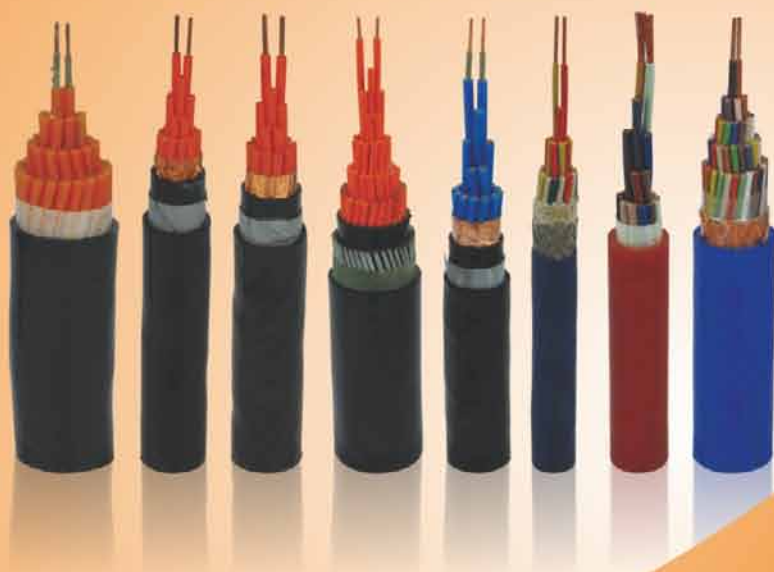




控制电缆 Control Cables ▶

◆ 塑料绝缘和护套控制电缆

Plastic insulated and sheathed control cables

塑料绝缘和护套控制电缆

Plastic insulated and sheathed control cables

■ 执行标准

GB/T 9330-2008 (参照采用IEC 60227耐电压优于IEC 60227)
 Q/321048KLA050 450/750V阻燃塑料绝缘控制电缆
 Q/321048KLA058 1kV塑料绝缘阻燃控制电缆

■ 试验标准

GB/T 2951-2008、GB/T 3048-2007、
 GB/T 18380.3-2008、GB/T 1765-1998、
 GB/T 17650-1998

■ 使用特性

用途：适用于交流额定电压 U_0/U 为0.6/1kV及以下的控制，
 监控回路及保护线路。
 额定电压 U_0/U ：450/750V、0.6/1kV。
 工作温度：一般型最高不超过70℃；
 交联聚乙烯最高不超过90℃。
 最小弯曲半径：无铠装电缆应不小于电缆外径6倍；
 有铠装或铜带屏蔽结构的电缆应不小于电缆外
 径12倍；
 有屏蔽层结构的软电缆，应不小于电缆外径的
 6倍。

■ 主要技术指标 Main technical indexes

1、材料 Materials

各种材料阻燃技术指标 Flame retardant technical indexes of various material

表1 Table 1

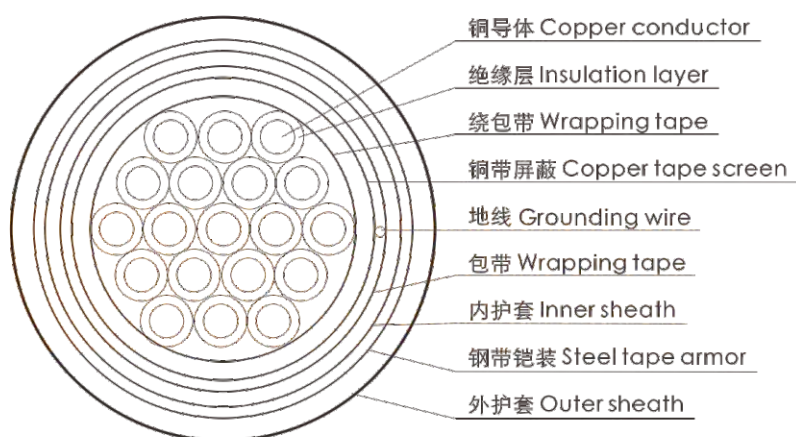
项目 Items	指标 Indexes		
	一般阻燃PVC General flame retardant PVC	低烟低卤PVC Low smoke low halogen PVC	无卤低烟聚烯烃 Low smoke halogen free polyolefins
氧指数 (%) Index of Oxygen	30-32	31-36	32-40
烟密度 (≤) Smoke density	600	300	有焰50无焰260 With flame,50;withont flame,260
卤化氢气体释放量mg/g (≤) Emission of hydrogen halide gas	580	100	5
PH值 PH value	1.5	2.5	4.3
电导率 $\mu S/mm \leq$ Electrical conductivity	250	30	10

2、产品 Products

产品主要技术指标 Product main technical indexes

表2 Table 2

项目 Items		指标 Indexes															
20℃直流 电阻Ω/Km 不大于 DC resistance at 20℃≤	截面 Cross section area	0.5mm ²		0.75mm ²		1.0mm ²		1.5mm ²		2.5mm ²		4.0mm ²		6mm ²		10mm ²	
	镀层 Cover	不镀锡 Untinned	镀锡 Tinned	不镀锡 Untinned	镀锡 Tinned	不镀锡 Untinned	镀锡 Tinned	不镀锡 Untinned	镀锡 Tinned	不镀锡 Untinned	镀锡 Tinned	不镀锡 Untinned	镀锡 Tinned	不镀锡 Untinned	镀锡 Tinned	不镀锡 Untinned	镀锡 Tinned
	A、B类	36.0	36.7	24.5	24.8	18.1	18.2	12.1	12.2	7.41	7.56	4.61	4.70	3.08	3.11	1.83	1.84
	R类	39.0	40.1	26.0	26.7	19.5	20.0	13.3	13.7	7.98	8.21	-	-	-	-	-	-
试验电压 Test voltage	450/750V	3000V/5min															
	600/1000V	3500V/5min															
绝缘电阻 Insulation resistance		符合国家标准(见表7-表11) Conform to national standard (from Table 7 to Table 11)															
阻燃性能 Flame retardant property		符合国家标准GB/T18380-2008 Conform to national standard GB/T 18380-2008															



KVVVP2-22

3、绝缘线芯标志 Insulated cores identifications

本厂可提供的色标有白、红、黑、黄、蓝、绿、橙、灰、棕、紫十种。

一般情况下，本厂都是用数字标志区分。

Ten colors are available in our factory, they are white, red, black, yellow, blue, green, orange, grey, brown and purple. Normally, numbers are used for identification.

4、交联性能指标 Cross-linking performance indexes

表3 Table3

项目 Items	单位 Unit	性能指标 Indexes	执行标准 Executive standard
空气温度 Air temperature	℃	200±3	GB/T 2951.21-2008
处理条件载荷时间 Load time for managing condition	min	15	
机械应力 Mechanical stress	N/cm ²	20	
负载下伸长率 最大 Max. elongation under load	%	175	
冷却后永久伸长率最大 Max. permanent elongation after cooling	%	15	

5、屏蔽控制电缆屏蔽抑制系数 Screening inhibition coefficient of screened control cables

表4 Table4

型号 Types	KVVP	KVVP2	KVVRP	KVVRP2	KVVP2-22	KVVP3
屏蔽抑制系数 ≤ Screening inhibition coefficient	0.01	0.01	0.01	0.01	0.005	0.06

