

架空绝缘电缆 —— 额定电压 1KV、10KV、35KV
Aerial Insulated Cable —— Rated voltage 1KV,10KV,35KV

型号、名称和用途 Model, Name & Application:

Rated voltage	Model	Name	Application
0.6/1KV	JKV	额定电压 0.6/1kv 铜 (铝) 芯聚氯乙烯绝缘架空电缆	架空固定敷设、引户线等 Overhead fixed layout, service line, etc
	JKLV	Copper (Aluminum) conductor,PVC insulated,aerial cable	
	JKY	额定电压 0.6/1kv 铜 (铝) 芯聚乙烯绝缘架空电缆	
	JKLY	Copper (Aluminum) conductor,PE insulated,aerial cable	
10KV	JKLYJ/Q	铝芯轻型交联聚乙烯薄绝缘架空电缆 Aluminum conductor,XLPE thin-insulated,light aerial cable	电缆架设时应考虑电缆和树木保持一定距离, 电缆运行时允许和树木短时接触。 When erected, a certain distance between aerial cables and trees should be kept. Only a short touch with trees is allowed when cables are running.
	JKLY/Q	铝芯轻型聚乙烯薄绝缘架空电缆 Aluminium conductor,PE thin-insulated,light aerial cable	
	JKLGYJ/Q	带钢芯承载的铝芯轻型交联聚乙烯薄绝缘架空电缆 Aluminum conductor with steel reinforced,XLPE thin-insulated,light aerial cable	
10KV 35KV	JKYJ	铜 (铝) 芯交联聚乙烯绝缘架空电缆	电缆架设时应考虑电缆和树木保持一定距离, 电缆运行时允许和树木短时接触。 When erected, a certain distance between aerial cables and trees should be kept. Only a short touch with trees is allowed when cables are running.
	JKLYJ	Copper (Aluminum) conductor,XLPE insulated,aerial cable	
	JKY	铜 (铝) 芯聚乙烯绝缘架空电缆	
	JKLY	Copper (Aluminium) conductor,PE insulated,aerial cable	
35KV	JKLYJ/B	铝芯本色交联聚乙烯绝缘架空电缆 Aluminum conductor,natural-color XLPE insulated,aerial cable	
	JKLGYJ	带钢芯承载的铝芯交联聚乙烯薄绝缘架空电缆 Aluminium conductor with steel reinforced,XLPE thin-insulated,aerial cable	

产品参数 Product data:
0.6/1KV 单芯交联聚乙烯绝缘架空电缆
0.6/1KV Single-core XLPE Insulated, Aerial Cable

导体标称截面 Nominal cross- sectional area of conductor (mm ²)	绝缘标称 厚度 Nominal insulation thickness (mm)	电缆最大 外径 Max. Diameter of cable (mm)	电缆重量 Cable weight (kg/km)		20℃导体最大直流 电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空 气中) Current carrying (In air) (A)	
			Cu	Al	Cu	Al	Cu	Al	Cu	Al

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10	1.0	6.5	103	42	1.906	3.08	3471	1650	63	50
16	1.2	8.0	178	80	1.198	1.91	5486	2512	84	67
25	1.2	9.4	266	112	0.749	1.20	8465	3762	107	88
35	1.4	11.0	366	150	0.540	0.868	11731	5177	134	108
50	1.4	12.3	510	200	0.399	0.641	16502	7011	172	136
70	1.4	14.1	697	264	0.276	0.443	23461	10354	207	168
95	1.6	16.5	945	358	0.199	0.320	31759	13727	257	208
120	1.6	18.1	1175	435	0.158	0.253	39911	17339	295	240
150	1.8	20.2	1470	512	0.128	0.206	49505	21033	360	276
185	2.0	22.5	1813	590	0.1021	0.164	61846	26732	412	320
240	2.0	25.6	2343	668	0.0777	0.125	79823	34679	496	384

0.6/1KV 两芯交联聚乙烯绝缘架空电缆

0.6/1KV Two-core XLPE Insulated, Aerial Cable

导体标称截面 Nominal cross-sectional area of conductor (mm ²)	绝缘标称厚度 Nominal insulation thickness (mm)	电缆最大外径 Max. Diameter of cable (mm)	电缆重量 Cable weight (kg/km)		20°C导体最大直流电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空气中) Current carrying (In air) (A)	
			Cu	Al	Cu	Al	Cu	Al	Cu	Al
10	1.0	13.0	232	108	1.906	3.08	6594	3135	53	40
16	1.2	16.0	357	159	1.198	1.91	10423	4782	72	56
25	1.2	18.8	534	223	0.749	1.20	16083	7147	96	73
35	1.4	22.0	734	299	0.540	0.868	22288	9836	112	88
50	1.4	24.6	1021	400	0.399	0.641	31353	13320	144	112
70	1.4	28.2	1396	528	0.276	0.443	44575	19672	176	136
95	1.6	33.0	1894	715	0.199	0.320	60342	26081	216	168
120	1.6	36.2	2360	870	0.158	0.253	75830	32944	252	196

