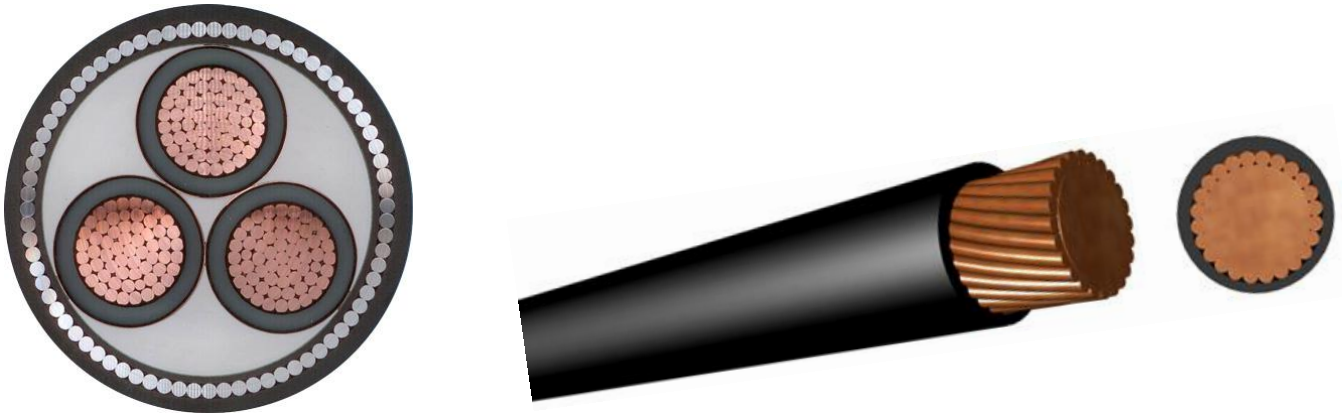




**BEIJING HUAYUAN GAOKE CABLE CO.,LTD.**  
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## XLPE Insulated Electrical Cable For Rated Voltage 0.6/1kV



### ■ Product Standard

GB/T12706.1-2002, equivalent to IEC60502

### ■ Usage

This product is suitable for use in rated AC voltage ( $U_0/U$ ) 0.6/1kV system transmitting and distributing circuit.

### ■ Property for Use

It is far better than all property targets of PVC insulated power cable and has overcome the shortcomings of physical and chemical cross-linkage, and completely reaches or surpasses GB and IEC technical property value.

The allowed max .cable conductor work temperature is 90°C ;urgent excess work temperature is 130°C for short circuit(5s), max. conductor temperature is 250°C.

The environmental temperature for laying cable should be not less than 0°C. If laying under 0°C, the cable should be preheated.

The cable bend radius for single core should be not less than 12 times of overall cable diameter; for multi-core cable, not less than 10 times of overall cable diameter.

The current-carrying capacity is large and not limited by drop during laying .

### ■ Type of cable

Type	Designation	Application
YJV	Copper conductor , XLPE insulated and PVC sheathed Electrical cable	For laying indoors, in tunnels or cable trench, unable to bear external mechanical forces.
YJLV	Aluminum conductor , XLPE insulated and PVC sheathed Electrical cable	
YJY	Copper conductor , XLPE insulated and PE sheathed Electrical cable	
YJLY	Aluminum conductor , XLPE insulated and PE sheathed Electrical cable	
YJV22	Copper conductor , XLPE insulated, steel tape armored and PVC sheathed Electrical cable	Indoors, tunnels, cable canal, vertically burying and easy to corrode places, can bear mechanical pressure.
YJLV22	Aluminum conductor , XLPE insulated, steel tape armored and PVC sheathed Electrical cable	
YJV23	Copper conductor , XLPE insulated, steel tape armored and PE sheathed Electrical cable	
YJLV23	Aluminum conductor , XLPE insulated, steel tape armored and PE sheathed Electrical cable	Vertically laying, can bear mechanical pulling force, but not pressure.
YJV32	Copper conductor , XLPE insulated, steel wire armored and PVC sheathed Electrical cable	
YJLV32	Aluminum conductor , XLPE insulated, steel wire armored and PVC sheathed Electrical cable	
YJV33	Copper conductor , XLPE insulated, steel wire armored and PE sheathed Electrical cable	

