260
7×2.5	1	9.5	10.5	10	262	300	369
7×4	1	11.6	12.6	12.1	415	458	485
8×0.5	1	6.8	7.8	7.3	97	122	150
8×0.75	1	7.5	8.5	8.0	128	157	192
8×1.0	1	7.9	8.9	8.4	157	189	229
8×1.5	1	8.7	9.7	9.2	207	241	284
8×2.5	1	10.3	11.3	10.8	314	367	426

Sequel table1 KFF、KFFP、KFFP2

芯数×标称截面 mm ² Core No.*nominal cross	导体种类 Category of conductor	最大外径 mm Max. outer diameter			参考重量kg/km Weight for reference		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
10×0.5	1	7.9	8.9	8.4	113	153	188
10×0.75	1	8.7	9.7	9.2	152	186	227
10×1.0	1	9.3	10.3	9.8	202	241	292
10×1.5	1	10.3	11.3	10.8	263	316	373
10×2.5	1	12.1	13.1	12.6	378	442	513
12×0.5	1	8.2	9.2	8.7	130	161	198
12×0.75	1	9.0	10.0	9.5	177	212	259
12×1.0	1	9.6	10.6	10.1	233	274	332
12×1.5	1	10.8	11.8	11.3	305	360	425

12×2.5	1	12.5	13.5	13.0	442	508	589
14×0.5	1	8.8	9.8	9.3	147	179	220
14×0.75	1	9.9	10.9	10.4	215	255	311
14×1.0	1	11.5	12.6	12.3	265	319	386
14×1.5	1	11.6	12.7	12.4	350	409	483
14×2.5	1	13.3	14.4	14.1	533	613	675
16×0.5	1	9.5	10.6	10.3	165	199	245
16×0.75	1	10.4	11.5	11.2	241	282	344
16×1.0	1	11.0	12.1	11.8	298	355	430
16×1.5	1	13.0	14.3	13.8	394	457	539
16×2.5	1	15.1	16.4	16.0	604	694	764
19×0.5	1	10.3	11.4	11.1	205	243	296
19×0.75	1	11.3	12.4	12.1	279	336	407
19×1.0	1	12.7	14.0	14.0	345	407	480
19×1.5	1	13.7	15.2	14.8	459	525	609
19×2.5	1	16.0	17.2	16.8	707	813	894
24×0.5	1	11.7	12.8	12.5	255	312	378
24×0.75	1	13.2	14.4	14.0	348	414	489
24×1.0	1	15.2	16.4	16.0	423	486	535
24×1.5	1	15.9	17.1	17.0	586	674	741
24×2.5	1	19.1	20.6	20.1	901	1036	1139
27×0.5	1	12.2	13.7	13.2	280	339	410
27×0.75	1	13.4	14.9	14.5	384	452	533
27×1.0	1	14.5	16.5	16.0	469	539	593
27×1.5	1	16.3	18.0	17.5	651	749	824
27×2.5	1	19.5	21.0	20.5	1002	1153	1268
30×0.5	1	12.6	14.2	13.6	307	367	444
30×0.75	1	13.7	15.4	14.7	422	485	534
30×1.0	1	14.6	17.0	15.6	516	593	652
30×1.5	1	16.9	18.6	18.1	718	825	908
30×2.5	1	20.3	21.8	21.3	1106	1271	1399

Sequel table1 KFF、KFFP、KFFP2

芯数×标称截面 mm² Core No.*nominal cross	导体种类 Category of conductor	最大外径 mm Max. outer diameter			参考重量kg/km Weight for reference		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
33×0.5	1	13.1	14.6	14.1	333	396	479
33×0.75	1	14.2	15.5	15.0	460	529	582
33×1.0	1	15.2	16.7	16.2	563	648	712
33×1.5	1	17.8	19.3	18.8	797	917	1008
33×2.5	1	21.1	/	/	1209	/	/
37×0.5	1	13.6	15.2	14.6	268	434	525
37×0.75	1	14.8	16.3	15.8	510	587	645
37×1.0	1	15.9	17.6	17.1	625	719	791
37×1.5	1	18.5	20.0	19.5	886	1018	1120
37×2.5	1	22.0	/	/	1346	/	/
44×0.5	1	14.3	15.6	15.1	433	497	547
44×0.75	1	16.9	18.4	17.9	615	707	777
44×1.0	1	18.1	19.6	19.1	752	865	951
44×1.5	1	20.9	21.9	--	1047	1205	/
48×0.5	1	14.5	16.0	15.5	467	537	590
48×0.75	1	17.2	18.7	18.2	663	763	839
48×1.0	1	18.4	19.9	19.4	813	935	1028
48×1.5	1	21.3	/	/	1134	/	/
52×0.5	1	15.0	16.5	16.0	502	577	634
52×0.75	1	17.7	19.2	18.7	713	820	902
52×1.0	1	18.9	20.4	19.9	875	1006	1107
52×1.5	1	21.9	/	/	1222	/	/

Sequel table 2 KFFR、KFFRP、KFFRP2

芯数×标称截面 mm² Core No.*nominal cross	导体种类 Category of conductor	最大外径 mm Max. outer diameter			参考重量 kg/km Weight for reference		
		KFFR	KFFRP	KFFRP2	KFFR	KFFRP	KFFRP2
2×0.5	5	5.1	6.3	5.7	38	55	74
2×0.75	5	5.9	7.1	6.5	50	68	92
2×1.0	5	6.3	7.5	6.9	58	79	104
2×1.5	5	6.7	7.9	7.3	72	94	121
2×2.5	5	8.5	9.7	9.1	104	132	169
3×0.5	5	5.4	6.6	6.0	48	66	85
3×0.75	5	6.4	7.6	7.0	64	86	85
3×1.0	5	6.8	8.0	7.4	76	98	125
3×1.5	5	7.3	8.5	7.9	97	121	155
3×2.5	5	8.9	10.1	9.5	144	173	216
4×0.5	5	5.9	7.1	6.5	59	79	102
4×0.75	5	7.0	8.2	7.6	80	102	131
4×1.0	5	7.6	8.8	8.2	96	121	155
4×1.5	5	8.1	9.3	8.7	123	149	191
4×2.5	5	9.8	11.0	10.4	181	213	266
5×0.5	5	6.4	7.6	7.0	69	91	117
5×0.75	5	7.7	8.9	8.3	96	121	155
5×1.0	5	8.4	9.6	9.0	116	143	183
5×1.5	5	8.9	10.1	9.5	149	178	228
5×2.5	5	10.6	11.8	11.2	219	255	319
7×0.5	5	7.2	8.4	7.8	90	115	147
7×0.75	5	8.5	9.7	9.1	125	153	196
7×1.0	5	9.1	10.3	9.7	151	182	233
7×1.5	5	9.7	10.9	10.3	197	230	288
7×2.5	5	11.8	13	12.4	303	343	422
8×0.5	5	7.9	9.1	8.5	105	133	164
8×0.75	5	9.2	10.4	9.8	145	176	215
8×1.0	5	9.9	11.1	10.5	177	210	254
8×1.5	5	10.6	11.8	11.2	231	267	315
8×2.5	5	12.8	14	13.4	262	418	485
10×0.5	5	9.1	10.3	9.7	124	156	192
10×0.75	5	10.8	12.0	11.4	173	210	256
10×1.0	5	11.6	12.8	12.2	227	269	325
10×1.5	5	12.4	13.6	13.0	294	350	413
10×2.5	5	15.4	16.6	16.0	438	507	588
12×0.5	5	9.4	10.6	10.0	142	172	212
12×0.75	5	11.2	12.4	11.8	200	238	290
12×1.0	5	12.0	13.2	12.6	261	304	368
12×1.5	5	12.8	14.0	13.4	340	398	470
12×2.5	5	16.0	17.2	16.6	512	584	677

Sequel table 2 KFFR、KFFRP、KFFRP2

芯数×标称截面 mm² Core No.*nominal cross	导体种类 Category of conductor	最大外径 mm Max. outer diameter			参考重量 kg/km Weight for reference		
		KFFR	KFFRP	KFFRP2	KFFR	KFFRP	KFFRP2
14×0.5	5	9.9	11.0	10.6	162	196	241
14×0.75	5	10.7	11.8	11.4	244	286	349
14×1.0	5	12.8	13.9	13.5	298	355	430
14×1.5	5	13.7	14.8	14.4	390	452	533
14×2.5	5	16.3	17.4	17	597	687	756
16×0.5	5	10.4	11.5	11.1	181	217	267
16×0.75	5	12.4	13.5	13.1	274	318	388
16×1.0	5	13.5	14.6	14.2	335	396	479
16×1.5	5	14.5	15.6	15.2	440	506	597
16×2.5	5	17.2	18.3	17.9	625	719	791

19×0.5	5	11.0	12.1	11.7	225	265	323
19×0.75	5	13.3	14.4	14.0	318	385	466
19×1.0	5	14.3	15.4	15.0	389	454	536
19×1.5	5	14.8	15.9	15.5	507	583	641
19×2.5	5	18.3	19.4	19.0	792	850	1002
24×0.5	5	13.1	14.2	13.8	281	341	413
24×0.75	5	14.4	15.5	15.1	388	446	491
24×1.0	5	15.3	16.4	16.0	456	524	577
24×1.5	5	17.8	18.9	18.5	635	730	803
24×2.5	5	22.3	23.4	23.0	1009	/	/
27×0.5	5	13.4	14.5	14.1	308	370	448
27×0.75	5	14.4	15.5	15.1	429	494	543
27×1.0	5	15.3	16.4	16.0	505	581	639
27×1.5	5	17.8	18.9	18.5	705	811	892
27×2.5	5	22.3	23.4	23.0	1122	/	/
30×0.5	5	13.9	15.0	14.6	338	402	486
30×0.75	5	15.0	16.1	15.7	472	543	597
30×1.0	5	15.9	17.0	16.6	556	639	703
30×1.5	5	18.5	19.6	19.2	777	894	983
33×0.5	5	13.9	15.0	14.6	366	433	524
33×0.75	5	15.6	16.7	16.3	515	592	651
33×1.0	5	16.6	17.7	17.3	607	698	765
33×1.5	5	19.5	20.6	20.2	860	995	1101
37×0.5	5	14.5	15.6	15.2	420	480	530
37×0.75	5	16.2	17.3	16.9	568	650	720
37×1.0	5	17.3	18.4	18.0	670	775	855
37×1.5	5	20.3	21.4	21.0	965	1150	1215
44×0.5	5	16.3	17.4	17.0	495	570	625
44×0.75	5	18.5	19.6	19.2	685	785	870
44×1.0	5	19.7	20.8	20.4	810	935	1050
48×0.5	5	16.8	17.9	17.5	536	616	678
48×0.75	5	18.9	20.0	19.6	742	854	945
48×1.0	5	20.6	21.7	21.3	880	1108	1172
52×0.5	5	17.5	18.6	18.2	582	665	735
52×0.75	5	19.5	20.6	20.2	799	925	1015
52×1.0	5	20.8	21.9	21.5	945	1100	1205

八、交货长度

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过±0.5%。

Delivery Length

- 1.Delivery length of cable depends on both agree-ments.
- 2.The measurement error of lenth is no more than ±0.5%.

计算机与仪表屏蔽电缆

Computer and Instrument shielding Cable



计算机与仪表屏蔽电缆（含本安型）

Computer and Instrument Shielding Cable (including Intrinsic Safety Type)

计算机与仪表屏蔽电缆（含本安型）

Computer and Instrument Shielding Cable (including Intrinsic Safety Type)

本产品适用于电子计算机系统、监控回路、自动化控制系统的信号传输及检测仪器、仪表连接用连接线。

It is used as connection cable of inspection devices and instruments with high demand on interference resistant performance in computer network and control system.

一、生产执行标准

TICW6-2009、JB/T 13486-2018及企业标准。

Executive standard

TICW6-2009、JB/T 13486-2018 and Enterprise Standard.

二、使用特性

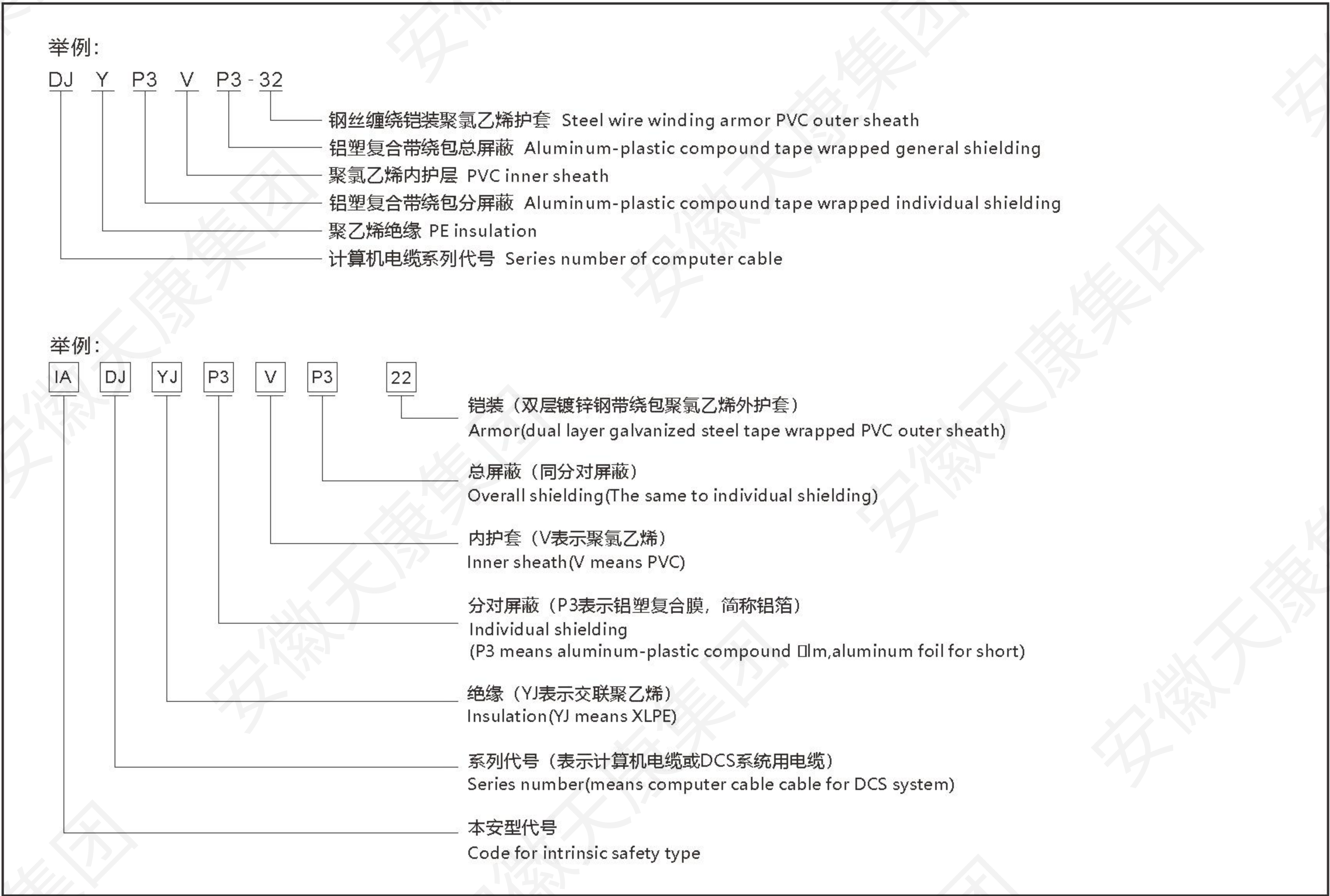
- 1、工作电压：交流50HZ， u_0/u ：300/500V；
- 2、正常运行时，导体长期允许最高工作温度：聚氯乙烯绝缘电缆分+70℃、+105℃两种；聚乙烯绝缘电缆为+70℃；无卤低烟聚烯烃绝缘电缆为+70℃；交联聚乙烯绝缘为+90℃；硅橡胶绝缘电缆+180℃；氟塑料绝缘电缆+200℃；
- 3、安装敷设时环境温度：不低于0℃；
- 4、电缆允许最小弯曲半径：金属带绕包屏蔽或钢丝、钢带铠装电缆不小于电缆外径的12倍；非铠装软电缆或编织屏蔽电缆不小于电缆外径的8倍。

Operational performance

- 1.Working voltage: AC 50HZ u_0/u : 300/500V.
- 2.Maximum long-term working temperature of conductor as following:
PVC insulation: +70℃、+105℃.
PE insulation: +70℃. LSZH insulation: +70℃.
XLPE insulation: +90℃.
Silicone rubber insulation: +180℃.
Fluoroplastic insulation: +200℃.
- 3.Installation temperature: above 0℃.
- 4.Allowed Min. bending radius: no less than 12 times OD of cable with metal tape wrapped shielding or steel wire/tape armored, no less than 8 times that of cable OD for non-armored flexible cable or braided shielding cable.

三、型号名称及含义

Type, Description and Definition



说明:

绝缘或护套材料:
F—氟塑料绝缘或护套
G—硅橡胶绝缘或护套
Y—聚乙烯或聚烯烃绝缘或护套
V—聚氯乙烯绝缘或护套
YJ—交联聚乙烯绝缘。
阻燃性能分:
ZA/ZRA—A类阻燃 (A类阻燃性能最佳)
ZB/ZRB—B类阻燃
ZC/ZRC、ZR—C类阻燃
NH—耐火型。
铠装结构:
22—钢带铠装聚氯乙烯外护套
23—钢带铠装聚乙烯外护套
32—圆形镀锌低碳钢丝缠绕铠装聚氯乙烯外护套
33—圆形镀锌低碳钢丝缠绕铠装聚乙烯外护套
屏蔽材料:
P—铜线编织
P1—镀锡铜线编织
P2/P4-铜塑复合带绕包 (若采用铜带, 请备注说明)
P3—铝塑复合带绕包
导体种类:
1 (A) ——单根导体 (型号中省略)
2 (B) ——七根绞合导体 (在规格后面加 “B” 表示)
R——多根绞合导体
注: A (特定要求时, 电缆型号或规格中表示单根导体)
B (特定要求时, 电缆型号或规格中表示2类绞合导体)
R (电缆型号或规格中R表示5类绞合软导体)
Note:A(For specific requirements,the cable type or specification indicates single conductor)
B(For specific requirements,the cable type or specification indicates category 2 conductor)
R(For specific requirements,the cable type or specification indicates category 5 conductor))

备注:

- ①阻燃电缆、无卤低烟阻燃电缆、耐火电缆及其组合型电缆的名称和型号应按GB/T 19666的规定在上述型号的基础上编制。
- ②比如阻燃型电缆, 在原型号前加 “Z-”、“ZA-”、“ZB-”、“ZC” “ZD-” ,无卤低烟阻燃型的, 在原型号前加 “WDZ-”、“WDZA-”、“WDZB-”、“WDZC” “WDZD-” ,无卤低烟低毒阻燃型的, 在原型号前加 “WDUZ-”、“WDUZA-”、“WDUZB-”、“WDUZC” “WDUZD-” 。
- ③耐火型电缆, 在原型号前加 “N-”、“ZAN-”、“ZBN-”、“ZCN” “ZDN-” ,无卤低烟阻燃耐火电缆, 在原型号前加 “WDZN-”、“WDZAN-”、“WDZBN-”、“WDZCN” “WDZDN-” ,无卤低烟低毒阻燃型耐火电缆, 在原型号前加 “WDUZN-”、“WDUZAN-”、“WDUZBN-”、“WDUZCN” “WDUZDN-” 。
- ④低烟低卤阻燃电缆, 在原型号前加 “DDZ-”、“DDZA-”、“DDZB-”、“DDZC” “DDZD-” 。
- ⑤防紫外线电缆, 在原型号前加 “FZ-” 。
- ⑥防蚁电缆, 在原型号前加 “FY-” 。
- ⑦耐寒电缆, 在原型号前加 “HD-” 。
- ⑧本安型电缆, 在原型号前加 “IA-” 。

Note:

- ①The names and models of flame retardant cables, halogen-free low smoke flame retardant cables, fire resistant cables and their combined type cables shall be compiled on the basis of the above models according to the provisions of GB/T 19666
- ②For flame-retardant cable type, add "Z-", "ZA-", "ZB-", "ZC" and "ZD-" before the original model;For halogen-free low-smoke flame retardant type, add "WDZ-", "WDZA-", "WDZB-", "WDZC" and "WDZD-" before the original model;For halogen-free, low smoke, low toxicity and flame retardant type, add "WDUZ-", "WDUZA-", "WDUZB-", "WDUZC" and "WDUZD-" before the original model.
- ③For fire-resistant cable type, add "- ", "ZAN-", "ZBN-", "ZCN", "ZDN-" before the original model; Halogen-free low smoke flame retardant fire-resistant cable, add "WDZN-", "WDZAN-", "WDZBN-", "WDZCN" and "WDZDN-" before the original model; Halogen-free low-smoke low-toxicity flame-retardant fire-resistant cable, "WDUZN-", "WDUZAN-", "WDUZBN-", "WDUZCN" and "WDUZDN-" are added before the original model.
- ④For Low smoke and low halogen flame retardant cable type, add "DDZ-", "DDZA-", "DDZB-", "DDZC" and "DDZD-" before the original model.
- ⑤For Anti-ultraviolet cable,add "FZ-" before the original model.
- ⑥For Anti-Ant cable,add "FY-" before the original model.
- ⑦For Cold-resitant cable,add "HD-" before the original model.
- ⑧For Intrinsic safety cable,add "IA-" before the original model.

Explanation:

Insulation or sheath material:
F means fluoroplastic insulation or sheath
G means silicone rubber insulation or sheath
Y means PE or polyolefin insulation or sheath
V means PVC insulation or sheath
YJ means XLPE insulation
Flame retardant performance category:
ZRA: category A (the best)
ZRB: category B
ZRC & ZR: category C
NH: Fire-resistant
Armor structure:
22 means steel tape armor, PVC outer sheath
23 means steel tape armor, PE outer sheath
32 means round galvanized low carbon steel wire wrapping, armor, PVC outer sheath
33 means round galvanized low carbon steel wire wrapping, armor, PE outer sheath
Shielding material:
P means copper wire braiding
P1 means tinned copper wire braiding
P2/P4-means copper-plastic compound tape wrapping (Please note ifcopper tape isused.)
P3 means aluminum-plastic compound tape wrapping
structure of conductor:
A means single conductor (omitted in type)
B means 7 stranded conductor ("B" shall be added after specification)
R means multi-stranded conductor

四、基本型号及名称

Basic Type and Description

序号 No.	型号 Type	电缆名称 Description
1	DJYVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided overall shielding
2	DJYVPR	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, copper wire braided overall shielding
3	DJYPV	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding
4	DJYPVR	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding
5	DJYPVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding
6	DJYPVPR	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding
7	DJYVP2	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping overall shielding
8	DJYVP2R	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping overall shielding
9	DJYP2V	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual shielding
10	DJYP2VR	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual shielding
11	DJYP2VP2	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual & overall shielding
12	DJYP2VP2R	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual & overall shielding
13	DJYVP3	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping overall shielding
14	DJYVP3R	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping overall shielding
15	DJYP3V	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual shielding
16	DJYP3VR	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽计算机软电缆 Computer flexible cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual shielding
17	DJYP3VP3	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual & overall shielding
18	DJYP3VP3R	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual & general shielding
19	DJYVP22	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided overall shielding, steel tape armoring
20	DJYPV22	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding, steel tape armoring
21	DJYPVP22	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual & overall shielding, steel tape armoring

22	DJYVP2-22	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, overall shielding, steel tape armoring
23	DJYP2V22	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual shielding, steel tape armoring
24	DJYP2VP2-22	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual & overall shielding, steel tape armoring
25	DJYVP3-22	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, overall shielding, steel tape armoring
26	DJYP3V22	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual shielding, steel tape armoring
27	DJYP3VP3-22	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual & overall shielding, steel tape armoring
28	DJYVP32	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided general shielding, steel wire armoring
29	DJYPV32	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding, steel wire armoring
30	DJYVP32	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual & overall shielding, steel wire armoring
31	DJYVP2-32	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, overall shielding, steel wire armoring
32	DJYP2V32	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual shielding, steel wire armoring
33	DJYP2VP2-32	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, overall & individual shielding, steel wire armoring
34	DJYVP3-32	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, overall shielding, steel wire armoring
35	DJYP3V32	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual shielding, steel wire armoring
36	DJYP3VP3-32	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, overall & individual shielding, steel wire armoring
37	IA-DJYVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding
38	IA-DJYVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding
39	IA-DJYP3VP3	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapped overall & individual shielding
40	IA-DJYP3VP3R	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapped overall & individual shielding
41	IA-DJYP2VP2	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapped overall & individual shielding
42	IA-DJYP2VP2R	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapped overall & individual shielding
43	IA-DJYJP	铜芯交联聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, XLPE insulation, PVC sheath, copper wire braided overall & individual shielding

五、规格范围

对数：1~24对。
每对芯数：二芯（称二线组）或三芯（称三线组）；
导体截面：0.5mm²、0.75mm²、1.0mm²、1.5mm²、2.5mm²。

六、主要技术参数

- 20℃导体直流电阻应符合GB/T3956标准要求；
- 20℃绝缘电阻；

性能项目 Performance project	PVC绝缘 PVC insulation	PE、XLPE绝缘 PE、XLPE insulation
20℃时绝缘电阻 Conductor DC insulation at 20℃ (MΩ.km)	≥25	≥3000

- 3、电缆应经受工频交流电压试验：1000V/1min绝缘不发生击穿，试验温度为环境温度。
- 4、工作电容（1kHz）线芯与线芯≤90PF/m（本安型）；
- 5、分布电感（1kHz）≤0.6μH/m（本安型）；
- 6、电磁干扰感应电压（干扰磁场400A/m）≤5mV（本安型）；
- 7、静电感应电压（静电电压20kV）<1V（本安型）；
- 8、辐射场透入强度（干扰场强120dBμV，干扰场频率200MHz）≤66dBμV（本安型）。

七、其他常见型号与本公司型号对照

其他型号 Other type	本厂型号 Type of our company
ia-K2YVR、ia-K3YVR、IJYPLVPLR、IJYP3VR-2	IA-DJYP3VP3R
ia-K2YV、ia-K3YV、IJYPLVPL、IJYP3V-2 ia-K2YV(EX)、ia-K3YV(EX)	IA-DJYP3VP3
KJYYVP、IA-KJVVP	IA-DJYP3VP3

八、电缆计算外径（供参考）

对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable			对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable		
		DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP			DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP
1×2×0.5	1	6.5	6.5	/	8×2×1.5	1	20.0	19.0	20.4
1×2×0.75		7.2	7.2	/	8×2×2.5		23.4	22.4	23.9
1×2×1.0		7.5	7.8	/	10×2×0.5		18.5	16.5	19.2
1×2×1.5		8.5	8.5	/	10×2×0.75		19.6	18.5	20.1
1×2×2.5		9.2	9.2	/	10×2×1.0		20.5	19.2	21.4
2×2×0.5		10.5	10.0	11.2	10×2×1.5		22.2	21.1	22.7
2×2×0.75		11.0	10.5	11.5	10×2×2.5		25.7	24.5	26.7
2×2×1.0		11.7	11.4	12.6	12×2×0.5		19.3	17.4	20.1
2×2×1.5		12.8	12.1	13.3	12×2×0.75		20.6	19.4	21.1
2×2×2.5		15.0	14.7	15.5	12×2×1.0		22.0	20.8	22.5
3×2×0.5		11.5	10.8	12.2	12×2×1.5		23.4	22.2	23.9
3×2×0.75		12.1	11.6	13.0	12×2×2.5		27.6	26.4	28.1
3×2×1.0		13.3	12.3	13.8	14×2×0.5		20.3	18.8	21.0

Specifications range

Pair No.: 1~24 pairs.
Core No. per pair: 2 cores (equal to 2 wire group) or 3 cores (equal to 3 wire group).
Cross-sectional area of conductor:
0.5mm²,0.75mm²,1.0mm²,1.5mm²,2.5mm².

