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ZHENG ZHOU
JINYUAN
WIRE AND CABLE CO., LTD.

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INSULATED
POWER CABLE



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JINYUAN—YOUR POWERFUL AND RELIABLE SOLUTION FOR WIRES AND CABLES.

ABOUT JINYUAN

For over 20 years, Zhengzhou Jinyuan Wire and Cable Co., Ltd., as a professional cable manufacturer, has been producing customized cable for a wide range of applications based on high quality, excellent service and competitive market prices. This is an elite team with experienced personnel and strong technical support. Our achievements benefit by having access to the largest market for cheap labor and abundant resources in China and our determination to exceed our clients' expectations.

PRODUCTS & STANDARDS

We can produce more than 2,000 types of cables and wires, such as

- Bare Conductor: AAC, AAAC, ACSR, ACSR/AW, ACAR, ACSS, ACSS/AW, Aluminum Clad Steel Wire/Strand, Bare Copper Conductors, Copper Clad Steel Wire/Strand, Copper Clad Aluminum(CCA), Galvanized Steel Wire/Strand, etc.
- Overhead Insulated Cable: Covered Line Single Core Cable and Aerial Bundled Cable(ABC). ABC includes Duplex, Triplex, Quadruplex and more Cores Service Drop Cable.
- PVC Insulated Wire up to 450/750V
- PVC or XLPE Insulated Power Cable from 1kV to 36kV
- Control Cable
- Welding Cable
- Rubber Cable

We can produce cables according to the standards of IEC, ASTM, EN (BS, DIN, NF, etc.), AS/NZ and meet customers' special requirements.

ACHIEVEMENTS & COMMITMENT

Our cable has been exported to South-East Asia, South Asia, Middle-East, Europe, North and South America, Africa, Australia & New Zealand and so on. Zhengzhou Jinyuan Wire and Cable Co., Ltd.'s commitment is to be recognized as a zero-defect world class manufacturer in cable industry through continuous improvement of our quality, processes, and products, and by our determination to exceed our clients' expectations.



0.6/1kV PVC INSULATED POWER CABLE

1. Product Performance

PVC insulated power cable is suitable for laying fixed in power transmission and distribution lines with A.C. 50HZ and rated voltage of 0.6/1kV.

- A. Long-time permissible operation temperature of conductor shall not be higher than 70°C.
- B. Max. short-circuit (not more than 5 sec.) temperature of conductor shall not be higher than 160°C.
- C. This cable is not restricted by laying in large difference of level, and the environmental temperature when laid shall not be lower than 0°C.
- D. Perfect chemical stability, good resistance against acids, alkalis, grease and organic solvents, and flame-retardant.
- E. Light weight, good bending properties, easy installation and convenient maintenance.

** Rated Voltage: 0.6/1kV.

** Conductor material: copper or aluminum.

** Qty of cores: single core, two cores, three cores, four cores (3+1 cores), five cores (3+2 cores).

** Cable types: non-armored, double steel tape armored and steel wire armored cables.

** Standards: Chinese national standard GB12706 & 12666, IEC/BS/DIN and so on.

In addition, we can design and produce PVC insulated power cables with some certain special properties based on customers' special requirements.

2. Technical Requirements

A. Description in Chinese Type

Cu Conductor	Al Conductor	Description
VV	VLV	Cu(Al)Conductor PVC Insulated PVC Sheathed Power Cable
NH-VV	NH-VLV	Cu(Al)Conductor PVC Insulated PVC Sheathed Fire Resistant Cable
VY	VLY	Cu(Al)Conductor PVC Insulated PE Sheathed Power Cable
NH-VY	NH-VLY	Cu(Al)Conductor PVC Insulated PE Sheathed Fire Resistant Cable
VV ₂₂	VLV ₂₂	Cu(Al)Conductor PVC Insulated Steel Tape Armored PVC Sheathed Power Cable
NH-VV ₂₂	NH-VLV ₂₂	Cu(Al)Conductor PVC Insulated Steel Tape Armored PVC Sheathed Fire Resistant Cable
VV ₂₃	VLV ₂₃	Cu(Al)Conductor PVC Insulated Steel Tape Armored PE Sheathed Power Cable
NH-VV ₂₃	NH-VLV ₂₃	Cu(Al)Conductor PVC Insulated Steel Tape Armored PE Sheathed Fire Resistant Cable
VV ₃₂	VLV ₃₂	Cu(Al)Conductor PVC Insulated Fine Steel Wire Armored PVC Sheathed Power Cable
NH-VV ₃₂	NH-VLV ₃₂	Cu(Al)Conductor PVC Insulated Fine Steel Wire Armored PVC Sheathed Fire Resistant Cable
VV ₃₃	VLV ₃₃	Cu(Al)Conductor PVC Insulated Fine Steel Wire Armored PE Sheathed Power Cable
NH-VV ₃₃	NH-VLV ₃₃	Cu(Al)Conductor PVC Insulated Fine Steel Wire Armored PE Sheathed Fire Resistant Cable