0.6/1KV 三芯交联聚乙烯绝缘架空电缆

0.6/1KV Three-core XLPE Insulated, Aerial Cable

导体标称截面 Nominal cross-sectional area of conductor (mm ²)	绝缘标称厚度 Nominal insulation thickness (mm)	电缆最大外径 Max. Diameter of cable (mm)	电缆重量 Cable weight (kg/km)		20°C导体最大直流电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空气中) Current carrying (In air) (A)	
			Cu	Al	Cu	Al	Cu	Al	Cu	Al
10	1.0	14.0	348	162	1.906	3.08	9397	4702	50	38
16	1.2	17.2	534	240	1.198	1.91	15583	7173	67	54
25	1.2	20.2	798	336	0.749	1.20	24125	10721	86	70
35	1.4	23.7	1098	450	0.540	0.868	33433	14754	107	88
50	1.4	26.5	1530	600	0.399	0.641	47748	19981	138	109
70	1.4	30.4	2091	792	0.276	0.443	66863	29508	166	134
95	1.6	35.5	2835	1074	0.199	0.320	90513	39121	206	166
120	1.6	39.0	3525	1305	0.158	0.253	113746	49416	236	192

0.6/1KV 四芯交联聚乙烯绝缘架空电缆
0.6/1KV Four-core XLPE Insulated, Aerial Cable

导体标称截面 Nominal cross-sectional area of conductor (mm ²)	绝缘标称厚度 Nominal insulation thickness (mm)	电缆最大外径 Max. Diameter of cable (mm)	电缆重量 Cable weight (kg/km)		20°C导体最大直流电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空气中) Current carrying (In air) (A)	
			Cu	Al	Cu	Al	Cu	Al	Cu	Al
			10	1.0	15.7	464	216	1.906	3.08	13189
16	1.2	19.3	712	320	1.198	1.91	17426	9564	59	47
25	1.2	22.7	1064	448	0.749	1.20	32167	14295	75	62
35	1.4	26.6	1464	600	0.540	0.868	44577	19672	94	77
50	1.4	29.7	2040	800	0.399	0.641	62707	26641	121	95
70	1.4	34.0	2788	1056	0.276	0.443	89151	39345	207	118
95	1.6	39.8	3780	1432	0.199	0.320	120684	52151	180	146
120	1.6	43.7	4700	1740	0.158	0.253	151661	65888	207	168

10KV 单芯交联聚乙烯绝缘 (普通绝缘) 架空电缆
10KV Single-core XLPE Insulated (common-insulated), Aerial Cable

导体标称截面 Nominal cross-sectional area of conductor (mm ²)	绝缘标称厚度 Nominal insulation thickness (mm)	电缆最大外径 Max. Diameter of cable (mm)	电缆重量 Cable weight (kg/km)		20°C导体最大直流电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空气中) Current carrying (In air) (A)	
			Cu	Al	Cu	Al	Cu	Al	Cu	Al
			10	3.4	11.6	70	45	1.830	3.08	3471
16	3.4	12.6	180	100	1.150	1.91	5486	2512	112	87
25	3.4	15.8	300	160	0.749	1.20	8465	3762	152	118
35	3.4	16.8	450	230	0.540	0.868	11731	5177	192	149
50	3.4	18.1	600	300	0.399	0.641	16502	7011	232	180
70	3.4	19.8	800	370	0.276	0.443	23461	10354	291	226
95	3.4	21.6	1010	460	0.199	0.320	31759	13727	357	276
120	3.4	23.0	1290	550	0.158	0.253	39911	17339	413	320
150	3.4	24.0	1580	650	0.128	0.206	49505	21033	473	366
185	3.4	26.2	1920	770	0.1021	0.164	61846	26732	545	423
240	3.4	28.4	2440	950	0.0777	0.125	79823	34679	647	503
300	3.4	30.6	2960	1130	0.0619	0.100	99788	43349	749	538

10KV 三芯交联聚乙烯绝缘 (普通绝缘) 架空电缆
10KV Three-core XLPE Insulated (common-insulated), Aerial Cable