Main Technical Parameter

- Conductor DC resistance value at 20℃ shall meet the requirements of GB/T 3956 standard.
- Insulation Resistance at 20℃.

- Cable shall endure A.C. voltage test of 1000V under power frequency for 1min without puncture of insulation. And testing temperature is environment temperature.
- Working capacitance(1kHz) core to core ≤90PF/m(Intrinsic Safety Type).
- Distributing inductance(1kHz)≤0.6μH/m(Intrinsic Safety Type).
- Inductive voltage of electromagnetic interference(interference magnetic field 400A/m):≤5mV(Intrinsic Safety Type).
- Inductive voltage of electrostatic(Electrostatic voltage 20kV) <1V(Intrinsic Safety Type).
- Penetration stress of radiant field(stress of interference field is 120dBμV; frequency of interference field is 200MHz) ≤66dBμV(Intrinsic Safety Type).

Comparison between other common type and type of our company

3×2×1.5	1	14.2	13.6	14.6	14×2×0.75	1	21.5	20.3	22.0
3×2×2.5		16.5	15.8	17.0	14×2×1.0		23.0	21.8	23.5
4×2×0.5		12.8	11.6	13.5	14×2×1.5		24.5	23.3	26.5
4×2×0.75		13.5	13.0	14.0	14×2×2.5		29.5	27.7	30.0
4×2×1.0		14.4	13.9	14.9	16×2×0.5		21.8	20.0	22.5
4×2×1.5		15.3	14.7	15.8	16×2×0.75		23.1	21.6	23.6
4×2×2.5		18.5	17.4	19.0	16×2×1.0		24.7	23.2	25.2
5×2×0.5		13.6	12.0	14.3	16×2×1.5		26.3	24.8	26.8
5×2×0.75		14.4	13.6	14.9	16×2×2.5		31.5	30.2	32.2
5×2×1.0		15.4	14.6	15.9	(18)19×2×0.5		22.5	21.8	23.0
5×2×1.5		16.3	15.6	16.8	(18)19×2×0.75		25.1	23.4	25.6
5×2×2.5		19.8	19.1	20.3	(18)19×2×1.0		26.9	25.2	27.4
(6) 7×2×0.5		14.6	13.6	15.3	(18)19×2×1.5		29.2	26.9	29.7
(6) 7×2×0.75		15.5	14.5	16.0	(18)19×2×2.5		34.9	32.8	35.4
(6) 7×2×1.0		16.2	15.2	17.0	24×2×0.5		26.5	22.5	27.0
(6) 7×2×1.5		18.2	16.2	19.0	24×2×0.75		28.1	26.1	29.2
(6) 7×2×2.5		21.0	19.8	21.5	24×2×1.0		30.7	28.1	31.2
8×2×0.5		16.0	15.0	16.5	24×2×1.5		32.7	30.7	33.2
8×2×0.75		17.0	16.0	18.0	24×2×2.5		39.1	37.1	40.0
8×2×1.0		18.3	17.2	19.2	/		/	/	/

备注:

- 1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径0.5mm范围;
- 2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。
- 3、本样本电缆外径以聚乙烯绝缘为计算依据。

Note:1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.

2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

3.The outer diameter of cable in this catalogue is calculated based on PE insulated cable.

对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable			对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable		
		DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYPVPR DJVPVPR DJYJPVPR			DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYPVPR DJVPVPR DJYJPVPR
1×2×0.5	5	7.0	7.0	/	8×2×1.5	5	21.9	21.0	22.4
1×2×0.75		7.7	7.7	/	8×2×2.5		25.4	24.5	25.9
1×2×1.0		8.2	8.2	/	10×2×0.5		19.0	17.3	19.8
1×2×1.5		9.0	9.0	/	10×2×0.75		21.3	20.1	21.8
1×2×2.5		10.2	10.2	/	10×2×1.0		22.6	21.4	23.1
2×2×0.5		11.0	10.5	11.5	10×2×1.5		24.6	23.4	25.1
2×2×0.75		11.9	11.3	12.8	10×2×2.5		29.2	27.4	29.7
2×2×1.0		13.0	12.2	13.5	12×2×0.5		20.6	18.8	21.0
2×2×1.5		14.1	13.7	14.6	12×2×0.75		22.4	21.1	22.9
2×2×2.5		16.3	15.9	16.8	12×2×1.0		23.8	22.5	24.3
3×2×0.5		12.0	11.2	12.8	12×2×1.5		25.9	24.6	26.4
3×2×0.75		13.4	12.9	13.9	12×2×2.5		30.7	29.4	31.2
3×2×1.0		14.2	13.7	14.7	14×2×0.5		21.5	19.7	22.0
3×2×1.5		15.4	14.9	15.9	14×2×0.75		23.5	22.1	24.0
3×2×2.5		18.4	17.4	18.9	14×2×1.0		25.0	23.6	25.5
4×2×0.5		13.3	11.9	14.0	14×2×1.5		27.2	25.8	27.7
4×2×0.75		14.6	14.0	15.1	14×2×2.5		32.3	30.8	32.8
4×2×1.0		15.5	14.9	16.0	16×2×0.5		22.6	21.1	23.4
4×2×1.5		16.8	16.2	17.3	16×2×0.75		25.1	23.6	25.6
4×2×2.5		20.1	19.5	20.6	16×2×1.0		26.7	25.2	27.2
5×2×0.5		14.3	13.1	15.0	16×2×1.5		29.7	27.6	30.2
5×2×0.75		15.5	14.9	16.0	16×2×2.5		34.9	33.0	35.4

5×2×1.0	5	16.5	15.9	17.0	(18)19×2×0.5	5	23.8	21.0	24.5
5×2×1.5		18.5	17.3	19.0	(18)19×2×0.75		27.3	25.0	27.8
5×2×2.5		21.4	20.7	21.9	(18)19×2×1.0		29.7	26.5	30.2
(6) 7×2×0.5		15.0	14.1	16.0	(18)19×2×1.5		31.0	29.0	32.8
(6) 7×2×0.75		16.1	15.5	16.6	(18)19×2×2.5		38.0	35.0	38.5
(6) 7×2×1.0		17.1	16.5	17.6	24×2×0.5		27.6	24.5	28.2
(6) 7×2×1.5		19.2	18.5	19.7	24×2×0.75		31.2	28.0	31.7
(6) 7×2×2.5		22.2	21.5	22.7	24×2×1.0		33.2	30.0	33.7
8×2×0.5		15.5	15.5	17.5	24×2×1.5		36.6	32.5	37.1
8×2×0.75		19.0	18.1	19.5	24×2×2.5		41.0	38.5	40.5
8×2×1.0		20.2	19.3	20.7	/		/	/	/

备注：

- 1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围；
- 2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑；
- 3、B类导体的电缆外径略小于R类导体的电缆外径约0.5~1mm范围内。

Note:

- 1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
- 2.Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
- 3.The outer diameter of the cable of class B conductor is less than that of class R conductor, which is within the range of 0.5~1mm.

对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable			对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable		
		DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYVPV22 DJVPVP22 DJYJPVP22			DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYVPV22 DJVPVP22 DJYJPVP22
1×2×0.5	1	10.4	10.4	/	8×2×1.5	1	22.5	22.0	23.4
1×2×0.75		10.8	10.8	/	8×2×2.5		26.5	25.4	27.3
1×2×1.0		11.3	11.3	/	10×2×0.5		21.1	19.9	21.6
1×2×1.5		11.8	11.8	/	10×2×0.75		22.6	21.5	23.1
1×2×2.5		13.1	13.1	/	10×2×1.0		23.5	22.8	24.4
2×2×0.5		13.7	13.3	14.2	10×2×1.5		25.2	24.1	25.7
2×2×0.75		14.4	14.0	14.9	10×2×2.5		29.5	29.1	30.7
2×2×1.0		15.1	14.5	15.6	12×2×0.5		22.0	20.7	22.5
2×2×1.5		15.8	15.5	16.3	12×2×0.75		23.6	22.4	24.1
2×2×2.5		18.6	18.3	19.1	12×2×1.0		25.0	23.8	25.5
3×2×0.5		14.6	13.6	15.1	12×2×1.5		26.0	25.2	27.3
3×2×0.75		15.5	15.0	16.0	12×2×2.5		31.0	30.4	32.6
3×2×1.0		16.3	15.8	16.8	14×2×0.5		22.9	21.5	23.4
3×2×1.5		17.1	16.6	17.6	14×2×0.75		24.5	23.3	25.0
3×2×2.5		20.1	19.6	20.6	14×2×1.0		26.0	24.8	26.9
4×2×0.5		15.5	14.4	16.0	14×2×1.5		29.0	26.7	28.4
4×2×0.75		16.5	16.0	17.0	14×2×2.5		32.5	31.7	33.9
4×2×1.0		17.4	16.9	18.0	16×2×0.5		24.2	22.7	24.7
4×2×1.5		18.9	18.3	19.4	16×2×0.75		26.1	24.6	27.0
4×2×2.5		21.5	21.0	22.0	16×2×1.0		28.1	26.2	29.2
5×2×0.5		16.4	15.2	16.9	16×2×1.5		30.3	28.2	30.8
5×2×0.75		17.4	16.6	18.5	16×2×2.5		35.5	34.5	36.5
5×2×1.0		19.0	17.6	19.5	(18)19×2×0.5		26.4	24.3	26.9
5×2×1.5		19.9	19.2	20.4	(18)19×2×0.75		29.1	26.8	29.6
5×2×2.5		22.8	22.1	23.3	(18)19×2×1.0		30.9	29.2	31.4
(6) 7×2×0.5		17.9	17.1	18.4	(18)19×2×1.5		33.1	30.9	33.6
(6) 7×2×0.75		18.6	17.2	19.1	(18)19×2×2.5		38.8	38.0	39.7
(6) 7×2×1.0		19.6	18.8	20.1	24×2×0.5		29.7	27.1	30.2
(6) 7×2×1.5		20.6	19.8	21.1	24×2×0.75		32.1	31.0	33.1
(6) 7×2×2.5		23.6	22.8	24.1	24×2×1.0		35.0	32.1	35.5

8×2×0.5	1	19.3	18.3	19.8	24×2×1.5	1	38.5	35.0	37.5
8×2×0.75		20.6	19.6	21.1	24×2×2.5		45.5	41.6	44.1
8×2×1.0		21.7	20.8	22.2	/		/	/	/

备注:

- 1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径0.5mm范围;
- 2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑;
- 3、钢丝铠装型电缆外径在钢带铠装型电缆外径基础上增1~1.5mm。

Note:

- 1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
- 2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
- 3.Outer diameter of cable with steel wire armor is added by 1~1.5mm on the basis of that with steel tape armor.

对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable			对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable		
		DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPPV DJVPVP DJYJPVP			DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPPV DJVPVP DJYJPVP
1×3×0.5	1	6.8	6.8	/	8×3×1.5	1	22.0	21.0	22.5
1×3×0.75		7.56	7.5	/	8×3×2.5		25.7	24.7	26.2
1×3×1.0		8.1	8.1	/	10×3×0.5		19.9	18.6	20.4
1×3×1.5		8.8	8.8	/	10×3×0.75		21.8	20.6	22.5
1×3×2.5		10.0	10.0	/	10×3×1.0		23.3	22.0	23.8
2×3×0.5		10.9	10.5	11.4	10×3×1.5		25.1	23.8	25.6
2×3×0.75		11.9	11.5	12.8	10×3×2.5		30.0	28.1	30.5
2×3×1.0		13.1	12.7	13.6	12×3×0.5		20.9	19.5	21.4
2×3×1.5		14.0	13.6	14.5	12×3×0.75		22.8	21.5	23.3
2×3×2.5		16.3	15.9	16.8	12×3×1.0		24.4	23.0	24.9
3×3×0.5		12.3	11.3	12.8	12×3×1.5		26.3	24.9	26.8
3×3×0.75		13.4	12.8	13.9	12×3×2.5		31.4	30.1	31.9
3×3×1.0		14.3	13.6	14.8	14×3×0.5		21.8	20.3	22.3
3×3×1.5		15.3	14.7	15.8	14×3×0.75		23.9	22.4	26.5
3×3×2.5		18.4	17.2	18.9	14×3×1.0		25.5	24.0	26.0
4×3×0.5		13.2	12.6	13.7	14×3×1.5		27.5	26.0	28.0
4×3×0.75		14.5	13.8	15.0	14×3×2.5		32.9	31.4	33.4
4×3×1.0		15.5	14.7	16.0	16×3×0.5		23.2	21.6	23.7
4×3×1.5		16.6	15.9	17.1	16×3×0.75		25.4	23.8	25.9
4×3×2.5		20.0	19.3	20.5	16×3×1.0		27.2	25.5	27.7
5×3×0.5		14.2	13.4	14.7	16×3×1.5		29.9	27.6	30.4
5×3×0.75		15.4	14.6	15.9	16×3×2.5		35.5	32.4	36.0
5×3×1.0		16.4	15.6	16.9	(18)19×3×0.5		25.1	23.2	25.6
5×3×1.5		18.5	16.8	19.0	(18)19×3×0.75		27.5	25.7	28.0
5×3×2.5		21.2	20.4	21.7	(18)19×3×1.0		30.0	27.6	30.5
(6)7×3×0.5		15.1	14.2	15.6	(18)19×3×1.5		32.3	30.5	32.8
(6)7×3×0.75		17.0	16.1	17.5	(18)19×3×2.5		38.4	36.6	38.9
(6)7×3×1.0		18.8	17.2	19.3	24×3×0.5		28.5	25.8	29.0
(6)7×3×1.5		20.2	19.2	20.7	24×3×0.75		31.2	29.1	31.7
(6)7×3×2.5		23.5	22.6	24.0	24×3×1.0		33.4	31.2	34.3
8×3×0.5		17.6	15.9	18.1	24×3×1.5		36.4	34.3	36.9
8×3×0.75		19.2	17.6	19.7	24×3×2.5		43.2	41.0	43.7
8×3×1.0		20.5	19.4	21.0	/		/	/	/

备注:

- 1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径0.5mm范围;
- 2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。

Note:

- 1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
- 2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable			对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable		
		DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYVPVR DJVPVPR DJYJPVPR			DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYVPVR DJVPVPR DJYJPVPR
1×3×0.5	5	7.3	7.3	-	8×3×1.5	5	24.2	23.2	24.7
1×3×0.75		8.0	8.0	-	8×3×2.5		27.9	26.9	29.0
1×3×1.0		8.6	8.6	-	10×3×0.5		20.6	19.3	21.1
1×3×1.5		9.3	9.3	-	10×3×0.75		23.6	22.3	24.1
1×3×2.5		10.5	10.5	-	10×3×1.0		25.0	23.8	25.5
2×3×0.5		11.3	10.9	11.8	10×3×1.5		27.5	26.3	28.0
2×3×0.75		13.2	12.8	13.7	10×3×2.5		32.5	31.2	33.0
2×3×1.0		14.0	13.5	14.5	12×3×0.5		21.6	20.2	22.1
2×3×1.5		15.3	14.9	15.8	12×3×0.75		24.8	23.3	25.3
2×3×2.5		17.6	17.2	18.7	12×3×1.0		26.3	24.9	26.8
3×3×0.5		12.7	11.7	13.2	12×3×1.5		29.6	27.5	30.1
3×3×0.75		14.4	13.9	14.9	12×3×2.5		34.5	32.7	35.0
3×3×1.0		15.2	14.7	15.7	14×3×0.5		22.6	21.1	23.1
3×3×1.5		16.7	16.2	17.2	14×3×0.75		25.9	24.4	26.4
3×3×2.5		19.8	19.3	20.3	14×3×1.0		27.5	26.0	28.0
4×3×0.5		13.7	13.0	14.2	14×3×1.5		30.9	28.0	31.4
4×3×0.75		15.6	15.0	16.1	14×3×2.5		36.1	34.6	36.0
4×3×1.0		16.5	15.9	17.0	16×3×0.5		24.1	22.4	24.6
4×3×1.5		18.7	17.5	19.2	16×3×0.75		27.6	26.0	28.1
4×3×2.5		21.5	20.9	22.0	16×3×1.0		29.9	27.7	30.4
5×3×0.5		14.7	13.9	15.2	16×3×1.5		32.9	29.5	32.0
5×3×0.75		16.6	15.9	17.1	16×3×2.5		38.5	35.5	39.0
5×3×1.0		17.6	16.9	18.7	(18)19×3×0.5		26.0	24.2	26.5
5×3×1.5		19.7	19.2	20.4	(18)19×3×0.75		30.5	28.0	31.0
5×3×2.5		22.9	22.2	23.4	(18)19×3×1.0		32.3	30.5	32.8
(6)7×3×0.5		15.6	14.8	16.1	(18)19×3×1.5		36.0	31.5	34.5
(6)7×3×0.75		19.1	17.5	19.6	(18)19×3×2.5		42.1	38.5	42.6
(6)7×3×1.0		20.2	19.3	20.7	24×3×0.5		29.6	26.8	30.1
(6)7×3×1.5		22.2	21.2	22.7	24×3×0.75		34.3	31.8	34.8
(6)7×3×2.5		25.5	24.6	26.0	24×3×1.0		36.4	33.0	36.9
8×3×0.5		18.2	16.5	18.7	24×3×1.5		40.5	35.5	39.0
8×3×0.75		20.8	19.7	21.3	24×3×2.5		47.5	43.0	46.5
8×3×1.0		22.0	21.0	22.5	/		/	/	/

备注：

- 1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围；
- 2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑；
- 3、B类导体的电缆外径略小于R类导体的电缆外径约0.5~1mm范围内。

Note:

- 1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
- 2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
- 3.Outer diameter of cable with conductor of class B is smaller by 0.5~1mm than that of category R.

对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable			对数×芯数×导体标称截面 mm ² Pair number* Core number* Nominal cross-section area	导体种类 Conductor category	电缆计算外径 mm Calculated outer diameter of cable		
		DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYPPV22 DJVPVP22 DJYJPVP22			DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYPPV22 DJVPVP22 DJYJPVP22
1×3×0.5	1	10.8	10.8	-	8×3×1.5	1	25.0	24.0	25.5
1×3×0.75		11.1	11.1	-	8×3×2.5		29.7	28.1	30.2
1×3×1.0		11.6	11.6	-	10×3×0.5		23.8	22.5	24.3
1×3×1.5		12.3	12.3	-	10×3×0.75		24.8	23.6	25.3
1×3×2.5		13.5	13.5	-	10×3×1.0		26.7	25.0	27.2
2×3×0.5		14.9	14.5	15.4	10×3×1.5		29.1	27.2	29.6
2×3×0.75		15.3	14.9	15.8	10×3×2.5		33.4	32.1	34.3
2×3×1.0		16.1	15.7	16.6	12×3×0.5		24.8	23.4	25.3
2×3×1.5		17.0	16.6	17.5	12×3×0.75		25.8	24.5	26.3
2×3×2.5		19.9	19.5	20.4	12×3×1.0		27.8	26.0	28.9
3×3×0.5		15.9	15.3	16.4	12×3×1.5		30.3	28.3	30.8
3×3×0.75		16.4	15.8	16.9	12×3×2.5		35.2	33.5	36.2
3×3×1.0		17.3	16.6	18.4	14×3×0.5		26.2	24.3	26.7
3×3×1.5		18.9	18.3	19.4	14×3×0.75		27.3	25.4	27.8
3×3×2.5		21.4	20.8	21.9	14×3×1.0		29.5	27.4	30.0
4×3×0.5		16.9	16.2	17.4	14×3×1.5		31.5	30.0	32.0
4×3×0.75		17.5	16.8	18.6	14×3×2.5		37.2	35.2	37.7
4×3×1.0		19.1	18.3	19.6	16×3×0.5		27.7	25.6	28.2
4×3×1.5		20.2	19.5	20.7	16×3×0.75		29.4	27.2	29.9
4×3×2.5		23.0	22.3	23.5	16×3×1.0		31.2	29.5	31.7
5×3×0.5		18.5	17.1	19.0	16×3×1.5		33.3	31.6	33.8
5×3×0.75		19.0	17.6	19.5	16×3×2.5		39.8	37.7	40.3
5×3×1.0		20.0	19.2	20.5	(18)19×3×0.5		30.2	27.8	30.7
5×3×1.5		21.2	20.4	21.7	(18)19×3×0.75		31.5	29.7	32.0
5×3×2.5		24.2	23.4	24.7	(18)19×3×1.0		33.4	31.6	34.3
(6)7×3×0.5		19.4	18.6	19.9	(18)19×3×1.5		36.6	34.3	37.1
(6)7×3×0.75		20.6	19.7	21.1	(18)19×3×2.5		42.9	41.1	43.4
(6)7×3×1.0		21.8	20.8	22.3	24×3×0.5		33.6	31.0	34.1
(6)7×3×1.5		23.2	22.2	23.7	24×3×0.75		35.0	32.5	36.0
(6)7×3×2.5		26.9	25.6	27.4	24×3×1.0		37.7	35.0	38.2
8×3×0.5		21.4	20.3	21.9	24×3×1.5		40.9	38.2	41.4
8×3×0.75		22.2	21.2	22.7	24×3×2.5		48.1	45.7	48.6
8×3×1.0		23.5	22.4	24.0	/		/	/	/

备注：

- 1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围；
- 2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑；
- 3、钢丝铠装型电缆外径在钢带铠装型电缆外径基础上增加1~1.5mm。

Note:

- 1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
- 2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
- 3.Outer diameter of cable with steel wire armor is added by 1~1.5mm on the basis of that with steel tape armor.