VV ₄₂	VLV ₄₂	Cu(Al)Conductor PVC Insulated Thick Steel Wire Armored PVC Sheathed Power Cable
NH-VV ₄₂	NH-VLV ₄₂	Cu(Al)Conductor PVC Insulated Thick Steel Wire Armored PVC Sheathed Fire Resistant Cable
VV ₄₃	VLV ₄₃	Cu(Al)Conductor PVC Insulated Thick Steel Wire Armored PE Sheathed Power Cable
NH-VV ₄₃	NH-VLV ₄₃	Cu(Al)Conductor PVC Insulated Thick Steel Wire Armored PE Sheathed Fire Resistant Cable

B. Nominal Cross-Sectional of Conductor(mm²)

Phase core	1	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
3+1 Neutral Core	-	-	1.5	2.5	4	6	10	16	16	25	35	50	70	70	95	120	150
3+2 Neutral Core	-	-	1.5	2.5	4	6	10	16	16	25	35	50	70	70	95	120	150
4+1 Neutral Core	-	-	1.5	2.5	4	6	10	16	16	25	35	50	70	70	95	120	150

C. Nominal Thickness of Insulation(mm)

mm ² kV	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
0.6/1	0.8	1	1	1	1	1.2	1.2	1.4	1.4	1.6	1.6	1.8	2.0	2.2	2.4	2.6	2.8	2.8

D. DC Resistance of Conductors

Nominal Cross-Section (mm ²)	Resistance not more than 20°C (Ω/km)		Nominal Cross-Section (mm ²)	Resistance not more than 20°C (Ω/km)		Nominal Cross-Section (mm ²)	Resistance not more than 20°C (Ω/km)		Nominal Cross-Section (mm ²)	Resistance not more than 20°C (Ω/km)	
	Cu	Al		Cu	Al		Cu	Al		Cu	Al
1.5	12.1	18.1	25	0.727	1.20	150	0.124	0.206	630	0.0283	0.0469
2.5	7.41	12.1	35	0.524	0.868	185	0.0991	0.164	800	0.0221	0.0369
4	4.61	7.41	50	0.387	0.641	240	0.0754	0.125	1000	0.0178	0.0291
6	3.08	4.61	70	0.268	0.443	300	0.0601	0.100			
10	1.83	3.08	90	0.193	0.320	400	0.0470	0.0778			
16	1.15	1.91	120	0.153	0.253	500	0.0366	0.0605			

0.6/1kV XLPE INSULATED POWER CABLE

1. Brief Introduction

XLPE insulated power cable has a number of advantages compared with paper insulated and PVC insulated cables. XLPE cable has high electric property, mechanical property, heat aging performance, environmental

stress crack resistance, chemical corrosion resistance, and it also has simple structure, convenient operation and it is not restricted by laying in large difference of level. It can be applied in high temperature of 90 degree for a long time.

Various of flame-retardant and non-flame-retardant XLPE cables can be manufactured by three kinds of technological processes: peroxidation, silanization and irradiation. The flame-retardant cable covers three classes of A, B, C and low-smoke low-halogen, low-smoke non-halogen cables.

Our XLPE cable are produced according to our own technical specification which is equivalent to IEC 60502, IEC60332, and IEC 60754, even some of our indexes are superior to the above international IEC standards. Meanwhile, we can produce cables according to other standards and can design the XLPE cables with some certain special properties according to customers' requirements.

XLPE cable can be applied in high temperature for a long time and has bigger current capacity. In the same environment conditions, compared with paper insulated and PVC insulated cables, XLPE cable can lessen the cross section by 1 or 2 grades. In this way, we not only can improve the qualities and properties of products, but also can reduce the production costs.