■ 型号及名称 Type and description

塑料绝缘和护套控制电缆型号及名称

Type and description of plastic insulated and sheathed control cables

表5 Table5

序号 No.	型号 Types	产品名称 Descriptions	主要使用范围 Range of application
1	KVV	铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Cu core PVC insulated and sheathed control cable	适用于弱电控制系统或强电磁场干扰区 Applicable for weak current control system or interference areas of strong magnetic.
2	KVVP	铜芯聚氯乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制电缆 Cu core PVC insulated and sheathed, copper wire braided screened, control cable	
3	KVVP2	铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Cu core PVC insulated and sheathed, copper tape screened, control cable	
4	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 Cu core PVC insulated and sheathed, Al./plastic compound tape screened, control cable	
5	KVV22	铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Cu core PVC insulated and sheathed, steel tape armored, control cable	
6	KVV32	铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆 Cu core PVC insulated and sheathed, steel wire armored, control cable	
7	KVVR	铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆 Cu core PVC insulated and sheathed, flexible control cable	
8	KVVRP	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 Cu core PVC insulated and sheathed, copper wire braided screened, flexible control cable	
9	KVVP-22	铜芯聚氯乙烯绝缘聚氯乙烯护套铜丝编织屏蔽钢带铠装控制电缆 Cu core PVC insulated and sheathed, copper wire braided screened, steel tape armored, control cable	
10	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 Cu core PVC insulated and sheathed, copper tape screened, steel tape armored, control cable	
11	KVVP3-22	铜芯聚氯乙烯绝缘聚氯乙烯护套铝/塑复合带屏蔽钢带铠装控制电缆 Cu core PVC insulated and sheathed, Al./plastic compound tape screened, steel tape armored, control cable	
12	KVV-1	铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Cu core PVC insulated and sheathed control cable	主要用于变电站与发电厂配电装置及强电磁场干扰区 Mainly applied in substation, distributions equipment of power plants and interference areas of intense magnetic.
13	KVV22-1	铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Cu core PVC insulated and sheathed, steel tape armored, control cable	
14	KVVP2-22-1	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 Cu core PVC insulated and sheathed, copper tape screened, steel tape armored, control cable	
15	KYJVP2-22-1	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 Cu core XLPE insulated, PVC sheathed, copper tape screened, steel tape armored, control cable	
16	KYJV22-1	铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Cu core XLPE insulated, PVC sheathed, steel tape armored, control cable	具有优良的电气性能耐化学腐蚀, 适用于负载大, 环境恶劣的场所。 Owning an excellent electric property and being able to resist chemical corrosion, the products are applicable for areas of heavy loading and harsh environment.
17	KYJV	铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆 Cu core XLPE insulated, PVC sheathed control cable	
18	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 Cu core XLPE insulated, PVC sheathed, copper wire braided screened, control cable	
19	KYJVP2	铜芯交联聚乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Cu core XLPE insulated, PVC sheathed, copper tape screened, control cable	
20	KYJVP3	铜芯交联聚乙烯绝缘聚氯乙烯护套铝/塑复合带屏蔽控制电缆 Cu core XLPE insulated, PVC sheathed, Al./plastic composite tape screened, control cable	
21	KYJV22	铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Cu core XLPE insulated, PVC sheathed, steel tape armored, control cable	
22	KYJV32	铜芯交联聚乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆 Cu core XLPE insulated, PVC sheathed, steel wire armored, control cable	
23	KYJVR	铜芯交联聚乙烯绝缘聚氯乙烯护套控制软电缆 Cu core XLPE insulated, PVC sheathed, flexible control cable	
24	KYJVRP	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制软电缆 Cu core XLPE insulated, PVC sheathed, copper wire braided screened, flexible control cable	
25	KYJVP-22	铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽钢带铠装控制电缆 Cu core XLPE insulated, PVC sheathed, copper wire braided screened, steel tape armored, control cable	
26	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 Cu core XLPE insulated, PVC sheathed, copper tape screened, steel tape armored, control cable	
27	KYJVP3-22	铜芯交联聚乙烯绝缘聚氯乙烯护套铝/塑复合带屏蔽钢带铠装控制电缆 Cu core XLPE insulated, PVC sheathed, Al./plastic compound screened, steel tape armored, control cable	

续表5 Continue with table5

序号 No.	型号 Types	产品名称 Descriptions	主要使用范围 Range of application
28	DDZ-KVV	铜芯聚氯乙烯绝缘及护套低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, low halogen low smoke flame retardant, control cable	燃烧时毒气和发烟量小阻 燃性强, 应用于有阻燃要 求的公共场所。 Fewer poisonous gas and smoke released in burning, and having a good flame retardant ability, the products can be applied in the public places with flame retardant requirement.
29	DDZ-KVVP	铜芯聚氯乙烯绝缘及护套铜丝编织屏蔽低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, copper wire braided screened, low halogen low smoke flame retardant, control cable	
30	DDZ-KVVP2	铜芯聚氯乙烯绝缘及护套铜带屏蔽低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, copper tape screened, low halogen low smoke flame retardant, control cable	
31	DDZ-KVVP3	铜芯聚氯乙烯绝缘及护套铝/塑复合带屏蔽低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, Al./plastic compound screened, low halogen low smoke flame retardant, control cable	
32	DDZ-KVV22	铜芯聚氯乙烯绝缘及护套铜带铠装低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, steel tape armored, low halogen low smoke flame retardant, control cable	
33	DDZ-KVV32	铜芯聚氯乙烯绝缘及护套钢丝铠装低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, steel wire armored, low halogen low smoke flame retardant, control cable	
34	DDZ-KVVR	铜芯聚氯乙烯绝缘及护套低卤低烟阻燃控制软电缆 Cu core PVC insulated and sheathed, low halogen low smoke flame retardant, flexible control cable	
35	DDZ-KVVRP	铜芯聚氯乙烯绝缘及护套铜丝编织屏蔽低卤低烟阻燃控制软电缆 Cu core PVC insulated and sheathed, copper wire braided screened, low halogen low smoke flame retardant, flexible control cable	
36	DDZ-KVVP-22	铜芯聚氯乙烯绝缘及护套铜丝编织屏蔽铜带铠装低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, copper wire braided screened, steel tape armored, low halogen low smoke flame retardant, control cable	
37	DDZ-KVVP2-22	铜芯聚氯乙烯绝缘及护套铜带屏蔽铜带铠装低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, copper tape screened, steel tape armored, low halogen low smoke flame retardant, control cable	
38	DDZ-KVVP3-22	铜芯聚氯乙烯绝缘及护套铝/塑复合带屏蔽铜带铠装低卤低烟阻燃控制电缆 Cu core PVC insulated and sheathed, Al./plastic compound tape screened, steel tape armored, low halogen low smoke flame retardant, control cable	燃烧时毒气和发烟量小, 阻燃性强对电子设备不产 生腐蚀, 用于高层建筑, 地铁, 机场, 核电站, 计 算机控制中心等场所。 Fewer poisonous gas and smoke released in burning, having a good flame retardant property and is not corrosive for electric equipment. The products are applied for high buildings, sub- ways, airports, nuclear power plants, computer control centers and other places.
39	WDZ-KYY	铜芯聚乙烯绝缘及护套无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, halogen free low smoke flame retardant, control cable	
40	WDZ-KYYP	铜芯聚乙烯绝缘及护套铜丝编织屏蔽无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, copper wire braided screened, halogen free low smoke flame retardant, control cable	
41	WDZ-KYYP2	铜芯聚乙烯绝缘及护套铜带屏蔽无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, copper tape screened, halogen free low smoke flame retardant, control cable	
42	WDZ-KYYP3	铜芯聚乙烯绝缘及护套铝/塑复合带屏蔽无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, Al./plastic compound tape screened, halogen free low smoke flame retardant, control cable	
43	WDZ-KYY23	铜芯聚乙烯绝缘及护套铜带铠装无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, steel tape armored, halogen free low smoke flame retardant, control cable	
44	WDZ-KYY33	铜芯聚乙烯绝缘及护套细钢丝铠装无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, thin steel wire armored, halogen free low smoke flame retardant, control cable	
45	WDZ-KYYR	铜芯聚乙烯绝缘及护套无卤低烟阻燃控制软电缆 Cu core PE insulated and sheathed, halogen free low smoke flame retardant, flexible control cable	
46	WDZ-KYYRP	铜芯聚乙烯绝缘及护套铜丝编织屏蔽无卤低烟阻燃控制软电缆 Cu core PE insulated and sheathed, copper wire braided screened, halogen free low smoke flame retardant, flexible control cable	
47	WDZ-KYYP-23	铜芯聚乙烯绝缘及护套铜丝编织屏蔽铜带铠装无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, copper wire braided screened, steel tape armored, halogen free low smoke flame retardant, control cable	
48	WDZ-KYYP2-23	铜芯聚乙烯绝缘及护套铜带屏蔽铜带铠装无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, copper tape screened, steel tape armored, halogen free low smoke flame retardant, control cable	燃烧时不延燃, 适用于有 防火要求场合。 Being incombustible in burning, the products are applied in the places requiring fire resistance.
49	WDZ-KYYP3-23	铜芯聚乙烯绝缘及护套铝/塑复合带屏蔽铜带铠装无卤低烟阻燃控制电缆 Cu core PE insulated and sheathed, Al./plastic compound tape screened, steel tape armored, halogen free low smoke flame retardant, control cable	
50	ZR-KVV	铜芯聚氯乙烯绝缘及护套阻燃控制电缆 Cu core PVC insulated and sheathed, flame retardant, control cable	
51	ZR-KVVP	铜芯聚氯乙烯绝缘及护套铜丝编织屏蔽阻燃控制电缆 Cu core PVC insulated and sheathed, copper wire braided screened, flame retardant, control cable	
52	ZR-KVVP2	铜芯聚氯乙烯绝缘及护套铜带屏蔽阻燃控制电缆 Cu core PVC insulated and sheathed, copper tape screened, flame retardant, control cable	
53	ZR-KVVP3	铜芯聚氯乙烯绝缘及护套铜铝/塑复合带屏蔽阻燃控制电缆 Cu core PE insulated and sheathed, Al./plastic compound tape screened, flame retardant, control cable	
54	ZR-KVV22	铜芯聚氯乙烯绝缘及护套铜带铠装阻燃控制电缆 Cu core PVC insulated and sheathed, steel tape armored, flame retardant, control cable	