电气装备用电缆 Cable for electrical Equipment



聚氯乙烯绝缘电缆（电线）

Cable(wire)with PVC Insulation

通用橡套软电缆

Soft Rubber Sheath Cable for General Purpose

电焊机电缆

Arc Welding electrode cables

聚氯乙烯绝缘电缆（电线）

Cable(wire)with PVC Insulation

该类产品中B系列产品适用于交流额定电压450/750V及以下的动力装置固定敷设用；R系列产品适用于交流额定电压300/500V及以下的家用电器，小型电动工具、仪器、仪表及动力照明用铜芯聚氯乙烯绝缘连接软电缆（电线）。

一、生产执行标准

GB/T5023.1~7-2008等 同 采 用 IEC60227, JB/T8734.1~5-2016。

二、分类和型号

- 0-固定布线用无护套电缆；
- 01-一般用途单芯硬导体无护套电缆（60227IEC01）；
- 02-一般用途单芯软导体无护套电缆（60227IEC02）；
- 05-内部布线用导体温度为70℃的单芯实心导体无护套电缆（60227IEC05）；
- 06-内部布线用导体温度为70℃的单芯软导体无护套电缆（60227IEC06）；
- 07-内部布线用导体温度为90℃的单芯实心导体无护套电缆（60227IEC07）；
- 08-内部布线用导体温度为90℃的单芯软导体无护套电缆（60227IEC08）；
- 1-固定布线用护套电缆；
- 10-轻型聚氯乙烯护套电缆（60227IEC10）；
- 5-一般用途护套软电缆；
- 52-轻型聚氯乙烯护套软线（60227IEC52）；
- 53-普通聚氯乙烯护套软线（60227IEC53）。

三、产品型号中各字母代表意义

- 1、按用途分
 - 固定敷设用电线（电线） B
 - 连接用软电线（电线） R
 - 装饰照明用软线 S
- 2、按材料特性分
 - 铜导体 省略
 - 聚氯乙烯绝缘 V
 - 聚氯乙烯护套 V
 - 耐油聚氯乙烯护套 VY
- 3、按结构特性分
 - 圆形 省略
 - 扁形（平形） B
 - 双绞型 S
 - 屏蔽型 P
 - 软结构 R
- 4、按耐热特性分
 - 70℃ 省略
 - 90℃ 90

B series of the product are used for fixed laying in powerplant of A.C rated voltage 450/750V or lower; R series of soft connection cable (wire) with cu core, PVC insulation.It is that suitable for household appliances, small electric tools, instruments and power lighting, with up to and including of AC rated voltage 300/500V.

Executive standard

GB/T5023.1~7-2008(equal to IEC60227),JB/T8734.1~5-2016.

Classication and Type as follows

- 0-Non-sheathed cable for fixed wiring
- 01-Single-core non-sheathed cable with rigid conductor for general purposes (60227IEC01)
- 02-Single-core non-sheathed cable with flexible conductor for general purposes (60227IEC02)
- 05-Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 70℃) (60227IEC05)
- 06-Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 70℃) (60227IEC06)
- 07-Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 90℃) (60227IEC07)
- 08-Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 90℃) (60227IEC08)
- 1-Cable with sheath for permanent wiring
- 10-Light PVC-sheathed cable (60227IEC10)
- 5-Flexible cable with sheath for general purpose
- 52-Light PVC-sheathed flexible wire (60227IEC52)
- 53-Ordinary (PVC-)sheathed flexible wire (60227IEC53)

Code Meaning

- 1.Classified by usage
 - Cable (wire) for fixed installation B
 - Flexible cable (wire) for connection R
 - Flexible wire for decorated lighting S
- 2.Classified by material performance
 - Cu conductorOmitted
 - PVC insulation V
 - PVC sheath..... V
 - Oil resistant PVC sheath VY
- 3.Classified by structure character
 - Round typeOmitted
 - Flat type B
 - Twinsted-pair type S
 - Shielding type P
 - Soft structure R
- 4. Classified by heat resistant performance
 - 70℃ Omitted
 - 90℃90

四、型号名称及相应执行标准

Type, Description and Relevant Executive Standard

型号 Type	名称 Description	芯数 Core number	生产范围mm ² Production scope	额定电压 (V) Rated voltage	执行标准 Executive standard
60227IEC01 (BV)	一般用途单芯硬导体无护套电缆 Single-core non-sheathed cable with rigid conductor for general purposes	1	1.5~240	450/750	GB/T5023.3
60227IEC02 (RV)	一般用途单芯软导体无护套电缆 Single-core non-sheathed cable with flexible conductor for general purposes	1	1.5~240	450/750	
60227IEC05 (BV)	内部布线用导体温度为70℃的单芯实心导体无护套电缆 Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 70℃)	1	0.5~1.0	300/500	
60227IEC06 (RV)	内部布线用导体温度为70℃的单芯软导体无护套电缆 Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 70℃)	1	0.5~1.0	300/500	
60227IEC07 (BV-90)	内部布线用导体温度为90℃的单芯实心导体无护套电缆 Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 90℃)	1	0.5~2.5	300/500	
60227IEC08 (RV-90)	内部布线用导体温度为90℃的单芯软导体无护套电缆 Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 90℃)	1	0.5~2.5	300/500	
60227IEC10 (BVV)	轻型聚氯乙烯护套电缆 Light PVC-sheathed cable	2~5	1.5~35	300/500	GB/T5023.4
60227IEC52 (RVV)	轻型聚氯乙烯护套软线 Light PVC-sheathed flexible wire	2、3	0.5、0.75	300/300	GB/T5023.5
60227IEC53 (RVV)	普通聚氯乙烯护套软线 Ordinary (PVC-)sheathed flexible wire	2~5	0.75~2.5	300/500	
BV	铜芯聚氯乙烯绝缘电线 Wire with cu core, PVC insulation	1	0.75、1.0	300/500	JB/T 8734.2
BLV	铝芯聚氯乙烯绝缘电线 Wire with aluminum core, PVC insulation	1	2.5~400	450/750	
BVR	铜芯聚氯乙烯绝缘软电线 Flexible wire with cu core, PVC insulation	1	2.5~185	450/750	
BVV	铜芯聚氯乙烯绝缘护套圆形电缆 Round type cable with Cu core, PVC insulation and sheath	1	0.75~185	300/500	
BLVV	铝芯聚氯乙烯绝缘护套圆形电缆 Round type cable with aluminum core, PVC insulation and sheath	1	2.5~185	300/500	
BVVB	铜芯聚氯乙烯绝缘护套扁形电缆 Flat type cable with Cu core, PVC insulation and sheath	2、3	0.75~10	300/500	
BLVVB	铝芯聚氯乙烯绝缘护套扁形电缆 Flat type cable with aluminum core, PVC insulation and sheath	2、3	2.5~10	300/500	
RVVP	铜芯聚氯乙烯绝缘屏蔽聚氯乙烯护套软电缆 (线) Flexible cable (wire) with Cu core, PVC insulation and shielding, PVC sheath	1~26	0.12~4.0	300/300	JB/T8734.5
RVV	铜芯聚氯乙烯绝缘聚氯乙烯护套软电线 Flexible wire with cu core, PVC insulation, PVC sheath	2	1.5~10	300/500	JB/T8734.3
		3~5	4~10		
		6~41	0.5~2.5		
RVS	铜芯聚氯乙烯绝缘绞型连接用软电线 PVC insulated twisted type connection flexible wire	2	0.5~0.6	300/300	JB/T8734.3

五、工作条件

1、长期允许工作温度应不超过：BV-90、RV-90型导体最高温度为90℃，其他型号为70℃。

2、电缆（线）敷设时温度应不低于0℃。

3、推荐的允许弯曲半径：电缆外径 < 25mm，应不小于4倍的电缆外径；电缆外径 ≥ 25mm，应不小于6倍的电缆外径。

Working Condition

1.Max conductor temperature for long-term working is 90℃ for BV-90、RV-90 type cable and 70℃ for other types.

2.Ambient temperature for installing cable(wire) shall be no lower than 0℃.

3.Recommended bending radius:

It is no less than 4 times of cable OD when cable OD is less than 25mm.

It is no less than 6 times of cable OD when cable OD is no less than 25mm.

六、规格尺寸（部分）

Specication and Size (part)

60227IEC01 (BV)

导体标称截面mm ² Nominal cross section area	导体种类 Conductor category	绝缘厚度标称值mm Nominal insulated thickness	外径上限mm Max. outer diameter	70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃
1.5	1	0.7	3.2	0.011
1.5	2	0.7	3.3	0.010
2.5	1	0.8	3.9	0.010
2.5	2	0.8	4.0	0.009
4	1	0.8	4.4	0.0085
4	2	0.8	4.6	0.0077
6	1	0.8	5.0	0.0070
6	2	0.8	5.2	0.0065
10	1	1.0	6.4	0.0070
10	2	1.0	6.7	0.0065
16	2	1.0	7.8	0.0050
25	2	1.2	9.7	0.0050
35	2	1.2	10.9	0.0043
50	2	1.4	12.8	0.0043
70	2	1.4	14.6	0.0035
95	2	1.6	17.1	0.0035
120	2	1.6	18.8	0.0032
150	2	1.8	20.9	0.0032
185	2	2.0	23.3	0.0032
240	2	2.2	26.6	0.0032
300	2	2.4	29.6	0.0030
400	2	2.6	33.0	0.0028

60227IEC02 (RV)

导体标称截面mm ² Nominal cross section area	导体种类 Conductor category	绝缘厚度标称值mm Nominal insulated thickness	外径上限mm Max. outer diameter	70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃
1.5	5	0.7	3.4	0.010
2.5	5	0.8	4.1	0.009
4	5	0.8	4.8	0.007
6	5	0.8	5.3	0.006
10	5	1.0	6.8	0.0056
16	5	1.0	8.1	0.0046
25	5	1.2	10.2	0.0044
35	5	1.2	11.7	0.0038
50	5	1.4	13.9	0.0037
70	5	1.4	16.0	0.0032
95	5	1.6	18.2	0.0032
120	5	1.6	20.2	0.0029
150	5	1.8	22.5	0.0029
185	5	2.0	24.9	0.0029
240	5	2.2	28.4	0.0028

60227IEC05 (BV)

导体标称截面mm ² Nominal cross section area	绝缘厚度标称值mm Nominal insulated thickness	外径上限mm Max. outer diameter	70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃
0.5	0.6	2.3	0.015
0.75	0.6	2.5	0.012
1.0	0.6	2.7	0.011

60227IEC06 (RV)

导体标称截面mm ² Nominal cross section area	绝缘厚度标称值mm Nominal insulated thickness	外径上限mm Max. outer diameter	70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃
0.5	0.6	2.5	0.013
0.75	0.6	2.7	0.011
1.0	0.6	2.8	0.010

60227IEC07 (BV-90)

导体标称截面mm ² Nominal cross section area	绝缘厚度标称值mm Nominal insulated thickness	外径上限mm Max. outer diameter	70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃
0.5	0.6	2.3	0.015
0.75	0.6	2.5	0.013
1.0	0.6	2.7	0.012
1.5	0.7	3.2	0.011
2.5	0.8	3.9	0.009

60227IEC08 (RV-90)

导体标称截面mm ² Nominal cross section area	绝缘厚度标称值mm Nominal insulated thickness	外径上限mm Max. outer diameter	70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃
0.5	0.6	2.5	0.013
0.75	0.6	2.7	0.012
1.0	0.6	2.8	0.010
1.5	0.7	3.4	0.009
2.5	0.8	4.1	0.009

注：其它规格结构及技术参数请参见GB5023-2008或JB/T8734-2012标准。

Note: Please refer to GB5023-2008 or JB/T8734-2012 standard for other specification and technical parameter.

七、交货长度

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过±0.5%。

Delivery Length

- 1.Delivery length of cable depends on both agree-ments.
- 2.The measurement error of lenth is no more than ±0.5%.

通用橡套软电缆

Soft Rubber Sheath Cable for General Purpose

本产品适用于交流额定电压450/750V及以下的家用电器、电动工具和各种移动电气设备。

It is used for household electrical appliance, electrical tools and various mobile electrical equipments with AC rated voltage to and including 450/750V.

一、生产执行标准

GB/T 5013-2008, JB/T 8735-2016.

Executive standard

GB/T 5013-2008, JB/T 8735-2016.

二、使用特性

- 1、额定电压:YZ、YZW型为300/500V、YC、YCW型为450/750V;
- 2、电缆允许工作温度应不超过65℃。

Operational performance

- 1.Rated voltage 300/500V for YZ and YZW type, 450/750V for YC and YCW type.
- 2.Working temperature allowed by cable shall not exceed 65℃.

三、型号及名称及主要用途

Type, Description and Main Application

型号 Type	名称 Description	主要用途 Main application
60245 IEC 53(YZ)	普通强度橡套软线 Ordinary tough rubber sheathed core	用于各种移动电器设备和工具 For varlous mobile electric devices and tools
60245 IEC 57(YZW)	普通氯丁或其他相当的合成弹性橡套软线 Ordinary polychloroprene or other equivalent synthetic elastomer sheathed cables	用于各种移动电器设备和工具 For varlous mobile electric devices and tools
YZ YZW	中型橡套软电缆 General type rubber sheath soft cable	用于各种移动电器设备和工具 For varlous mobile electric devices and tools
60245 IEC 66(YCW)	重型氯丁或其他相当的合成弹性体橡套软电缆 Heavy polychloroprene or other equivalent synthetic elastomer sheathed flexible cables	用于各种移动电器设备, 能承受较大的机械外力作用 Used for various portable electric equipment which can bear larger mechanical force effect.
YC YCW	重型橡套软电缆 Heavy type rubber sheath soft cable	用于各种移动电器设备, 能承受较大的机械外力作用 Used for various portable electric equipment which can bear larger mechanical force effect.

四、规格范围

Specication Range

型号 Type	额定电压V Rated voltage	芯数 Core number	标称截面mm ² Nominal cross section area
60245IEC53 (YZ)	300/500	2~5	0.75~2.5
60245IEC57 (YZW)	300/500	2~5	0.75~2.5
60245IEC66 (YZW)	450/750	1	1.5~240
		2	1.0~25
		3	1.0~95
		4	1.0~150
		5	1.0~25
YZ	300/500	2~5	4~6
		6	0.75~6
YZW	300/500	2~5	4~6
		6	0.75~6
YC	450/750	1	1.5~240
		2	1.5~95
		3~4	1.5~150
		5	1.5~25
		3+1	2.5~150
YCW	450/750	2	35~95
		3	120~150
		3+1	2.5~150

五、规格尺寸及技术参数如下表

Specification , Size and Technical Parameter

Table 3 60245 IEC 53(YZ) 60245 IEC 57(YZW)

标称截面 mm ² Nominal cross section area	最大单丝直径 (mm) Max.diameter of single wire	20℃导体电阻≤Ω/km Conductor resistance at 20℃	电缆外径参考 Cable OD for reference			
			2芯 2cores	3芯 3cores	4芯 4cores	5芯 5cores
0.75	0.21	26.0	5.7~7.4	6.2~8.1	6.8~8.8	7.6~9.9
1.0	0.21	19.5	6.1~8.0	6.5~8.5	7.1~9.3	8.0~10.3
1.5	0.26	13.3	7.6~9.8	8.0~10.4	9.0~11.6	9.8~12.7
2.5	0.26	7.98	9.0~11.6	9.6~12.4	10.7~13.8	11.9~15.3

Table 4 60245IEC 66(YCW)

标称截面 mm ² Nominal cross section area	最大单丝直径 (mm) Max.diameter of single wire	20℃导体电阻≤Ω/km Conductor resistance at 20℃	电缆外径参考 Cable OD for reference				
			1芯 1cores	2芯 2cores	3芯 3cores	4芯 4cores	5芯 5cores
1.0	0.21	19.5	-	7.7~10.0	8.3~8.8	9.2~11.9	10.2~13.1
1.5	0.26	13.3	5.7~7.1	8.5~11.0	9.2~11.9	10.2~13.1	11.2~14.4
2.5	0.26	7.98	6.3~7.9	10.2~13.1	10.9~14.0	12.1~15.5	13.3~17.0
4	0.31	4.95	7.2~9.0	11.8~15.1	12.7~16.2	14.0~17.9	15.6~19.9
6	0.31	3.30	7.9~9.8	13.1~16.8	14.0~18.0	15.7~20.0	17.5~22.2
10	0.41	1.91	9.5~11.9	17.7~22.6	19.1~24.2	20.9~26.5	22.9~29.1
16	0.41	1.21	10.8~13.4	20.2~25.7	21.8~27.6	23.8~30.1	26.4~33.3
25	0.41	0.780	12.7~15.8	24.3~30.7	26.0~33.0	28.9~36.6	32.0~40.4
35	0.41	0.554	14.3~17.9	-	29.3~37.1	32.5~41.1	-
50	0.41	0.386	16.5~20.6	-	34.1~42.9	37.7~47.5	-
70	0.51	0.272	18.6~23.3	-	38.4~48.3	42.7~54.0	-
95	0.51	0.206	20.8~26.0	-	43.3~54.0	48.4~61.0	-
120	0.51	0.161	22.8~28.6	-	-	53.0~66.0	-
150	0.51	0.129	25.0~31.4	-	-	58.0~73.0	-
185	0.51	0.106	27.6~34.4	-	-	-	-
240	0.51	0.0801	30.6~38.3	-	-	-	-

Table 5 YZ、YZW中型300/500V橡胶套电缆 YZ、YZW 300/500 Medium rubber insulated cable

芯数*标称截面 (mm ²) No.*nominal cross section area	最大单丝直径 (mm) Max.diameter of single wire	绝缘厚度规定值 (mm) Nominal thickness of insulation	护套厚度 (mm) Sheath thickness	外径范围 (mm) Range of outer diameter	20℃导体电阻≤Ω/km Conductor resistance at 20℃	
					铜芯 Copper core	镀锡铜芯 Tinned copper core
2*4	0.31	1.0	1.2	10.6~13.7	4.95	5.09
2*6	0.31	1.0	1.3	11.8~15.1	3.30	3.39
3*4	0.31	1.0	1.2	11.3~14.5	4.95	5.09
3*6	0.31	1.0	1.3	12.6~16.1	3.30	3.39
4*4	0.31	1.0	1.3	12.7~16.2	4.95	5.09
4*6	0.31	1.0	1.4	14.0~17.9	3.30	3.39
3*1.5+1*1	0.26/0.21	0.8/0.6	1.1	8.6~11.2	13.3/19.5	13.7/20.0
3*2.5+1*1.5	0.26/0.26	0.9/0.8	1.2	10.4~13.3	7.98/13.3	8.21/13.7
3*4+1*2.5	0.31/0.26	1.0/0.9	1.3	12.3~15.7	4.95/7.98	5.09/8.21
3*6+1*4	0.31/0.31	1.0/1.0	1.4	13.7~17.5	3.30/4.95	3.39/5.09
5*4	0.31	1.0	1.4	14.1~17.9	4.95	5.09
5*6	0.31	1.0	1.6	15.7~20.0	3.30	3.39
3*1.5+2*1	0.26/0.31	0.8/0.6	1.1	9.2~11.8	13.3/19.5	13.7/20.0
3*2.5+2*1.5	0.26/0.26	0.9/0.8	1.2	11.1~14.2	7.98/13.3	8.21/13.7
3*4+2*2.5	0.31/0.26	1.0/0.9	1.3	13.3~17.0	4.95/7.98	5.09/3.21
3*6+2*4	0.31/0.31	1.0/1.1	1.4	15.0~19.2	3.30/4.95	3.39/5.09
4*1.5+1*1	0.26/0.21	0.8/0.6	1.1	9.5~12.3	13.3/19.5	13.7/20.0
4*2.5+1*1.5	0.26/0.26	0.9/0.8	1.2	11.4~14.6	7.98/13.3	8.21/13.7
4*4+1*2.5	0.31/0.26	1.0/0.9	1.4	13.7~17.5	4.95/7.98	5.09/8.21

4*6+1*4	0.31/0.31	1.0/1.0	1.5	15.3~19.5	3.30/4.95	3.39/5.09
6*0.75	0.21	0.6	1.0	8.2~10.7	26.0	26.7
6*1	0.21	0.6	1.1	8.7~11.5	19.5	20.0
6*1.5	0.26	0.8	1.2	10.9~14.0	13.3	13.7
6*2.5	0.26	0.9	1.4	13.2~16.9	7.98	8.21
6*4	0.31	1.0	1.5	15.5~19.8	4.95	5.09
6*6	0.31	1.0	1.7	17.4~22.1	3.30	3.39

Table 6 YC重型450/750V橡套软电缆 YC450/750V heavy rubber insulated flexible cable

芯数×导体标称 截面积mm ² Core No.*Conductor nominal cross-sectional area	导体中单线 最大直径 mm The maximum diameter of a single line in a conductor	绝缘厚度规定值 mm Specified value of insulation thickness	护套厚度规定值 mm Specified value of sheath thickness			平均外径 mm Average outside diameter		20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃	
			单层 Single layer	单层 Two layer		下限 Lower limit	上限 Upper limit	铜芯 Copper core	镀锡铜芯 Tinned copper core
				内层 Inner layer	外层 Outer layer				
1×1	0.21	0.8	1.3	-	-	5.2	6.5	19.5	20.0
1×1.5	0.26	0.8	1.4	-	-	5.7	7.1	13.3	13.7
1×2.5	0.26	0.9	1.4	-	-	6.3	7.9	7.98	8.21
1×4	0.31	1.0	1.5	-	-	7.2	9.0	4.95	5.09
1×6	0.31	1.0	1.6	-	-	7.9	9.8	3.30	3.39
1×10	0.41	1.2	1.8	-	-	9.5	11.9	1.91	1.95
1×16	0.41	1.2	1.9	-	-	10.8	13.4	1.21	1.24
1×25	0.41	1.4	2.0	-	-	12.7	15.8	0.780	0.795
1×35	0.41	1.4	2.2	-	-	14.3	17.9	0.554	0.565
1×50	0.41	1.6	2.4	-	-	16.5	20.6	0.386	0.393
1×70	0.51	1.6	2.6	-	-	18.6	23.3	0.272	0.277
1×95	0.51	1.8	2.8	-	-	20.8	26.0	0.206	0.210
1×120	0.51	1.8	3.0	-	-	22.8	28.6	0.161	0.164
1×150	0.51	2.0	3.2	-	-	25.2	31.4	0.129	0.132
1×185	0.51	2.2	3.4	-	-	27.6	34.4	0.106	0.108
1×240	0.51	2.4	3.5	-	-	30.6	38.3	0.0801	0.0817
1×300	0.51	2.6	3.6	-	-	33.5	41.9	0.0641	0.0654
1×400	0.51	2.8	3.8	-	-	37.4	46.8	0.0486	0.0495
2×1	0.21	0.8	1.3	-	-	7.7	10.0	19.5	20.0
2×1.5	0.26	0.8	1.5	-	-	8.5	11.0	13.3	13.7
2×2.5	0.26	0.9	1.7	-	-	10.2	13.1	7.98	8.21
2×5	0.31	1.0	1.8	-	-	11.8	15.1	4.95	5.09
2×6	0.31	1.0	2.0	-	-	13.1	16.8	3.30	3.39
2×10	0.41	1.2	3.1	-	-	17.7	22.6	1.91	1.95
2×16	0.41	1.2	3.3	1.3	2.0	20.2	25.7	1.21	1.24
2×25	0.41	1.4	3.6	1.4	2.2	24.3	30.7	0.780	0.795
2×35	0.41	1.4	3.9	1.5	2.4	27.3	34.6	0.554	0.565
2×50	0.41	1.6	4.3	1.7	2.6	31.8	40.1	0.386	0.393
2×70	0.51	1.6	4.6	1.8	2.8	35.8	45.1	0.272	0.277
2×95	0.51	1.8	5.0	2.0	3.0	40.2	51.0	0.206	0.210
3×1	0.21	0.8	1.4	-	-	8.3	10.7	19.5	20.0
3×1.5	0.26	0.8	1.6	-	-	9.2	11.9	13.3	13.7
3×2.5	0.26	0.9	1.8	-	-	10.9	14.0	7.98	8.21
3×4	0.31	1.0	1.9	-	-	12.7	16.2	4.95	5.09

Table 7 YC重型450/750V橡胶套软电缆 (续) YC 450/750V heavy rubber insulated flexible cable (sequel)