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YJLV33	Aluminum conductor , XLPE insulated, steel wire armored and PE sheathed Electrical cable
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■ **Production Range of cable**

Type		No. of cores	Nominal cross-sectional area mm <sup>2</sup>
Copper Conductor	Aluminum Conductor		
YJV YJY — YJV22 YJV23	— YJLV YJLY YJLV22 YJLV23	1*	1.5~800 2.5~800 10~800
YJV YJY — YJV22 YJV23 YJV32 YJV33	— YJLV YJLY YJLV22 YJLV23 YJLV32 YJLV33	2	1.5~400 2.5~400 2.5~400 10~400
YJV YJY — YJV22 YJV23 YJV32 YJV33	— YJLV YJLY YJLV22 YJLV23 YJLV32 YJLV33	3	1.5~400 2.5~400 2.5~400 10~400
YJV YJY — YJV22 YJV23 YJV32 YJV33	— YJLV YJLY YJLV22 YJLV23 YJLV32 YJLV33	4	1.5~400 2.5~400 2.5~400 10~400
YJV YJY — YJV22 YJV23 YJV32 YJV33	— YJLV YJLY — YJLV22 YJLV23 YJLV32 YJLV33	3+1	1.5~400 4~400 1.5~400 4~400 10~400
YJV YJY — YJV22 YJV23 YJV32 YJV33	— YJLV YJLY — YJLV22 YJLV23 YJLV32 YJLV33	5	1.5~400 2.5~400 1.5~400 2.5~400 10~400
YJV YJY — YJV22 YJV23 YJV32 YJV33	— YJLV YJLY — YJLV22 YJLV23 YJLV32 YJLV33	4+1	1.5~400 4~400 1.5~400 4~400 10~400
YJV YJY — YJV22 YJV23 —	— YJLV YJLY — YJLV22 YJLV23	3+2	1.5~400 4~400 1.5~400 4~400

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YJV32 YJV33	YJLV32 YJLV33		10~400
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NOTE: The armored single-core cables are used for d. c. system only. As for a. c. system, non-magnetic armor material should be used, or magnetic isolation should be applied.

■ **Product data table**

0.6/1kV 1-Core,XLPE insulated PVC/PE Sheathed Power Cable							
Nominal cross-sectional area mm <sup>2</sup>	Diameter of conductor mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YLV23 YJLV23		
		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
			YJV YJY	YJLV YJLY		YJV22 YJY23	YJLY22 YJLY23
1×1.5	0.7	5.6	52	—	—	—	—
1×2.5	0.7	6.0	65	50	—	—	—
1×4	0.7	6.4	83	58	—	—	—
1×6	0.7	7.0	106	69	—	—	—
1×10	0.7	8.3	157	94	11.7	233	170
1×16	0.7	9.3	221	121	12.7	305	205
1×25	0.9	11.2	334	175	14.4	426	267
1×35	0.9	12.4	435	215	15.6	536	316
1×50	1.0	14.1	576	278	17.1	680	382
1×70	1.1	16.1	793	362	19.1	912	481
1×95	1.1	18.2	1066	468	21.0	1188	590
1×120	1.2	20.0	1321	565	22.8	1454	698
1×120*	1.2	18.7	1275	539	21.5	1400	663
1×150	1.4	22.0	1606	677	24.8	1751	823
1×150*	1.4	20.7	1584	658	23.5	1721	795
1×185	1.6	24.2	1977	813	27.0	2140	976
1×185*	1.6	22.6	1868	763	25.4	2020	915
1×240	1.7	27.1	2548	1018	29.9	2729	1200
1×240*	1.7	25.1	2399	952	27.9	2567	1121
1×300	1.8	29.7	3151	1232	32.7	3363	1445
1×300*	1.8	27.5	3028	1172	30.5	3225	1369
1×400	2.0	33.1	3985	1531	38.1	4596	2142
1×400*	2.0	30.9	3888	1478	35.9	4461	2050
1×500	2.2	36.8	4996	1902	41.8	5667	2574
1×500*	2.2	34.5	4953	1861	39.5	5584	2492
1×630	2.4	41.1	6294	2372	46.3	7084	3132