2. Scope

Chinese Type				Qty. of Core	Nominal Cross-Sectional of Conductor(mm ²)
YJV YJV ₂₂ YJV ₃₂ YJV ₄₂ ZR-YJV* ZR-YJY ZR-YJV ₂₂ ZR-YJV ₂₃ ZR-YJV ₃₂ ZR-YJV ₃₃ ZR-YJV ₄₂ ZR-YJV ₄₃	YJLV YJLV ₂₂ YJLV ₃₂ YJLV ₄₂	YJY YJV ₂₃ YJV ₃₃ YJV ₄₃	YJLY YJLV ₂₃ YJLV ₃₃ YJLV ₄₃	1	1.5~1000
		ZR-YJLV ZR-YJLV ZR-YJLV ₂₂ ZR-YJLV ₂₃ ZR-YJLV ₃₂ ZR-YJLV ₃₃ ZR-YJLV ₄₂ ZR-YJLV ₄₃		2 3 4 5	1.5~400**
				3+1 4+1 3+2	2.5~400

** Note: "ZR-" flame-retardant cable covers three classes A, B, and C. They can be expressed as "ZRA-" or "ZRB-" or "ZRC-" respectively. For example: "ZRB-YJV", or "ZRA-YJV₂₂".

Appendix

Multi-core cables with 3+1 cores, 4+1 cores and 3+2 cores should follow the following regulation:

Nominal cross-section (mm ²)	Main Cores	2.5	4	6	10	16	25	35	50
	Neutral Core	1.5	2.5	4	6	10	16	16	25
Nominal cross-section (mm ²)	Main Cores	70	95	120	150	185	240	300	400
	Neutral Core	35	50	70	70	95	120	150	185

3. Type and Description

Chinese Type		Description
Cu Conductor	Al Conductor	
YJV (YJY)	YJLV (YJLY)	XLPE Insulated, PVC (PE) Sheathed Power Cable
YJV ₂₂ (YJV ₂₃)	YJLV ₂₂ (YJLV ₂₃)	XLPE Insulated, Steel Tape Armored, PVC(PE) Sheathed Power Cable
YJV ₃₂ (YJV ₃₃)	YJLV ₃₂ (YJLV ₃₃)	XLPE Insulated, Fine Steel Wire Armored, PVC(PE) Sheathed Power Cable
YJV ₄₂ (YJV ₄₃)	YJLV ₄₂ (YJLV ₄₃)	XLPE Insulated, Thick Steel Wire Armored, PVC(PE) Sheathed Power Cable
ZR-YJV (ZR-YJY)	ZR-YJLV (ZR-YJLY)	XLPE Insulated, PVC(PE) Sheathed Flame-retardant Power Cable
ZR-YJV ₂₂ (ZR-YJV ₂₃)	ZR-YJLV ₂₂ (ZR-YJLV ₂₃)	XLPE Insulated, Steel Tape Armored, PVC(PE) Sheathed Flame-retardant Power Cable
ZR-YJV ₃₂ (ZR-YJV ₃₃)	ZR-YJLV ₃₂ (ZR-YJLV ₃₃)	XLPE Insulated, Fine Steel Wire Armored, PVC(PE) Sheathed Flame-retardant Power Cable
ZR-YJV ₄₂ (ZR-YJV ₄₃)	ZR-YJLV ₄₂ (ZR-YJLV ₄₃)	XLPE Insulated, Thick Steel Wire Armored, PVC(PE) Sheathed Flame-retardant Power Cable

4. Main Technical Data

A. DC Resistance:

Conductor resistance per km of finished cable at 20°C should be no more than the following:

Nominal Cross-Section (mm ²)	1.5	2.5	4	6	10	16	25
Cu Conductor (Ω/km)	12.1	7.41	4.61	3.08	1.83	1.15	0.727
Al Conductor (Ω/km)	18.1	12.1	7.41	4.61	3.08	1.91	1.20
Nominal Cross-Section (mm ²)	35	50	70	95	120	150	185
Cu Conductor(Ω/km)	0.524	0.387	0.268	0.193	0.153	0.124	0.0991
Al Conductor (Ω/km)	0.868	0.641	0.443	0.320	0.253	0.206	0.164
Nominal Cross-Section (mm ²)	240	300	400	500	630	800	1000
Cu Conductor (Ω/km)	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
Al Conductor (Ω/km)	0.125	0.100	0.0778	0.0605	0.0469	0.0367	0.0291

B. Voltage Test

Each drum of finished products should withstand power frequency voltage 3.5kV for 5 minutes, the insulation is not breakdown.