续表5 Continue with table5

序号 No.	型号 Types	产品名称 Descriptions	主要使用范围 Range of application
55	ZR-KVV32	铜芯聚氯乙烯绝缘及护套细钢丝铠装阻燃控制电缆 Cu core PVC insulated and sheathed, thin steel wire armored, flame retardant, control cable	燃烧时不延燃, 适用于有 防火要求场合。 Being incombustible in burning, the products are applied in the places requiring fire resistance.
56	ZR-KVVR	铜芯聚氯乙烯绝缘及护套阻燃控制软电缆 Cu core PVC insulated and sheathed, flame retardant, flexible control cable	
57	ZR-KVVVP	铜芯聚氯乙烯绝缘及护套铜丝编织屏蔽阻燃控制软电缆 Cu core PVC insulated and sheathed, copper wire braided screened, flame retardant, flexible control cable	
58	ZR-KVVP-22	铜芯聚氯乙烯绝缘及护套铜丝编织屏蔽钢带铠装阻燃控制电缆 Cu core PVC insulated and sheathed, copper wire braided screened, steel tape armored, flame retardant, control cable	
59	ZR-KVVP2-22	铜芯聚氯乙烯绝缘及护套铜带屏蔽钢带铠装阻燃控制电缆 Cu core PVC insulated and sheathed, copper tape screened, steel tape armored, flame retardant, control cable	
60	ZR-KVVP3-32	铜芯聚氯乙烯绝缘及护套铝/塑复合带屏蔽钢带铠装阻燃控制电缆 Cu core PVC insulated and sheathed, Al./plastic compound tape screened, steel tape armored, flame retardant, control cable	
61	KYV	铜芯聚乙烯绝缘聚氯乙烯护套控制电缆 Cu core PE insulated, PVC sheathed, control cable	绝缘电阻高, 防水性强, 较好的耐寒性, 适用于敷 设环境温度低, 潮湿的场 合。 High insulation resistance, strong water resistant and cold resistant property, the products are applicable for low temperature and moist laying areas.
62	KYVP	铜芯聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制电缆 Cu core PE insulated, PVC sheathed, copper wire braided screened, control cable	
63	KYVP2	铜芯聚乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Cu core PE insulated, PVC sheathed, copper tape screened, control cable	
64	KYVP3	铜芯聚乙烯绝缘聚氯乙烯护套铝/塑复合带屏蔽控制电缆 Cu core PE insulated, PVC sheathed, Al./plastic compound tape screened, control cable	
65	KYV22	铜芯聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Cu core PE insulated, PVC sheathed, steel tape armored, control cable	
66	KYV32	铜芯聚乙烯绝缘聚氯乙烯护套细钢丝铠装控制电缆 Cu core PE insulated, PVC sheathed, thin steel wire armored, control cable	
67	KYVR	铜芯聚乙烯绝缘聚氯乙烯护套控制软电缆 Cu core PE insulated, PVC sheathed, flexible control cable	
68	KYVRP	铜芯聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制软电缆 Cu core PE insulated, PVC sheathed, copper wire braided screened, flexible control cable	
69	KYVP-22	铜芯聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽钢带铠装控制电缆 Cu core PE insulated, PVC sheathed, copper wire braided screened, steel tape armored, control cable	
70	KYVP2-22	铜芯聚乙烯绝缘聚氯乙烯护套铜带屏蔽钢带铠装控制电缆 Cu core PE insulated, PVC sheathed, copper tape screened, steel tape armored, control cable	
71	KYVP3-32	铜芯聚乙烯绝缘聚氯乙烯护套铝/塑复合带屏蔽钢带铠装控制电缆 Cu core PE insulated, PVC sheathed, Al./plastic compound tape screened, steel tape armored, control cable	