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1×630*	2.4	38.5	6164	2299	43.7	6878	3031
1×800	2.6	45.7	7920	2592	50.9	8757	3789

\*Compacted conductor

1. Conductor
2. Insulation
3. Sheath

0.6/1kV 2-Core, XLPE Insulated PVC/PE Sheathed Power Cable										
Nominal cross-sectional area mm <sup>2</sup>	Diameter of conductor mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YJV23 YJLV23			YJV32 YJLV32 YJV33 YJLV33		
		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
			YJV	YJLV		YJV22	YJLV22		YJV32	YJLV32
			YJY	YJLY		YJV23	YJLV23		YJV33	YJLV33
2×1.5	0.7	10.0	99	—	—	—	—	—	—	—
2×2.5	0.7	10.8	127	95	12.6	218	187	—	—	—
2×4	0.7	11.7	164	115	13.5	265	215	—	—	—
2×6	0.7	12.7	214	139	14.5	325	250	—	—	—
2×10	0.7	15.3	324	195	17.1	447	318	20.9	912	783
2×16	0.7	17.4	460	257	19.2	602	398	23.0	920	920
2×25	0.9	20.8	691	369	22.6	863	540	26.4	1156	1156
2×35	0.9	23.1	907	460	24.9	1099	651	28.7	1328	1328
2×50*	1.0	19.6	1039	478	21.4	1199	638	25.4	1231	1231
2×70*	1.1	22.6	1456	646	24.2	1640	830	29.4	1733	1733
2×95*	1.1	25.8	1973	849	29.0	2437	1314	32.4	2022	2022
2×120*	1.2	28.2	2459	1042	31.4	2966	1549	35.0	2328	2328
2×150*	1.4	40.2	3398	1520	43.6	4146	2268	48.2	3799	3799
2×185*	1.6	44.2	4042	1800	47.6	4862	2620	52.4	4305	4305
2×240*	1.7	49.6	5264	2329	53.0	6148	3213	57.8	5124	5124
2×300*	1.8	54.8	7345	3076	58.0	7622	3853	63.5	6408	6408