5. Service Conditions and Parameters

The cable is applied to fixed installation for 0.6/1kV of power transportation and distribution line.

Max. rated temperature of conductor: nominal operating 90°C
short circuit: (max. for 5 Sec.) 250°C

Temperature of laid: in air 25°C
underground 15°C

For laying, single core, triangle laying for three cables.

Depth of laid: 100cm

Coefficient of thermal resistivity of soil 100°C.cm/w

Cable can be laid without drop restriction, and environment temperature shall not be lower than 0°C.
Single core, steel tape armored cable should be only applied to DC line.

6~36kV XLPE INSULATED POWER CABLE

1. Standard

Cables will be produced as per Chinese national standard GB/T12706.2-12706.3 equivalent to IEC 60502

2. Application

This product is suitable for using in rated voltage from 6/6kV to 26/35kV system transmission and distribution lines. Based on different sheath structures, it can be used for laying in the air and underground.

3. Types, Description and Installation Place

Chinese Type		Description	Installation Place
Cu Conductor	Al Conductor		
YJV	YJLV	XLPE Insulated, PVC Sheathed Power Cable	Laid in indoor, outdoor, tunnels, cable canals, reinforced concrete pipelines and loose soil. Cable should not bear outer mechanic force, but can bear a certain tractional force.
YJV22	YJLV22	XLPE Insulated, Steel Tape Armored and PVC Sheathed Power Cable.	Laid underground. Cable can bear outer mechanic force, but should not bear large tractional force.
YJV32	YJLV32	XLPE Insulated, fine Steel Wire Armored and PVC Sheathed Power Cable	Laid in indoor, tunnels and mines. Cable can bear outer mechanic force and fairly large tractional force.
YJV42	YJLV42	XLPE Insulated, thick Steel Wire Armored and PVC Sheathed Power Cable.	Laid in vertical section, indoor, tunnels and mines. Cable can bear outer mechanic force and very large tractional force.

4. Cable Manufacture Scope

Chinese Type	Qty. of Core	Rated Voltage (U ₀ /U) KV					
		6/6	6/10	8.7/10	8.7/15	12/20	18/20 21/35 26/35
Standard Conductor Cross-Section (mm ²)							
YJV YJV32(42)	1	25~630	25~630	25~400	50~6300		
YJLV YJLV32(42)		35~630	35~630	35~300	50~630		
YJV22		25~500	25~500	35~500	50~630		
YJLV22		35~500	35~500	35~500	50~630		
YJV YJV22	3	25~300	25~300	35~300	50~300		
YJLV YJLV22		35~300	35~300	35~300	50~300		
YJLV32 YJLV32		25~300	25~300	35~300	50~300		
YJLV42 YJLV42		35~185	35~185	35~150	50~300		

5. Calculated Overall Diameter and Weight of Cable

The following calculated overall diameter and weight of cable are only for users' reference in storage, transportation and installation. They are not standard technical parameters.

