

聚氯乙烯绝缘控制电缆
PVC Insulated & Sheath Control Cable

型号、名称和用途 Model, Name & Application:

Model	Name	Application
KVV	铜芯聚氯乙烯绝缘, 聚氯乙烯护套控制电缆 Copper conductor,PVC insulated & sheathed Control cable	敷设在室内、电缆沟、管道等固定场所 For laying indoors,cable ducts,etc.
KVVP	铜芯聚氯乙烯绝缘, 聚氯乙烯护套编织屏蔽控制电缆 Copper conductor,PVC insulated & sheathed,Braiding screened Control cable	敷设在室内、电缆沟、管道等要求屏蔽的固定场所 For laying indoors,cable ducts,etc with screened requirement.
KVVP2	铜芯聚氯乙烯绝缘, 聚氯乙烯护套铜带屏蔽控制电缆 Copper conductor,PVC insulated & sheathed,Copper tape screened Control cable	
KVV22	铜芯聚氯乙烯绝缘, 聚氯乙烯护套钢带铠装控制电缆 Copper conductor,PVC insulated & sheathed Control cable with Steel tape armoured	敷设在室内、电缆沟、直埋等需要承受较大机械外力的固定场所 For laying indoors,cable ducts,in ground,etc where need to bear some mechanical forces.
KVV32	铜芯聚氯乙烯绝缘, 聚氯乙烯护套钢丝铠装控制电缆 Copper conductor,PVC insulated & sheathed Control cable with Steel wire armoured	敷设在室内、电缆沟、竖井等需要承受较大机械拉力的固定场所 For laying indoors,cable ducts,well,etc where need to bear some mechanical pulling forces.
KVVR	铜芯聚氯乙烯绝缘, 聚氯乙烯护套控制软电缆 Copper conductor,PVC insulated & sheathed Flexible Control cable	敷设在室内移动要求柔软的场所 For laying indoors with movable and flexible requirements
KVVRP	铜芯聚氯乙烯绝缘, 聚氯乙烯护套编织屏蔽控制软电缆 Aluminium conductor,PVC insulated & sheathed,Braiding screened Flexible Control cable	敷设在室内移动要求柔软屏蔽的场所 For laying indoors with movable,flexible and screened requirements

规格范围 Type range:

型号 Type	导体标称截面 mm ² Nominal cross-sectional area of conductor							
	0.5	0.75	1.0	1.5	2.5	4	6	10
芯数 Core number								
KVVP/KVV	/	2-61			2-37		2-10	
KVVP2/KVVP3	/	2-61			2-37		2-10	
KVV22	/	2-61		2-61		2-37		2-10
KVVP2-22	/	2-61		2-61		2-37		2-10
KVV32	/	2-61		2-61		2-37		2-10
KVVR	2-61					/		/
KVVRP	2-61			2-18		/		/
**推荐芯数 Recommended core number: 2/3/4/5/7/8/10/12/14/16/19/24/27/30/37/44/48/52/61								

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产品参数 Product data:

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP
2×0.75	8.0	9.3						72	114					
2×1.0	8.3	9.6						81	124					
2×1.5	9.3	10.6						109	157					
2×2.5	10.8	11.9						154	201					
2×4	11.8	13.9						187	346					
2×6	13.0	15.0						241	351					
2×10	16.3	17.8						391	502					

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	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP
3×0.75	8.3	9.6						87	130					
3×1.0	8.8	10.0						98	143					
3×1.5	9.9	11.1						127	177					
3×2.5	11.3	12.6						181	238					
3×4	12.5	14.5						234	347					
3×6	13.3	15.8						329	470					
3×10	17.3	18.7						511	632					

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP
4×0.5						8.7	9.9		153				96	141
4×0.75	9.1	10.3	9.2			9.3	10.5	104	163	144			114	164
4×1.0	9.5	10.7	9.6			9.6	10.8	119	203	153			123	179
4×1.5	10.7	11.9	10.7			10.9	12.1	156	330	192			158	210
4×2.5	12.4	14.4	12.9			12.5	14.6	226	436	276			228	336
4×4	14.3	15.7	14.0	16.5	19.6			315	530	367	505	856		
4×6	15.6	17.0	15.2	17.8	20.2			413	768	467	619	995		
4×10	18.9	20.8	19.8	22.4	25.8			644		728	947	1584		