\*Compacted conductor

1. Conductor
2. Insulation
3. Tape
4. Inner covering
5. Armor (Steel tape、Steel wire)

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- 6. Filler
- 7. Oversheath

0.6/1kV 3-Core, XLPE Insulated PVC/PE Sheathed Power Cable										
Nominal cross-sectional area mm <sup>2</sup>	Diameter of conductor mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YJV23 YJLV23			YJV32 YJLV32 YJV33 YJLV33		
		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
			YJV	YJLV		YJV22	YJLV22		YJV32	YJLV32
			YJY	YJLY		YJV23	YJLV23		YLV33	YJLV33
3×1.5	0.7	10.4	120	—	—	—	—	—	—	—
3×2.5	0.7	11.3	158	111	13.1	254	207	—	—	—
3×4	0.7	12.2	210	135	14.0	316	242	—	—	—
3×6	0.7	13.4	280	167	15.2	397	284	—	—	—
3×10	0.7	16.1	430	238	17.9	560	368	21.7	1049	856
3×16	0.7	18.4	623	318	20.2	773	468	24.0	1323	1017
3×25	0.9	22.1	947	463	23.9	1130	646	27.7	1779	1296
3×35	0.9	24.6	1254	584	26.4	1458	787	30.2	2174	1504
3×50*	1.0	23.7	1518	677	25.5	1714	873	29.7	2433	1592
3×70*	1.1	27.9	2143	929	31.3	2663	1449	34.6	3429	2215
3×95*	1.1	31.3	2897	1212	34.7	3480	1794	38.1	4327	2641
3×120*	1.2	38.4	3834	1593	41.8	4549	2309	45.2	5567	3327
3×150*	1.4	43.1	4827	2010	46.5	5628	2811	51.1	7269	4452
3×185*	1.6	47.4	5747	2384	50.8	6626	3263	55.8	8466	5103
3×240*	1.7	53.2	7448	3045	56.6	8432	4029	61.8	10508	6106
3×300*	1.8	58.7	9463	3810	62.1	10550	4896	67.3	12831	7177
3×400*	2.0	66.5	12225	4885	69.9	13455	6114	77.0	17033	9692

\*Compacted conductor

1. Conductor
2. Insulation
3. Tape
4. Inner covering
5. Armor (Steel tape、Steel wire)
6. Filler
7. Oversheath

0.6/1kV 4-Core, XLPE Insulated PVC/PE Sheathed Power Cable										
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Nominal cross-sectional area mm <sup>2</sup>	Diameter of conductor mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YJV23 YJLV23			YJV32 YJLV32 YJV33 YJLV33		
		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
			YJV	YJLV		YJV22	YJLV22		YJV32	YJLV32
			YJY	YJLY		YJV23	YJLV23		YJV33	YJLV33
4×1.5	0.7	11.1	145	—	12.9	241	—	—	—	—
4×2.5	0.7	12.1	194	131	13.9	299	236	—	—	—
4×4	0.7	13.2	261	162	15.0	377	277	—	—	—
4×6	0.7	14.5	352	201	16.3	480	329	—	—	—
4×10	0.7	17.6	547	290	19.4	690	433	23.3	1217	960
4×16	0.7	20.1	799	392	21.9	964	557	25.7	1560	1153
4×25	0.9	24.3	1222	577	26.1	1424	779	29.9	2132	1487
4×35	0.9	27.1	1626	731	28.9	1851	957	32.9	2649	1755
4×50*	1.0	26.2	2005	884	30.0	2512	1391	33.0	3218	2097
4×70*	1.1	31.9	2855	1236	35.3	3443	1824	38.7	4312	2692
4×95*	1.1	35.9	3843	1595	39.3	4511	2264	42.7	5468	3221
4×120*	1.2	42.8	5052	2064	46.2	5848	2860	49.8	7479	4492
4×150*	1.4	47.9	6336	2579	51.3	7226	3470	56.3	9090	5333
4×185*	1.6	52.9	7569	3085	56.3	8548	4064	61.3	10587	6103
4×240*	1.7	59.3	9809	3939	62.5	10882	5010	68.1	13238	7368
4×300*	1.8	65.5	12467	4929	68.9	13679	6141	74.5	16273	8368
4×400*	2.0	74.4	16139	6351	77.8	17512	7752	85.1	21519	11732

\*Compacted conductor

1. Conductor
2. Insulation
3. Tape
4. Inner covering
5. Armor (Steel tape、Steel wire)
6. Filler
7. Oversheath

0.6/1kV 3-Core, XLPE Insulated PVC/PE Sheathed Power Cable											
Nominal cross-sectional area mm <sup>2</sup>	No. of Cores	Diameter of conductor or mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YJV23 YJLV23			YJV32 YJLV32 YJV33 YJLV33		
			Approx overall diameter	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
				YJV	YJLV		YJV22	YJLV22		YJV32	YJLV32
				YJY	YJLY		YJV23	YJLV23		YJV33	YJLV33