■ 型号说明 Type description

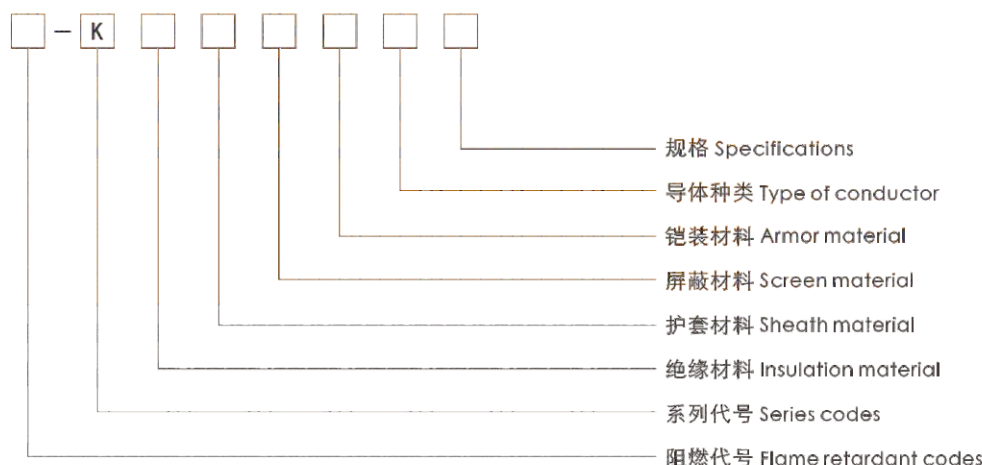


表6 Table6

项目 Items	代号 Codes	说明 Descriptions	
阻燃代号 Flame retardant codes	/	非阻燃可省略	Can be omitted for non-flame retardant
	ZR	阻燃 (一般表示为C级阻燃)	Flame retardant (usually represent for Class C flame retardant)
	ZA	A级阻燃	Class A flame retardant
	ZB	B级阻燃	Class B flame retardant
	ZC	C级阻燃	Class C flame retardant
	DDZ	低卤低烟阻燃	Low halogen low smoke flame retardant
	WDZ	无卤低烟阻燃	Halogen free low smoke flame retardant
系列代号 Series codes	K	控制电缆	Control cable
绝缘材料 Insulation material	V	聚氯乙烯	PVC
	Y	聚乙烯	Polythene
	YJ	交联聚乙烯	XLPE
护套材料 Sheath material	V	聚氯乙烯	PVC
屏蔽材料 Screen material	/	无屏蔽可省略	Can be omitted for non-screened
	P	铜丝编织	Copper wire braided
	P1	镀锡铜丝编织	Tinned copper wire braided
	P2	铜带	Copper tape
	P3	铝塑复合带	Al./plastic compound tape
铠装材料 Armor material	22	钢带铠装	Steel tape armored
	32	细钢丝铠装	Thin steel wire armored
导体种类 Type of conductor	R	多股软导体(A-单导体,B-七股绞合导体) Multi-stranded flexible conductor (A-single conductor, B-conductor stranded by 7 wires)	
规格 Specifications		填写芯数 x 导体截面 (N x S) Fill in core No. x Cross section area(N x S) 芯数 (N) : 2, 3, 4, 5.....61 Core No. (N): 2, 3, 4, 5.....61 截面 (S) : 0.5, 0.75, 1.0, 1.5, 2.5, 4, 6, 10 (mm ²) Section (S): 0.5, 0.75, 1.0, 1.5, 2.5, 4, 6, 10(mm ²)	

例1: 铜芯聚氯乙烯绝缘和护套, 14芯A类导体1.5mm²截面铜带屏蔽的控制电缆表示为: KVP2-14x1.5 (A)
 Example 1: Cu core PVC insulated and sheathed, 14 cores Class A conductor with cross section area of 1.5mm², copper tape screened, control cable can be expressed: KVP2-14X1.5(A)

例2: 铜芯交联聚乙烯绝缘聚氯乙烯护套, 14芯B类导体4.0mm²截面铜丝编织屏蔽控制电缆表示为: KYJVP-14x4 (B)
 Example 2: Cu core XLPE insulated, PVC sheathed, 14 cores Class B conductor with cross section area of 4.0mm², copper wire braided screened, control cable can be expressed: KYJVP-14X4(B)

参数手册 Parameter table

KVV、ZR-KVV、DDZ-KVV、WDZ-KYY、KVVP、ZR-KVVP
 DDZ-KVVP、WDZ-KYYP、KVVP2、ZR-KVVP2、DDZ-KVVP2、WDZ-KYYP2

表7 Table7

芯数 x 截面 Core number x cross section (mm ²)	导体线芯 Core of conductor		电缆最大外径 (mm) Max. outer diam.			计算重量 (kg/km) Calculated weight			70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ · km)
	种类 Type	根数 x 直径 Number x diam. (mm)	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	
2x0.75	A	1/1.05	8.0	9.6	9.2	61	93	75	0.012
	B	7/0.37	8.4	9.8	9.6	70	97	77	0.014
2x1.0	A	1/1.16	8.4	10.0	9.6	69	103	83	0.011
	B	7/0.43	8.8	10.5	10.0	70	104	84	0.013
2x1.5	A	1/1.39	9.4	11.0	10.6	85	138	100	0.011
	B	7/0.53	10.0	11.5	11.2	89	141	115	0.010
2x2.5	A	1/1.79	10.5	12.0	11.6	92	180	133	0.010
	B	7/0.68	11.5	12.5	12.6	101	186	143	0.009
2x4	A	1/2.25	11.5	14.0	12.6	154	230	173	0.0085
	B	7/0.85	12.5	14.5	13.6	197	257	199	0.0077
2x6	A	1/2.74	12.5	15.0	13.6	199	275	222	0.0070
	B	7/1.04	14.0	16.0	15.2	246	312	249	0.0065
2x10	B	7/1.36	17.5	19.0	18.6	373	455	365	0.0065
3x0.75	A	1/1.05	8.4	10.0	9.6	74	102	88	0.012
	B	7/0.37	8.8	10.5	10.4	77	127	92	0.014
3x1.0	A	1/1.16	8.8	10.0	10.4	85	110	99	0.011
	B	7/0.43	9.2	10.5	10.4	86	117	101	0.013
3x1.5	A	1/1.39	9.8	11.5	11.0	107	154	122	0.011
	B	7/0.53	10.5	12.0	11.6	114	158	131	0.010
3x2.5	A	1/1.79	11.0	13.0	12.2	151	205	169	0.010
	B	7/0.68	12.0	13.5	13.2	177	228	183	0.009
3x4	A	1/2.25	12.5	15.0	13.6	205	271	225	0.0085
	B	7/0.68	13.5	15.5	14.8	239	301	253	0.0077
3x6	A	1/2.74	14.0	16.5	15.2	291	312	314	0.0070
	B	7/1.04	15.0	17.0	16.2	308	378	324	0.0065
3x10	B	7/1.36	18.5	20.0	19.8	473	561	489	0.0065
4x0.75	A	1/1.05	9.0	10.5	10.2	82	118	102	0.012
	B	7/0.37	9.6	11.0	10.8	92	133	108	0.014
4x1.0	A	1/1.16	9.4	11.5	10.6	102	148	117	0.011
	B	7/0.43	10.0	11.5	11.2	103	148	119	0.013
4x1.5	A	1/1.39	10.5	12.0	11.6	133	184	150	0.011
	B	7/0.53	11.5	12.5	12.6	137	188	155	0.010
4x2.5	A	1/1.79	12.0	14.5	13.2	194	251	214	0.010
	B	7/0.68	13.0	15.0	14.2	221	279	224	0.009
4x4	A	1/2.25	14.0	16.0	15.2	278	356	300	0.0085
	B	7/0.85	15.0	16.5	16.2	298	368	312	0.0077
4x6	A	1/2.74	15.0	17.5	16.2	367	447	392	0.0070
	B	7/1.04	16.5	18.0	17.8	389	467	405	0.0065
4x10	B	7/1.36	20.0	22.0	21.2	606	702	620	0.0065
5x0.75	A	1/1.05	9.6	11.0	10.8	102	149	118	0.012
	B	7/0.37	10.5	11.5	11.8	108	154	125	0.014
5x1.0	A	1/1.16	10.0	12.0	11.2	121	172	138	0.011
	B	7/0.43	11.0	12.0	12.2	122	175	139	0.013
5x1.5	A	1/1.39	11.5	13.0	12.8	157	217	175	0.011
	B	7/0.53	12.5	13.5	13.2	165	223	185	0.010
5x2.5	A	1/1.79	14.0	16.0	15.2	246	319	263	0.010
	B	7/0.68	14.5	16.5	15.8	271	336	288	0.009
5x4	A	1/2.25	15.0	17.5	16.2	334	418	358	0.0085
	B	7/0.85	16.5	18.5	18.0	356	433	372	0.0077