芯数×导体标称 截面积mm ² Core No.*Conductor nominal cross-sectional area	导体中单线 最大直径 mm The maximum diameter of a single line in a conductor	绝缘厚度 规定值 mm Specified value of insulation thickness	护套厚度规定值 mm Specified value of sheath thickness			平均外径 mm Average outside diameter		20°C时导体电阻最大值 Ω/km Max. conductor resistance at 20°C	
			单层 Single layer	单层 Two layer		下限 Lower limit	上限 Upper limit	铜芯 Copper core	镀锡铜芯 Tined copper core
				内层 Inner layer	外层 Outer layer				
3×6	0.31	1.0	2.1	-	-	14.0	18.0	3.30	3.39
3×10	0.41	1.2	3.3	-	-	19.1	24.2	1.91	1.95
3×16	0.41	1.2	3.5	1.4	2.1	21.8	27.6	1.21	1.24
3×25	0.41	1.4	3.8	1.5	2.3	26.1	33.0	0.780	0.795
3×35	0.41	1.4	4.1	1.6	2.5	29.3	37.1	0.554	0.565
3×50	0.41	1.6	4.5	1.8	2.7	34.1	42.9	0.386	0.393
3×70	0.51	1.6	4.8	1.9	2.9	38.4	48.3	0.272	0.277
3×95	0.51	1.8	5.3	2.1	3.2	43.3	54.0	0.206	0.210
3×120	0.51	1.8	5.6	2.2	3.4	47.3	60.0	0.161	0.164
3×150	0.51	2.0	6.0	2.4	3.6	52.0	66.0	0.129	0.132
4×1	0.21	0.8	1.5	-	-	9.2	11.9	19.5	20.0
4×1.5	0.26	0.8	1.7	-	-	10.2	13.1	13.3	13.7
4×2.5	0.26	0.9	1.9	-	-	12.1	15.5	7.98	8.21
4×6	0.31	1.0	2.0	-	-	14.0	17.9	4.95	5.09
4×6	0.31	1.0	2.3	-	-	15.7	22.0	3.30	3.39
4×10	0.41	1.2	3.4	-	-	20.9	26.5	1.91	1.95
4×16	0.41	1.2	3.6	1.4	2.2	23.8	30.1	1.21	1.24
4×25	0.41	1.4	4.1	1.6	2.5	28.9	36.6	0.780	0.795
4×35	0.41	1.4	4.4	1.7	2.7	32.5	41.1	0.554	0.565
4×50	0.46	1.6	4.8	1.9	2.9	37.7	47.5	0.386	0.393
4×70	0.51	1.6	5.2	2.0	3.2	42.7	54.0	0.272	0.277
4×95	0.51	1.8	5.9	2.3	3.6	48.4	61.0	0.206	0.210
4×120	0.51	1.8	6.0	2.4	3.6	53.0	66.0	0.161	0.164
4×150	0.51	2.0	6.5	2.6	3.9	58.0	73.0	0.129	0.132
4×150	0.51	2.0	6.5	2.6	3.9	58.0	73.0	0.129	0.132
四芯 ^a (三大一小) Four core (Three big and one small)	3×2.5+1×1.5	0.26/0.26	0.9/0.8	1.8	-	11.5	14.7	7.98	8.21
	3×4+1×2.5	0.31/0.26	1.0/0.9	2.0	-	13.6	17.3	4.95	5.09
	3×6+1×4	0.31/0.31	1.1/1.0	2.2	-	15.2	19.4	3.30	3.39
	3×10+1×6	0.41/0.31	1.2/1.0	3.3	-	19.9	25.3	1.91	1.95
	3×16+1×6	0.41/0.31	1.2/1.0	3.5	1.4	22.2	28.1	1.21	1.24
	3×25+1×10	0.41/0.41	1.4/1.2	3.9	1.6	26.9	34.0	0.780	0.795
	3×35+1×10	0.41/0.41	1.4/1.2	4.1	1.6	29.5	37.3	0.554	0.565
	3×50+1×16	0.41/0.41	1.6/1.2	4.5	1.8	34.2	43.2	0.386	0.393
	3×70+1×25	0.51/0.41	1.6/1.4	4.9	2.0	39.2	49.4	0.272	0.277
	3×95+1×35	0.51/0.41	1.8/1.4	5.3	2.1	44.0	55.4	0.206	0.210
	3×120+1×35	0.51/0.41	1.8/1.4	5.6	2.2	47.6	66.0	0.161	0.164
	3×125+1×50	0.51/0.41	2.0/1.6	6.1	2.4	53.0	67.0	0.129	0.132

Table 8 YC重型450/750V橡胶套软电缆 (续) YC 450/750V heavy rubber insulated flexible cable (sequel)

芯数×导体标称 截面积mm ² Core No.*Conductor nominal cross-sectional area	导体中单线 最大直径 mm The maximum diameter of a single line in a conductor	绝缘厚度 规定值 mm Specified value of insulation thickness	护套厚度规定值 mm Specified value of sheath thickness			平均外径 mm Average outside diameter		20°C时导体电阻最大值 Ω/km Max. conductor resistance at 20°C	
			单层 Single layer	单层 Two layer		下限 Lower limit	上限 Upper limit	铜芯 Copper core	镀锡铜芯 Tined copper core
				内层 Inner layer	外层 Outer layer				
5×1	0.26	0.8	1.6	-	-	10.2	13.1	19.5	20.0
5×1.5	0.26	0.8	1.8	-	-	11.2	14.4	13.3	13.7
5×2.5	0.26	0.9	2.0	-	-	13.3	17.0	7.98	8.21
5×4	0.31	1.0	2.2	-	-	15.6	19.9	4.95	5.09
5×6	0.31	1.0	2.5	-	-	17.5	22.2	3.30	3.39
5×10	0.41	1.2	3.6	-	-	22.9	29.1	1.91	1.95
5×16	0.41	1.2	3.9	1.5	2.4	26.4	33.3	1.21	1.24
5×25	0.41	1.4	4.4	1.7	2.7	32.0	40.4	0.780	0.795
5×35	0.41	1.4	4.6	1.8	2.8	35.7	45.1	0.554	0.565
5×50	0.41	1.6	5.1	2.0	3.1	41.6	52.0	0.386	0.393
5×70	0.51	1.6	5.5	2.2	3.3	47.1	59.0	0.272	0.277
5×95	0.51	1.8	6.1	2.4	3.7	53.0	67.0	0.206	0.210
5×120	0.51	1.8	6.6	2.6	4.0	59.0	74.0	0.161	0.164
5×150	0.51	2.0	7.1	2.8	4.3	65.0	81.0	0.129	0.132
五芯 ^a (三大二小) Five core (Three big and two small)	3×2.5+1×1.5	0.26/0.26	0.9/0.8	1.9	-	12.4	15.9	7.98	8.21
	3×4+2×2.5	0.31/0.26	1.0/0.9	2.2	-	14.8	18.9	4.95	5.09
	3×6+2×4	0.31/0.31	1.0/1.0	2.4	-	16.7	21.3	3.30	3.39
	3×10+2×6	0.41/0.31	1.2/1.0	3.4	-	21.2	26.9	1.91	1.95
	3×16+2×6	0.41/0.31	1.2/1.0	3.6	1.4	23.3	29.5	1.21	1.24
	3×25+2×10	0.41/0.41	1.4/1.2	4.0	1.6	28.2	35.6	0.780	0.795
	3×35+2×10	0.41/0.41	1.4/1.2	4.2	1.7	30.6	38.7	0.554	0.565
	3×50+2×16	0.41/0.41	1.6/1.2	4.6	1.8	35.5	44.7	0.386	0.393
	3×70+2×25	0.51/0.41	1.6/1.4	5.0	2.0	40.9	52.0	0.272	0.288
	3×95+2×35	0.51/0.41	1.8/1.4	5.5	2.2	46.2	58.0	0.206	0.210
	3×120+2×35	0.51/0.41	1.8/1.4	5.8	2.3	49.4	62.0	0.161	0.164
	3×150+2×50	0.51/0.41	2.0/1.6	6.3	2.5	55.0	70.0	0.129	0.132
五芯 ^a (四大一小) Five core (Four big and one small)	4×2.5+1×1.5	0.26/0.26	0.8/0.9	2.0	-	12.9	16.5	7.98	8.21
	4×4+1×2.5	0.31/0.26	1.0/0.9	2.2	-	15.2	19.4	4.95	5.09
	4×6+1×4	0.31/0.31	1.0/1.0	2.4	-	17.0	21.6	3.30	3.39
	4×10+1×6	0.41/0.31	1.2/1.0	3.5	-	22.0	28.0	1.91	1.95
	4×16+1×6	0.41/0.31	1.2/1.0	3.7	1.5	24.7	31.3	1.21	1.24
	4×25+1×10	0.41/0.41	1.4/1.2	4.2	1.7	30.1	38.0	0.780	0.795
	4×35+1×10	0.41/0.41	1.4/1.2	4.4	1.8	33.2	41.9	0.554	0.565
	4×50+1×16	0.41/0.41	1.6/1.2	4.9	2.0	38.7	48.7	0.386	0.393

Table 9 YC重型450/750 V橡胶软电缆 (续) YC 450/750V heavy rubber insulated flexible cable (sequel)

芯数×导体标称 截面积mm² Core No.*Conductor nominal cross-sectional area		导体中单线 最大直径 mm The maximum diameter of a single line in a conductor	绝缘厚度 规定值 mm Specified value of insulation thickness	护套厚度规定值 mm Specified value of sheath thickness			平均外径 mm Average outside diameter		20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃	
				单层 Single layer	单层 Two layer		下限 Lower limit	上限 Upper limit	铜芯 Copper core	镀锡铜芯 Tined copper core
					内层 Inner layer	外层 Outer layer				
五芯* (三大二小) Five core (Three big and two small)	4×70+1×25	0.51/0.41	1.6/1.4	5.3	2.1	3.2	44.1	56.0	0.272	0.277
	4×95+1×35	0.51/0.41	1.8/1.4	5.8	2.3	3.5	49.7	63.0	0.206	0.210
	4×120+1×35	0.51/0.41	1.8/1.4	6.2	2.5	3.7	54.0	68.0	0.161	0.164
	4×150+1×50	0.51/0.41	2.0/1.6	6.7	2.7	4.0	60.0	75.0	0.129	0.132

注：四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中小芯的直流电阻值与同型号相应截面积主线芯相同。
^a四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中导体电阻为主线芯导体电阻。

Note: In the 4 core (3 large and one small), 5 core (3 big 1 small) and 5 core (4 large 1 small) structure, the DC resistance of the small core is the same as that of the main core of the same section area type.
^a In the 4 core (3 big and 1 small) 5 core (3 big and 2 small) and 5 core (4 big and 1 small), the Conductor resistance is the master core conductor resistance.

Table 10 YCW重型450/750 V橡胶软电缆 YCW 450/750V heavy rubber insulated flexible cable

芯数×导体标称 截面积mm² Core No.*Conductor nominal cross-sectional area		导体中单线 最大直径 mm The maximum diameter of a single line in a conductor	绝缘厚度 规定值 mm Specified value of insulation thickness	护套厚度规定值 mm Specified value of sheath thickness			平均外径 mm Average outside diameter		20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃	
				单层 Single layer	单层 Two layer		下限 Lower limit	上限 Upper limit	铜芯 Copper core	镀锡铜芯 Tined copper core
					内层 Inner layer	外层 Outer layer				
2×35		0.41	1.4	3.9	1.5	2.4	27.3	34.6	0.554	0.565
2×50		0.41	1.6	4.3	1.7	2.6	31.8	40.1	0.386	0.393
2×70		0.51	1.6	4.6	1.8	2.8	35.8	45.1	0.272	0.277
2×95		0.51	1.8	5.0	2.0	3.0	40.2	51.0	0.206	0.210
3×120		0.51	1.8	5.6	2.2	3.4	47.3	60.0	0.161	0.164
3×150		0.51	2.0	6.0	2.4	3.6	52.0	66.0	0.129	0.132
五芯 ^a (四大一小) Five core (Four big and one small)	3×2.5+1×1.5	0.26/0.26	0.9/0.8	1.8	-	-	11.5	14.7	7.98	8.21
	3×4+1×2.5	0.31/0.26	1.0/0.9	2.0	-	-	13.6	17.3	4.95	5.09
	3×6+1×4	0.31/0.31	1.0/1.0	2.2	-	-	15.2	19.4	3.30	3.39
	3×10+1×6	0.41/0.31	1.2/1.0	3.3	-	-	19.9	25.3	1.91	1.95
	3×16+1×6	0.41/0.31	1.2/1.0	3.5	1.4	2.1	22.2	28.1	1.21	1.24
	3×25+1×10	0.41/0.41	1.4/1.2	3.9	1.6	2.3	26.9	34.0	0.780	0.795
	3×35+1×10	0.41/0.41	1.4/1.2	4.1	1.6	2.5	29.5	37.3	0.554	0.565
	3×50+1×16	0.41/0.41	1.6/1.2	4.5	1.8	2.7	34.2	43.2	0.386	0.393
	3×70+1×25	0.51/0.41	1.6/1.4	4.9	2.0	2.9	39.2	49.4	0.272	0.277
	3×95+1×35	0.51/0.41	1.7/1.4	5.3	2.1	3.2	44.0	55.4	0.206	0.210
	3×120+1×35	0.51/0.41	1.8/1.4	5.6	2.2	3.4	47.6	60.0	0.161	0.164
	3×150+1×50	0.51/0.41	2.0/1.6	6.1	2.4	3.7	53.0	67.0	0.129	0.132
5×35		0.41	1.4	4.6	1.8	2.8	35.7	45.1	0.554	0.565
5×50		0.41	1.6	5.1	2.0	3.1	41.6	52.0	0.386	0.393
5×70		0.51	1.6	5.5	2.2	3.3	47.1	59.0	0.272	0.277

Table10 YCW重型450/750 V橡胶软电缆 (续) YCW 450/750V heavy rubber insulated flexible cable (sequel)

芯数×导体标称 截面mm² Core No.*Conductor nominal cross-sectional area		导体中单线 最大直径 mm The maximum diameter of a single line in a conductor	绝缘厚度 规定值 mm Specified value of insulation thickness	护套厚度规定值 mm Specified value of sheath thickness			平均外径 mm Average outside diameter		20°C时导体电阻最大值 Ω/km Max. conductor resistance at 20°C	
				单层 Single layer	单层 Two layer		下限 Lower limit	上限 Upper limit	铜芯 Copper core	镀锡铜芯 Tined copper core
					内层 Inner layer	外层 Outer layer				
5×95		0.51	1.8	6.1	2.4	3.7	53.0	67.0	0.206	0.210
5×120		0.51	1.8	6.6	2.6	4.0	59.0	74.0	0.161	0.164
5×150		0.51	2.0	7.1	2.8	4.3	65.0	81.0	0.129	0.132
五芯* (三大二小) Five core (Three big and two small)	3×2.5+1×1.5	0.26/0.26	0.9/0.8	1.9	-	-	12.4	15.9	7.98	8.21
	3×4+2×2.5	0.31/0.26	1.0/0.9	2.2	-	-	14.8	18.9	4.95	5.09
	3×6+2×4	0.31/0.31	1.0/1.0	2.4	-	-	16.7	21.3	3.30	3.39
	3×10+2×6	0.41/0.31	1.2/1.0	3.4	-	-	21.2	26.9	1.91	1.95
	3×16+2×6	0.41/0.31	1.2/1.0	3.6	1.4	2.2	23.3	29.5	1.21	1.24
	3×25+2×10	0.41/0.41	1.4/1.2	4.0	1.6	2.4	28.2	35.6	0.780	0.795
	3×35+2×10	0.41/0.41	1.4/1.2	4.2	1.6	2.5	30.6	38.7	0.554	0.565
	3×50+2×16	0.41/0.41	1.6/1.2	4.6	1.8	2.8	35.5	44.7	0.386	0.393
	3×70+2×25	0.51/0.41	1.6/1.4	5.0	2.0	3.0	40.9	52.0	0.272	0.277
	3×95+2×35	0.51/0.41	1.7/1.4	5.5	2.2	3.3	46.2	58.0	0.206	0.210
	3×120+2×35	0.51/0.41	1.8/1.4	5.8	2.3	3.5	49.4	62.0	0.161	0.164
	3×150+2×50	0.51/0.41	2.0/1.6	6.3	2.5	3.8	55.0	70.0	0.129	0.132
五芯* (四大一小) Five core (Four big and one small)	4×2.5+1×1.5	0.26/0.26	0.9/0.8	2.0	-	-	12.9	16.5	7.98	8.21
	4×4+1×2.5	0.31/0.26	1.0/0.9	2.2	-	-	15.2	19.4	4.95	5.09
	4×6+1×4	0.31/0.31	1.0/1.0	2.4	-	-	17.0	21.6	3.30	3.39
	4×10+1×6	0.41/0.31	1.2/1.0	3.5	-	-	22.1	28.0	1.91	1.95
	4×16+1×6	0.41/0.31	1.2/1.0	3.7	1.5	2.2	24.7	31.3	1.21	1.24
	4×25+1×10	0.41/0.41	1.4/1.2	4.2	1.7	2.5	30.1	38.0	0.780	0.795
	4×35+1×10	0.41/0.41	1.4/1.2	4.4	1.8	2.6	33.2	41.9	0.554	0.565
	4×50+1×16	0.41/0.41	1.6/1.2	4.9	2.0	2.9	38.7	48.7	0.386	0.393
	4×70+1×25	0.51/0.41	1.6/1.4	5.3	2.1	3.2	44.1	56.0	0.272	0.277
	4×95+1×35	0.51/0.41	1.8/1.4	5.8	2.3	3.5	49.7	63.0	0.206	0.210
	4×120+1×35	0.51/0.41	1.8/1.4	6.2	2.5	3.7	54.0	68.0	0.161	0.164
	4×150+1×50	0.51/0.41	2.0/1.6	6.7	2.7	4.0	60.0	75.0	0.129	0.132

注：四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中小芯的直流电阻值与同型号相应截面主线芯相同。
*四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中导体电阻为主线芯导体电阻。

Note:In the 4 core (3 large and one small), 5 core (3 big 1 small) and 5 core (4 large 1 small) structure, the DC resistance of the small core is the same as that of the main core of the same section area type.
* In the 4 core (3 big and 1 small) 5 core (3 big and 2 small) and 5 core (4 big and 1 small), the Conductor resistance is the master core conductor resistance.

六、交货长度

- 1、根据双方协议允许任何长度的电缆交货，长度误差为±0.5%；
- 2、用户对产品有阻燃特性要求，在合同中需另补充协议。

Delivery Length

- 1.According to the agreement between the two parties, any length of cable can be delivered with a length error of ±0.5%.
- 2.The additional agreement should be added according to customer’ s requirements on flame retardant performance.

电焊机电缆

Arc Welding electrode cables

本产品适用于交流额定电压450/750V及以下的家用电器、电动工具和各种移动电气设备。

It is used for household electrical appliance, electrical tools and various mobile electrical equipments with AC rated voltage up to and including 450/750V.

一、生产执行标准

GB/T 5013.6-2008或IEC60245-6:2003.

Executive standard

GB/T 5013.6-2008 or IEC60245-6:2003.

二、使用特性

由于这种类型的电缆专用于焊接，故额定电压不作规定。

Operational performance

Due to this type of cable is used for welding, the rated voltage is not specified.

三、型号及名称及主要用途

Type, Description and Main Application

型号 Type	名称 Description	主要用途 Main application
60245 IEC 81(YH)	橡胶电焊机电缆 Rubber sheathed electric welding machine cable	主要用作电焊机焊接线用 Mainly used as welding wire for arc welding machine
60245 IEC 82(YHF)	氯丁或其他相当的合成弹性体橡胶电焊机电缆 Polychloroprene or other equivalent synthetic elastomer sheathed arc welding electrode cable	

四、规格范围

Specication Range

型号 Type	额定电压V Rated voltage	芯数 Core number	标称截面mm ² Nominal cross section area
60245 IEC 81(YH) 60245 IEC 82(YHF)	/	1	16~95

五、规格尺寸及技术参数如下表

Specification , Size and Technical Parameter

60245 IEC 81(YH) 60245 IEC 82(YHF)

标称截面 mm ² Nominal cross section area	导体单丝直径 mm Max.diameter of single wire	20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃		覆盖层总厚度规定值 mm Total thickness of covering specified value	符合覆盖层中的保护厚度规定值 mm Thickness of sheath of composite covering specified value	平均外径 mm Average outside diameter	
		铜芯 Copper core	镀锡铜芯 Tined copper core			下限 Lower limit	上限 Upper limit
16	0.21	1.16	1.19	2.0	1.3	8.8	11.0
25	0.21	0.758	0.780	2.0	1.3	10.1	12.7
35	0.21	0.536	0.552	2.0	1.3	11.4	14.2
50	0.21	0.379	0.390	2.2	1.5	13.2	16.5
70	0.21	0.268	0.276	2.4	1.6	15.3	19.2
95	0.21	0.198	0.204	2.6	1.7	17.1	21.4

六、交货长度

Delivery Length

- 1、根据双方协议允许任何长度的电缆交货，长度误差为±0.5%；
- 2、用户对产品有阻燃特性要求，在合同中需另补充协议。
- 1.According to the agreement between the two parties, any length of cable can be delivered with a length error of ±0.5%.
- 2.The additional agreement should be added according to customer' s requirements on flame retardant performance.

补偿电缆 Compensating Cable



热电偶用补偿导线、补偿电缆（含本安型）

Extension and compensating Wires&Cables for Thermocouple (Including Intrinsic safety Type)

热电偶用补偿导线、补偿电缆（含本安型）

Extension and compensating Wires&Cables for Thermocouple (Including Intrinsic safety Type)

补偿导线与补偿电缆是在一定温度范围内（包括常温）具有与所匹配的热电偶的热电动势值相同的一对或多对带有绝缘层的导线或电缆，用它们连接热电偶与测量装置，以补偿它们与热电偶连接处的温度变化所产生的误差，补偿导线与补偿电缆分为延长型和补偿型两种。

一、生产执行标准

GB/T 4989-2013及JB/T 7495-2014。

二、使用特性

- 1、工作温度
耐热用：最高200℃；
一般用：最高70℃和105℃两种；
- 2、最低敷设温度
氟塑料绝缘和护套线缆：-15℃；
聚氯乙烯绝缘和护套线缆：0℃；
- 3、允许弯曲半径
a) 有铜带屏蔽的补偿电缆，应不小于电缆外径的16倍；
b) 其它结构的补偿电缆，应不小于电缆外径的10倍。

三、型号名称

1、补偿导线

型号 Type	名称 Description
KX-GS-VV	聚氯乙烯绝缘和护套一般用精密级K分度热电偶用补偿导线 Precise grade compensational wire for K Type Thermocouple with PVC insulation and sheath for general purpose
KX-GS-VPV	聚氯乙烯绝缘和护套铜丝编织屏蔽一般用精密级K分度热电偶用屏蔽补偿导线 Precise grade compensational wire for K Type Thermocouple with PVC insulation and sheath, copper wire braided shielding for general purpose
KX-HS-FF	氟塑料绝缘和护套耐热用精密级K分度热电偶用高温补偿导线 Precise grade high temperature compensational wire for K Type Thermocouple with Fluoroplastic insulation and sheath for heat resistant purpose
KX-HS-FP ₁ F	氟塑料绝缘和护套镀锡铜丝编织屏蔽耐热用精密级K分度热电偶用高温补偿导线 Precise grade high temperature compensational wire for K Type Thermocouple with Fluoroplastic insulation and sheath, tinned copper wire braided shielding for heat resistant purpose
KX-HS-FB	聚四氟乙烯绝缘、玻璃丝编织护套耐热用精密级K分度热电偶用高温补偿导线 Precise grade high temperature compensational wire for K Type Thermocouple with F4 insulation and glass wire braided sheath for heat resistant purpose
KX-HS-FBP ₁	聚四氟乙烯绝缘，镀锡铜丝编织屏蔽，玻璃丝编织外护套耐热用精密级K分度热电偶用高温补偿导线 Precise grade high temperature compensational wire for K Type Thermocouple with F46 wrapped insulation glass wire braiding, tinned copper wire braided shielding and glass wire braided outer sheath for heat resistant purpose
KX-HS-FP ₁ V ₁₀₅	氟塑料绝缘镀锡铜丝编织屏蔽耐热105℃聚氯乙烯护套耐热用精密级K分度热电偶用高温补偿导线 Precise grade high temperature compensational wire for K Type Thermocouple with Fluoroplastic insulation, tinned copper wire braided shielding, 105℃ heat resistant and PVC sheath for heat resistant

注：普通级补偿导线型号表示方法，在精密级补偿导线型号基础上去掉字母“S”即可（下同）。

The compensation cable/wire is one or more pairs of wires/cables with insulated layer. It has the same value of thermopower with the matching thermocouple in a certain temperature range (including ambient temperature).which are used to connect the thermocouple and the measuring device, In order to compensate for the error caused by the temperature changes.Compensation wire and compensation cable is divided into two types: extended type and compensation type.

Executive standard

GB/T 4989-2013 & JB/T 7495-2014.

Operational performance

- 1.Working Temperature
Max. 200℃ for heat resistant cable
Max. 70℃&105℃ for common cable
- 2.Min Laying Temperature
Wire & cable with fluoroplastic insulation and sheath:-15℃.
Wire & cable with PVC insulation and sheath:0℃.
- 3.Bending radius
It should be not less than 16 times that of cable outer diameter for compensational cable with copper tape shielding.
It should be not less than 10 times that of cable outer diameter for compensational cable with other structure.