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		r mm										
3×1.5+1×1.0	3	0.7	10.9	138	—	12.7	233	—	—	—	—	
	1	0.7										
3×2.5+1×1.5	3	0.7	11.8	181	—	13.6	283	—	—	—	—	
	1	0.7										
3×4+1×2.5	3	0.7	12.9	245	154	14.7	356	266	—	—	—	
	1	0.7										
3×6+1×4	3	0.7	14.1	329	191	15.9	453	315	—	—	—	
	1	0.7										
3×10+1×6	3	0.7	16.8	497	267	18.6	632	402	22.4	1137	907	
	1	0.7										
3×16+1×10	3	0.7	19.4	734	365	21.2	893	524	25.0	1471	1101	
	1	0.7										
3×25+1×16	3	0.9	23.2	1114	528	25.0	1306	720	28.8	1984	1398	
	1	0.7										
3×35+1×16	3	0.9	25.2	1414	642	27.0	1624	851	31.0	2372	1599	
	1	0.7										
3×50+1×25	3*	1.0	26.0	1807	805	28.0	2306	1034	32.0	2807	1805	
	1	0.9										
3×70+1×35	3*	1.1	31.7	2559	1121	35.4	3158	1721	38.5	4012	2574	
	1	0.9										
3×95+1×50	3*	1.1	35.9	3450	1461	39.6	4125	2136	42.7	5038	3049	
	1	1.0										
3×120+1×70	3*	1.2	40.5	4502	1845	44.2	5263	2606	48.5	6809	4151	
	1	1.1										
3×150+1×70	3*	1.4	44.3	5460	2226	48.0	6292	3058	52.5	7991	4758	
	1	1.1										
3×185+1×95	3*	1.6	49.2	6658	2705	52.9	7576	3623	57.4	9444	5491	
	1	1.1										
3×240+1×120	3*	1.7	55.0	8591	2441	58.7	9617	4467	63.4	11722	6573	
	1	1.2										
3×300+1×150	3*	1.8	61.0	1090 6	4313	64.5	12014	5421	69.6	14392	7799	
	1	1.4										
3×400+1×185	3*	2.0	68.7	1393 8	5476	72.4	15217	6755	79.2	18892	9906	
	1	1.6										

\*Compacted conductor

1. Conductor
2. Insulation
3. Tape

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4. Inner covering
5. Armor (Steel tape、Steel wire)
6. Filler
7. Oversheath

0.6/1kV 5-Core,XLPE Insulated PVC/PE Sheathed Power Cable										
Nominal cross-sectional area mm <sup>2</sup>	Diameter of conductor mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YJV23 YJLV23			YJV32 YJLV32 YJV33 YJLV33		
		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
			YJV YJY	YJLV YJLY		YJV22 YJV23	YJLV22 YJLV23		YJV32 YJV33	YJLV32 YJLV33
5×1.5	0.7	11.9	171	—	13.7	274	—	—	—	—
5×2.5	0.7	13.0	231	152	14.8	344	266	—	—	—
5×4	0.7	14.2	314	190	16.0	439	315	—	—	—
5×6	0.7	15.6	426	237	17.4	565	377	—	—	—
5×10	0.7	19.1	666	346	20.9	839	519	24.7	1391	1071
5×16	0.7	22.0	978	470	23.8	1180	671	27.6	1805	1296
5×25	0.9	26.6	1503	697	28.4	1749	943	32.4	2510	1704
5×35	0.9	29.7	2004	887	32.5	2318	1201	36.5	3375	2258
5×50	1.0	34.2	2696	1183	38.0	3442	1929	41.0	4255	2742
5×50*	1.0	32.6	2605	1132	36.4	3314	1841	39.4	4093	2620
5×70	1.1	40.2	3825	1638	43.6	4674	2487	47.0	5640	3453
5×70*	1.1	37.8	3617	1536	41.2	4414	2332	44.6	5326	3244
5×95	1.1	45.8	5196	2163	49.2	6160	3127	53.8	7784	4752
5×95*	1.1	42.8	5006	2053	46.2	5906	2953	50.8	7432	4479
5×120	1.2	50.8	6513	2681	54.2	7585	3753	59.2	9433	5601
5×120*	1.2	47.3	6276	2541	50.7	7271	3536	55.7	8999	5265
5×150	1.4	56.5	8020	3312	59.9	9208	4500	64.9	11246	6539
5×150*	1.4	53.1	7897	3201	56.5	9012	4317	61.5	10936	6241
5×185	1.6	63.1	10010	4104	66.5	11332	5427	71.7	13620	7715
5×185*	1.6	58.6	9297	3692	58.0	10436	4831	67.2	12793	7188
5×240	1.7	71.1	13019	5257	74.5	14509	6747	80.1	17140	9378
5×240*	1.7	65.8	12220	4882	69.2	13596	6258	74.8	16041	8703
5×300	1.8	78.6	16213	6476	82.0	17860	8123	89.1	21850	12114
5×300*	1.8	72.7	15530	6108	76.1	17049	7627	83.2	20754	11332
5×400	2.0	88.5	20706	8253	93.1	23495	11011	99.4	27109	14656
5×400*	2.0	82.7	20143	7899	87.3	22733	10498	93.6	26123	13889