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	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP
5×0.5						9.3	10.5		162				108	164

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5×0.75	9.8	11.0	9.9			10.0	11.2	119	193	152			122	174
5×1.0	10.2	11.4	10.3			10.4	11.6	142	248	174			148	208
5×1.5	11.6	12.8	12.23			11.9	13.1	190	390	226			200	267
5×2.5	14.1	15.5	13.91			14.3	15.7	290	501	325			296	399
5×4	15.5	16.9	15.18	17.6	20.8			383	626	427	586	962		
5×6	17.0	18.4	16.55	19.5	22.2			505		567	737	1130		
5×10	21.8	22.6	22.2	24.1	27.6			830	986	924	1125	1814		

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP
7×0.5						10.0	11.2						118	164
7×0.75	10.5	11.7	10.5	13.7		10.8	12.0	146	202	178	317		149	218
7×1.0	11.0	12.2	11.0	14.2		11.2	12.4	169	216	209	354		172	224
7×1.5	12.5	14.4	13.1	15.6	17.6	12.8	14.7	225	330	289	425	712	233	338
7×2.5	15.3	16.7	14.9	17.5	20.6	15.4	16.8	353	471	398	554	923	359	482
7×4	16.8	18.2	16.3	18.9	22.0			473	601	527	701	1108		
7×6	18.5	19.9	17.9	20.9	24.3			652	789	717	900	1484		
7×10	23.6	24.2	24.1	26.0	29.5			1082	1216	1145	1397	2140		

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP
8×0.5						10.5	11.7						126	229
8×0.75	11.0	12.2	11.7	14.3		11.3	12.5	166	217	206	344		174	254
8×1.0	11.6	13.5	12.2	14.8		11.8	13.6	193	243	230	378		196	393
8×1.5	13.9	15.3	13.7	16.3	19.4	14.2	15.6	277	387	312	467	811	285	536
8×2.5	16.1	17.5	15.7	18.3	21.4	16.3	17.7	405	524	486	614	1002	412	
8×4	17.8	19.6	17.7	20.2	23.7			545	681	589	789	1354		
8×6	20.1	21.5	19.3	21.9	25.4			748	898	792	989	1600		
8×10	25.0	26.1	25.5	27.5	30.9			1210	1386	1236	1542	2332		

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP	KVV	KVV P	KVV P2	KVV 22	KVV 32	KVV R	KVV RP
10×0.5						12.2	14.1						216	194
10×0.75	12.9	15.0	13.5	16.0		13.3	15.3	205	300	214			269	310
10×1.0	14.3	15.7	14.1	16.7		14.5	15.9	256	368	300	449		352	386
10×1.5	16.3	17.7	16.0	18.5	21.6	16.7	18.1	340	456	387	558	957	516	472
10×2.5	19.1	20.5	18.9	21.5	24.9	19.3	20.7	500	636	572	753	1362		647

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10×4	22.1	22.9	21.4	23.3	26.8			721	863	787	956	1618		
10×6	24.4	25.4	23.4	25.4	28.8			956	1108	992	1203	1631		
10×10	29.9	30.9	30.3	33.0	37.9			1523	1648	1590		3160		

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV
		P	P2	22	32	R	RP		P	P2	22	32	R	RP
12×0.5						12.6	14.4						176	224
12×0.75	13.9	15.3	13.8	16.4		14.3	15.7	240	345	301			252	356
12×1.0	14.7	16.1	14.5	17.0		14.9	16.3	289	396	312	485		295	403
12×1.5	16.7	18.1	16.4	19.0	22.1	17.2	18.6	386	498	423	609	1018	394	512
12×2.5	19.6	21.5	19.5	22.0	25.5	20.5	21.7	572	703	654	829	1455	581	712
12×4	22.8	23.6	22.0	24.0	27.4			825	970	887	1061	1744		
12×6	25.2	26.2	24.1	26.1	29.5			1102	1276	1189	1356	2100		