Type and Description

Compensational Wire

2、补偿电缆

Compensating Cable

型号 Type	名称 Description
KX-GS-VV	聚乙烯绝缘对绞聚乙烯护套一般用精密级K分度热电偶用补偿电缆 Precise grade compensational cable for K Type Thermocouple with PVC insulation and twinning PVC sheath for general purpose
KX-GS-VPV	聚乙烯绝缘对绞铜丝编织分屏蔽聚乙烯护套一般用精密级K分度热电偶用补偿电缆 Precise grade compensational cable for K Type Thermocouple with PVC insulation, twinning copper wire braided individual shielding, PVC sheath for general purpose
KX-GS-VPVP	聚乙烯绝缘对绞铜丝编织分屏蔽和总屏蔽聚乙烯护套一般用精密级K分度热电偶用补偿电缆 Precise grade compensational cable for K Type Thermocouple with PVC insulation, twinning copper wire braided individual & general shielding, PVC sheath for general purpose
KX-GS-VVP	聚乙烯绝缘对绞铜丝编织总屏蔽聚乙烯护套一般用精密级K分度热电偶用补偿电缆 Precise grade compensational cable for K Type Thermocouple with PVC insulation, twinning copper wire braided general shielding, PVC sheath for general purpose
KX-HS-FF	氟塑料绝缘对绞氟塑料护套精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation and twinning Fluoroplastic sheath
KX-HS-FP ₁ F	氟塑料绝缘对绞镀锡铜丝编织分屏蔽氟塑料护套精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual shielding and Fluoroplastic sheath
KX-HS-FP ₁ FP ₁	氟塑料绝缘对绞镀锡铜丝编织分屏蔽和总屏蔽氟塑料护套精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual & general shielding and Fluoroplastic sheath
KX-HS-FFP ₁	氟塑料绝缘对绞镀锡铜丝编织总屏蔽氟塑料护套精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided general shielding and Fluoroplastic sheath
KX-HS-FV ₁₀₅	氟塑料绝缘对绞耐热105℃聚乙烯护套 精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning 105℃ heat resistant PVC sheath
KX-HS-FP ₁ V ₁₀₅	氟塑料绝缘对绞镀锡铜丝编织分屏蔽耐热105℃聚乙烯护套精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual shielding 105℃ heat resistant PVC sheath
KX-HS-FP ₁ V ₁₀₅ P ₁	氟塑料绝缘对绞镀锡铜丝编织分屏蔽总屏蔽耐热105℃聚乙烯护套精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual and general shielding 105℃ heat resistant PVC sheath
KX-HS-FV ₁₀₅ P ₁	氟塑料绝缘对绞镀锡铜丝编织总屏蔽耐热105℃聚乙烯护套精密级K分度热电偶用高温补偿电缆 Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided general shielding 105℃ heat resistant PVC sheath

注：

- 1、其它型号补偿导线如：KC、JX、SC、EX、NC、TX等，只需改写型号的第一项，如：EX-G-VV、TX-H-FVP等；
- 2、需导体为多股软芯时，应在原型号后加“R”表示，如：TX-G-VVPR；
- 3、还可根据需提供聚乙烯（Y）绝缘、交联聚乙烯（YJ）绝缘补偿电缆；
- 4、补偿电缆屏蔽层也可采用金属带绕包形式，如：复合铝带（P3）、复合铜带（P2）；
- 5、需阻燃型补偿电缆，应在原型号前加“ZR-”；
- 6、需铠装型补偿电缆，应在原型号后加“-22”表示钢带铠装；加“-32”表示钢丝铠装；
- 7、需本安型补偿电缆，应在原型号前加“ia-”表示。

- Note: 1.Compensation wire types, such as KC JX SC EX NC TX etc., only need to rewrite the first item of the model, like EX-G-VV and TX-H-FVP etc.
- 2.Suffix “R” is added to the original type for indication of cable with soft multi-strand core.eg. TX-G-VVPR
- 3.We also produce compensational cable with PE (Y) insulation or XLPE (YJ) insulation if needed.
- 4.Shielding layer material of compensational cable includes metallic tape wrapping such as compound aluminum tape (P3) and compound copper tape (P2) .
- 5.Prefix “ZR-” is added to the original type for indication of flame retardant type compensational cable.
- 6.Suffix “-22” is added to the original type for indication of compensational cable with steel tape armor, “-32” for that with steel wire armor.
- 7.Prefix “ia-” is added to the original type for indication of intrinsic safety type compensational cable.

四、规格范围

Specication Range

名称 Name	线芯对数 Pair No. of core	标称截面mm ² Nominal cross section area	线芯结构 Core structure	
			A	R
补偿导线 Compensational wire	1	0.5	1/0.80	7/0.30
		1.0	1/1.13	7/0.43
补偿电缆 Compensational cable	1~19	1.5	1/1.37	7/0.52
		2.5	1/1.76	19/0.41

五、主要技术要求

Main Technical Requirement

产品型号 Type	补偿导线及电缆线芯 Compensational wire & cable core		补偿导线绝缘层着色 Insulation color of compensational wire		配用热电偶分度号 Thermocouple graduation
	正极 Positive pole	负极 Negative pole	正极 Positive pole	负极 Negative pole	
SC or RC	铜 Cu	铜镍0.6 Cu-Ni	红 Red	绿 Green	S (铂铑10-铂) 或R (铂铑13-铂) S (PtRh10-PT) or R (PtRh13-PT)
KCA	铁 Fe	铜镍22 Cu-Ni	红 Red	蓝 Blue	K (镍铬-镍硅) K (NiCr-NiSi)
KCB	铜 Cu	铜镍40 Cu-Ni	红 Red	蓝 Blue	
KX	镍铬10 Ni-Cr 10	镍硅3 Ni-Si	红 Red	黑 Black	
EX	镍铬10 Ni-Cr 10	铜镍45 Cu-Ni	红 Red	棕 Brown	E (镍铬-铜镍) E (NiCr-NiSi)
JX	铁 Fe	铜镍45 Cu-Ni	红 Red	紫 Violet	J (铁-铜镍) J (Fe-CuNi)
TX	铜 Cu	铜镍45 Cu-Ni	红 Red	白 White	T (铜-铜镍) T (Cu-CuNi)
NC	铁 Fe	铜镍18 Cu-Ni	红 Red	灰 Grey	N (镍铬硅-镍硅镁) N (NiCrSi-NiSiMg)
NX	镍铬14硅 Ni-Cr 14 Si	镍硅4镁 NiSi4Mg	红 Red	灰 Grey	

六、补偿导线与补偿电缆使用分类、等级及护套着色

Category, Class grade and Sheath Color of Compensational Cable and Wire

使用分类 Category	标志代号 Mark code	允差等级及标志 Error allowance grade&mark		护套着色 Sheath color		
		普通级 Common grade	精密级 Precise grade	普通级 Common grade	精密级 Precise grade	本安型 Intrinsic safety
一般用 General	G	省略 Omitted	S	黑色 Black	灰 Grey	蓝 Blue
耐热用 Heat resistance	H			黑色 Black	黄色 Yellow	蓝 Blue

注：在旧标准GB4989-85中，普通级用B表示，精密级用A表示。
本安型在原有型号前增加 "IA"

Note: In early version of GB4989-85 standard, B stands for common.
The "IA" is added before the original model.

七、补偿导线及补偿电缆热电特性及允差表

A stands for precise grade and Error Allowance of Compensational Cable and Wire

型号 Type	使用分类 Category	导线温度范围℃ Tem range of cable&wire	热电动势及允差μV Pyro EMF			热电偶测量端温度℃ Measuring end tem. of thermocouple	20℃时往复电阻值≤Ω/m Reciprocating resistance at 20℃			
			热电势 Pyro EMF	精密级 Precise grade	普通级 Common grade		0.5mm ²	1.0mm ²	1.5mm ²	2.5mm ²
SC&RC	G	0~100	646	±30(±2.5℃)	±60(±5.0℃)	1000	0.10	0.05	0.03	0.02
	H	0~200	1441	/	±60(±5.0℃)					
KCA	G	0~100	4096	±44(±1.1℃)	±88(±2.2℃)	1000	1.40	0.70	0.47	0.28
	H	0~200	8138			900				
KCB	G	0~100	4096			900	1.04	0.52	0.35	0.21
KX	G	-20~100	4096			900	2.20	1.10	0.73	0.44
	H	-25~200	8138			900				

EX	G	-20~100	6319	$\pm 81(\pm 1.1^{\circ}\text{C})$	$\pm 138(\pm 1.7^{\circ}\text{C})$	500	2.50	1.25	0.83	0.50
	H	-25~200	13421			500				
JX	G	-20~100	6319	$\pm 62(\pm 1.1^{\circ}\text{C})$	$\pm 123(\pm 2.0^{\circ}\text{C})$	500	1.30	0.65	0.43	0.26
	H	-25~200	13421			500				
TX	G	-20~100	6319	$\pm 30(\pm 0.5^{\circ}\text{C})$	$\pm 60(\pm 1.0^{\circ}\text{C})$	300	1.04	0.52	0.35	0.21
	H	-25~200	13421			300				
NC	G	0~100	6319	$\pm 48(\pm 0.8^{\circ}\text{C})$	$\pm 90(\pm 1.5^{\circ}\text{C})$	900	1.50	0.75	0.50	0.30
	H	0~200	13421			900				
NX	G	-20~100	6319	$\pm 43(\pm 1.1^{\circ}\text{C})$	$\pm 86(\pm 2.2^{\circ}\text{C})$	900	2.86	1.43	0.95	0.57
	H	-25~200	13421			900				

八、其它参数指标

Other Parameter Indices

项目 Item	单位 Unit	参数指标 Parameter Indices	
		PVC绝缘PVC insulation	PE、XLPE、F46&F绝缘PE、XLPE、F46&F insulation
绝缘电阻 Insulated resistance	MΩ.km	25	100
电压试验 Voltage test	V/1min	500	
阻燃性能 Flame retardant performance	符合GB/T19666-2019阻燃标准中A、B、C类规定。 Meet the requirement of flame retardance of category A, B,C stipulated in GB/T19666-2019 standard.		

九、规格尺寸

Specification and Size

1、补偿导线；

Compensational Wire

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor	最大外径 mm Max OD			
		VV	VPV	FF	FP1F
2×0.5	A	3.7×6.4	4.7×7.4	2.6×4.6	3.2×5.2
	R	3.9×6.6	4.9×7.6	2.8×4.8	3.4×5.4
2×1.0	A	5.0×7.7	6.0×8.7	3.0×5.3	3.6×5.9
	R	5.1×8.0	6.1×9.0	3.1×5.6	3.7×6.2
2×1.5	A	5.2×8.3	6.2×9.3	3.2×5.8	3.8×6.4
	R	5.5×8.7	6.5×9.7	3.4×6.2	4.0×6.8
2×2.5	A	5.7×9.3	6.7×10.3	3.6×6.7	4.2×7.3
	R	5.9×9.8	6.9×10.8	4.0×7.3	4.6×7.9

2、补偿电缆；

Compensational Cable

芯数×标称截面mm ² Core No.*nominal cross section area	导体种类 Conductor	最大外径 mm Max OD					
		VV	VPV	FV	FP1V	FF	FP1F
1×2×0.5	A	6.9	7.4	6.7	7.2	5.0	5.6
	R	7.3	7.7	7.0	7.4	5.2	5.8
1×2×1.0	A	8.7	9.1	7.4	7.8	5.8	6.3
	R	8.9	9.4	7.6	8.3	6.1	6.8
1×2×1.5	A	9.1	9.8	7.9	8.4	6.4	6.9
	R	9.6	10.5	8.1	8.8	6.6	7.4
1×2×2.5	A	10.0	10.7	8.8	9.2	7.4	7.8
	R	10.7	11.3	9.2	10.1	7.8	8.7
2×2×0.5	A	10.3	11.4	9.4	10.5	7.9	9.7
	R	10.6	11.5	10.0	11.0	8.1	10.0
2×2×1.0	A	13.0	14.5	10.5	12.2	9.0	11.0
	R	13.3	15.4	11.5	12.9	9.5	11.7

2×2×1.5	A	13.6	15.5	11.3	13.1	9.9	11.5
	R	14.5	16.5	12.5	14.4	10.7	12.5
2×2×2.5	A	15.0	17.5	12.8	14.5	11.6	13.6
	R	16.0	18.6	14.0	16.0	12.4	14.5
3×2×0.5	A	10.6	12.1	9.8	11.7	8.4	10.5
	R	11.2	12.7	11.0	12.1	9.0	10.9
3×2×1.0	A	14.4	15.8	12.0	13.0	9.8	11.8
	R	14.7	16.3	12.5	13.6	10.5	12.4
3×2×1.5	A	15.2	17.1	12.5	14.5	10.8	13.0
	R	16.0	17.8	13.5	15.3	11.6	13.8
3×2×2.5	A	16.7	18.6	14.0	16.1	12.3	14.5
	R	17.9	19.8	15.5	17.0	13.6	15.5
4×2×0.5	A	11.3	12.9	10.5	12.5	9.0	11.3
	R	12.0	13.5	11.5	13.0	9.6	12.0
4×2×1.0	A	15.4	16.9	13.0	14.5	10.6	12.6
	R	16.2	17.4	13.5	15.5	11.5	13.5
4×2×1.5	A	16.3	18.3	13.5	15.5	11.7	14.0
	R	17.5	19.1	14.5	16.5	12.3	16.0
4×2×2.5	A	18.0	20.6	15.5	18.0	13.6	15.5
	R	19.3	21.9	17.5	19.0	14.7	17.0
5×2×0.5	A	12.7	15.0	11.7	14.0	10.0	12.0
	R	13.4	15.8	12.5	14.5	10.7	13.0
5×2×1.0	A	16.5	18.0	13.5	15.5	11.9	14.0
	R	17.0	19.4	14.5	16.9	13.0	15.0
5×2×1.5	A	17.3	20.0	15.1	17.2	13.0	15.0
	R	18.3	21.0	15.8	18.2	14.3	16.0
5×2×2.5	A	20.0	23.0	18.5	19.1	15.5	17.0
	R	21.0	24.5	19.5	20.5	16.7	18.5
6×2×0.5	A	13.5	15.5	12.5	15.0	11.0	13.0
	R	14.5	16.0	13.5	15.5	11.5	14.0
6×2×1.0	A	17.5	20.0	14.5	17.0	13.0	15.0
	R	18.5	21.0	15.5	18.0	14.0	16.0
6×2×1.5	A	19.5	21.0	15.5	18.5	14.0	16.0
	R	20.0	22.0	17.0	19.5	15.0	17.5
6×2×2.5	A	21.5	23.0	18.5	21.0	16.5	18.5
	R	23.0	24.5	20.0	22.5	18.0	19.5
7×2×0.5	A	14.0	15.5	12.5	15.0	11.0	13.0
	R	14.5	16.0	13.5	15.5	11.5	14.0
7×2×1.0	A	18.0	20.0	14.5	17.0	13.0	15.0
	R	18.5	21.0	15.5	18.0	14.0	16.0
7×2×1.5	A	19.0	21.0	15.5	18.5	14.0	16.0
	R	20.5	22.0	17.0	19.5	15.0	17.5
7×2×2.5	A	21.5	22.0	18.5	20.5	16.5	18.5
	R	23.0	23.0	20.0	21.5	18.0	19.5
8×2×0.5	A	15.0	17.0	14.0	16.5	12.5	14.5
	R	15.5	17.5	15.6	17.5	13.0	15.5
8×2×1.0	A	17.5	22.0	16.0	18.5	14.5	16.5
	R	20.0	23.0	17.0	19.5	15.5	17.5
8×2×1.5	A	21.0	23.0	17.0	20.0	15.5	18.0
	R	22.5	24.0	19.0	21.0	17.0	19.0
8×2×2.5	A	23.5	25.5	20.5	22.5	18.0	20.0
	R	25.0	27.5	22.0	24.0	19.5	22.0
9×2×0.5	A	16.0	18.0	15.5	17.5	13.5	15.5
	R	16.5	18.5	16.4	18.5	14.5	16.5
9×2×1.0	A	21.5	23.0	18.0	19.5	15.5	17.5
	R	22.5	24.0	19.3	21.0	16.5	18.5
9×2×1.5	A	22.5	25.0	19.0	21.5	17.0	19.5
	R	23.5	26.0	20.5	24.0	18.5	20.0
9×2×2.5	A	25.5	27.5	22.0	24.5	20.0	22.0
	R	27.0	29.5	24.0	26.0	21.5	23.5
10×2×0.5	A	17.0	19.5	15.5	18.5	14.0	16.0
	R	17.5	20.0	16.5	19.0	15.0	17.0
10×2×1.0	A	22.0	24.0	18.1	21.0	16.0	18.5
	R	23.0	25.5	19.4	22.0	17.5	19.5

芯数×标称截面 mm ² Core No.*nominal cross section area	导体种类 Conductor	最大外径 mm Max OD					
		VV	VPV	FV	FP1V	FF	FP1F
10×2×1.5	A	23.5	26.0	19.8	22.5	17.5	20.0
	R	25.0	27.5	21.0	23.5	19.0	21.5
10×2×2.5	A	26.5	29.0	22.5	25.0	20.5	23.0
	R	28.5	31.0	24.5	26.5	22.0	24.5
12×2×0.5	A	17.5	20.5	16.5	19.0	14.5	17.0
	R	18.0	21.0	17.6	20.0	15.5	18.0
12×2×1.0	A	23.0	25.5	19.4	22.0	17.0	19.5
	R	24.0	27.0	20.5	23.0	18.5	20.5
12×2×1.5	A	25.0	27.5	21.0	23.5	18.5	21.0
	R	26.5	29.0	22.5	25.0	20.0	22.5
12×2×2.5	A	28.0	30.0	24.0	26.0	21.5	24.0
	R	30.0	32.0	26.0	28.0	22.5	26.0
14×2×0.5	A	18.5	22.0	17.5	20.5	/	/
	R	19.0	22.5	18.9	21.5	/	/
14×2×1.0	A	24.5	27.5	20.5	23.5	/	/
	R	25.5	29.0	22.0	25.0	/	/
14×2×1.5	A	27.0	29.0	22.0	25.0	/	/
	R	28.5	30.5	24.0	26.5	/	/
14×2×2.5	A	30.0	32.0	26.0	28.0	/	/
	R	32.0	34.0	28.0	30.0	/	/
16×2×0.5	A	19.5	22.5	18.5	21.0	/	/
	R	20.0	23.5	19.7	22.5	/	/
16×2×1.0	A	25.5	28.5	21.5	24.5	/	/
	R	27.0	30.0	23.0	26.0	/	/
16×2×1.5	A	28.0	30.5	23.0	26.0	/	/
	R	29.5	32.5	25.0	27.5	/	/
16×2×2.5	A	31.0	33.5	27.0	29.0	/	/
	R	33.0	36.0	29.0	31.0	/	/
19×2×0.5	A	21.0	24.5	20.0	23.0	/	/
	R	22.0	25.5	21.0	24.0	/	/
19×2×1.0	A	28.0	31.0	23.0	26.5	/	/
	R	29.5	32.5	24.5	28.0	/	/
19×2×1.5	A	33.0	33.0	25.0	28.0	/	/
	R	32.0	35.0	27.0	30.0	/	/
19×2×2.5	A	33.5	36.5	29.0	31.5	/	/
	R	36.0	39.0	31.5	34.0	/	/

订货须知:

- 1、订货时务必注明产品型号、规格、导体种类（A为独股导体，R为多股软导体）、数量等；
- 2、根据双方协议允许任何长度交货；长度计量误差不超过±0.5%。

Note for ordering:

- 1.When ordering, be sure to specify the product model, specification, type of conductor(A is single strand conductor, R is multi strand flexible conductor), quantity, etc.
- 2.Allow any length of delivery according to the agreement between the parties.The length measurement error is not more than ±0.5%.

特种电缆 Special Cable



通信电源用阻燃耐火软电缆

Flame Retardant and Fire Resistant Flexible Cable for Telecommunication Power supply

丁腈聚氯乙烯复合物软电缆

Butyronitrile PVC Compound Flexible Cable

光伏电缆

Photovoltaic cable

风力发电用电缆

Wind power cable

AF-200、AF-260型氟塑料安装线

AF-200 & AF-260 Fluoroplastics Installation Wire

180°C电机绕组引接软电缆

180°C Soft Cable for Motor Winding Connection

电缆分配系统用物理发泡聚乙烯绝缘同轴电缆

Coaxial Cable with Physically Foamed PE Insulation for Cable Distribution System

实芯聚乙烯绝缘柔软射频电缆

Solid-polyethylene insulated flexible radio-frequency cables

现场总线电缆

Fieldbus Cable

RS485通讯电缆

RS485 Communication Cable

通信电源用阻燃耐火软电缆

Flame Retardant and Fire Resistant Flexible Cable for Telecommunication Power supply

本产品适用于通信局站及建筑等输、配电系统中的通信电源用阻燃耐火电缆。产品除具有聚氯乙烯绝缘电缆已有的优良性能外，还具有柔软、易弯曲等特点。

Flame retardant and fire resistant cable is used in telecommunication power supply and distribution system of telecommunications agencies/stations/buildings It has not only better performance of PVC insulation power cable, but also advantages of softness and flexibility as well.

一、生产执行标准

YD/T1173-2016.

Executive standard

YD/T1173-2016.

二、型号及名称

Type and Description

型号 Type	名称 Description	适用范围 Application
ZA-RV	聚氯乙烯绝缘阻燃A类软电缆 Category A,flame retardant flexible cable with PVC insulation	架空、管道、室内、电缆沟、设备安装，铠装电缆可地下直埋。 To be installed overhead, indoor in the pipe, cable furrow, equipment,armored cable can be directly buried.
ZA-RVV	铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃A类软电缆 Category A,flame retardant flexible cable with PVC insulation ,PVC sheath	
ZA-RVVV	铜芯聚氯乙烯绝缘双层聚氯乙烯护套阻燃A类软电缆 Category A,flame retardant flexible cable with PVC insulation ,double PVC sheath	
ZA-RVV22	聚氯乙烯绝缘双钢带铠装聚氯乙烯护套阻燃A类软电缆 Category A,flame retardant flexible cable with PVC insulation , steel tape armored,PVC sheath	
WDZ-RY	聚烯烃绝缘无卤低烟单根阻燃软电缆 Single vertical flame retardant flexible cable with LSZH PO insulation	
WDZC-RYY	聚烯烃绝缘聚烯烃护套无卤低烟阻燃C类软电缆 Category C, flame retardant flexible cable with LSZH PO insulation and sheath	
WDZC-RYY23	聚烯烃绝缘双钢带铠装聚烯烃护套无卤低烟阻燃C类软电缆 Category C, flame retardant flexible cable with LSZH PO insulation, steel tape armored and LSZH PO sheath	
WDZN-RY	聚烯烃绝缘无卤低烟单根阻燃耐火软电缆 Single vertical fire resistant flexible cable with LSZH PO insulation	
WDZCN-RYY	聚烯烃绝缘聚烯烃护套无卤低烟阻燃C类耐火软电缆 Category C,flame retardant and Fire resitant flexible cable with LSZH PO insulation and sheath	
WDZCN-RYY23	聚烯烃绝缘双钢带铠装聚烯烃护套无卤低烟阻燃C类耐火软电缆 Category C,flame retardant and Fire resitant flexible cable with LSZH PO insulation, steel tape armored and LSZH PO sheath.	

三、生产范围

Production Scope

型号 Type	芯数 Core No.	标称截面 mm² Nominal cross section area	额定电压 Rated voltage
ZA-RV、WDZ-RY	1	1.5~500	450/750V
WDZN-RY		4~500	
ZA-RVV、WDZC-RYY	1	1.5~500	0.6/1kV
WDZCN-RYY		4~500	
ZA-RVV、WDZC-RYY	2、3、3+1、4、4+1、3+2、5	2.5~300	0.6/1kV
ZA-RVV22、WDZC-RYY23		10~300	0.6/1kV
WDZCN-RYY			
WDZCN-RYY23			
ZA-RVVV	2、3、4	2.5~35	300/500V

四、使用条件

- 1、电缆额定工作电压：
300/500V, 450/750V, 600/1000V;
- 2、电缆导体长期允许最高工作温度应不大于70℃;
- 3、电缆敷设时最低环境温度为0℃;
- 4、电缆允许弯曲半径：非铠装电缆中，阻燃型不小于电缆外径的6倍，耐火型为电缆外径的12倍；铠装型电缆，不小于电缆外径的20倍;
- 5、短路时（最长持续时间不超过5S），电缆导体的最高工作温度为160℃。

五、主要技术参数

- 1、20℃时导体最大直流电阻值应满足下面的规定：

标称截面 mm ² Nominal cross section area	1.5	2.5	4	6	10	16	25	35	50
20℃时导体最大直流电阻 Ω/km Max. DC resistance of conductor at 20℃	13.3	7.98	4.95	3.30	1.91	1.21	0.780	0.554	0.386
标称截面 mm ² Nominal cross section area	70	95	120	150	185	240	300	400	500
20℃时导体最大直流电阻 Ω/km Max. DC resistance of conductor at 20℃	0.272	0.206	0.161	0.129	0.106	0.0801	0.0641	0.0486	0.0384

- 2、70℃时最小绝缘电阻

标称截面 mm ² Nominal cross section area	70℃时最小绝缘电阻 MΩ.km Min.insulation resistance at 70℃	标称截面 mm ² Nominal cross section area	70℃时最小绝缘电阻 MΩ.km Min.insulation resistance at 70℃
1.5	0.010	70	0.0032
2.5	0.009	95	0.0032
4	0.007	120	0.0029
6	0.006	150	0.0029
10	0.0056	185	0.0029
16	0.0046	240	0.0028
25	0.0044	300	0.0028
35	0.0038	400	0.0026
50	0.0037	500	0.0026
试验条件： ① 试验长度：5m; ② 浸水时间：1h; ③ 水温：70℃。		Testing condition Testing length: 5m. Time for immersion in the water is one hour. Temperature of water is 70℃	

- 3、工频交流耐压试验

成品电缆应经受下表规定的交流50Hz耐电压试验而不应击穿。

电压 V Voltage		持续时间 Lasting time
额定电压 Rated voltage	试验电压 Testing voltage	
450/750	2500	5min
300/500	2000	
600/1000	3500	

Working Condition

- 1.Rated working voltage of cable:
300/500V、450/750V、600/1000V.
- 2.Max long-term working temperature of cable conductor: 70℃.
- 3.Min. ambient temperature for cable installation: 0℃.
- 4.Allowed bending radium:Unarmored cable,Flame retardant cable is not less than 6 times of OD of cable.Fire resistant cable is not less than 12 times of OD of cable.Armores cable is not less than 20 times of OD of cable.
- 5.Max. working temperature of cable conductor is 160℃ during short circuit(the longest lasting time shall be no more than 5s).