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\*Compacted conductor

1. Conductor
2. Insulation
3. Tape
4. Inner covering
5. Armor (Steel tape、Steel wire)
6. Filler
7. Oversheath

**0.6/1kV 4+1-Core, XLPE Insulated PVC/PE Sheathed Power Cable**

Nominal cross-sectional area mm <sup>2</sup>	No. of Cores	Diameter of conductor mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YJV23 YJLV23			YJV32 YJLV32 YJV33 YJLV33		
			Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
				YJV	YJLV		YJV22	YJLV22		YJV32	YJLV32
				YJY	YJLY		YJV23	YJLV23		YJV33	YJLV33
4×1.5+1×1.0	4	0.7	11.8	165	—	13.6	266	—	—	—	—
	1	0.7									
4×2.5+1×1.5	4	0.7	12.8	219	—	14.6	330	—	—	—	—
	1	0.7									
4×4+1×2.5	4	0.7	14.0	297	182	15.8	420	305	—	—	—
	1	0.7									
4×6+1×4	4	0.7	15.4	403	228	17.2	540	364	—	—	—
	1	0.7									
4×10+1×6	4	0.7	18.4	617	323	20.2	767	473	24.0	1317	1023
	1	0.7									
4×16+1×10	4	0.7	21.4	915	445	23.2	1092	621	27.0	1722	1251
	1	0.7									
4×25+1×16	4	0.9	25.7	1397	650	27.5	1611	864	31.5	2370	1624
	1	0.7									
4×35+1×16	4	0.9	28.1	1796	800	30.1	2012	1049	33.9	2858	1863
	1	0.7									
4×50+1×25	4*	1.0	31.5	2371	1039	34.9	2961	1627	38.3	3815	2482
	1	0.9									
4×70+1×35	4*	1.1	36.1	3287	1403	39.3	3941	2058	42.9	4920	3036
	1	0.9									
4×95+1×50	4*	1.1	40.8	4515	1857	44.2	5274	2614	49.0	6858	4201

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	1	1.0									
4×120+1×70	4*	1.2	45.5	5750	2346	48.9	6596	3192	53.5	8318	4914
	1	1.1									
4×150+1×70	4*	1.4	50.0	7025	2852	53.4	7955	3782	58.2	9867	5694
	1	1.1									
4×185+1×95	4*	1.6	55.5	8525	3451	58.9	9552	4477	63.9	11681	6606
	1	1.1									
4×240+1×120	4*	1.7	62.1	11008	4392	65.5	12157	5541	70.9	14589	7972
	1	1.2									
4×300+1×150	4*	1.8	68.8	13978	5510	72.2	15250	6773	79.1	18951	10474
	1	1.4									
4×400+1×185	4*	2.0	77.8	17941	7032	81.2	19377	8468	88.5	23553	12644
	1	1.6									