KVV、ZR-KVV、DDZ-KVV、WDZ-KYY、KVVP、ZR-KVVP
 DDZ-KVVP、WDZ-KYYP、KVVP2、ZR-KVVP2、DDZ-KVVP2、WDZ-KYYP2

续表7 Continue with table7

芯数×截面 Core number × cross section (mm ²)	导体线芯 Core of conductor		电缆最大外径 (mm) Max. outer diam.			计算重量 (kg/km) Calculated weight			70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ·km)
	种类 Type	根数×直径 Number × diam. (mm)	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	
5×6	A	1/2.74	16.5	19.0	18.0	444	531	471	0.0070
	B	7/1.04	18.0	19.5	19.2	468	553	487	0.0065
5×10	B	7/1.36	22.5	24.0	23.8	755	849	773	0.0065
7×0.75	A	1/1.05	10.5	12.0	11.6	128	177	145	0.012
	B	7/0.37	11.0	12.5	12.2	135	186	153	0.014
7×1.0	A	1/1.16	11.0	13.0	12.2	153	205	171	0.011
	B	7/0.43	11.5	13.0	12.6	155	208	174	0.013
7×1.5	A	1/1.39	12.5	14.5	13.6	204	263	224	0.011
	B	7/0.53	13.5	15.0	14.6	212	272	234	0.010
7×2.5	A	1/1.79	15.0	17.0	16.2	317	389	341	0.010
	B	7/0.68	16.0	17.5	17.2	341	413	367	0.009
7×4	A	1/2.25	16.5	18.5	17.6	447	518	473	0.0085
	B	7/0.85	17.5	19.0	18.6	455	538	483	0.0077
7×6	A	1/2.74	18.0	20.5	19.2	589	676	618	0.0070
	B	7/1.04	19.5	21.0	20.5	607	700	638	0.0065
7×10	B	7/1.36	24.0	26.0	25.0	994	1106	1033	0.0065
8×0.75	A	1/1.05	11.5	13.0	13.2	143	197	161	0.012
	B	7/0.37	12.0	13.5	13.8	152	206	171	0.014
8×1.0	A	1/1.16	12.0	14.5	13.8	171	229	190	0.011
	B	7/0.43	13.0	15.0	14.8	175	234	195	0.013
8×1.5	A	1/1.39	14.5	16.5	15.6	247	315	269	0.011
	B	7/0.53	15.5	17.0	16.6	258	328	281	0.010
8×2.5	A	1/2.79	16.5	18.5	17.6	357	438	382	0.010
	B	7/0.68	17.5	19.0	18.6	385	464	413	0.009
8×4	A	1/2.25	18.0	21.0	19.2	492	584	518	0.0085
	B	7/0.68	19.5	21.5	20.8	523	611	550	0.0077
8×6	A	1/2.74	20.0	23.5	21.2	684	785	716	0.0070
	B	7/1.04	22.0	24.0	23.2	712	817	740	0.0065
8×10	B	7/1.36	27.0	29.0	28.2	1129	1261	1159	0.0065
10×0.75	A	1/1.05	12.5	14.5	14.0	174	235	195	0.012
	B	7/0.37	13.5	15.0	15.0	187	247	209	0.014
10×1.0	A	1/1.16	11.5	15.5	15.2	229	296	251	0.011
	B	7/0.43	12.0	16.0	16.2	233	303	256	0.013
10×1.5	A	1/1.39	13.5	18.0	17.2	302	383	327	0.011
	B	7/0.53	14.0	18.5	18.2	316	395	343	0.010
10×2.5	A	1/1.79	15.5	21.0	19.0	437	528	467	0.010
	B	7/0.68	16.0	21.5	21.0	461	562	493	0.009
10×4	A	1/2.25	18.0	23.5	21.5	629	733	663	0.0085
	B	7/0.85	18.5	24.0	23.5	652	752	688	0.0077
10×6	A	1/2.74	19.5	26.5	23.5	846	957	883	0.0070
	B	7/1.04	20.5	27.0	26.5	871	996	911	0.0065
10×10	B	7/1.36	25.5	32.5	31.5	1375	1541	1425	0.0065
12×0.75	A	1/1.05	11.5	15.5	14.5	218	285	240	0.012
	B	7/0.37	11.5	16.0	15.5	232	299	255	0.014
12×1.0	A	1/1.16	12.0	16.5	15.5	259	330	282	0.011
	B	7/0.43	12.5	17.0	16.5	266	337	290	0.013
12×1.5	A	1/1.39	16.5	18.5	17.5	346	425	372	0.011
	B	7/0.53	17.5	19.0	18.0	361	444	389	0.010

KVV、ZR-KVV、DDZ-KVV、WDZ-KYY、KVVP、ZR-KVVP
 DDZ-KVVP、WDZ-KYYP、KVVP2、ZR-KVVP2、DDZ-KVVP2、WDZ-KYYP2

续表7 Continue with table 7

芯数×截面 Core number x cross section (mm ²)	导体线芯 Core of conductor		电缆最大外径 (mm) Max. outer diam.			计算重量 (kg/km) Calculated weight			70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ·km)
	种类 Type	根数×直径 Number x diam. (mm)	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	
12x2.5	A	1/1.79	19.0	22.0	20.5	505	559	536	0.010
	B	7/0.68	20.3	22.5	22.0	544	638	578	0.009
12x4	A	1/2.25	21.5	24.5	23.0	729	838	764	0.0085
	B	7/0.68	23.0	25.0	24.0	756	871	793	0.0077
12x6	A	1/2.74	23.5	27.0	24.5	987	1103	1025	0.0070
	B	7/1.04	26.0	27.5	27.0	1017	1145	1058	0.0065
14x0.75	A	1/1.05	14.5	16.5	15.0	243	314	266	0.012
	B	7/0.37	15.0	17.0	15.5	260	330	284	0.014
14x1.0	A	1/1.16	15.0	17.0	15.5	292	366	316	0.011
	B	7/0.43	16.0	17.5	16.5	293	373	318	0.013
14x1.5	A	1/1.39	17.0	19.5	17.5	391	475	419	0.011
	B	7/0.53	18.5	20.0	19.0	400	495	429	0.010
14x2.5	A	1/1.79	19.5	23.0	20.5	576	674	609	0.010
	B	7/0.68	21.5	23.5	22.5	619	719	654	0.009
14x4	A	1/2.25	22.5	25.5	23.0	834	947	870	0.0085
	B	7/0.85	24.5	26.0	25.0	863	984	902	0.0077
14x6	A	1/2.74	24.5	28.5	25.0	1241	1254	1203.9	0.0070
	B	7/1.04	27.0	29.0	27.0	1168	1304	1255	0.0065
16x0.75	A	1/1.05	15.0	17.0	15.5	271	343	295	0.012
	B	7/0.37	16.0	17.5	16.5	288	362	314	0.014
16x1.0	A	1/1.16	15.5	18.0	16.0	326	404	352	0.011
	B	7/0.43	17.0	18.5	17.5	334	412	361	0.013
16x1.5	A	1/1.39	18.0	20.5	18.5	438	526	467	0.011
	B	7/0.53	19.5	21.5	20.0	450	549	481	0.010
16x2.5	A	1/1.79	21.0	23.5	21.5	668	773	702	0.010
	B	7/0.68	23.0	24.0	23.5	718	826	755	0.009
19x0.75	A	1/1.05	15.5	17.5	16.0	309	384	334	0.012
	B	7/0.37	16.5	18.0	17.0	329	401	356	0.014
19x1.0	A	1/1.16	16.5	18.5	17.0	373	454	400	0.011
	B	7/0.43	17.5	19.0	18.0	383	465	411	0.013
19x1.5	A	1/1.39	19.0	22.0	19.5	504	597	535	0.011
	B	7/0.53	20.5	22.5	21.0	527	623	560	0.010
19x2.5	A	1/1.79	22.0	25.0	22.5	772	884	808	0.010
	B	7/0.68	24.0	25.5	24.5	830	944	869	0.009
24x0.75	A	1/1.05	18.0	20.0	18.5	379	467	408	0.012
	B	7/0.37	19.0	20.5	19.5	404	497	435	0.014
24x1.0	A	1/1.16	19.0	21.5	20.0	459	554	490	0.011
	B	7/0.43	20.5	22.0	21.5	472	569	505	0.013
24x1.5	A	1/1.39	22.0	25.0	22.5	540	757	678	0.011
	B	7/0.53	24.0	25.5	24.5	665	793	704	0.010
24x2.5	A	1/1.79	25.5	28.0	26.0	960	1092	1003	0.010
	B	7/0.68	28.0	29.5	28.5	1014	1167	1060	0.009
27x0.75	A	1/1.05	18.0	20.0	19.0	415	505	445	0.012
	B	7/0.37	19.5	21.0	20.5	442	536	474	0.014
27x1.0	A	1/1.16	19.0	22.0	20.0	525	653	557	0.011
	B	7/0.43	20.5	22.5	21.5	531	668	578	0.013
27x1.5	A	1/1.39	22.5	26.0	23.0	711	824	748	0.011
	B	7/0.53	24.5	26.0	25.0	739	863	779	0.010