A. Calculated Overall Diameter and Weight of Single-Core Cable.

Rated Voltage U ₀ /U (KV)	Nominal Cross-Section of Conductor (mm ²)	Calculated Overall Diameter of Cable (mm)					Calculated Weight of Cable (kg/km)				
		YJV YJLV	YJV32 YJLV32	YJV42 YJLV42	YJV	YJLV	YJV32	YJLV32	YJV42	YJLV42	
6/6 6/10	25	20.1	25.8	33.8	672	-	1817	-	2908	-	
	35	22.7	28.9	34.9	794	580	1840	1623	3168	2951	
	50	24.0	30.2	36.2	956	654	2059	1757	3443	3141	
	70	25.7	32.1	38.1	1197	763	2386	1953	3705	3300	
	95	27.3	33.7	39.7	1471	881	2729	2139	4170	3500	
	120	28.9	35.3	41.3	1742	1002	3096	2326	4577	3787	
	150	30.5	36.9	42.9	2070	1136	3466	2532	5149	4150	
	185	32.3	38.7	44.7	2446	1296	3914	2764	5643	4448	
	240	34.8	41.1	47.1	3011	1527	4576	3093	6631	4880	
	300	37.0	44.5	49.5	3622	1762	5694	3834	7230	5360	
8.7/10 8.7/15	400	40.4	48.1	52.9	4637	2155	6912	4430	8531	6049	
	500	43.4	51.3	55.9	5637	2536	8095	4994	9780	6679	
	630	47.2	54.9	59.5	7004	3040	9628	5684	11427	7483	
	25	23.0	38.3	33.5	786	-	1826	-	2960	-	
	35	25.0	31.5	37.5	892	676	2052	1836	3184	2967	
	50	26.3	32.7	38.8	1050	753	2275	1973	3459	3145	
	70	28.0	34.6	40.7	1270	859	2613	2170	3819	3390	
	95	29.8	36.3	42.3	1519	987	2963	2373	4251	3670	
	120	31.2	37.9	43.9	1800	1104	3306	2565	4680	3980	
	150	33.1	39.5	45.5	2102	1235	3711	2777	5260	4370	

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	185	34.9	41.3	47.3	2488	1377	4164	3014	5760	4956
	240	37.1	43.7	49.7	3153	1687	4838	3354	6580	5152
	300	39.5	46.3	51.9	3789	1929	5599	3739	7584	5617
	400	42.9	49.9	55.3	4817	2335	6799	4317	8795	6414
12/20	35	28.1	34.8	40.7	979	768	2355	2123	3780	3560
	50	29.6	36.1	42.0	1155	851	2610	2295	4060	3740
	70	31.3	38.0	44.0	1393	960	2894	2460	4410	3987
	95	33.2	39.6	45.5	1681	1107	3267	2700	4861	4270
	120	34.8	41.2	47.2	1989	1245	3630	2890	5269	4527
	150	36.4	42.8	48.9	2328	1392	4531	3610	5837	4898
	185	38.2	45.8	50.5	2718	1950	4990	3857	6380	5203
	240	40.4	48.2	52.9	3332	1829	5735	4250	7100	5614
	300	42.8	50.8	55.2	3963	2103	6457	4597	8000	6120
	400	46.2	54.2	58.5	5077	2595	7882	5199	9330	6758
18/20	50	35.3	41.7	47.7	1551	1250	3141	2840	4998	4696
	70	37.0	44.6	49.6	1823	1390	3898	3464	5438	5004
	95	38.8	46.6	51.2	2142	1552	4334	3745	5881	5291
	120	40.2	48.8	52.8	2427	1686	4695	3954	6130	5569
	150	42.0	49.6	54.4	2802	1868	5138	4203	6807	5873
	185	43.6	51.6	56.2	3192	2042	5665	4515	7358	6208
	240	46.1	54.0	58.4	3791	2317	6396	4912	8139	6655
	300	48.5	56.6	60.8	4472	2612	7221	5361	9005	7145
	400	51.9	60.0	64.2	5551	3069	8478	5995	10364	7882
	18/30	50	38.1	45.8	50.6	1724	1423	3881	3850	5369
70		40.0	47.7	52.3	2019	1586	4272	3838	5795	5361
95		41.8	49.5	54.1	2348	1758	4689	4100	6269	5680
120		43.2	51.1	55.7	2772	1961	5087	4346	6772	5962
150		45.0	52.9	57.3	3023	2089	5561	4627	7210	6275
185		46.6	54.5	59.1	3420	2270	6044	4894	7772	6621
240		49.0	57.1	61.5	4039	2556	6819	5335	8589	7106
300		51.4	59.5	63.7	4723	2863	7625	5765	9433	7581
400		54.9	63.1	67.1	5818	3335	8930	6448	10818	8336
21/35		50	40.8	48.5	53.3	1906	1604	4205	3903	5838
	70	42.7	50.6	55.0	2211	1778	4633	4200	6272	5838
	95	44.5	52.4	56.8	2547	1958	5059	4469	6751	6162
	120	45.9	53.8	58.2	2845	2104	5433	4692	7171	6430
	150	47.8	55.8	60.0	3237	2302	5945	5011	7704	6770
	185	49.4	57.4	61.8	3639	2489	6436	5286	8237	7123
	240	51.8	59.8	64.0	4270	2786	7188	5704	9071	7588
	300	54.2	62.4	66.4	4963	3104	8041	6181	9960	8100
	400	57.6	65.8	69.8	6072	3590	9329	6847	11350	8868

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B. Calculated Overall Diameter and Weight of Three-Core Cable.