\*Compacted conductor

1. Conductor
2. Insulation
3. Tape
4. Inner covering
5. Armor (Steel tape、Steel wire)
6. Filler
7. Oversheath

### 0.6/1kV 3+2-Core, XLPE Insulated PVC/PE Sheathed Power Cable

Nominal cross-sectional area mm <sup>2</sup>	No. of Cores	Diameter of conductor mm	YJV YJLV YJY YJLY			YJV22 YJLV22 YJV23 YJLV23			YJV32 YJLV32 YJV33 YJLV33		
			Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km		Approx overall diameter mm	Cable weight, max kg/km	
				YJV	YJLV		YJV22	YJLV22		YJV32	YJLV32
				YJY	YJLY	YJV23	YJLV23	YJV33	YJLV33		
3×1.5+2×1.0	3	0.7	13.4	158	—	13.4	259	—	—	—	—
	2	0.7									
3×2.5+2×1.5	3	0.7	14.4	207	—	14.4	316	—	—	—	—
	2	0.7									
3×4+2×2.5	3	0.7	15.5	282	175	15.5	401	295	—	—	—
	2	0.7									

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3×6+2×4	3	0.7	16.9	382	218	16.9	515	352	—	—	—
	2	0.7									
3×10+2×6	3	0.7	19.5	569	301	19.5	713	445	23.3	1244	976
	2	0.7									
3×16+2×10	3	0.7	22.6	853	419	22.6	1024	591	26.4	1639	1205
	2	0.7									
3×25+2×16	3	0.9	26.5	1292	604	26.5	1497	810	30.3	2217	1531
	2	0.7									
3×35+2×16	3	0.9	28.4	1590	715	28.4	1811	937	32.4	2596	1722
	2	0.7									
3×50+2×25	3*	1.0	31.5	2127	935	31.5	2374	1184	36.5	3494	2302
	2	0.9									
3×70+2×35	3*	1.1	37.3	2943	1258	37.3	3563	1878	40.9	4497	2812
	2	0.9									
3×95+2×50	3*	1.1	42.3	4043	1631	42.3	4767	2406	46.9	6265	3904
	2	1.0									
3×120+2×70	3*	1.2	43.5	5207	2134	46.9	6017	2944	51.5	7674	4601
	2	1.1									
3×150+2×70	3*	1.4	47.0	6161	2511	50.4	7035	3385	55.4	8866	5216
	2	1.1									
3×185+2×95	3*	1.6	52.3	7628	3084	55.7	8596	4052	60.7	10615	6070
	2	1.1									
3×240+2× 120	3*	1.7	58.5	9808	3912	61.9	10890	4993	67.1	13161	7265
	2	1.2									
3×300+2× 150	3*	1.8	64.9	12438	4906	68.3	13638	6107	73.7	16178	8647
	2	1.4									
3×400+2× 185	3*	2.0	72.9	15769	6186	76.3	17117	7534	83.8	21091	11508
	2	1.6									

\*Compacted conductor

1. Conductor
2. Insulation
3. Tape
4. Inner covering
5. Armor (Steel tape、Steel wire)
6. Filler
7. Oversheath

#### ■ Main technical data of cable

Nominal Cross sectional area of

Max. D. C. resistance of conductor at 20°C

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conductor mm <sup>2</sup>	Copper	Aluminum
1	18.1	—
1.5	12.1	—
2.5	7.41	12.1
4	4.61	7.41
6	3.08	4.61
10	1.83	3.08
16	1.15	1.91
25	0.727	1.20
35	0.524	0.868
50	0.387	0.641
70	0.268	0.443
95	0.193	0.320
120	0.153	0.253
150	0.124	0.206
185	0.0991	0.164
240	0.0754	0.125
300	0.0601	0.100
400	0.0470	0.0778
500	0.0366	0.0605
630	0.0283	0.0469
800	0.0221	0.0367
Power frequency A. C. voltage test kV/5min	Test voltage 3.5 kv/5min	