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV
		P	P2	22	32	R	RP		P	P2	22	32	R	RP
14×0.5						13.2	15.2						198	246
14×0.75	14.6	16.0	14.4	17.0		15.0	16.4	285	396	312			296	408
14×1.0	15.4	16.8	15.1	17.7		15.6	17.0	321	443	398	530		333	457
14×1.5	17.5	18.9	17.2	20.2	23.6	18.0	19.7	432	550	492	684	1248	445	564
14×2.5	21.2	22.5	20.4	22.9	26.0	21.5	22.7	670	800	721	913	1563	683	814
14×4	23.9	24.7	23.0	25.0	28.5			929	1078	973	1171	1888		
14×6	26.4	27.4	25.3	27.2	30.7			1246	1300	1203	1508	2290		

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV
		P	P2	22	32	R	RP		P	P2	22	32	R	RP
16×0.5						14.5	15.9						246	291
16×0.75	15.3	16.7	15.1	17.8		15.7	17.1	312	423	400			323	441
16×1.0	16.1	17.5	15.8	18.4		16.4	17.8	359	469	389	576		373	487
16×1.5	18.4	19.8	18.0	21.0	24.5	18.9	20.3	485	596	489	745	1337	496	614
16×2.5	22.8	23.6	22.0	23.9	27.4	23.0	23.8	775	880	789	1005	1687	787	892
19×0.5						15.2	16.6						287	346
19×0.75	16.0	17.4	15.8	18.3	21.4	16.5	17.9	347	456	386		637	296	473
19×1.0	16.9	18.3	16.6	19.5	22.2	17.2	18.8	408	517	413	645	1039	421	529
19×1.5	19.4	21.2	19.3	21.9	25.4	20.5	21.7	533	674	612	824	1442	564	696
19×2.5	23.9	24.7	23.0	25.0	28.5	24.2	25.0	1053	1053	986	1119	1834	898	1069
24×0.5						17.4	18.8						327	396

24×0.75	18.4	19.8	18.0	21.0	24.5	19.0	20.4	400	523	476		1021	414	536
24×1.0	19.5	21.4	19.4	22.0	25.5	19.8	21.7	510	634	580	776	1401	516	656
24×1.5	23.5	24.3	22.9	24.8	28.3	24.2	25.0	744	866	792	1001	1709	759	884
24×2.5	27.7	28.7	26.6	28.5	32.0	28.1	29.1	1110	1258	1179	1376	2199	1128	1279
27×0.5						17.8	19.2						359	489
27×0.75	18.8	20.2	18.8	21.4	24.8	19.4	20.8	476	600	503		1180	492	634
27×1.0	20.5	21.8	19.8	22.4	25.8	20.8	22.1	578	713	612	821	1458	596	737
27×1.5	24.0	24.8	23.3	25.3	28.7	24.6	25.4	807	957	886	1063	1788	824	983
27×2.5	28.3	29.3	27.1	29.1	32.5	28.6	29.6	1209	1359	1286	1480	2136	1225	1378
30×0.5						18.4	19.8						396	554
30×0.75	19.4	21.3	19.4	22.0	25.4	20.6	21.9	523	635	600		1240	539	658
30×1.0	21.6	22.4	20.5	23.0	26.5	22.0	22.8	651	786	725	883	1536	667	799
30×1.5	24.8	25.8	24.1	26.0	29.5	25.5	26.5	882	1093	891	1150	1893	897	1123
30×2.5	29.3	30.3	28.1	30.8	35.6	29.7	30.7	1327	1473	1384	1808	2851	1343	1496

