



BEIJING HUAYUAN GAOKE CABLE CO.,LTD.
Daxing Industrial District, Beijing, China
 www.bjhygkable.com Tel: +86-010-80261008 Fax: +86-010-89233216

Plastic Insulated Control Cable



■ Product standard

This product is manufactured according to GB9330 and enterprise standards.

■ Application

For system connection wire of control, signal, protection or measuring with rated voltage up to and including 450/750KV.

■ Operating characteristics

Rated voltages U_0/U : 450/750V

Permissible Max. continuous operating temperature of conductor:

PVC insulated: 70°C; XLPE insulated: 90°C.

Upon short circuit (Max. Duration time 5s) the Max. temperature of conductor not higher than:

PVC insulated: 160°C; XLPE insulated 250°C.

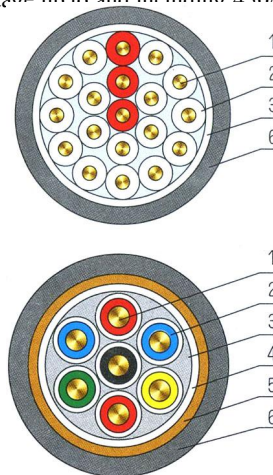
Ambient temperature of installation not less than 0°C.

Preferred permissible bending radius:

For non-armored cable, not less than 6 times of cable diameter;

For armored 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.



- 1、 Conductor
- 2、 Insulation layer
- 3、 Tape
- 4、 Inner lining
- 5、 Copper tape armored
- 6、 Oversheath

■ Type, designation and application

Type	Designation	Main applications
KVV/KYJV	Copper conductor PVC/XLPE insulated PVC sheathed control cable	For fixed-laying indoors, in cable duct or conduit
KVVP/KYJVP	Copper conductor XLPE/PVC insulated PVC sheathed braid screened control cable	For fixed-laying indoors, in cable duct or conduit upon screen requirement
KVVP2/KYJVP2	Copper conductor PVC/XLPE insulated PVC sheathed copper tape screened control cable	For fixed-laying indoors, in cable duct or conduit upon screen requirement
KVV22/KYJV22	Copper conductor PVC/XLPE insulated PVC sheathed steel tape armored control cable	For fixed-laying indoors, in cable duct direct-buried, able to bear larger mechanical forces
KVV32/KYJV32	Copper conductor PVC/XLPE insulated PVC sheathed fine steel wire armored control cable	For fixed-laying indoors, in cable duct, conduit or well, able to bear larger mechanical forces
KVVR/KYJVR	Copper conductor PVC/XLPE insulated PVC sheathed control flexible cable	For laying indoors upon moveable requirement

Infinite Power

Achieve Infinite Light



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KVVRP/KYJVRP	Copper conductor PVC/XLPE insulated PVC sheathed braid screened control flexible cable	For laying indoors upon moveable and screen requirement
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■ Type range

Type	Rated voltage V	Nominal cross-section of conductor (mm ²)							
		0.5	0.75	1.0	1.5	2.5	4	6	10
		No. of cores							
KVV/KYJV KVVP/KYJVP	450/750	2~61				2~14		2~10	
KVVP2/KYJVP2		4~61				4~14		4~10	
KVV22/KYJV22		7~61		4~61		4~14		4~10	
KVV32/KYJV32		19~61		7~61		4~14		4~10	
KVVR/KYJVR		4~61							
KVVRP/KYJVRP		4~61		4~48					

Note: 1) Preferred number of cores: 2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52、61.

2) The special types of fire-retardant, flame-resisting, low-fume and low-halogen, low-fume and non-halogen as well as acid-alkali-proof for these cables may be supplied upon requests.

■ Technical Data

- 1) Conductors have three species: First (Solid conductor) (A), Second for fixed installation (B) (Stranded conductor), and Third for moveable requirement (R) (stranded flexible conductor).
- 2) The structure and D. C. resistance.
- 3) The screen layer of cables shall be braided with copper wire or applied helically with copper tape.

Nominal cross-section mm ²	Conductor structure		D.C. resistance of conductor at 20°C	
	species	No./Nomi. Diameter of a single wire mm	Untinned wire	Tinned wire
0.5	5	16/0.20	39.0	40.1
0.75	1	1/0.97	24.5	24.8
0.75	2	7/0.37	24.5	24.8
0.75	5	24/0.20	26.0	26.7
1.0	1	1/1.13	18.1	18.2
1.0	2	7/0.43	18.1	18.2
1.0	5	32/0.20	19.5	20.0
1.5	1	1/1.38	12.1	12.2
1.5	2	7/0.52	12.1	12.2
1.5	5	30/0.25	13.3	13.7
2.5	1	1/1.78	7.41	7.56
2.5	2	7/0.68	7.41	7.56
2.5	5	50/0.25	7.98	8.21
4	1	1/2.25	4.61	4.70
4	2	7/0.85	4.61	4.70

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6	1	1/2.76	3.08	3.11
6	2	7/1.04	3.08	3.11
10	2	7/1.35	1.83	1.84

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■ **Calculated Data**

No. × Nom. cross-section mm ²	Largest diameter of cables							Calculated weight of cables (kg/km)						
	KVV	KVVP	KVVP2	KVV22	KVV32	KVVR	KVVRP	KVV	KVVP	KVVP2	KVV22	KVV32	KVVR	KVVRP
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	—	—	—	—	—
2×0.75	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	—	—	—	—	—
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



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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	—	—
5×0.5	—	—	—	—	—	9.3	10.5	—	162	—	—	—	108	164
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
5×3	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	—	—
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	28.0	29.5	—	—	1082	1216	1145	1397	2140	—	—
8×0.5	—	—	—	—	—	10.5	11.7	—	—	—	—	—	126	174
8×0.75	11.0	12.2	11.7	14.3	—	11.3	12.5	166	217	206	344	—	174	229
8×1.0	11.6	13.5	12.2	14.8	—	11.8	13.6	193	243	230	378	—	196	254
8×1.5	13.9	15.3	13.7	16.3	19.4	14.2	15.6	277	387	312	467	811	285	393



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8×2.5	16.1	17.5	15.7	18.3	21.4	16.3	17.7	405	524	486	614	1002	412	536
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	160	—	—
8×10	25.1	26.1	25.5	27.5	30.9	—	—	1210	1386	1236	1542	2332	—	—
10×0.5	—	—	—	—	—	12.2	14.1	—	—	—	—	—	147	194
10×0.75	12.9	15.0	13.5	16.0	—	13.3	15.3	205	300	214	—	—	216	310
10×1.0	14.3	15.7	14.1	16.7	—	14.5	15.9	256	368	300	449	—	269	386
10×1.5	16.3	17.7	16.0	18.5	21.6	16.7	18.1	340	456	387	558	957	352	472
10×2.5	19.1	20.5	18.9	21.5	24.9	19.3	20.7	500	636	572	753	1362	516	647
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	1931	—	—
10×10	29.9	30.9	30.3	33.0	37.9	—	—	1523	1648	1590	—	3160	—	—
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	—	—
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



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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	—	—
16×0.5	—	—	—	—	—	14.5	15.9	—	—	—	—	—	246	291
16×0.75	15.3	16.7	15.1	17.6	—	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	359	473
19×1.0	16.9	18.3	16.6	19.5	22.2	17.2	18.6	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	2316	1225	1378



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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
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	887	1013	1710	792	945
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	1817	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	832	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



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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	—	222	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	—
61×2.5	40.2	41.4	37.9	41.1	43.6	40.7	—	2599	2749	2599	3175	4461	2612	—