Rated Voltage U ₀ /U (kV)	Nominal Cross-Section of Conductor (mm ²)	Calculated Overall Dia. of Cable (mm)				Calculated Weight of Cable (kg/km)							
		YJV	YJV ₂₂	YJV ₃₂	YJV ₄₂	YJV	YJLV	YJV ₂₂	YJLV ₂₂	YJV ₃₂	YJLV ₃₂	YJV ₄₂	YJLV ₄₂
		YJLV	YJLV ₂₂	YJLV ₃₂	YJLV ₄₂								
6/6	25	40.0	44.3	47.6	51.5	2220	-	3488	-	4678	-	6320	-
	35	44.5	49.7	52.9	57.3	2596	1931	3830	3165	5177	4512	6881	6216
	50	48.1	53.5	56.7	60.9	3150	2226	4390	3440	5957	5033	7743	6819
	70	52.0	57.4	60.5	64.9	3678	2365	5368	4050	6955	5628	8885	7558
	95	55.6	61.2	64.4	68.6	4785	2978	6360	4520	8091	6287	10530	8323
	120	58.8	64.6	68.0	71.8	5687	3404	7510	5238	9126	6895	11380	9100
	150	62.7	68.5	73.0	75.5	6667	3824	8585	5732	11256	8397	12530	9670
	185	66.3	72.3	76.8	79.3	8023	4500	9884	6375	12740	9220	14090	10554
	240	71.4	77.6	82.2	84.2	10227	5645	11825	7261	14945	10405	16420	11870
	300	76.4	84.2	87.5	89.4	11735	6044	14040	8349	17346	11655	18752	13061
8.7/10	25	44.8	51.1	53.6	56.3	2488	-	2225	-	5509	-	7015	-
	35	50.5	55.5	59.1	63.3	2937	2273	4308	3644	5842	5176	7727	7603
	50	53.5	58.7	62.3	66.3	3428	2497	4905	3925	6415	5467	8548	7624
	70	57.3	62.5	66.1	70.1	4148	2835	5728	4404	7506	6184	9687	8361
	95	61.0	66.4	70.0	73.8	5054	3257	6929	5120	8654	6847	10919	9114
	120	64.2	69.8	74.9	77.2	6077	3805	7920	5644	9735	7453	12075	9809
	150	67.9	73.7	78.5	80.8	7030	4180	9010	6156	12099	9240	13448	10589
	185	71.7	77.1	82.4	84.5	8228	4720	10480	6960	13612	10092	14979	11459
	240	76.6	84.0	87.7	89.6	10010	5457	12510	7950	15853	11313	17262	12722
	300	81.8	89.4	92.9	94.6	12172	6841	14680	8980	18249	12558	19689	13998
12/20	35	53.5	58.7	61.9	67.3	2895	2228	4215	3548	5915	5248	8032	7364
	50	56.5	61.5	64.7	69.9	3462	2509	4873	3920	6652	5696	8844	7890
	70	60.0	65.4	68.8	73.8	4243	2908	5750	4415	7889	6354	9979	8644
	95	63.8	69.5	72.7	77.5	5155	3343	6814	5002	8820	7008	11145	9333
	120	67.0	72.8	77.3	81.0	6046	3757	7787	5498	10784	8495	12423	10134
	150	70.7	76.7	81.2	84.7	7104	4243	8975	6114	12094	9232	13733	10872
	185	74.7	80.6	85.3	88.4	8300	4772	10271	6743	13652	10123	15289	11761
	240	80.1	87.7	91.0	93.9	10159	5581	13202	8624	15916	11338	17628	13050
	300	84.9	92.5	95.8	98.7	12137	6415	15361	9639	18211	12489	19993	14271