KVV, ZR-KVV, DDZ-KVV, WDZ-KYY, KVVP, ZR-KVVP
 DDZ-KVVP, WDZ-KYYP, KVVP2, ZR-KVVP2, DDZ-KVVP2, WDZ-KYYP2

续表7 Continue with table7

芯数 × 截面 Core number x cross section (mm ²)	导体线芯 Core of conductor		电缆最大外径 (mm) Max. outer diam.			计算重量 (kg/km) Calculated weight			70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ · km)
	种类 Type	根数 × 直径 Number x diam. (mm)	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	KVV ZR-KVV DDZ-KVV WDZ-KYY	KVVP ZR-KVVP DDZ-KVVP WDZ-KYYP	KVVP2 ZR-KVVP2 DDZ-KVVP2 WDZ-KYYP2	
27x2.5	A	1/1.79	26.0	30.0	26.6	1061	1194	1105	0.010
	B	7/0.68	28.5	30.5	29.0	1140	1278	1187	0.009
30x0.75	A	1/1.05	19.0	21.5	19.5	452	546	508	0.012
	B	7/0.37	20.0	22.0	20.5	483	581	559	0.014
30x1.0	A	1/1.16	20.5	23.0	21.0	582	674	603	0.011
	B	7/0.43	22.0	23.5	22.5	601	693	620	0.013
30x1.5	A	1/1.39	23.0	26.5	23.5	776	895	816	0.011
	B	7/0.53	25.0	27.0	25.5	811	937	852	0.010
30x2.5	A	1/1.79	27.0	31.0	27.5	1165	1304	1210	0.010
	B	7/0.68	29.5	31.5	30.0	1235	1393	1284	0.009
37x0.75	A	1/1.05	20.5	23.0	21.0	558	662	591	0.012
	B	7/0.37	22.0	23.5	22.5	600	709	635	0.014
37x1.0	A	1/1.16	21.5	24.5	22.0	681	792	717	0.011
	B	7/0.43	23.5	25.0	24.0	700	814	737	0.013
37x1.5	A	1/1.39	25.0	28.0	25.5	932	1059	973	0.011
	B	7/0.53	27.0	29.0	27.5	975	1111	1020	0.010
37x2.5	A	1/1.79	29.0	33.0	30.0	1405	1557	1453	0.010
	B	7/0.68	31.5	34.0	32.5	1520	1666	1573	0.009
44x0.75	A	1/1.05	23.0	26.0	23.5	654	769	691	0.012
	B	7/0.37	24.5	26.5	25.0	698	822	737	0.014
44x1.0	A	1/1.16	24.0	27.0	25.5	789	923	838	0.011
	B	7/0.43	26.0	28.0	27.5	821	950	863	0.013
44x1.5	A	1/1.39	28.0	31.0	29.5	1095	1238	1141	0.011
	B	7/0.53	30.5	32.0	32.0	1147	1299	1197	0.010
44x2.5	A	1/1.79	33.5	38.0	35.5	1702	1875	1756	0.010
	B	7/0.68	36.0	38.5	38.5	1831	2011	1891	0.009
48x0.75	A	1/1.05	23.0	26.0	24.0	700	816	739	0.012
	B	7/0.37	25.0	26.5	25.5	747	873	787	0.014
48x1.0	A	1/1.16	24.5	27.0	25.5	858	985	899	0.011
	B	7/0.43	26.5	28.0	27.5	872	1014	924	0.013
48x1.5	A	1/1.39	28.5	32.0	29.5	1180	1324	1227	0.011
	B	7/0.53	31.0	32.5	32.0	1234	1392	1285	0.010
48x2.5	A	1/1.79	34.0	38.0	35.5	1840	2019	1896	0.010
	B	7/0.68	37.0	39.0	38.5	1975	2159	2036	0.009
52x0.75	A	1/1.05	23.5	27.0	24.0	750	871	789	0.012
	B	7/0.37	25.0	27.5	25.5	801	931	841	0.014
52x1.0	A	1/1.16	25.0	28.0	25.5	918	1049	960	0.011
	B	7/0.43	27.0	29.0	27.5	845	1081	989	0.013
52x1.5	A	1/1.39	29.0	33.0	30.0	1268	1418	1317	0.011
	B	7/0.53	31.5	34.0	32.5	1326	1486	1378	0.010
52x2.5	A	1/1.79	35.0	40.0	36.0	1974	2156	2032	0.010
	B	7/0.68	38.0	40.5	39.0	2124	2310	2186	0.009
61x0.75	A	1/1.05	25.0	28.5	25.5	960	989	892	0.012
	B	7/0.37	27.0	29.0	27.5	920	1057	946	0.014
61x1.0	A	1/1.16	26.5	30.0	27.0	1057	1195	1101	0.011
	B	7/0.43	28.5	30.5	29.0	1088	1231	1134	0.013
61x1.5	A	1/1.39	31.5	35.0	32.0	1507	1671	1558	0.011
	B	7/0.53	34.0	36.0	34.5	1576	1754	1631	0.010
61x2.5	A	1/1.79	37.5	42.0	38.0	2317	2515	2450	0.010
	B	7/0.68	40.5	42.5	41.0	2492	2695	2620	0.009

