



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

产品用途

本产品适用于交流额定电压450/750V及以下自动控制系统或监控系统，电气仪表连接等场合应用。

产品执行标准

GB/T 9330-2008

使用特性

1. 额定电压U₀/U为450/750V；
2. 电缆导体的长期允许工作温度为70℃；
3. 电缆安装敷设温度应不低于0℃
4. 电缆允许弯曲半径：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；有屏蔽层的软电缆，应不小于电缆外径的6倍。

Application

This product is applied for transmission line in automatic control or monitoring system, electrical instrument connection and other occasions of rated voltage up to and including ac 450/750V.

Executive standard

GB/T 9330-2008

Service Property

1. The rated voltage U₀/U of the cable should be 450/750V.
2. Allowed long-term operating temperature of cable conductor should be 70°C.
3. Cable laying temperature should be not less than 0°C.
4. Recommended allowable bending radius: For non-armored cable should be not less than 6 times outer diameter of the cable; For armored or copper tape shielded structure cable should be not less than 12 times outer diameter of the cable; For flexible cable with shielded structure should be not less than 6 times outer diameter of the cable.

基本型号及名称 Type and description

型号Type	名称Description
KVV	聚氯乙烯绝缘聚氯乙烯护套控制电缆 PVC insulated PVC sheathed control cable
KVVP	聚氯乙烯绝缘聚氯乙烯护套铜丝屏蔽控制电缆 PVC insulated PVC sheathed copper wire braided shielded control cable
KVV22	聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 PVC insulated PVC sheathed steel tape armored control cable
KVV23	聚氯乙烯绝缘聚氯乙烯护套铝-聚乙烯复合带铠装控制电缆 PVC insulated PVC sheathed aluminum polyester composite film wrapped armored control cable
KVV22-22	聚氯乙烯绝缘聚氯乙烯护套钢带铠装屏蔽控制电缆 PVC insulated PVC sheathed steel tape armored shielded control cable
KVV32	聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆 PVC insulated PVC sheathed thin steel wire armored control cable
KVVR	聚氯乙烯绝缘聚氯乙烯护套软控制电缆 PVC insulated PVC sheathed flexible control cable
KVVRP	聚氯乙烯绝缘聚氯乙烯护套铜丝屏蔽软控制电缆 PVC insulated PVC sheathed copper wire braided shielded flexible control cable

代号名称和含义 Code and meaning

项目 Item	代号 Code	说明 Description
系列代号 Series coding	K	控制电缆 Control cable
	Z(A/B/C)	阻燃 Non flame retardant
	Z(A/B/C)	阻燃(A/B/C)级 Flame retardant grade(A/B/C)
燃烧特性 Burning characteristic	N	耐火 Fire resistant
	DDZ	低烟低卤阻燃 Low smoke low halogen flame retardant
	—	第1种或第2种铜导体 Class 1 and 2 copper conductor
导体 Conductor	R	铜导体 Copper conductor
	L	铝导体 Aluminum conductor
	—	—
绝缘 Insulation	V	聚氯乙烯绝缘 PVC insulation
	Y	聚乙烯绝缘 PE insulation
护套或铠装 Sheath or armor sheath	V	聚氯乙烯护套 PVC sheath
	P	铜丝屏蔽屏蔽 Copper wire braided shield
屏蔽 Shield	P2	铜带屏蔽 Copper tape wrapped shield
	P3	铝-聚乙烯复合带屏蔽 Aluminum polyester composite film
	—	—
铠装 Armor	2	钢带铠装 Steel tape armor
	3	钢丝铠装 Steel wire armor
外护套 Outer sheath	2	聚氯乙烯护套 PVC sheath

主要技术指标

1. 20℃时导体直流电阻符合GB/T3956规定
2. 绝缘电阻常数不小于1500MQ.km
3. 成缆电缆交流3.0kV/5min耐压试验不击穿

Main technical index

1. Conductor d.c. resistance at 20 °C complies with stipulations of GB/T3956.
2. Insulation resistance constant should be not less than 1500MQ.km.
3. Cable withstand ac 3.0kV for 5 minutes without puncture.

基本电缆规格和结构参数 Cable specification and structural parameter

芯数×标称截面 Number of cores × nominal cross section area (mm ²)	电缆参考外径(mm) Cable reference diameter			电缆参考重量(kg/km) Cable reference weight		
	KVV	KVVP	KVV22	KVV	KVVP	KVV22
2×0.75	7.4	7.7	—	66	84	—
2×1.0	7.6	7.9	—	73	92	—
2×1.5	8.6	8.9	—	94	116	—
2×2.5	9.8	10.1	—	125	151	—
2×4	10.8	11.1	—	164	193	—
2×6	11.8	12.1	—	212	244	—
3×0.75	7.8	8.1	—	81	100	—
3×1.0	8.0	8.3	—	91	111	—
3×1.5	9.0	9.3	—	118	141	—