■ **Current carrying capacity of cable**

0.6/1kV XLPE Insulated power cable									
Con- ductor	Nominal cross sectional area of conductor mm <sup>2</sup>	In the air				Under the ground			
		Single-core		2-core	Multi-core	单芯 Single-core		2-core	Multi-core
		○ ○ ○	○○○			○ ○ ○	○○○		
Copper Con- ductor	1.5	22	30	23	21	40	43	39	25
	2.5	30	40	30	28	50	57	51	33
	4	39	53	40	37	71	74	67	44
	6	50	67	50	46	91	94	85	54
	10	70	93	70	63	123	127	114	73
	16	94	124	93	84	158	165	149	94
	25	124	168	126	109	201	231	192	120
	35	154	207	155	132	244	258	230	144

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	50	191	252	189	159	292	304	274	169
	70	241	306	231	195	355	372	335	205
	95	297	384	288	237	433	449	404	245
	120	346	439	329	273	496	512	461	278
	150	399	507	380	310	554	575	518	309
	185	455	591	443	355	624	650	585	347
	240	552	694	521	416	725	757	681	399
	300	652	810	608	473	819	855	770	446
	400	777	937	—	—	934	976	—	—
	500	870	1078	—	—	1061	1110	—	—
	630	990	1250	—	—	—	—	—	—
Alumi- num Con- ductor	10	53	71	53	48	95	97	87	56
	16	77	102	68	65	121	142	128	72
	25	99	130	98	85	159	165	149	93
	35	118	160	120	102	191	199	179	111
	50	150	195	146	123	224	235	212	131
	70	185	239	179	152	283	289	260	159
	95	231	298	224	184	338	348	313	190
	120	268	340	255	213	387	398	358	216
	150	308	392	294	241	430	445	401	240
	185	365	459	344	277	490	505	455	271
	240	427	539	404	326	568	589	530	312
	300	502	629	472	372	639	664	598	351
	400	590	731	548	—	701	762	—	—
	500	687	845	634	—	898	870	—	—
630	800	1000	—	—	—	—	—	—	

The screen-copper-tape and steel wire (including all copper wire for magnetism separation) of single-core steel wire armored power cable for AC system must be connected to earth well and effectively. The current carrying capacity is calculated by formulas of IEC. It is advised in the new edition of GB/T12706 that the current carrying capacity of steel wire armored power cable with special structure is lower than that in IEC standard, so the cross-section should be enlarged appropriately.

#### ■ Installation and Operation Condition of Cable

In air

1. The distance between cable centers of single-core cables laid in parallel: cross sectional area of conductor  $\leq 185 \text{ mm}^2$  : 2 times of the cable diameter; cross-sectional area of conductor  $\geq 240 \text{ mm}^2$  :90mm
2. Ambient air temperature: 30°C.
3. Max. continuous operating temperature of conductor: 90°C.

Current carrying rating factors for different ambient air temperature:

Ambient air temperature	20°C	25°C	30°C	35°C	40°C	45°C
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Rating factor	1.09	1.04	1.00	0.95	0.90	0.84
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Direct in the ground

1. The single-core cables are installed separately, the distance between the cable center is 2 times of the cable diameter.
2. Soil temperature: 25°C.
3. Max.continuous operating temperature of conductor: 90°C.
4. Thermal resistivity of soil: 1.0°C.m/W.
5. Depth of Direct-Buried: 0.7m.

Current carrying rating factors for different soil temperature:

Soil temperature	20°C	25°C	30°C	35°C	40°C
Rating factor	1.04	1.0	0.96	0.92	0.87

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