KVV22、ZR-KVV22、DDZ-KVV22、WDZ-KYY23、KVVP2/22、ZR-KVVP2/22、DDZ-KVVP2/22、WDZ-KYYP2/23

表8 Table8

芯数×截面 Core number x cross section (mm ²)	导体线芯 Core of conductor		电缆最大外径 (mm) Max. outer diam.		计算重量 (kg/km) Calculated weight		70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ·km)
	种类 Type	根数×直径 Number x diam. (mm)	KVV22 ZR-KVV22 DDZ-KVV22 WDZ-KYY23	KVVP2/22 ZR-KVVP2/22 DDZ-KVVP2/22 WDZ-KYYP2/23	KVV22 ZR-KVV22 DDZ-KVV22 WDZ-KYY23	KVVP2/22 ZR-KVVP2/22 DDZ-KVVP2/22 WDZ-KYYP2/23	
2x1.5	A	1/1.39	14.5	15.5	237	248	0.011
2x2.5	A	1/1.79	15.5	16.5	289	301	0.010
2x4	A	1/2.25	16.5	17.5	346	361	0.0085
2x6	A	1/2.74	17.5	18.5	406	413	0.0070
2x10	A	7/1.36	22.0	23.5	608	613	0.0065
3x1.5	A	1/1.39	15.5	16.0	255	267	0.011
3x2.5	A	1/1.79	16.0	17.0	321	335	0.010
3x4	A	1/2.25	17.5	18.5	394	410	0.0085
3x6	A	1/2.74	19.0	20.5	475	483	0.0070
3x10	A	7/1.36	23.5	24.5	573	746	0.0065
4x0.75	A	1/1.05	15.0	15.8	223	233	0.012
4x1.0	A	1/1.36	15.5	16.3	248	259	0.011
4x1.5	A	1/1.39	16.0	16.8	292	305	0.011
4x2.5	A	1/1.79	17.0	17.8	371	387	0.010
4x4	A	1/2.25	18.5	19.3	465	483	0.0085
4x6	A	1/2.74	19.0	19.8	568	576	0.0070
4x10	A	7/1.36	25.0	25.8	875	902	0.0065
5x0.75	A	7/1.05	16.5	17.3	250	262	0.012
5x1.0	A	1/1.36	17.0	17.8	278	291	0.011
5x1.5	A	1/1.39	17.5	18.3	331	346	0.011
5x2.5	A	1/1.79	18.0	18.8	426	444	0.010
5x4	A	1/2.25	19.5	20.3	533	553	0.0085
5x6	A	1/2.74	21.5	22.3	682	691	0.0070
5x10	A	1/1.36	26.5	27.3	1014	1045	0.0065
7x0.75	A	1/1.05	15.5	16.3	292	305	0.012
7x1.0	A	1/1.16	16.0	16.8	347	352	0.011
7x1.5	A	1/1.39	17.5	18.3	384	400	0.011
7x2.5	A	1/1.79	19.0	19.8	503	522	0.010
7x4	A	1/2.25	20.5	21.3	643	665	0.0085
7x6	A	1/2.74	22.5	23.3	836	844	0.0070
7x10	B	7/1.36	28.5	29.3	1283	1317	0.0065
8x0.75	A	1/1.05	16.5	17.3	309	323	0.012
8x1.0	A	1/1.16	17.0	17.5	347	362	0.011
8x1.5	A	1/1.39	18.5	19.0	422	440	0.011
8x2.5	A	1/1.79	21.0	21.5	559	580	0.010
8x4	A	1/2.25	23.0	23.5	739	763	0.0085
8x6	A	1/2.74	24.5	25.0	966	975	0.0070
8x10	A	7/1.36	31.5	32.0	1450	1487	0.0065
10x0.75	A	1/1.05	18.0	18.5	391	400	0.012
10x1.0	A	1/1.16	18.5	19.0	467	472	0.011
10x1.5	A	1/1.39	20.5	21.0	500	521	0.011
10x2.5	A	1/1.79	23.0	23.5	689	715	0.010
10x4	A	1/2.25	25.0	25.5	887	916	0.0085
10x6	A	1/2.74	27.0	27.5	1229	1240	0.0070
10x10	B	7/1.36	35.0	35.8	1809	1854	0.0065
12x0.75	A	1/1.05	18.0	18.5	390	408	0.012
12x1.0	A	1/1.16	19.0	19.5	443	462	0.011
12x1.5	A	1/1.39	20.5	21.0	548	570	0.011

KVV22、ZR-KVV22、DDZ-KVV22、WDZ-KYY23、
 KVV22/22、ZR-KVV22/22、DDZ-KVV22/22、WDZ-KYY22/23

续表8 Continue with table8

芯数 × 截面 Core number x cross section (mm ²)	导体线芯 Core of conductor		电缆最大外径 (mm) Max. outer diam.		计算重量 (kg/km) Calculated weight		70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ · km)
	种类 Type	根数 × 直径 Number x diam. (mm)	KVV22 ZR-KVV22 DDZ-KVV22 WDZ-KYY23	KVV22/22 ZR-KVV22/22 DDZ-KVV22/22 WDZ-KYY22/23	KVV22 ZR-KVV22 DDZ-KVV22 WDZ-KYY23	KVV22/22 ZR-KVV22/22 DDZ-KVV22/22 WDZ-KYY22/23	
12x2.5	A	1/1.79	23.5	24.0	763	790	0.010
12x4	A	1/2.25	25.5	26.0	1095	1110	0.0085
12x6	A	1/2.74	28.0	28.5	1280	1290	0.0070
14x0.75	A	1/1.05	18.5	19.0	523	528	0.012
14x1.0	A	1/1.16	19.5	20.0	583	589	0.011
14x1.5	A	1/1.39	22.0	22.5	660	670	0.011
14x2.5	A	1/1.79	24.5	25.0	846	874	0.010
14x4	A	1/2.25	26.5	27.0	1112	1144	0.0085
14x6	A	1/2.74	29.0	29.5	1550	1560	0.0070
16x0.75	A	1/1.05	19.5	20.0	557	565	0.012
16x1.0	A	1/1.16	20.0	20.5	625	630	0.011
16x1.5	A	1/1.39	22.5	23.0	784	789	0.011
16x2.5	A	1/1.79	25.5	26.0	962	969	0.010
19x0.75	A	1/1.05	20.0	20.5	604	609	0.012
19x1.0	A	1/1.16	21.5	22.0	701	710	0.011
19x1.5	A	1/1.39	23.5	24.0	861	869	0.011
19x2.5	A	1/1.79	26.5	27.0	1051	1082	0.010
24x0.75	A	1/1.05	22.5	23.0	725	730	0.012
24x1.0	A	1/1.16	23.5	24.0	822	832	0.011
24x1.5	A	1/1.39	26.5	27.0	1020	1029	0.011
24x2.5	A	1/1.79	30.0	30.5	1380	1389	0.010
27x0.75	A	1/1.05	23.0	23.5	664	689	0.012
27x1.0	A	1/1.16	24.0	24.5	795	823	0.011
27x1.5	A	1/1.39	27.0	27.5	988	1020	0.011
27x2.5	A	1/1.79	30.5	31.0	1391	1430	0.010
20x0.75	A	1/1.05	23.5	24.0	810	718	0.012
30x1.0	A	1/1.16	24.5	25.0	928	935	0.011
30x1.5	A	1/1.39	27.5	28.0	1171	1180	0.011
30x2.5	A	1/1.79	31.5	32.0	1505	1546	0.010
37x0.75	A	1/1.05	25.0	25.5	914	920	0.012
37x1.0	A	1/1.16	26.0	26.5	1055	1070	0.011
37x1.5	A	1/1.39	29.5	30.0	1342	1350	0.011
37x2.5	A	1/1.79	35.0	35.5	2150	2194	0.010
44x0.75	A	1/1.05	27.0	27.5	1037	1040	0.012
44x1.0	A	1/1.16	28.5	29.0	1203	1210	0.011
44x1.5	A	1/1.39	33.0	33.5	1487	1529	0.011
44x2.5	A	1/1.79	39.0	39.5	2511	256	0.010
48x0.75	A	1/1.05	27.5	28.0	1086	1090	0.012
48x1.0	A	1/1.16	29.0	29.5	1268	1275	0.011
48x1.5	A	1/1.39	34.0	34.5	1900	1943	0.011
48x2.5	A	1/1.79	39.5	40.0	2675	2727	0.010
52x0.75	A	1/1.05	28.0	28.5	1547	1155	0.012
52x1.0	A	1/1.16	29.5	30.0	1337	1345	0.011
52x1.5	A	1/1.39	25.5	36.0	2032	2077	0.011
52x2.5	A	1/1.79	40.5	41.0	2827	2881	0.010
61x0.75	A	1/1.05	29.5	30.0	1297	1300	0.012
61x1.0	B	1/1.16	31.0	31.5	1391	1431	0.011
61x1.5	A	1/1.39	36.5	37.0	2270	2317	0.011
61x2.5	A	1/1.79	42.5	43.0	3188	3245	0.010