标称截面 Nominal cross-sectional area of conductor	电缆最大外径(mm) Largest diameter of cables							电缆参考重量(kg/km) Approx weight of cables						
	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	KVV	
		P	P2	22	32	R	RP		P	P2	22	32	R	RP
37×0.5						19.7	21.5						470	594
37×0.75	21.9	22.7	21.4	23.3	26.8	22.5	23.3	600	704	588		1398	616	731
37×1.0	23.2	24.0	22.5	24.4	27.9	23.5	24.3	771	912	877	1013	1710	792	954
37×1.5	26.4	27.6	25.8	27.7	31.2	27.4	28.4	1050	1196	1105	1331	2127	1072	1224
37×2.5	31.5	33.2	30.8	33.5	37.6	31.9	33.6	1591	1741	1681	2139	3213	1612	1768
44×0.5						22.4	23.8						540	620
44×0.75	24.3	25.3	23.7	25.6	29.1	25.1	26.1	745	887	809		1576	764	908
44×1.0	25.8	27.0	24.9	26.9	30.4	26.2	27.2	915	1035	987	1184	1952	938	1076
44×1.5	29.7	30.7	28.7	32.1	36.2	30.6	31.6	1251	1394	1315	1717	2838	1274	1421
44×2.5	36.0	37.2	34.3	37.5	41.2	36.4	37.6	1950	2100	2018	2532	3699	1974	2128
48×0.5						23.3	24.1						598	686
48×0.75	24.7	25.7	24.0	26.0	29.4	25.4	26.4	822	927	887		1789	854	958
48×1.0	26.2	27.2	25.3	27.3	30.7	26.6	27.6	967	1097	1023	1236	2018	986	1118
48×1.5	30.2	31.2	29.2	32.6	36.7	31.1	32.1	1326	1487	1397	1890	2935	1352	1508
48×2.5	36.5	37.2	34.9	38.1	41.6	37.0	38.2	2070	2147	2097	2662	3843	2094	2178
52×0.5						23.9	24.7						634	763
52×0.75	25.3	26.3	24.6	26.6	30.0	26.1	27.1	898	1009	935		1920	912	1034
52×1.0	26.9	27.9	26.0	27.9	31.4	27.3	28.3	1035	1187	1113	1305	2109	1056	1214
52×1.5	31.0	32.6	30.6	33.3	36.3	31.9		1420	1578	1493	1997	3068	1449	
52×2.5	37.5	39.2	35.8	39.0	41.5	38.0		2220	2396	2298	2819	4032	2249	
61×0.5						25.2	26.2						689	812
61×0.75	26.8	27.8	26.0	27.9	31.4	27.6	28.6	967	1087	1025		2084	991	1109
61×1.0	28.4	29.4	27.4	29.3	32.8	28.8	29.8	1186	1316	1256	1470	2314	1209	1348
61×1.5	33.5	34.7	32.3	35.0	39.1	34.4		1680	1837	1745	2241	3366	1698	

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61×2.5	40.2	41.4	37.9	41.1	43.6	40.7		2599	2749	2599	3175	4461	2612	
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技术参数 Technical data:

导体的结构及直流电阻 Cable' s structure and DC resistance

标称截面 mm ² Nominal cross-sectional area of conductor	线芯导体种类 Types of conductor	20°C时导体最大直流电阻(W/km) Max. DC resistance of conductor @20°C	
		不镀锡 Untinned wire	镀锡 Tinned wire
0.5	R	39.0	40.1
0.75	A	24.5	24.8
	B	24.5	24.8
	R	26.0	26.7
1.0	A	18.1	18.2
	B	18.1	18.2
	R	19.5	20.0
1.5	A	12.1	12.2
	B	12.1	12.2
	R	13.3	13.7
2.5	A	7.41	7.56
	B	7.41	7.56
	R	7.98	8.21
4	A	4.61	4.70
	B	4.61	4.70
6	A	3.08	3.11
	B	3.08	3.11
10	B	1.83	1.84

*线芯种类 Types of conductor:

A——实心导体 Solid conductor

B——绞合导体（用于固定敷设） Stranded conductor, for fixed installation

R——绞合导体（用于有移动要求的软电缆） Stranded flexible conductor, for movable requirement

电缆使用特性 Installation and operation condition of cable:

 1. 额定电压 Rated voltage U₀/U: 450/750V

2. 电缆导体的允许长期最高工作温度: 70°C (聚氯乙烯绝缘)

Allowed Max. Continuous running temperature of conductor: 70°C (PVC insulated)

3. 短路时（最长持续时间不超过 5s）聚氯乙烯绝缘电缆导体的最高温度不超过 160°C

Max. temperature of conductor should be less than 160°C when short circuit (Less than 5s).

4. 电缆敷设时环境温度不低于 0°C

Ambient temperature of installation should be less than 0°C

5. 推荐的允许弯曲半径 Recommended allowed bending radius:

无铠装层的电缆不小于电缆外径的 6 倍；有铠装或铜带屏蔽结构的电缆不小于电缆外径的 12 倍；有屏蔽层结构的软电缆不小于电缆外径的 6 倍。

For non-armoured cable, not less than 6 times of cable diameter; For armoured or copper-tape-screened cable, not less than 12 times of cable diameter; For screened flexible cable, not less than 6 times of cable diameter.

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