Main Technical Parameter

Max.DC resistance value of conductor at 20℃ shall meet the requirements of the following table:

Min.insulation resistance at 70℃

A.C. voltage test under power frequency
The finished cable shall bear A.C. voltage test of 50Hz listed in the following table without puncture.

丁腈聚氯乙烯复合物软电缆

Butyronitrile PVC Compound Flexible Cable

本产品适用于交流额定电压450/750V及以下控制、监控回路、各种移动电器、无线电设备和照明灯座接线用以及保护线路等要求在低温下运行的场合。

This product is suitable for the AC rated voltage up to and including 450/750V, the requirements for operation at low temperature,with using in Control/monitoring circuits, various mobile appliances, radio equipment and lighting socket connection and protection lines, etc.

一、生产执行标准

企业标准。

Executive standard

Enterprise standard.

二、使用特点

- 1、电线导体长期工作温度：硅橡胶绝缘不超过180℃；丁腈聚氯乙烯绝缘不超过70℃；
- 2、电线最低环境温度为-40℃；
- 3、允许弯曲半径一般应不小于电缆外径的8倍；软结构电缆应不小于电缆外径的6倍。

Operational performance

- 1.Long-term working temperature of wire conductor is no more than 180℃ for cable with Silicon Rubber Insulation, 70℃ for that with PVC insulation.
- 2.Min. environment temperature of wire is -40℃.
- 3.Bending radius allowed by wire is no less than 8 times that of cable O.D OR 6 times for cable with soft structure.

三、型号名称

Type and Description

型号 Type	名称 Description	备注 Note
YVFR	铜芯丁腈聚氯乙烯绝缘及护套软电力电缆 Soft power cable with Cu core, butadiene PVC insulation and sheath	1、电缆如需镀锡铜线编织屏蔽结构，应将原型号中的“P”改为“P1”。 2、如导体需采用镀锡铜线，应在订货中说明，型号中不另作规定。 1.If tin-plated copper wire braided shielding is needed, the letter “P” in the original type of cable shall be changed into the letter “P1” . 2.If tinned copper wire conductor is used, the relevant description shall be made in the order, but it is not necessary to give other description in cable type.
YVFB	铜芯丁腈聚氯乙烯绝缘及护套扁平型软电力电缆 Flat type soft power cable with Cu core, butadiene PVC insulation and sheath	
YGVFB	铜芯硅橡胶绝缘丁腈聚氯乙烯护套扁平型软电力电缆 Flat type soft power cable with Cu core, silicon rubber insulation and butadiene PVC sheath	
KVFR	铜芯丁腈聚氯乙烯绝缘及护套软控制电缆 Soft control cable with Cu core, butadiene PVC insulation and sheath	
KVFRP	铜芯丁腈聚氯乙烯绝缘及护套铜丝编织屏蔽软控制电缆 Soft control cable with Cu core, butadiene PVC insulation and sheath, copper wire braided shielding	
KVFB	铜芯丁腈聚氯乙烯绝缘及护套扁平型软控制电缆 Flat type soft control cable with Cu core, butadiene PVC insulation and sheath	
KGVFB	铜芯硅橡胶绝缘丁腈聚氯乙烯护套扁平型软控制电缆 Flat type soft control cable with Cu core, silicon rubber insulation and butadiene PVC sheath	

四、规格范围

Type and Specication scope

型号 Type	规格范围 Specification scope
YVFR YVFB YGVFB	1 core: 1.5~300mm ² 2、3、4、5、3+1core: 1.5~185mm ²
KVFR KVFRP	2~61cores: 0.5~2.5mm ²
KVFB KGVFB	2~10cores: 1.5~6mm ²

五、主要技术指标

1、20℃时导体最大直流电阻值应满足下规定：

标称截面(mm²) Nominal cross section area	20℃时导体直流电阻≤Ω/km Conductor DC resistance at 20℃	
	不镀锡 Not tinned	镀锡 Tinned
0.5	39.0	40.1
0.75	26.0	26.7
1.0	19.5	20.0
1.5	13.3	13.7
2.5	7.98	8.21
4	4.95	5.09
3	3.30	3.39
10	0.91	1.95
16	1.21	1.24
25	0.78	0.795
35	0.554	0.565
50	0.386	0.393
70	0.272	0.277
95	0.206	0.210
120	0.161	0.164
150	0.129	0.132
185	0.106	0.108

2、成品控制电缆应经受工频交流试验电压3000V、5min电压试验，绝缘无击穿；

3、成品电力电缆应经受工频交流试验电压3500V、5min电压试验，绝缘无击穿。

Main Technical Parameter

1.Max.DC resistance of conductor at 20℃ shall meet the requirement of the following table.

2.The finished product control cable should be subjected to the Power Frequency AC Withstand Voltage Test (with 3000V, 5min), the insulation is not breakdown.

3.The finished product power cable should be subjected to the Power Frequency AC Withstand Voltage Test (with 3500V, 5min), the insulation is not breakdown.

六、交货长度

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过±0.5%。

Delivery Length

- 1.Delivery length of cable depends on both agree-ments.
- 2.The measurement error of lenth is no more than ±0.5%.

光伏电缆

Photovoltaic cable

光伏发电产生的低压直流电需转换为交流电，连接光伏电池与交直流逆变器间的电缆即为光伏电缆。本产品适用于最高允许1.8kV（线芯对线芯，非接地系统）直流电压、在光伏系统中CD侧使用的单芯软电缆（电线），该产品适合于II类安全等级下使用，电缆运行的环境温度最高到90℃，电缆可以多根并联使用。本产品运用先进的辐照交联工艺，采用低烟无卤阻燃材料生产，产品具有耐高温、抗臭氧、抗紫外线短时过载能力强、寿命长、耐磨、耐油、防腐、高抗拉等优点。

一、生产执行标准

EN 50618, 2Pfg1169.

二、温度范围

环境温度：-40℃到+90℃；

导体最高工作温度：120℃；电缆运行的环境温度最高到90℃，依据EN60216-1标准进行考核，其绝缘和护套的温度指数是120℃，5秒钟短路温度是200℃，期望使用寿命是25年。

三、型号规格

型号 Type	电压等级 kV Rated Voltage	导体 Conductor	芯数 Core number	标称截面 mm ² Nominal cross section area	名称 Name
PV1-F	AC 0.6/1kV DC 1.8kV	镀锡铜丝 Tinned copper	1	1.5~35	无卤阻燃辐照绝缘和无卤阻燃辐照护套料光伏电缆 Photovoltaic cable with halogen free flame resistant irradiated insulation and sheath
H1Z2Z2-K	AC 1.0/1.0kV DC 1.5kV	镀锡铜丝 Tinned copper	1	1.5~35	无卤阻燃辐照绝缘和无卤阻燃辐照护套料光伏电缆 Photovoltaic cable with halogen free flame resistant irradiated insulation and sheath

四、电缆尺寸参数

芯数*标称截面 Core No.*normal cross section area	导体种类 Conductor category	参考外径 Outer diameter(mm)
1*1.5	5	4.3
1*2.5	5	4.7
1*4	5	5.2
1*6	5	6.2
1*10	5	7.0
1*16	5	8.4
1*25	5	10.5
1*35	5	11.8

Low voltage DC generated by Photovoltaic should be converted into AC. Photovoltaic cable is used to connect Photovoltaic battery and DC/AC converter. It applies to maximum 1.8KV DC (core to core, non grounded system) In photovoltaic system single core cable (wire) is used in DC side, besides photovoltaic cable is used in Class II class safety level and working in environment temperature of Max 90 °C, We can use many parallel cables. It adopts advanced process of irradiation XLPE and it is used low smoke halogen free material with advantage of high temperature resistance, ozone resistance, ultraviolet resistance, aging resistance, oil resistance, wear resistance, erosion resistance, high tensile and strong instantaneous overload capacity.

Executive standard

EN 50618, 2Pfg1169.

Temperature Range

Ambient temperature: -40℃ to +90℃

Max working temperature of conductor: 120℃; working temperature of cable should not exceed 90℃, the temperature index of insulation and sheath is 120℃, The temperature of 5 seconds short circuit is 200℃ according to EN60216-1 standard. The expected working life is 25 years.

Type and Specication

Cable Dimension Parameter

五、电缆主要技术参数

- 1、20℃时导体最大直流电阻值应满足GB/T3956标准中5类导体的规定；
- 2、交流耐电压试验：6.5kV/5min不击穿。

Main Technical Parameter

- 1.Max. conductor DC resistance at 20℃ shall meet the requirement of class 5 conductor stipulated in GB/T3956 standard.
- 2.Cable should endure AC voltage withstand test:6.5KV/5min without puncture.

六、电缆载流量

Current Carrying Capacity of Cable

标称截面 Normal cross section area	安装种类 Type of Installation		
	单芯电缆空气中自由敷设 (A) To be laid in the air of single core cable	单芯电缆敷设在设备表面 (A) Single core cable to be laid on the surface of equipment	在设备表面相邻敷设 (A) Cable placing nearby the surface of equipment
1.5	30	29	24
2.5	41	39	33
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176

风力发电用电缆

Wind power cable

本产品适用于风力发电设备中叶轮机及固定安装塔类或其他类似场合的额定电压1.8/3kV及以下风力发电系统或类似的系统耐扭曲软电缆。

一、生产执行标准

TICW1-2009及企业标准。

二、使用特性

- 1、电缆的额定电压 U_0/U 分别为：450/750V、0.6/1kV、1.8/3kV；
- 2、正常运行时，导体最高工作温度（电缆额定工作温度）分别为：电压等级450/750V电缆：70℃；电压等级0.6/1kV、1.8/3kV电缆：90℃；
- 3、电缆的最小弯曲半径为电缆直径的6倍；
- 4、电缆适应的最低环境温度，普通型：-25℃；耐寒型：-40℃；耐严寒型：-55℃。

三、产品型号中和字母代表意义

风力发电用电缆系列代号 FD
阻燃C类型..... ZC（低烟无卤要求正在考虑中）
铜导体..... (T) 省略
乙丙橡胶绝缘或其他相当的合成弹性体绝缘 E
硅橡胶或其相当的混合物绝缘 G
硅橡胶或其相当的混合物护套 G
聚氨酯弹性体护套（TPU） U
氯磺化聚乙烯橡胶或其他相当的合成弹性体护套 H
氯丁橡胶或其他相当的合成弹性体护套..... F
热塑性弹性体护套..... S

Flexing cable is used in wind turbine and fixed erection installation towers with rated voltage 1.8/3kV and below wind turbine system or similar system.

Executive standard

TICW1-2009 and Enterprise standard.

Operational performance

- 1.Rated Voltage U_0/U :450/750V、0.6/1kV、1.8/3kV.
- 2.Max. temperature of cable conductor during normal operating condition (cable rated working temperature): 70℃ for cable with voltage grade 450/750V, and 90℃ for cable with voltage grade 0.6/1kV、1.8/3kV.
- 3.Min bending radius of cable is 6 times that of cable diameter.
- 4.Lowest environment temperature: -25℃ for common type cable, -40℃ for cold-resistant type cable, and -50℃ for bitter cold resistant type cable.

Code Meaning in specification

Wind power cable series code FD
Flame retardant category C ZC
Copper conductor..... (T)omitted
Ethylene propylene rubber insulation or equaled synthetic elastomer E
Silicone rubber or its equivalent mixture insulation..... G
Silicon rubber or equaled compound sheath G
Polyurethane elastomer sheath (TPU) U
Chlorosulfonate polyethylene rubber or equaled synthetic elastomer sheath..... H
Chloroprene rubber or equaled synthetic elastomer sheath..... F
TPE sheath S

四、型号名称

Type and Description

型号 Type	额定电压 Rated voltage	名称 Description
FDEF-25(-40)	450/750V	铜芯乙丙橡胶绝缘氯丁橡胶护套风力发电用（耐寒）耐扭曲软电缆 Copper core EPR insulation chloroprene rubber sheath, wind power generation (cold resistant) resistance to distortion soft cable.
FDEF-25(-40)	450/750V	铜芯乙丙橡胶绝缘热塑弹性体护套风力发电用（耐寒）耐扭曲软电缆 Copper core flexible cable, With EPR insulation TPE sheath, wind power generation (cold resistant) resistance to distortion
FDGG-40(-55)	0.6/1KV 1.8/3KV	铜芯硅橡胶绝缘硅橡胶护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, With Silicone Rubber insulation and sheath, used in wind power generation, resistance to distortion and cold (bitter cold)
FDGU-40(-55)	0.6/1KV 1.8/3KV	铜芯硅橡胶绝缘聚氨酯弹性体护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, With Silicone Rubber insulation and TPU sheath,Used in wind power generation, resistance to distortion and cold (bitter cold)
FDEU-40(-55)	0.6/1KV 1.8/3KV	铜芯乙丙橡胶绝缘聚氨酯护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, with EPR insulation and PU sheath,used in wind power generation , resistance to distortion and cold (bitter cold)
FDEG-40(-55)	0.6/1KV 1.8/3KV	铜芯乙丙橡胶绝缘硅橡胶护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, with EPR insulation and Silicone Rubber sheath,used in wind power generation , resistance to distortion and cold (bitter cold)

FDEH-25(-40)	0.6/1kV 1.8/3kV	铜芯乙丙橡皮绝缘氯磺化聚乙烯护套风力发电用耐寒耐扭曲软电缆 Copper core flexible cable, with EPR insulation and CSM sheath, used in wind power generation , resistance to distortion and cold
FDES-25(-40)	0.6/1kV 1.8/3kV	铜芯乙丙橡皮绝缘热塑弹体护套风力发电用（耐寒）耐扭曲软电缆 Copper core flexible cable, with EPR insulation and TPE sheath, used in wind power generation , resistance to distortion and cold (bitter cold)
注： 1) 如氯磺化聚乙烯橡皮护套电缆、氯丁橡皮护套电缆和热塑性弹体护套电缆能够通过试验温度过-40℃的全部低温试验，其最低使用环境温度为-40℃，相应型号为FDEH-40、FDEF-40、FDES-40； 2) 阻燃电缆在型号前加“ZC-”。		
1) There have some kinds of cables that passed the low temperature test of -40℃, such as CSM sheath cable (FDEH-40), chloroprene rubber sheath cable (FDEF-40) and TPE sheath cable (FDES-40). with the lower working temperature is -40℃. 2) Prefix "ZC-" should be added to the cable type if order flame resistant cable.		

五、电缆规格

Specication

型号 Type	额定电压 Rated voltage	芯数 Core No.	导体标称截面积 mm ² Nominal cross section area mm ²
FDEF	450/750V 0.6/1kV	1	1.5~400
FDES		2	1~25
FDGG		3	1~300
FDGU		3+1	4~185
FDEU		4	1~300
FDEG		5	1~25
FDEH	1.8/3kV	1	10~400
FDES		3	10~240

六、技术要求

Technical requirement

- 1 导体
- 1.1 导体应采用GB/T 3956规定的第5种柔软圆形导体。导体材料应为退火软铜线，可以不镀锡或镀锡。
- 1.2 导体20℃时的直流电阻应符合GB/T3956的规定。
- 1.3 导体表面允许用非吸湿性带料作重叠绕包或纵包。
- 2 绝缘
- 2.1 绝缘材料应为下表所列的挤包固体介质的一种。绝缘机械物理性能应符合附录A中表A.1的规定。

Conductor

Conductor adopts class 5 soft circle annealed (tinned) copper wire according to GB/T 3956.

DC resistance of conductor at 20 °C should confirm with GB/T3956.

Conductor surface allows moisture resistant material overlap or longitudinal wrap.

Insulation

Insulated material should be one of extruded solid dielectrics in table. Mechanical and physical character should confirm with requirement table A.1.in appendix A

绝缘混合料

Insulation compound

绝缘混合料 Insulation compound	代号 Code	导体最高温度 The Max. temperature of conductor	
		正常运行时 Normal operation	短路时（最长持续5S） Short circuit (the longest lasting time is 5S)
70℃乙丙橡胶混合物或其他相当的合成弹性体 70℃ EPR compound or equivalent synthetic elastomer	IE4	70	140
90℃乙丙橡胶混合物或其他相当的合成弹性体 90℃ EPR compound or equivalent synthetic elastomer	EPR	90	250
硅橡胶混合物或其他相当的合成弹性体 Silicon rubber compound or equivalent synthetic elastomer	G	90	250

- 2.2 绝缘厚度的标称值应符合表4的规定。绝缘厚度的平均值应不小于标称值，绝缘最薄处厚度应不小于标称值的90%-0.1mm。

Normal thickness of insulation should confirm with table 4, average thickness of insulation should be no less than nominal value, the thinnest point should be no less than 90%-0.1mm of nominal value.

绝缘标称厚度

导体标称截面积 mm ² Nominal cross section area of conductor	绝缘厚度标称值 mm Nominal thickness of insulation		导体标称截面积 mm ² Nominal cross section area of conductor	绝缘厚度标称值 mm Nominal thickness of insulation		导体标称截面积 mm ² Nominal cross section area of conductor	绝缘厚度标称值 mm Nominal thickness of insulation	
	450/750V 0.6/1kV	1.8/3kV		450/750V 0.6/1kV	1.8/3kV		450/750V 0.6/1kV	1.8/3kV
1	0.8	/	16	1.2	2.1	120	1.8	2.4
1.5	0.8	/	25	1.4	2.2	150	2.0	2.6
2.5	0.9	/	35	1.4	2.2	185	2.2	2.6
4	1.0	/	50	1.6	2.2	240	2.4	2.8
6	1.0	/	70	1.6	2.2	300	2.6	2.8
10	1.2	2.1	95	1.8	2.4	400	2.8	3.0

2.3 绝缘应紧密挤包在导体上，断面无目力可见的气泡和杂质，外观圆整且容易与导体剥离。

2.4 绝缘线芯应按GB/T3048的规定经受下表规定的工频火花试验作为中间检查。

火花试验电压

绝缘厚度标称值 mm Nominal thickness of insulation	试验电压 kV Testing voltage	绝缘厚度标称值 mm Nominal thickness of insulation	试验电压 kV Testing voltage
0.5 < δ ≤ 1.0	6	2.0 < δ ≤ 2.5	20
1.0 < δ ≤ 1.5	10	2.5 < δ	25
1.5 < δ ≤ 2.0	15	/	/

2.5 1芯~5芯电缆绝缘线芯的识别

2.5.1 一般要求电缆绝缘线芯应采用颜色或其它合适的方法进行识别。如客户无特殊要求，允许采用数字编码识别。除绿/黄组合色外，电缆的每一线芯应只用一种颜色。任何多芯电缆均不应使用不是组合色用的绿色和黄色。

3 护套

3.1 护套材料应为表6所列的挤包固体介质的一种。护套材料应与绝缘材料的工作温度等级相适应，多芯电缆护套不应与绝缘相粘连。护套机械物理性能应符合附录A中表A.2的规定。

护套混合料

护套混合料 Sheathing compound	代号 Code	长期允许工作温度 Long-term working temperature
氯丁胶混合物或其他相当的合成弹性体 Chloroprene rubber compound or equivalent synthetic elastomer	SE4	70
热塑性弹性体 TPE	TPV-70 TPV-90	70 90
氯磺化聚乙烯橡胶混合物或其他相当的合成弹性体 Chlorosulfonated polyethylene rubber compound or equivalent synthetic elastomer	SH	90
硅橡胶混合物或其他相当的合成弹性体 Silicon rubber compound or equivalent synthetic elastomer	G	90
聚氨酯弹性体 TPU	TPU	90

4.2 电缆护套厚度的标称值应符合表7的规定。护套厚度的平均值应不小于标称值，其最薄处厚度应不小于标称值的85%-0.1mm。

4.3 电缆外径应符合表7的规定。护套表面光滑、圆整、色泽基本一致，断面应无目力可见的气泡和杂质。

Nominal thickness of insulation

Conductor should be closely wrapped with extruded insulation, Besides there is no visible bubble and impurities, it looks round, even and easily strip.
Core should be tested by power frequency sparking testing meeting the standard of GB/T3048 in table.

Sparking test

2.5 Identification of 1 core to 5 core Requirement

2.5.1 Usually we distinguish Insulated Conductors with different color or other proper methods, if the client has no requirement, we use number code. One Insulated Conductors use one color except green/yellow. Multi-core cable should avoid green or yellow which is not used in the Combination color.

3. Sheath

3.1 Sheath material should be one of the extruded solid dielectrics in table 6. Working temperature of sheath material should match with that of insulation, sheath of multi-core cable cannot adhere to the insulation. Sheath mechanical performance should meeting the requirement of table A2 in appendix A

Sheathing compound

Normal thickness of cable sheath should confirm the requirement in table 7, average thickness should be no less than nominal thickness, the thinnest point should be no less than 85%-0.1mm of nominal thickness.

Outer diameter should confirm the requirement in table 7, smooth, round, consistent surface, no visible bubble and impurities.

电缆尺寸

Cable size

芯数及导体 标称截面积 mm ² Core No. *nominal cross section area	护套厚度标称值 mm Nominal thickness of sheath				平均外径 mm Average Outer diameter							
	450/750V、0.6/1kV		1.8/3kV		450/750V、0.6/1kV				1.8/3kV			
	SE4 SH TPV G	TPU	SE4 SH TPV G	TPU	SE4、SH、TPV、G护套 SE4、SH、TPV、G sheath		TPU护套 TPU sheath		SE4、TPV、SH、G护套 SE4、TPV、SH、 Gsheath		TPU护套 TPU sheath	
					下限 Lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit	下限 lower limit	上限 Upper limit
1*1.5	1.4	0.9	-	-	5.7	7.1	4.8	5.9	-	-	-	--
1*2.5	1.4	0.9	-	-	6.3	7.9	5.4	6.7	-	-	-	--
1*4	1.5	1.0	-	-	7.2	9.0	6.3	7.8	-	-	-	--
1*6	1.6	1.0	-	-	7.9	9.8	6.7	8.4	-	-	-	--
1*10	1.8	1.2	1.8	1.2	9.5	11.9	8.3	10.5	11.3	13.7	10.1	12.3
1*16	1.9	1.2	1.9	1.2	10.8	13.4	9.5	11.7	12.6	15.2	11.3	13.5
1*25	2.0	1.3	2.0	1.3	12.7	15.8	11.4	14.1	14.3	17.4	13.0	15.6
1*35	2.2	1.4	2.2	1.4	14.3	17.9	12.7	16.0	15.9	19.5	14.3	17.5
1*50	2.4	1.5	2.4	1.5	16.5	20.6	14.8	18.4	17.7	21.8	16.0	19.6
1*70	2.6	1.6	2.6	1.6	18.6	23.3	16.6	20.9	19.8	24.5	17.8	22.1
1*95	2.8	1.8	2.8	1.8	20.8	26.0	18.8	23.6	22.0	27.2	20.0	24.8
1*120	3.0	2.0	3.0	2.0	22.8	28.6	20.8	26.3	24.0	29.8	22.0	27.4
1*150	3.2	2.1	3.2	2.1	25.2	31.4	23.1	28.9	26.4	32.6	24.3	30.0
1*185	3.4	2.2	3.4	2.2	27.6	34.4	25.2	31.7	28.4	35.2	26.0	32.5
1*240	3.5	2.3	3.5	2.3	30.6	38.3	28.2	35.6	31.4	39.1	29.0	36.5
1*300	3.6	2.4	3.6	2.4	33.5	41.9	31.1	39.2	33.9	42.3	31.5	39.5
1*400	3.8	2.5	3.8	2.5	37.4	46.8	34.9	43.8	37.8	47.2	35.3	44.3
2*1.0	1.3	0.9	-	--	7.7	10.0	6.9	9.0	--	--	--	--
2*1.5	1.5	1.0	-	--	8.5	11.0	7.6	9.8	--	--	--	--
2*2.5	1.7	1.1	-	--	10.2	13.1	9.0	11.6	--	--	--	--
2*4	1.8	1.2	-	--	11.8	15.1	10.6	13.7	--	--	--	--
2*6	2.0	1.3	-	--	13.1	16.8	11.8	15.1	--	--	--	--

(续)