KVVVP、ZR-KVVVP、DDZ-KVVVP、WDZ-KYYRP、KVVR、ZR-KVVR、DDZ-KVVR、WDZ-KYYR

表9 Table9

芯数×标称 截面mm ² Core number × nominal cross section	导线线芯 Core of conductor		电缆最大外径 (mm) Max. outer diam.		计算重量(kg/km) Calculated weight		70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ · km)
	种类 Type	根数 × 直径 Number × diam. (mm)	KVVVP ZR-KVVVP DDZ-KVVVP WDZ-KYYRP	KVVR ZR-KVVR DDZ-KVVR WDZ-KYYR	KVVVP ZR-KVVVP DDZ-KVVVP WDZ-KYYRP	KVVR ZR-KVVR DDZ-KVVR WDZ-KYYR	
4x0.5	R	16/0.20	10.5	9.0	109	79	0.013
4x0.75	R	24/0.20	11.0	9.4	139	99	0.011
4x1.0	R	32/0.20	11.5	11.0	155	173	0.010
4x1.5	R	30/0.25	12.5	11.5	194	145	0.010
4x2.5	R	50/0.25	15.0	13.0	264	201	0.009
5x0.5	R	16/0.20	11.0	9.6	136	92	0.013
5x0.75	R	24/0.20	11.5	10.5	161	119	0.011
5x1.0	R	32/0.20	12.0	11.0	184	132	0.010
5x1.5	R	30/0.25	13.5	12.0	231	171	0.010
5x2.5	R	50/0.25	16.0	11.5	343	262	0.009
7x0.5	R	16/0.20	11.5	10.5	160	115	0.013
7x0.75	R	24/0.25	12.5	11.0	195	147	0.011
7x1.0	R	32/0.20	13.0	11.5	221	170	0.010
7x1.5	R	30/0.25	15.0	13.0	287	222	0.010
7x2.5	R	50/0.25	17.5	16.0	412	339	0.009
8x0.5	R	16/0.20	13.0	11.5	178	128	0.013
8x0.75	R	24/0.20	13.5	12.0	218	167	0.011
8x1.0	R	32/0.20	15.0	13.0	247	190	0.010
8x1.5	R	30/0.25	17.0	15.0	339	270	0.010
8x2.5	R	50/0.25	19.0	17.5	464	381	0.009
10x0.5	R	16/0.20	14.5	12.5	211	156	0.013
10x0.75	R	24/0.20	15.5	13.5	261	200	0.011
10x1.0	R	32/0.20	16.5	15.0	321	251	0.010
10x1.5	R	30/0.25	18.5	17.0	408	329	0.010
10x2.5	R	50/0.25	21.0	19.5	561	467	0.009
12x0.5	R	16/0.20	15.0	13.0	234	175	0.013
12x0.75	R	24/0.20	16.0	14.5	315	249	0.011
12x1.0	R	32/0.25	17.0	15.5	358	288	0.010
12x1.5	R	30/0.25	19.0	17.0	464	377	0.010
12x2.5	R	50/0.25	22.5	20.5	637	540	0.009
14x0.5	R	16/0.20	16.0	13.5	259	198	0.013
14x0.75	R	24/0.20	16.5	15.0	350	281	0.011
14x1.0	R	32/0.20	17.5	16.0	398	324	0.010
14x1.5	R	30/0.25	20.0	18.0	515	427	0.010
14x2.5	R	50/0.25	23.0	21.0	718	617	0.009
16x0.5	R	16/0.20	16.5	15.0	309	241	0.013
16x0.75	R	24/0.20	17.5	16.0	384	312	0.011
16x1.0	R	32/0.20	18.5	17.0	439	361	0.010
16x1.5	R	30/0.25	20.5	19.0	569	477	0.010
16x2.5	R	50/0.25	24.5	23.0	824	707	0.009
19x0.5	R	16/0.20	17.0	15.5	345	274	0.013
19x0.75	R	24/0.20	18.0	16.5	434	355	0.011
19x1.0	R	32/0.20	19.0	17.5	497	413	0.010
19x1.5	R	30/0.25	22.0	20.0	648	551	0.010
19x2.5	R	50/0.25	25.0	24.0	943	862	0.009
24x0.5	R	16/0.20	19.5	18.0	414	331	0.013
24x0.75	R	24/0.20	20.5	19.0	530	441	0.011
24x1.0	R	32/0.20	22.0	20.0	609	511	0.010
24x1.5	R	30/0.25	25.0	23.5	820	706	0.010

KVV RP、ZR-KVV RP、DDZ-KVV RP、WDZ-KYY RP、KVV R、ZR-KVV R、DDZ-KVV R、WDZ-KYY R

续表9 Continue with table9

芯数×截面 Core number x cross section (mm ²)	导体线芯 core of conductor		电缆最大外径 (mm) Max. outer diam.		计算重量 (kg/km) Calculated weight		70℃时最小 绝缘电阻 Min. insulation resistance at 70℃ (MΩ·km)
	种类 Type	根数×直径 Number x diam. (mm)	KVV RP ZR-KVV RP DDZ-KVV RP WDZ-KYY RP	KVV R ZR-KVV R DDZ-KVV R WDZ-KYY R	KVV RP ZR-KVV RP DDZ-KVV RP WDZ-KYY RP	KVV R ZR-KVV R DDZ-KVV R WDZ-KYY R	
24x2.5	R	50/0.25	29.5	27.5	1165	1027	0.009
24x0.5	R	16/0.20	19.5	18.0	449	366	0.013
24x0.75	R	24/0.20	21.0	19.5	576	483	0.011
27x1.0	R	32/0.20	22.5	20.5	661	562	0.010
27x1.5	R	30/0.25	25.5	24.0	896	777	0.010
27x2.5	R	50/0.25	30.0	28.5	1275	1135	0.009
30x0.5	R	16/0.20	20.5	18.5	485	398	0.013
30x0.75	R	24/0.20	22.0	20.0	623	527	0.011
30x1.0	R	32/0.20	23.5	21.5	743	637	0.010
30x1.5	R	30/0.25	27.0	25.0	974	849	0.010
30x2.5	R	50/0.25	31.0	29.5	1391	1245	0.009
37x0.5	R	16/0.20	22.0	20.0	567	471	0.013
37x0.75	R	24/0.20	23.5	21.5	758	652	0.011
37x1.0	R	32/0.20	25.0	23.5	873	759	0.010
37x1.5	R	30/0.25	28.5	27.0	1152	1019	0.010
37x2.5	R	50/0.25	34.0	31.5	1163	1505	0.009
44x0.5	R	16/0.20	24.5	22.5	683	573	0.013
44x0.75	R	24/0.20	26.0	24.5	883	765	0.011
44x1.0	R	32/0.20	27.5	36.0	1021	891	0.010
44x1.5	R	30/0.25	32.0	30.0	1351	1198	0.010
44x2.5	R	50/0.25	38.0	36.0	2008	1823	0.009
48x0.5	R	16/0.20	24.5	23.0	724	613	0.013
48x0.75	R	24/0.20	26.5	25.0	741	820	0.011
48x1.0	R	32/0.20	28.0	26.5	1089	958	0.010
48x1.5	R	30/0.25	32.0	30.5	1447	1294	0.010
48x2.5	R	50/0.25	38.5	36.5	2153	1964	0.009
52x0.5	R	16/0.20	25.0	23.5	770	655	0.013
52x0.75	R	24/0.20	27.0	25.5	1004	879	0.011
52x1.0	R	32/0.20	29.0	27.0	1163	1027	0.010
52x1.5	R	30/0.25	33.0	31.0	1546	1386	0.010
52x2.5	R	50/0.25	39.5	37.5	2304	2113	0.009
61x0.5	R	16/0.20	27.0	25.0	872	750	0.013
61x0.5	R	24/0.20	28.5	27.0	1142	1011	0.011
61x0.5	R	32/0.20	30.5	28.5	1326	1182	0.010
61x0.5	R	30/0.25	35.5	33.5	1823	1650	0.010
61x0.5	R	50/0.25	42.5	40.5	2660	2479	0.009

注：低烟低卤、无卤低烟电缆比普通电缆稍重一些。

Note: Low smoke low halogen cables and halogen free low smoke cables are a little heavier than general ones.