Rated Voltage U ₀ /U (kV)	Nominal Cross-Section of Conductor (mm ²)	Armored Layer (mm)		Nominal Thickness of Sheath(mm)		Calculated Overall Dia.(mm)		Calculated Weight (kg/km)			
		Nominal Thickness of Inner Sheath	Thickness of Steel Tape	Non-armored Type	Steel Tape Armored	Non-armored Type		Steel Tape Armored		YJV ₂₂ YJLV ₂₂	YJV YJLV
						YJV YJLV	YJV ₂₂ YJLV ₂₂	YJV ₂₂ YJLV ₂₂	YJV YJLV		
21/35	50	2.0	2x0.8	3.5	3.8	78.4	86.2	5756	4832	9145	8221
	70	2.1	2x0.8	3.6	3.9	82.3	90.3	6671	5345	10264	8938
	95	2.2	2x0.8	3.7	4.0	86.0	94.2	7664	5859	11455	9650
	120	2.2	2x0.8	3.8	4.1	89.2	97.4	8612	6346	12538	10272
	150	2.3	2x0.8	3.9	4.2	92.6	101.0	9780	6920	13897	11037
	185	2.4	2x0.8	4.1	4.4	96.5	105.0	11093	7574	15419	11900
	240	2.5	2x0.8	4.3	4.5	101.6	110.2	13030	8490	17580	13040
	300	2.6	2x0.8	4.5	4.6	106.7	115.3	15163	9472	19936	14246
26/35	50	2.1	2x0.8	3.7	3.9	84.2	92.0	6363	5440	9990	9067
	70	2.2	2x0.8	3.8	4.1	88.0	96.2	7294	5968	11170	9844
	95	2.3	2x0.8	3.9	4.2	91.7	100.1	8326	6521	12402	10597
	120	2.3	2x0.8	4.0	4.3	94.9	103.3	9295	7029	13509	11243
	150	2.4	2x0.8	4.2	4.4	98.5	106.9	10516	9656	14884	12024
	185	2.5	2x0.8	4.3	4.5	102.2	110.8	11803	8284	16379	12860
	240	2.6	2x0.8	4.4	4.6	107.1	115.9	13727	9187	18572	14023
	300	2.6	2x0.8	4.5	4.7	112.0	120.8	15844	10153	20907	15216

Control Cable

1. Standard

The cables can be produced according to Chinese national standard GB9330 and we can produce the cable in accordance with other International standards or based on customer's specification.

2. Application

The cables are suitable for the connection of controlling electrical equipments and instrument monitoring and controlling return circuit, protecting and measuring in power distribution unit under the circumstance that the rated voltage is up to 450/750V.

3. Type, Description and Specification

Chinese Type	Description	Nominal Cross-Section(mm ²)	Qty of Core	Application Site
KVV	Copper Conductor, PVC Insulated and Sheathed Control Cable	0.75,1.0,1.5,2.5	2~16	Permanent installation indoors in cable ditches or pipes
		4,6	2~14	
		10	2~10	
KVV _P	Copper Conductor, PVC Insulated and Sheathed, Braiding Shielded Control Cable	0.75,1.0,1.5,2.5	2~61	Permanent installation indoors, in cable ditches or pipes where shielding is required
		4,6	2~14	
		10	2~10	
KVV _{P2}	Copper Conductor, PVC Insulated and Sheathed, Copper Tape Screened Control Cable	0.75,1.0,1.5,2.5	4~10	Permanent installation indoors, in cable ditches or pipes where shielding is required
		4,6	7~61	
		10	4~10	
KVV ₂₂	Copper Conductor, PVC Insulated and Sheathed, Steel Tape Armored Control Cable	0.75,1.0,1.5,2.5	7~61	Permanent installation indoors, in cable ditches, pipes or underground Be able to bear stronger outer mechanical force
		4,6	4~14	
		10	4~14	
KVV _R	Copper Conductor, PVC Insulated and Sheathed Flexible Control Cable	0.5~2.5	4~61	Installation indoors where flexibility and movability are required
KVV _{RP}	Copper Conductor, PVC Insulated and Sheathed, Braiding Shielded Flexible Control Cable	0.5,0.75,1.0	4~61	Installation indoors where flexibility Shielding and movability are required
		1.5,2.5	4~48	
KYJV	Copper Conductor, XLPE Insulated and PVC Sheathed Control Cable	0.75, 1.0, 1.5, 2.5	2~16	Permanent installation indoors, in cable ditches or pipes
		4, 6	2~14	
		10	2~10	
KYJV _P	Copper Conductor, XLPE Insulated ,Braiding Shielded, PVC Sheathed Control Cable	0.75, 1.0, 1.5, 2.5	2~61	Permanent installation indoors, in cable ditches or pipes where shielding is required
		4, 6	4~14	
		10	4~10	
KYJV ₂₂	Copper Conductor, XLPE Insulated, Steel Tape Armored, PVC Sheathed Control Cable	0.75, 1.0, 1.5, 2.5	7~61	Permanent installation indoors, in cable ditches or pipes underground, Be able to bear stronger outer mechanical force
		4, 6	4~14	
		10	4~10	
KVJVP ₂	Copper Conductor, XLPE Insulated, Copper Tape Screened, PVC Sheathed Control Cable	0.75, 1.0, 1.5, 2.5	7~61	Permanent installation indoors, in cable ditches or pipes where shielding is required
		4, 6	4~14	
		10	4~10	
KYJVR	Copper Conductor, XLPE Insulated, PVC Sheathed Flexible Control Cable	0.5-2.5	4~61	Installation indoors where flexibility and movability
KYJV _{RP}	Copper Conductor, XLPE Insulated, Braiding Shielded, PVC Sheathed Flexible Control Cable	0.5, 0.75, 1.0	4~61	Installation indoors where flexibility shielding and movability are required
		1.5, 2.5	4~48	