Sequel

芯数及导体标称截面积 mm ² Core number & Nominal cross section area	护套厚度标称值 mm Nominal thickness of sheath				平均外径 mm Average Outer diameter							
	450/750V 0.6/1kV		1.8/3kV		450/750V、0.6/1kV				1.8/3kV			
	SE SH TPV G	TPU	SE4 SH TPV G	TPU	SE4、SH、TPV、G护套 SE4、SH、TPV、G sheath		TPU护套 TPU sheath		SE4、TPV、SH、G护 套SE4、TPV、SH、G sheath		TPU护套 TPU sheath	
					下限 lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit
2*10	3.1	2.0	-	-	17.7	22.6	15.6	19.9	-	-	-	-
2*16	3.3	2.1	-	-	20.2	25.7	17.9	22.8	-	-	-	-
2*25	3.6	2.3	-	-	24.3	30.7	21.8	27.6	-	-	-	-
3*1.0	1.4	0.9	-	-	8.3	10.7	7.4	9.5	-	-	-	-
3*1.5	1.6	1.0	-	-	9.2	11.9	8.0	10.4	-	-	-	-
3*2.5	1.8	1.1	-	-	10.9	14.0	9.6	12.4	-	-	-	-
3*4	1.9	1.2	-	-	12.7	16.2	11.3	14.5	-	-	-	-
3*6	2.1	1.4	-	-	14.1	18.0	12.8	16.3	-	-	-	-
3*10	3.3	2.1	3.3	2.1	19.1	24.2	16.8	21.4	23.0	28.1	20.6	25.2
3*16	3.5	2.3	3.5	2.3	21.8	27.6	19.5	24.7	25.7	31.5	23.3	28.6
3*25	3.8	2.5	3.8	2.5	26.1	33.0	23.6	29.9	29.6	36.5	27.1	33.5
3*35	4.1	2.7	4.1	2.7	29.3	37.1	26.5	33.8	32.8	40.6	30.0	37.5
3*50	4.5	2.9	4.5	2.9	34.1	42.9	30.9	39.2	36.7	45.5	33.5	42.0
3*70	4.8	3.1	4.8	3.1	38.4	48.3	35.1	44.0	41.0	50.9	37.7	47.2
3*95	5.3	3.4	5.3	3.4	43.3	54.0	39.6	49.7	45.9	56.6	42.2	52.5
3*120	5.6	3.6	5.6	3.6	47.4	60.0	43.4	55.5	50.0	62.6	46.0	58.3
3*150	6.0	3.8	6.0	3.8	52.0	66.0	47.6	61.1	54.6	68.6	50.2	63.9
3*185	6.4	4.0	6.4	4.0	57.0	72.0	52.2	66.7	58.7	73.7	53.9	68.8
3*240	7.1	4.5	7.1	4.5	65.0	82.0	59.8	76.2	66.7	83.7	54.6	78.2
3*300	7.7	4.8	-	-	72.0	90.0	66.3	83.6	-	-	-	-
3*4+1*2.5	2.0	1.3	-	-	14.0	17.9	12.7	16.3	-	-	-	-
3*6+1*4	2.3	1.5	-	-	15.7	20.0	14.1	18.1	-	-	-	-

3*10+1*10	3.4	2.2	-	-	20.9	26.5	18.5	23.8	-	-	-	-
3*16+1*10	3.6	2.4	-	-	23.5	29.6	21.1	26.8	-	-	-	-
3*25+1*16	4.0	2.6	-	-	27.9	35.6	25.1	32.4	-	-	-	-
3*35+1*16	4.3	2.8	-	-	31.0	40.1	28.1	36.6	-	-	-	-
3*50+1*25	4.8	3.1	-	-	35.7	46.0	32.4	42.1	-	-	-	-
3*70+1*35	5.0	3.2	-	-	40.7	52.0	37.1	47.9	-	-	-	-
3*95+1*50	5.5	3.5	-	-	46.4	59.0	42.4	54.5	-	-	-	-
3*120+1*70	5.8	3.7	-	-	50.0	64.0	45.9	59.3	-	-	-	-
3*150+1*70	6.3	4.0	-	-	55.0	70.0	50.5	64.9	-	-	-	-
3*185+1*95	6.8	4.3	-	-	60.0	76.0	55.0	70.5	-	-	-	-
4*1	1.5	1.0	-	-	9.2	11.9	8.2	10.7	-	-	-	-
4*1.5	1.7	1.1	-	-	10.2	13.1	9.0	11.6	-	-	-	-
4*2.5	1.9	1.2	-	-	12.1	15.5	10.7	13.8	-	-	-	-
4*4	2.0	1.3	-	-	14.0	17.9	12.7	16.2	-	-	-	-
4*6	2.3	1.5	-	-	15.7	20.0	14.2	18.1	-	-	-	-
4*10	3.4	2.2	-	-	20.9	26.5	18.6	23.6	-	-	-	-
4*16	3.6	2.4	-	-	23.8	30.1	21.3	27.0	-	-	-	-
4*25	4.1	2.7	-	-	28.9	36.6	26.1	33.2	-	-	-	-
4*35	4.4	2.8	-	-	32.5	41.1	29.3	37.2	-	-	-	-
4*50	4.8	3.1	-	-	37.7	47.5	34.4	43.5	-	-	-	-
4*70	5.2	3.3	-	-	42.7	54.0	39.0	49.5	-	-	-	-
4*95	5.9	3.7	-	-	48.4	61.0	44.0	55.9	-	-	-	-
4*120	6.0	3.8	-	-	53.0	66.0	48.6	60.9	-	-	-	-
4*120	6.5	4.1	-	-	58.0	73.0	53.2	67.5	-	-	-	-
4*185	7.0	4.4	-	-	64.0	80.0	58.8	74.3	-	-	-	-
4*240	7.7	4.8	-	-	72.0	91.0	66.3	84.7	-	-	-	-
4*300	8.4	5.2	-	-	80.0	101.0	73.6	94.0	-	-	-	-
5*1.0	1.6	1.0	-	-	10.2	13.1	9.0	11.7	-	-	-	-
5*1.5	1.8	1.1	-	-	11.2	14.4	9.8	12.8	-	-	-	-
5*2.5	2.0	1.3	-	-	13.3	17.0	11.9	15.5	-	-	-	-
5*4	2.2	1.4	-	-	15.6	19.9	14.1	18.2	-	-	-	-

(续)

Sequel

芯数及导体 标称截面积 mm ² Core number & Nominal cross section area	护套厚度标称值 mm Nominal thickness of sheath				平均外径 mm Average Outer diameter							
	450/750V、 0.6/1kV		1.8/3kV		450/750V、0.6/1kV				1.8/3kV			
	SE4、 SH、TPV、 G	TPU	SE4、 SH、 TPV、G	TPU	SE4、SH、TPV、G 护套 SE4、SH、TPV、G sheath		TPU护套 TPU Sheath		SE4、TPV、SH、G护 套 SE4、TPV、SH、Gsheath		TPU护套 TPU sheath	
					下限 Lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit	下限 Lower limit	上限 Upper limit
5*6	2.5	1.6	-	-	17.5	22.2	15.7	20.2	-	-	-	-
5*10	3.6	2.3	-	-	22.9	29.1	20.4	26.0	-	-	-	-
5*16	3.9	2.5	-	-	26.4	33.3	23.7	30.2	-	-	-	-
5*25	4.4	2.8	-	-	32.0	40.4	28.8	36.8	-	-	-	-
6*1.5	2.5	1.6	-	-	13.4	17.2	11.6	15.4	-	-	-	-
12*1.5	2.9	1.9	-	-	17.6	22.4	15.6	20.4	-	-	-	-
18*1.5	3.2	2.1	-	-	20.7	26.3	18.5	24.1	-	-	-	-
24*1.5	3.5	2.3	-	-	24.3	30.7	21.9	28.3	-	-	-	-
36*1.5	3.8	2.5	-	-	27.8	35.2	25.2	32.6	-	-	-	-
6*2.5	2.7	1.8	-	-	15.7	20.0	13.9	18.2	-	-	-	-
12*2.5	3.1	2.1	-	-	20.6	26.2	18.6	24.2	-	-	-	-
18*2.5	3.5	2.3	-	-	24.4	30.9	22.0	28.5	-	-	-	-
24*2.5	3.9	2.6	-	-	28.8	36.4	26.2	33.8	-	-	-	-
36*2.5	4.3	2.9	-	-	33.2	41.8	30.4	39.0	-	-	-	-
6*4	2.9	1.9	-	-	18.2	23.2	16.2	21.2	-	-	-	-
12*4	3.5	2.3	-	-	24.4	30.9	22.0	28.5	-	-	-	-
18*4	3.9	2.5	-	-	28.8	36.4	26.0	33.6	-	-	-	-
注： 1) 5芯以上电缆优选芯数：6、12、18、24和36； 2) 5芯以上非优选芯数电缆的护套厚度的标称值（Tg）根据GB/T12706-1附录A的假定直径法使用下列公式计算得出：SE4、TPV、SH、G 护套：Tg=0.11D+1.5（mm）TPU护套：Tg=0.07D+1.0（mm） 式中D为成缆芯的假定直径。 10mm ² 及以下截面的5芯以上多芯电缆的护套厚度的标称值也可以由上面公式计算得出					Note： 1) Preferred core number of over 5 cores cable：6, 12, 18, 24, 36 2) According to appendix A of GB/T12706-1, please follow below format with assumed diameter to calculate sheath nominal thickness value (Tg) of non-recommend over 5 core cable. SE4、TPV、SH、G sheath: Tg=0.11D+1.5（mm） TPU Sheath: Tg=0.07D+1.0（mm） D is assumed outer diameter of core Nominal sheath thickness of 10mm ² and below cable with more than 5 cores can be calculated by above format.							

AF-200、AF-260氟塑料安装电线

AF-200 & AF-260 Fluoroplastics Installation Wire

本产品适用于耐低温导线、耐高温加热导线及阻燃耐老化导线也可用于空调机、微波炉、电子消毒柜、电子热水瓶、电暖器、电烤箱、电炒锅、灯具灯饰等内部布线。

It is used as low temperature resistant wire, high temperature resistant heating wire or flame retardant and aging resistant wire. It is used as inner wiring in air conditioner, microwave stove, electronic sterilizer, electric water heater, electrical heating machine, electronic oven, electrical frying pan and lightings etc.

一、生产执行标准

参照GJB773B-2015标准。

Executive standard

GJB773B-2015 standard.

二、使用特性

- 1、电线导体最高工作温度为200℃和260℃，最低环境温度为-60℃；
- 2、额定电压：300V/500V。

Operational performance

- 1.Max working temperature of wire conductor is 200℃& 260℃.Min. environment temperature is -60℃.
- 2.Rated voltage: 300/500V.

三、技术特性

- 1、电线具有优良的耐腐蚀性能，几乎不溶于任何有机溶剂，可抗油、强酸、强碱、强氧化剂；
- 2、具有优良的电绝缘性能，耐高电压、高频损耗小，不吸湿，绝缘电阻大；
- 3、具有优良的不燃、耐老化性能，氧指数≥70，使用寿命长；
- 4、也可向用户提供屏蔽型安装线。

Technical Performance

- 1.It has good feature of corrosion resistant, and it is almost Insoluble in any organic solvent. It is resistant to grease, strong acid and strong alkali.
- 2.It has good electric insulation character, and is resistant to high voltage, with small H.F. loss, without absorbing moisture, and with high insulation resistance.
- 3.It has good performance of resisting fire and aging, oxygen index≥70, with long lifetime.
- 4.We also produce shielding installation wire according to the requirement of customer.

四、主要技术参数

Main Technical Parameter

标称截面 mm ² Nominal cross section area	电线最大外径 mm Max. O.D of cable	载流量 A Current-loading capacity	20℃导体最大电阻 Ω/km Max. resistance of conductor at 20℃
0.3	1.55	2.5	71.2
0.5	1.65	6	40.1
0.75	1.86	10	22.2
1.0	2.10	14	20.0
1.5	2.52	22	13.7
2.0	2.75	26	8.86
2.5	2.92	30	8.21
3.5	3.58	37	6.10
4.0	3.76	40	5.09
5.5	4.05	50	4.50
6.0	4.58	55	3.39
8.0	5.15	65	2.35
10.0	5.58	75	1.95
16.0	5.86	82	1.21

五、交货长度

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过±0.5%。

Delivery Length

- 1.Delivery length of cable depends on both agree-ments.
- 2.The measurement error of lenth is no more than ±0.5%.

180℃电机绕组引接软电缆

180℃ Soft Cable for Motor Winding Connection

本产品适用于连续运行导体温度为180℃的电机绕组作引接线用。

It is used as connection cable of motor with continual working temperature of 180℃.

一、生产执行标准

JB/T 6213.4-2006.

Executive standard

JB/T 6213.4-2006.

二、使用特性

- 1、连续运行导体最高温度为180℃；
- 2、电缆（电线）的额定电压为：
500V、1000V、3000V、6000V、10000V；
- 3、敷设时的允许弯曲半径应不小于电缆（电线）外径的4倍。

Operational performance

- 1.Max. temperature of conductor for continual working is180℃.
- 2.Rated voltage of cable/wire is 500V,1000V,3000V,6000V,10000V.
- 3.Bending radius for installation is no less than 4 times that of cable outer diameter.

三、型号名称

Type and Description

型号 Type	名 称 Description
JG	铜芯硅橡胶绝缘电机绕组引接电缆（电线） Motor winding connection cable(wire) with cu core, silica rubber insulation

四、规格

Specication

型号 Type	额定电压 V Rated voltage	芯数 Core No.	标称截面 mm ² Nominal cross section area
JG	500	1	0.75~10
JG	1000	1	0.75~240
JG	3000	1	25~240
JG	6000	1	16~240
JG	10000	1	25~240

五、参考外径

Cable outer diameter for reference

标称截面 mm ² Nominal cross section area	平均外径上限 mm Max.Average O.D	
	500V	1000V
0.75	3.5	4.7
1.0	3.7	4.9
1.5	4.0	5.2
2.5	4.6	5.6
4	5.4	6.3
6	6.5	7.5
10	7.9	8.5

标称截面 mm ² Nominal cross section area	平均外径上限 mm Max.Average O.D
1000V	
16	9.6
25	11.4
35	12.8
50	14.8
70	17.2
95	19.7
120	21.9
150	24.1
185	26.3
240	28.3

标称截面 mm ² Nominal cross section area	平均外径上限 mm Max.Average O.D		
	3000V	6000V	10000V
2.5	8.5	/	/
4	9.1	/	/
6	10.3	/	/
10	11.3	/	/
16	12.4	17.2	/
25	13.8	18.6	24.1
35	15.2	20.0	25.5
50	17.1	22.1	27.3
70	19.2	24.2	29.4
90	22.0	26.3	31.5
120	23.5	27.8	33.3
150	25.5	29.8	35.3
185	27.5	32.1	37.3
240	30.6	35.1	40.3

六、交货长度

- 1、根据双方协议，允许任何长度的电缆交货；
- 2、长度计量误差不超过±0.5%。

Delivery Length

- 1.Delivery length of cable depends on both agree-ments.
- 2.The measurement error of lenth is no more than ±0.5%.

电缆分配系统用物理发泡聚乙烯绝缘同轴电缆

Coaxial Cable with Physically Foamed PE Insulation for Cable Distribution System

本产品适用于1GHZ以下闭路电视系统、共用天线电视系统作分支线和用户线以及其它电子装置。电缆分配系统用物理发泡聚乙烯绝缘同轴电缆比实芯聚乙烯、化学发泡聚乙烯和纵孔聚乙烯绝缘电视电缆具有更优良的高频性能，它有衰减低、一致性好、不易受潮等突出优点，为此在国际、国内市场已获得广泛使用。

一、生产执行标准

SJ/T11138-97。

二、使用特性

环境条件：-25℃~+70℃（PVC护套）；
-40℃~+70℃（PE护套）；
相对湿度：当温度为40±2℃，为90%~95%。

三、型号名称

型号 Type	名称 Name
SYWV-75-5 SYWV-75-7 SYWV-75-9	电缆分配系统用物理发泡聚乙烯绝缘聚氯乙烯护套同轴电缆 Coaxial cable with physically foamed PE insulation, PVC sheath for cable distribution system
SYWY-75-7 SYWY-75-9	电缆分配系统用物理发泡聚乙烯绝缘聚乙烯护套同轴电缆 Coaxial cable with physically foamed PE insulation and PE sheath for cable distribution system

四、电缆的结构尺寸

This product is used as a branch line and a user line. It is suitable for closed-circuit television system, common antenna TV system, and other electronic devices. (under 1GHZ) Coaxial cable with physically foamed PE insulation for cable distribution system has good features of high frequency performance, low attenuation, good consistency and humidity resistance etc compared with TV cable with solid core PE, chemically foamed PE and cell PE insulation. Now, it is widely used in domestic and international market.

Executive standard

SJ/T1113897.

Operational performance

Environment temperature:
-25℃~+70℃（PVC sheath）
-40℃~+70℃（PE sheath）
Relative humidity is 90%~95% under the temperature of 40±2℃.

Type and Description

Structure Dimension of Cable

型号 Type	内导体 mm Inner conductor	绝缘外径 mm Insulation OD	外导体 mm Outer conductor	护套 mm Sheath	单位重量 kg/km Unit weight
SYWV-75-5	1.0±0.02	4.8±0.2	≤5.8	≤7.5	46
SYWV-75-7 SYWY-75-7	1.66±0.02	7.25±0.25	≤8.3	≤10.6	85 (PVC) 75 (PE)
SYWV-75-9 SYWY-75-9	2.15±0.03	9.00±0.25	≤10.3	≤12.6	120 (PVC) 110 (PE)
备注： 1、内导体为单根圆铜线或铜包铝线； 2、绝缘为物理发泡聚乙烯； 3、外导体为铝塑复合膜和镀锡圆铜线（或铝合金线）编织双层屏蔽形式； 4、护套为聚氯乙烯或聚乙烯。 Note: 1.Inner conductor consists of single round copper wire OR copper-clad aluminum wire 2.Insulation material is physically foamed PE. 3.Outer conductor consists of aluminum-plastic compound file and tinned round copper wire(aluminum-alloy wire) braid dual shielding. 4.Sheath material is PVC or PE.					

五、电气性能

Electric Performance

试验项目 Teating item	试验条件 Teat condition	单位 Unit	技术要求 Technical requirements		
			SYWV-75-5	SYWV-75-7 SYWY-75-7	SYWV-75-9 SYWY-75-9
绝缘电阻 Insulated resistance	500V DC(20℃)	MΩ.km	≥5000	≥5000	≥5000
护套介电强度 Sheath dielectric strength 浸水试验 Immersion test in water 火花试验 Spark test	40Hz~60Hz	KV	2.0 3.0	3.0 5.0	5.0 8.0
特性阻抗 Characteristic impedance	200MHz	Ω	72.0~78.0	72.5~77.5	72.5~77.5
衰减常数 20℃ Attenuation coefficient	50MHz 200MHz 550MHz 800MHz	dB/100m	≤4.8 ≤9.7 ≤16.8 ≤20.3	≤3.2 ≤6.4 ≤10.7 ≤13.3	≤2.4 ≤5.0 ≤8.5 ≤10.4
回波损耗 Return-loss	VHF UHF	dB dB	≤20.0 ≤18.0	≤20.0 ≤18.0	≤20.0 ≤18.0
屏蔽衰减 Shielding attenuation	50MHz 200MHz 800MHz	dB dB dB	60 70 70	60 70 70	60 70 70

实芯聚乙烯绝缘柔软射频电缆

Solid-polyethene insulated flexible radio-frequency cables

适用于无线电通讯广播设备和有关无线电电子设备中传输射频信号。
It is used to transmit radio frequency signal for radio communication broadcasting equipments and concerned electric devices.

一、生产执行标准

GB/T14864-2013。

Executive standard

GB/T14864-2013.

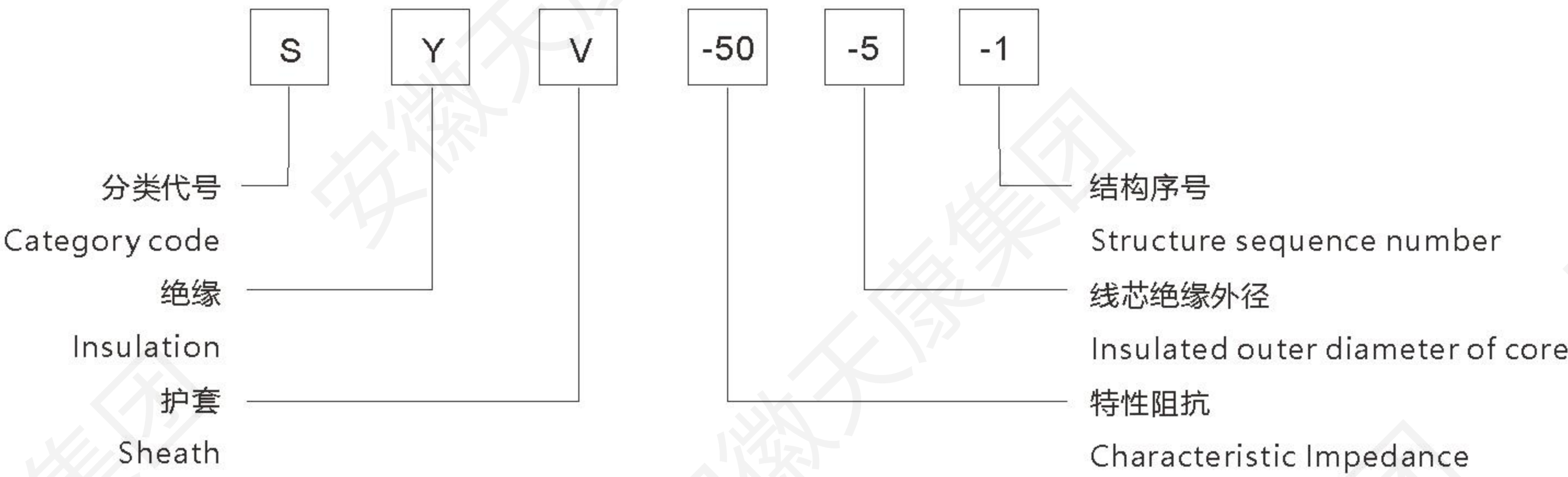
二、型号编制及字母代号含义

射频同轴电缆..... S
铜导体.....T (可省略)
聚乙烯绝缘..... Y
聚氯乙烯护套..... V
低烟无卤阻燃聚烯烃.....YZ

Type Compiling and Code Meaning

RF coaxial cable.....S
Copper conductorT (omitted)
PE insulation..... Y
PVC sheath..... V
Low smoke halogen-free flame retardant polyolefin YZ

型号组成表示方法 Item no-forming method



三、使用条件

使用温度：
PVC低烟无卤阻燃聚烯烃护套电缆：-15℃~70℃；
PE护套电缆：-40℃~80℃。
安装敷设温度不低于-15℃。
允许最小弯曲半径：室内使用时不少于5倍电缆外径，
室外使用不小于10倍电缆外径。

Executive standard

Working temperature:
PVC(LSZH flame retardant PO)sheath cable:-15 to 70℃.
PE sheath cable:-40 to 80℃.
Installation temperature is no lower than -15℃.
Min.bending radius: It will be no less than 5 times that of cable
outer diameter for indoor usage and no less than 10 times for
outdoor usage.