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芯数×标称截面 Number of cores × nominal cross section area (mm ²)	电缆参考外径(mm) Cable reference diameter			电缆参考重量(kg/km) Cable reference weight		
	KVV	KVVP	KVV22	KVV	KVVP	KVV22
3×2.5	10.3	10.6	—	161	189	—
3×4	11.4	11.7	—	217	248	—
3×6	12.5	13.4	—	285	338	—
4×0.75	8.3	8.6	—	96	117	—
4×1.0	8.6	8.9	—	109	131	—
4×1.5	9.8	10.1	12.0	144	170	239
4×2.5	11.2	11.5	13.4	201	231	309
4×4	12.4	13.3	14.6	273	325	393
4×6	14.2	14.7	15.8	381	436	493
5×0.75	8.9	9.2	—	112	135	—
5×1.0	9.2	9.5	—	128	152	—
5×1.5	10.6	10.9	12.8	171	200	274
5×2.5	12.2	13.1	14.4	240	292	358
5×4	14.1	14.6	15.7	348	403	459
5×6	15.5	16.0	17.1	461	522	584
7×0.75	9.6	9.9	11.8	140	165	233
7×1.0	9.9	10.2	12.1	162	188	258
7×1.5	11.4	11.7	13.6	219	250	329
7×2.5	13.8	14.3	15.4	332	385	440
7×4	15.3	15.8	16.9	456	516	577
7×6	16.8	17.3	18.4	610	677	743
8×0.75	10.3	10.6	12.5	157	184	256
8×1.0	10.6	10.9	12.8	182	210	284
8×1.5	12.2	13.1	14.4	246	298	364
8×2.5	14.8	15.3	16.4	373	431	489
8×4	16.5	17.0	18.5	515	580	662
8×6	18.1	19.0	20.1	690	780	852
10×0.75	11.8	12.1	14.0	190	223	304
10×1.0	12.2	13.1	14.4	222	273	340
10×1.5	14.8	15.3	16.4	323	380	439
10×2.5	17.2	17.7	19.2	458	527	612
10×4	19.2	20.1	21.2	635	731	806
10×6	21.6	22.1	23.2	873	961	1043
12×0.75	12.2	13.1	14.4	217	268	334
12×1.0	12.6	13.5	14.8	254	307	375
12×1.5	15.2	15.7	16.8	368	428	488

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芯数×标称截面 Number of cores × nominal cross section area (mm ²)	电缆参考外径(mm) Cable reference diameter			电缆参考重量(kg/km) Cable reference weight		
	KVV	KVVP	KVV22	KVV	KVVP	KVV22
12×2.5	17.7	18.2	19.7	528	599	686
12×4	20.2	20.7	21.8	756	836	914
12×6	22.3	22.8	23.9	1018	1108	1194
14×0.75	12.7	13.6	14.9	244	297	366
14×1.0	13.8	14.3	15.4	306	359	414
14×1.5	16.0	16.5	17.6	417	481	544
14×2.5	18.6	19.5	20.6	601	694	767
14×4	21.2	21.7	22.8	862	948	1029
14×6	23.4	23.9	25.0	1166	1261	1351
16×0.75	13.9	14.4	15.5	290	344	399
16×1.0	14.4	14.9	16.0	340	396	454
16×1.5	16.8	17.3	18.4	467	533	599
16×2.5	20.0	20.5	21.6	693	773	850
19×0.75	14.6	15.1	16.2	331	388	446
19×1.0	15.1	15.6	16.7	390	449	509
19×1.5	17.6	18.1	19.6	537	607	674
19×2.5	21.0	21.5	22.6	801	885	966
24×0.75	16.8	17.3	18.4	408	474	540
24×1.0	17.4	17.9	19.4	482	551	637
24×1.5	20.8	21.3	22.4	685	769	849
24×2.5	24.4	25.1	26.0	996	1126	1189
27×0.75	17.2	17.7	19.2	446	514	600
27×1.0	17.8	18.3	19.8	520	600	688
27×1.5	21.2	21.7	22.8	753	838	919
27×2.5	24.9	25.6	26.5	1099	1231	1296
30×0.75	17.7	18.2	19.7	485	556	643
30×1.0	18.4	18.9	20.4	577	651	742
30×1.5	22.0	22.5	23.6	823	912	997
30×2.5	25.8	26.5	27.4	1206	1343	1410
37×0.75	19.0	19.9	21.0	578	673	748
37×1.0	20.1	20.6	21.7	708	789	866
37×1.5	23.6	24.1	25.2	987	1080	1173
37×2.5	27.8	29.1	30.0	1453	1655	1729
44×0.75	21.6	22.1	23.2	698	785	868
44×1.0	22.4	22.9	24.0	831	922	1008
44×1.5	26.4	27.1	28.6	1161	1302	1422

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线芯 × 标称截面 Number of cores × nominal cross section area (mm ²)	电缆参考外径(mm) Cable reference diameter				电缆参考重量(kg/km) Cable reference weight			
	KVV	KVVP	KVV22	KVV32	KVV	KVVP	KVV22	KVV32
44 × 2.5	32.0	32.5	33.8	39.2	1785	1942	2054	3194
48 × 0.75	22.0	22.5	23.6	27.8	748	837	921	1535
48 × 1.0	22.8	23.3	24.4	28.6	893	986	1073	1706
48 × 1.5	26.8	27.5	29.0	34.6	1249	1393	1515	2543
48 × 2.5	32.5	33.0	34.3	40.1	1922	2082	2195	3396
52 × 0.75	22.5	23.0	24.1	28.3	799	890	977	1605
52 × 1.0	23.4	23.9	25.0	29.4	957	1052	1142	1805
52 × 1.5	27.6	28.3	29.8	35.4	1341	1489	1615	2655
52 × 2.5	33.4	33.9	35.2	41.0	2063	2228	2344	3569
61 × 0.75	23.8	24.3	25.4	29.8	916	1013	1104	1773
61 × 1.0	24.7	25.4	26.3	31.7	1100	1231	1295	2077
61 × 1.5	30.0	30.5	31.4	37.6	1614	1760	1836	2994
61 × 2.5	35.8	36.5	38.4	43.0	2413	2633	3060	3978