4. The Requirement for Using

The long-time working temperature of conductor of PVC insulated cable is 70℃.

The long-time working temperature of conductor of XLPE insulated cable is 90℃.

Welding Cable

1. Standard

Welding cable is produced according to Chinese national standard GB5013, equivalent to IEC60245.

2. Application

A. This cable is suitable for the voltage to the ground not more than AC 200V and its pulsating current value DC 400V welding connecting line and so on.

B. The long-time permissible working temperature of cable is not more than 65℃.

3. Type and Description

Chinese Type	Description
YH	Natural rubber sheath for welding cable
YHF	Horoprene rubber or other synthetic sheath welding cable

4. Technical Data

Nominal Cross-Section (mm ²)	No./Diameter of Stranding(mm)	Nominal Sheath Thickness (mm)	Overall Diameter(mm)		Max. Conductor Resistance at 20℃(Ω/km)	
			Min.	Max.	Without Tinned	With Tinned
10	322/0.20	1.8	7.5	9.7	1.91	1.95
16	513/0.20	2.0	9.2	11.5	1.16	1.19
25	798/0.20	2.0	10.5	13.0	0.758	0.780
35	1121/0.20	2.0	11.5	14.5	0.536	0.552
50	1596/0.20	2.2	13.5	17.0	0.379	0.390
70	2214/0.20	2.4	15.0	19.5	0.268	0.276
95	2297/0.20	2.6	17.0	22.0	0.198	0.204
120	1702/0.30	2.8	19.0	24.0	0.161	0.164
150	2135/0.30	3.0	21.0	27.0	0.129	0.132
185	1443/0.40	3.2	22.0	29.0	0.106	0.108
240	1908/0.40	3.8	25.0	35.0	0.0801	0.0817

General Rubber Sheathed Flexible Cable

1. Standard

Rubber insulated cable with rated voltage up to 450/750V is in accordance with the Chinese national standard GB5013, equivalent to IEC60245. Rubber insulated flexible wire and cable with rated voltage up to 450/750V is in accordance with the standard JB8735, equivalent to IEC60245.

2. Application

The cable is suitable for the drives devices, household electrical instrument, all kinds of portable electrical equipments and electromotive tools at A.C. rated voltage up to and including 450/750V. The long-time max. permissible working temperature of conductor is 60℃.

3. Type, Description and Specification

Chinese Type	Description	Rated Voltage(V)	Qty. of Core	Nominal Cross-Section(mm ²)	Application Site
YQ YQW	Light-type Rubber Sheathed Flexible Cable	300/500	2,3	0.3~0.5 2, 3, 4, 5	For portable electric instruments, equipments and tools
YZ YZW	Medium-type Rubber Sheathed Flexible Cable	300/500	2, 3, 4, 5 3+1	0.75~6 1.5~6	For portable electric instruments, equipments and tools and can afford larger external forces
YC YCW	Heavy-type Rubber Sheathed Cable	450/750	1 2 3, 4 5 3+1	1.5~400 1~95 1~150 1~25 1.5~150	For portable electric instrument, equipment and can afford larger external forces and weather-resistance and oil-resistance