四、型号名称

Type and Description

型号 Type	名称 Description
SYV	实芯聚乙烯绝缘柔软射频电缆 Solid-polyethene insulated flexible radio-frequency cables

五、结构尺寸

Specication and Size

型号规格 Type	内导体 mm Inner conductor	绝缘外径 mm Insulated outer diameter	外导体直径 mm Diameter of outer conductor			护套外径 mm Sheath OD	绝缘电阻 MΩ.km Insulation resistance	200MHz下 衰减dB/m Attenuation under 200MHz
	根数/直径* No./diameter*		内层 Inner layer	外层 Outer layer	单线直径 Diameter of single wire			
SYV-50-2-1 SYY-50-2-1 SYYZ-50-2-1	7/0.16	1.50±0.10	软铜线 Soft copper wire	/	0.10±0.01	2.8±0.2	≥5000	≤0.450
SYV-50-2-41 SYY-50-2-41 SYYZ-50-2-41	1/0.68	2.20±0.10		/	0.14±0.01	4.0±0.2		≤0.310
SYV-50-3-1 SYY-50-3-1 SYYZ-50-3-1	7/0.32	2.95±0.13		/	0.14±0.01	5.0±0.2		≤0.240
SYV-50-3-4 SYY-50-3-4 SYYZ-50-3-4	1/0.90	2.95±0.13		/	0.14±0.01	5.0±0.2		≤0.220
SYV-50-3-41 SYY-50-3-41 SYYZ-50-3-41	1/0.90	2.95±0.13		软铜线 Soft copper wire	0.14±0.01	5.8±0.2		≤0.220
SYV-50-3-42 SYY-50-3-42 SYYZ-50-3-42	19/0.18	2.95±0.10	镀锡铜线 Tinned copper wire	/	0.12±0.01	4.95±0.1		≤0.558
SYV-50-5-1 SYY-50-5-1 SYYZ-50-5-1	1/1.40	4.8±0.20	软铜线 Soft copper wire	/	0.14±0.01	7.2±0.3		≤0.150
SYV-50-5-41 SYY-50-5-41 SYYZ-50-5-41	1/1.40	4.8±0.20		软铜线 Soft copper wire	0.14±0.01	7.9±0.3		≤0.150
SYV-50-5-42 SYY-50-5-42 SYYZ-50-5-42	1/1.37	4.6±0.20		/	0.14±0.01	7.0±0.3		≤0.150
SYV-50-5-43 SYY-50-5-43 SYYZ-50-5-43	1/1.37	4.6±0.20		软铜线 Soft copper wire	0.14±0.01	7.8±0.3		≤0.150
SYV-50-7-2 SYY-50-7-2 SYYZ-50-7-2	7/0.75	7.25±0.25		/	0.19±0.01	10.3±0.3		≤0.110
SYV-50-7-6 SYY-50-7-6 SYYZ-50-7-6	7/0.75	7.25±0.15	镀银铜线 Silver-plated copper wire	软铜线 Soft copper wire	0.17±0.01	11.0±0.3		≤0.620
SYV-50-7-41 SYY-50-7-41 SYYZ-50-7-41	7/0.75	7.25±0.25	软铜线 Soft copper wire	软铜线 Soft copper wire	0.17±0.01	11.0±0.3		≤0.110
SYV-50-9-41 SYY-50-9-41 SYYZ-50-9-41	7/0.95	9.0±0.30		/	0.19±0.01	12.2±0.4		≤0.450

注：SYV-50- 的特性阻抗为50±2.5Ω，电容不大于115pF/m。

Note: characteristic impedance of SYV-50- is 50±2.5Ω. Capacitance is no more than 115pF/m

型号规格 Type	内导体 mm Inner conductor	绝缘外径 mm Insulated outer diameter	外导体直径 mm Diameter of outer conductor			护套外径 mm Sheath OD	绝缘电阻 MΩ.km Insulation resistance	200MHz下 衰减dB/m Attenuation under 200MHz
	根数/直径* No./diameter*		内层 Inner layer	外层 Outer layer	单线直径 Diameter of single wire			
SYV-75-3-41 SYY-75-3-41 SYYZ-75-3-41	7/0.17	3.00±0.13	软铜线 Soft copper wire	/	0.10±0.01	5.0±0.25	≥5000	0.280
SYV-75-3-42 SYY-75-3-42 SYYZ-75-3-42	1/0.50	3.10±0.15		/	0.14±0.01	5.4±0.2		0.048
SYV-75-4-1 SYY-75-4-1 SYYZ-75-4-1	7/0.21	3.70±0.13		/	0.14±0.01	6.0±0.2		0.220
SYV-75-4-2 SYY-75-4-2 SYYZ-75-4-2	7/0.21	3.70±0.10		软铜线 Soft copper wire	0.14±0.01	6.7±0.2		0.950
SYV-75-4-4 SYY-75-4-4 SYYZ-75-4-4	1/0.59	3.70±0.13		/	0.14±0.01	6.0±0.2		0.190
SYV-75-5-41 SYY-75-5-41 SYYZ-75-5-41	1/0.75	4.80±0.20		/	0.14±0.01	7.2±0.3		0.150
SYV-75-5-42 SYY-75-5-42 SYYZ-75-5-42	1/0.75	4.8±0.20		软铜线 Soft copper wire	0.14±0.01	7.9±0.3		0.150
SYV-75-5-43 SYY-75-5-43 SYYZ-75-5-43	1/0.72	4.60±0.20		/	0.15±0.01	7.1±0.3		0.190
SYV-75-5-44 SYY-75-5-44 SYYZ-75-5-44	7/0.26	4.6±0.20		/	0.15±0.01	7.1±0.3		0.211
SYV-75-7-2 SYY-75-7-2 SYYZ-75-7-2	7/0.40	7.25±0.25		/	0.19±0.01	10.3±0.3		0.120
SYV-75-7-8 SYY-75-7-8 SYYZ-75-7-8	1/1.15	7.25±0.25		/	0.19±0.01	10.3±0.3		0.100
SYV-75-7-41 SYY-75-7-41 SYYZ-75-7-41	7/0.40	7.25±0.25		软铜线 Soft copper wire	0.17±0.01	11.0±0.3		0.120
SYV-75-9-41 SYY-75-9-41 SYYZ-75-9-41	1/1.37	9.0±0.30		/	0.19±0.01	12.2±0.4		0.088

注：SYV-75- 的特性阻抗为75±3Ω, 电容不大于76pF/m。
*表示单线直径为近似值。
**表示频率为3000 MHz下的衰减值。

Note: Characteristic impedance of SYV-75- is 75±3Ω. Capacitance is no more than 76pF/m.
*:approximate value of diameter of single wire
**:attenuation value under 3000 MHz

六、交货要求

- 1、允许成圈长度为100米交货，成盘长度应不小于100米，长度误差为±0.5%；
- 2、根据双方协议允许任何长度交货。

Delivery Requirement

- 1.Cable length in coil is 100 meters. Cable length on drum is no less than 100 meters with length error of ±0.5%.
- 2.Allow any length of delivery according to the agreement between the two parties.

现场总线电缆

Fieldbus Cable

本产品用于31.25kHz，特性阻抗为100Ω自动化控制系统的信号传输、监控回路、智能测理与控制设备以及自动化显示系统之间的数字化、双向、多点的通信链路场合。用以构建一种开放分散的数字化现场总线通信系统。适用于室内外潮湿或干燥环境中安装在电缆桥架（托架），隧道内使用。

一、生产执行标准

IEC 61158-2-2010工业通讯网络数据总线规范.第2部分：物理层规范和服务定义，T/CES 100-2022《现场总线用聚乙烯绝缘电缆》，T/HGJ 12400-2021《石油化工仪表线缆选型设计标准》。

二、使用特点

- 1、额定电压：300/500V。
- 2、电缆长期允许工作温度：70℃。
- 3、电缆长期允许弯曲半径：

金属带屏蔽或金属丝铠装电缆弯曲半径应不大于电缆外径的12倍；

金属丝编织电缆，弯曲半径应不大于电缆外径的8倍。

- 4、安装时最低敷设温度：不低于0℃。

三、产品性能

1、FF基金会现场总线具有优良的性能，较高可靠性和控制功能的诊断功能，管理功能，特别适用于工业过程监控设备互联。

2、传输距离。IEC61158-2将总线使用的31.25kHz电压模式总线电缆分为A、B、C、D四种类型，并给出每种类型电缆的最大允许布线长度。

A型：全屏蔽单对对绞电缆，最大布线长度为1900m。

B型：全屏蔽多对对绞电缆，最大布线长度为1200m。

C型：非全屏蔽单对或多对对绞电缆，最大布线长度为400m。

D型：全屏蔽非对绞电缆，最大布线长度为200米。

四、主要技术参数

以18AWG为例：

1、20℃导体电阻：标称截面积为0.8mm²成品电缆在20℃时电阻最大值应不大于24.0Ω/km。

2、屏蔽标称阻抗：单对：9Ω/km，多对：18Ω/km。

3、工作电容（1kHz）：

芯-芯≤60pF/m，芯-屏≤115pF/m。

4、对地电容不平衡≤2000pF/km。

The cable is used for 31.25kHz, characteristic impedance of 100Ω automation control system signal transmission, monitoring loop, intelligent measurement and control equipment, and automation display system between the digital, bidirectional, multi-point communication link. It is used to construct an open and decentralized digital fieldbus communication system. Suitable for indoor and outdoor wet or dry environment installed in cable tray (bracket), tunnel use.

Executive standard

IEC 61158-2-2010 Industrial communication networks-Fieldbus specifications-Part 2: Physical layer specification and service definition, T/CES100-2022《Polyethylene insulated cable for field bus》, T/HGJ12400-2021《Design specification for the FOUNDATION fieldbus control system in petrochemical industry》.

Operational performance

1. Rated Voltage: 300/500V.

2. Long-term allowable working temperature by cable is 70℃

3. Long-term allowable bending Radius of cable

The bending radius of metal-tape shielded cable or metal-wire armored cable shall be no more than 12 times the outer diameter of the cable.

The bending radius of metal-wire shielded cable shall be no more than 8 times the outer diameter of the cable.

4. The Min. Laying temperature: no less than 0℃.

Product performance

1. Foundation Fieldbus Cable has excellent performance, high reliability and control function of diagnostic function, management function, especially suitable for industrial process monitoring equipment interconnection.

2. Transmission distance. IEC61158-2 divides the 31.25kHz voltage mode fieldbus cable into four types: A, B, C and D, and gives the maximum allowable wiring length of each type of cable.

Type A: Overall shielded single-pair cable with a maximum cable length of 1900 m.

Type B: Overall shielded multi-pairs cable with a maximum cable length of 1200 m.

Type C: Unshielded single-pair or multi-pair cable with a maximum cable length of 400 m.

Type D: Overall shielded cable with a maximum cable length of 200 m.

Main Technical Parameters

Take 18AWG as an example:

1. DC resistance at 20℃: The maximum resistance of the finished cable with a nominal cross-sectional area of 0.8mm² should not be greater than 24.0Ω/km at 20℃

2. Nominal impedance of shielding: Single-pair: 9Ω/km ; multi-pair: 18Ω/km

3. Operating capacitance (1kHz) :

- 5、单元对屏蔽层的最大电容不平衡最大值 (1kHz) : 4nF/km。
- 6、特性阻抗 (31.25kHz) : $100 \pm 20 \Omega$ 。
- 7、衰减 (39kHz) : ≤ 3.0 。
- 8、传输延迟 (7.9kHz~39kHz) $\leq 1.7 \mu\text{s}/\text{km}$ 。
- 9、工频电压试验: 1kV/1min。
- 10、传输速率: 31.25kbit/s。
- 11、绝缘电阻: 成品电缆在20℃时绝缘电阻应不小于 3000M Ω .km。
- 12、最大电感电阻比 (20℃, 1kHz) :
0.5~1.0mm²: 25 $\mu\text{H}/\Omega$, 1.5mm²:40 $\mu\text{H}/\Omega$ 。

五、型号说明

- 1、系列代号
FF-A: 基金会现场总线A型。
- 2、材料特性代号
Y: 聚乙烯绝缘或聚烯烃;
FPE: 发泡聚乙烯绝缘 (皮-泡-皮) 。
- 3、结构特征代号
P: 铜丝编织屏蔽;
P1: 镀锡铜丝编织屏蔽;
P3: 铝塑复合带屏蔽;
P4: 铜塑复合带屏蔽;
P5/P3P1: 铝箔+ (镀锡) 铜丝编织屏蔽;
2: 钢带铠装;
3: 钢丝铠装;
9: 钢丝编织铠装;
V: 聚氯乙烯外护套;
Y: 聚乙烯或聚烯烃外护套;
2: 聚氯乙烯外护套;
3: 聚乙烯或聚烯烃外护套;
R: 软结构。

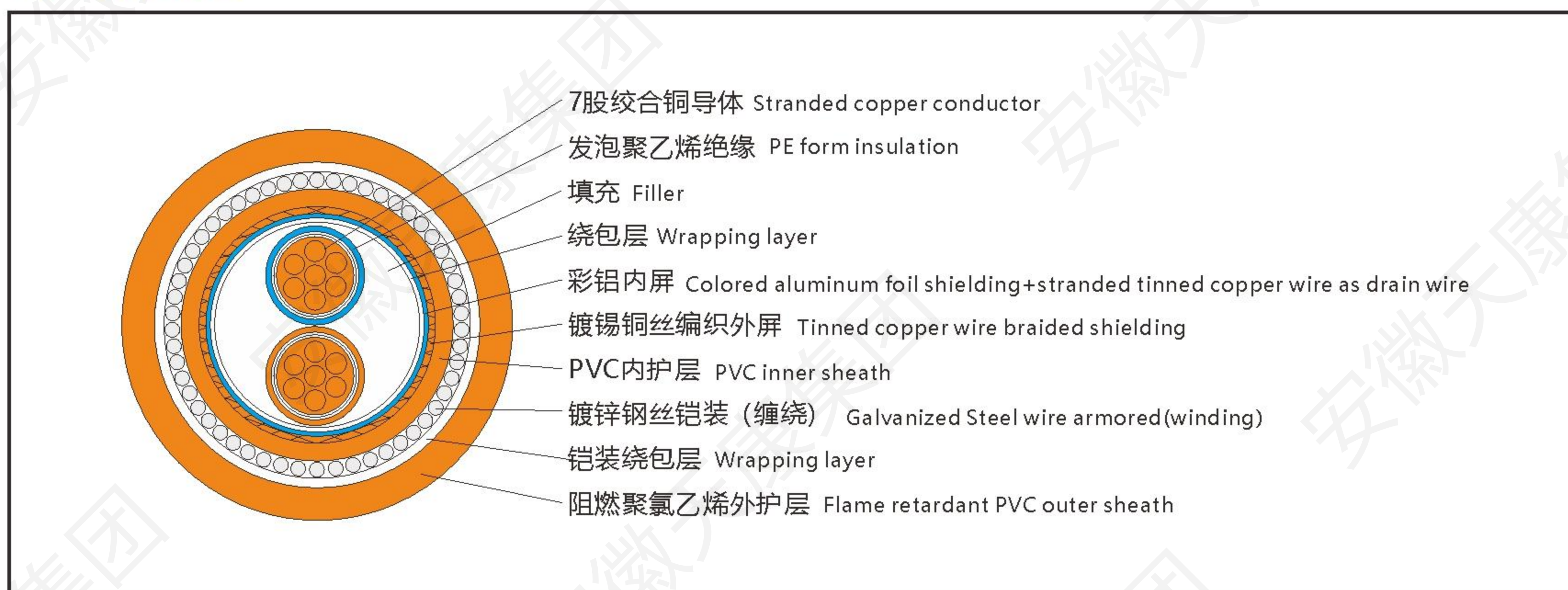
- core-to-core: $\leq 60 \text{pF}/\text{m}$; core-to-shielding: $\leq 115 \text{pF}/\text{m}$ 。
- 4.Capacitance unbalance to earth: $\leq 2000 \text{pF}/\text{km}$ 。
- 5.Max.Capacitance unbalance of the unit to the shielding layer (1kHz) : 4nF/km。
- 6.Characteristic impedance (31.25kHz) : $100 \pm 20 \Omega$ 。
- 7.Attenuation (39kHz) : ≤ 3.0 。
- 8.Propagation delay change (7.9kHz~39kHz) : $\leq 1.7 \mu\text{s}/\text{km}$ 。
- 9.A.C.Voltage test:1kV/1min。
- 10.Transmission velocity:31.25kbit/s。
- 11.Insulation Resistance:The insulation resistance of the finished cable at 20℃ should not be less than 3000M Ω .km
- 12.Max.inductance resistance ratio (20℃,1kHz) :
0.5~1.0mm²: 25 $\mu\text{H}/\Omega$; 1.5mm²:40 $\mu\text{H}/\Omega$ 。

Cable description

- 1.Series Code
FF-A: FOUNDATION Fieldbus Cable Type A
- 2.Material Code
Y: PE or Polyolefin insulation
FPE: Foamed polyethylene insulation(skin-foam-skin)
- 3.Structure Code
P: Copper wire braiding shielding
P1: Tinned-Copper wire braiding shielding
P3: Aluminum-plastic composite tape shielding
P4: Copper-plastic composite tape shielding
P5/P3P1: (Aluminium-foil +(Tinned)copper wire braiding shielding)
2: Steel tape armored
3: Steel wire armored
9: Steel wire braided armor
V: PVC outer sheath
Y: PE or Polyolefin outer sheath
2: PVC outer sheath
3: PE or Polyolefin outer sheath
R: Soft structure

六、电缆结构图

Cable Structure



七、规格尺寸及技术参数

Dimension and Technical parameters

标称截面 (mm ²) Nominal cross-section area	导体种类 Category of conductor	20℃最大导体直流电阻 (Ω/km) Max. DC resistance of conductor	电缆参考外径 (mm) Approximate diameter		
			FF-A	FF-A-32	FF-A-92
1*2*0.5	2类 Class 2	36.0	7.0	11.5	10.5
2*2*0.5		36.0	11.5	16.5	14.5
1*2*0.75		24.5	7.5	12.0	11.0
2*2*0.75		24.5	12.0	17.5	15.5
1*2*0.8(18AWG)		24.0	8.0	12.3	11.3
2*2*0.8(18AWG)		24.0	12.5	17.5	15.5
1*2*1.0		18.1	8.0	12.5	11.5
2*2*1.0		18.1	13.0	18.0	16.0
1*2*1.5		12.1	9.0	13.0	12.0
2*2*1.5		12.1	14.0	19.0	17.5

注：

1、以2类绞合导体提供电缆参数

2、总线电缆外护套正常为橙色，也可按客户要求。

Note:1.Cable parameters are provided here based on class 2 stranded conductors.

2.The outer sheath of the field bus cable is orange normally, or according to customer requirements.

RS485通讯电缆

RS485 Communication Cable

RS485通讯电缆广泛应用于DCS系统同SIS、PLC、CCS、MMS等其他系统之间的Modbus RTU串行通信。

一、生产执行标准

IEC 61158-2-2010 工业通讯网络.数据总线规范.第2部分：物理层规范和服务定义。

T/HGJ 12400-2021《石油化工仪表线缆选型设计标准》。

T/CES 100-2022《现场总线用聚乙烯绝缘电缆》。

二、使用特点

1、额定电压：300/500V。

2、电缆长期允许工作温度：70℃。

3、电缆长期允许弯曲半径：

金属带屏蔽或金属丝铠装电缆弯曲半径应不大于电缆外径的12倍；

金属丝编织电缆，弯曲半径应不大于电缆外径的8倍。

4、安装时最低敷设温度：不低于0℃。

三、产品性能

1、RS485通讯电缆具有优良的性能，可应用于复杂的工业自动化控制网络通讯及楼宇自控网络通讯。

2、传输速率：10Mbps。

3、在要通信传输距离几十到上千米时，广泛采用RS485串行通讯电缆。

4、RS485通讯电缆采用平衡发送和差分接收，因此具有抑制共模干扰的能力，加上总线收发器具有高灵敏度，能检测低至200mV的电压，故传输信号能在千米以外得到恢复。

5、RS485通讯电缆半用半双工工作方式，任何时候只能有一点处于发送状态，因此，发送电路须由使能信号加以控制。RS485用于多点互联时非常方便，可以省掉许多信号线，应用RS485通讯电缆可以联网构成分布式系统。

四、主要技术参数

1、工作电容（1kHz）：

芯-芯 $\leq 85\text{pF/m}$ ，芯-屏 $\leq 115\text{pF/m}$ （0.5~1.0mm²）

芯-屏 $\leq 125\text{pF/m}$ （1.5mm²）。

2、对地电容不平衡 $\leq 500\text{pF/km}$ 。

3、单元对屏蔽层的最大电容不平衡最大值（1kHz）：

4nF/km。

4、特性阻抗（31.25kHz）： $100\pm 20\Omega$ 。

RS485 communication cable is widely used in Modbus RTU serial communication between DCS system and SIS, PLC, CCS, MMS and other systems.

Executive standard

IEC 61158-2-2010 Industrial communication networks-Fieldbus specifications-Part2:Physical layer specification and service definition.

T/HGJ 12400-2021《Design specification for the foundation fieldbus control system in petrochemical industry》.

T/CES 100-2022《Polyethylene Insulated Cable for field bus》.

Operational performance

1.Rated Voltage:300/500V.

2.Long-term allowable working temperature by cable is 70℃.

3.Long-term allowable bending Radium of cable.

The bending radius of metal-tape shielded cable or metal-wire armored cable shall be no more than 12 times the outer diameter of the cable.

The bending radius of metal-wire shielded cable shall be no more than 8 times the outer diameter of the cable.

4.The Min. Laying temperature:no less than 0℃.

Product performance

1.RS485 communication cable has excellent performance and can be applied to complex industrial automation control network communication and building automation network communication.

2.Transmission velocity:10Mbps.

3.RS485 serial communication cable is widely used when the communication transmission distance is tens to thousands of meters.

4.RS-485 communication cable adopts balanced transmission and differential reception, so it has the ability to suppress common-mode interference. In addition, the bus transceiver has high sensitivity and can detect the voltage as low as 200mV, so the transmitted signal can be recovered from thousands of meters away.

5.RS485 communication cable works in half-duplex mode, and only one point can be sent at any time. Therefore, the sending circuit must be controlled by the enable signal. RS485 is very convenient for multi-point interconnection, and many signal lines can be omitted. RS485 communication cable can be used for networking to form a distributed system.

Main Technical Parameters

1.Operating capacitance (1kHz) :

Conductor-to-conductor: $\leq 85\text{pF/m}$, Conductor-to-shielding: $\leq 115\text{pF/m}$ (0.5~1.0mm²), Conductor-to-shielding: $\leq 125\text{pF/m}$ (1.5mm²).

2.Capacitance unbalance to earth: $\leq 500\text{pF/km}$.

3.Max.Capacitance unbalance of the unit to the shielding

- 5、衰 减 (39kHz) : $\leq 3.0\text{dB/km}$, (1kHz 22AWG) : $\leq 0.5\text{dB/km}$, (1kHz 24AWG) : $\leq 0.6\text{dB/km}$ 。
- 6、工频电压试验: 1kV/1min。
- 7、传输速率: 10Mbps。
- 8、绝缘电阻: 成品电缆在20℃时绝缘电阻应不小于3000MΩ.km。
- 9、最大电感电阻比
(20℃ , 1kHz) : $0.5\sim 1.0\text{mm}^2: 25\mu\text{H}/\Omega$
 $1.5\text{mm}^2: 40\mu\text{H}/\Omega$ 。
- 10、传输延时差 (7.8~39kHz) $\leq 1.7\mu\text{s/km}$ 。

五、型号说明

- 1、系列代号
RS485: RS485通讯接口电缆。
- 2、材料特性代号
Y: 聚乙烯或聚烯烃绝缘;
FPE: 发泡聚乙烯绝缘 (皮-泡-皮) 。
- 3、结构特征代号
P: 铜丝编织屏蔽;
P1: 镀锡铜丝编织屏蔽;
P3: 铝塑复合带屏蔽;
P4: 铜塑复合带屏蔽;
P5/P3P1: 铝箔+ (镀锡) 铜丝编织屏蔽;
2: 钢带铠装;
3: 钢丝铠装;
9: 钢丝编织铠装;
V: 聚氯乙烯外护套;
Y: 聚乙烯或聚烯烃外护套;
2: 聚氯乙烯外护套;
3: 聚乙烯或聚烯烃外护套;
R: 软结构。

- layer (1kHz) : 4nF/km.
- 4.Characteristic impedance (31.25kHz) : $100\pm 20\Omega$.
- Attenuation (39kHz) : $\leq 3.0\text{dB/km}$; (1kHz 22AWG) : $\leq 0.5\text{dB/km}$ (1kHz 24AWG) : $\leq 0.6\text{dB/km}$.
- 6.A.C.Voltage test:1kV/1min.
- 7.Transmission velocity:10Mbps.
- 8.Insulation Resistance:The insulation resistance of the finished cable at 20℃ should not be less than 3000MΩ.km.
- 9.Max.inductance resistance ratio (20℃,1kHz) : $0.5\sim 1.0\text{mm}^2: 25\mu\text{H}/\Omega$, $1.5\text{mm}^2: 40\mu\text{H}/\Omega$.
- 10.Transmission delay difference (7.8~39kHz) $\leq 1.7\mu\text{s/km}$.

Cable description

- 1.Series Code
RS485:RS485 communication interface cable
- 2.Material Code
Y: PE or Polyolefin insulation.
FPE: Foamed polyethylene insulation(skin-foam-skin).
- 3.Structure Code
P:Copper wire braiding shielding
P1:Tinned-Copper wire braiding shielding
P3:Aluminum-plastic composite tape shielding
P4:Copper-plastic composite tape shielding
P5/P3P1: (Aluminium-foil+(Tinned)copper wire braiding shielding)
2:Steel tape armored
3:Steel wire armored
9:Steel wire braided armor
V:PVC outer sheath
Y:PE or Polyolefin outer sheath
2:PVC outer sheath
3:PE or Polyolefin outer sheath
R:Soft structure

六、电缆结构图

Cable Structure



七、规格尺寸及技术参数

Dimension and Technical parameters

标称截面 (mm ²) Nominal cross-section area	导体种类 Category of conductor	20℃最大导体直流电阻 (Ω/km) Max. DC resistance of conductor	电缆参考外径 (mm) Approximate diameter		
			RS485	RS485-32	RS485-92
1*2*0.2 (24AWG)	2类 Class 2	95.25	6.5	11.0	10.0
2*2*0.2 (24AWG)		95.25	10.5	14.0	13.5
1*2*0.32 (22AWG)		55.0	7.8	12.0	11.0
2*2*0.32 (22AWG)		55.0	12.5	17.5	15.5
1*2*0.5		36.0	7.0	11.5	10.5
2*2*0.5		36.0	11.5	16.5	14.5
1*2*0.75		24.5	7.5	12.0	11.0
2*2*0.75		24.5	12.0	17.5	15.5
1*2*0.8(18AWG)		24.0	8.0	12.3	11.3
2*2*0.8(18AWG)		24.0	12.5	17.5	15.5
1*2*1.0		18.1	8.0	12.5	11.5
2*2*1.0		18.1	13.0	18.0	16.0
1*2*1.5		12.1	9.0	13.0	12.0
2*2*1.5		12.1	14.0	19.0	17.5

注：
1、以2类绞合导体提供电缆参数；
2、RS485通讯电缆外护套正常为灰色，也可按客户要求。

Note:
1.Cable parameters are provided here based on class2 stranded conductors.
2.The outer sheath of the RS485 Communication Cable is grey normally, or according to customer requirements.



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