导体标称截面 Nominal cross-sectional area of conductor	绝缘标称厚度 Nominal insulation thickness	电缆最大外径 Max. Diameter of cable	电缆重量 Cable weight (kg/km)		20°C导体最大直流电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空气中) Current carrying (In air) (A)	
			Cu	Al	Cu	Al	Cu	Al	Cu	Al

(mm ²)	(mm)	(mm)	Cu	Al	Cu	Al	Cu	Al	Cu	Al
25	3.4	31.6	600	320	0.749	1.200	24125	10721	122	95
35	3.4	33.6	900	460	0.540	0.868	33433	14754	154	119
50	3.4	36.2	1200	600	0.399	0.641	47030	19981	186	144
70	3.4	39.6	1600	740	0.276	0.443	66863	29508	233	181
95	3.4	43.2	2020	920	0.199	0.320	90513	39121	286	221
120	3.4	46.0	2580	1100	0.158	0.253	113746	49416	330	256
150	3.4	48.0	3160	1300	0.128	0.206	141089	59944	378	293
185	3.4	52.4	3840	1540	0.1021	0.164	176261	76186	436	338
240	3.4	56.8	4880	1900	0.0777	0.125	227495	98835	517	402
300	3.4	61.2	5920	2260	0.0619	0.100	284395	123544	599	466

10KV 单芯交联聚乙烯绝缘 (薄绝缘) 轻型架空电缆

10KV Single-core XLPE Insulated (thin-insulated), Light-type Aerial Cable

导体标称截面 Nominal cross-sectional area of conductor (mm ²)	绝缘标称厚度 Nominal insulation thickness (mm)	电缆最大外径 Max. Diameter of cable (mm)	电缆重量 Cable weight (kg/km)		20°C导体最大直流电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空气中) Current carrying (In air) (A)	
			Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
25	2.5	14.0	150		1.200		3762		120	
35	2.5	15.0	200		0.868		5177		151	
50	2.5	16.3	250		0.641		7011		182	
70	2.5	18.0	320		0.443		10354		228	
95	2.5	19.8	410		0.320		13727		278	
120	2.5	21.2	490		0.253		17339		396	
150	2.5	22.8	600		0.206		21033		406	
185	2.5	24.4	710		0.164		26732		425	
240	2.5	26.6	880		0.125		34679		505	
300	2.5	28.8	1050		0.100		43349		585	

35KV 单芯交联聚乙烯绝缘架空电缆

35KV Single-core XLPE Insulated, Aerial Cable

导体标称截面 Nominal cross-sectional area of conductor (mm ²)	绝缘标称厚度 Nominal insulation thickness (mm)	电缆最大外径 Max. Diameter of cable (mm)	电缆重量 Cable weight (kg/km)		20°C导体最大直流电阻 Max. DC resistance of conductor (Ω/km)		电缆最小拉断力 Min. Tensile force of cable (N)		电缆载流量 (空气中) Current carrying (In air) (A)	
			Cu	Al	Cu	Al	Cu	Al	Cu	Al
50	9.3	31.5	1368	1156	0.399	0.641	16502	7011	260	206
70	9.3	33.2	1573	1204	0.276	0.443	23461	10354	317	247
95	9.3	34.8	1864	1335	0.199	0.320	31759	13727	377	295
120	9.3	36.2	2123	1495	0.158	0.253	39911	17339	433	339
150	9.3	37.8	2413	1624	0.128	0.206	49505	21033	492	386
185	9.3	39.4	2760	1786	0.1021	0.164	61846	26732	557	437

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240	9.3	41.6	3299	2035	0.0777	0.125	79823	34679	650	512
300	9.3	43.8	3849	2271	0.0619	0.100	99788	43349	740	586

使用条件 Applying conditions:

1. 电缆导体的长期允许工作温度 Continuous permissible operating temperature:

PVC Insulation	PE Insulation	HDPE Insulation	XLPE Insulation
70°C	70°C	75°C	90°C

2. 短路时(最长持续时间不超过 5 秒)电缆的最高温度 Max. Temperature under short-circuit (5s Max.):

PVC Insulation	PE Insulation	HDPE Insulation	XLPE Insulation
160°C	130°C	150°C	250°C

3. 电缆的敷设温度应不低于-20°C。

Laying temperature of cable: $\geq -20^{\circ}\text{C}$

4. 电缆使用的环境温度为-40~+40°C。

Operating ambient temperature of cable: $-40\sim+40^{\circ}\text{C}$

5. 电缆的允许弯曲半径 Allowed bending radius of cable:

0.6/1kv		10kv	35kv
电缆外径 (D) Cable diameter	弯曲半径 Bending radius	芯数 Core No.	弯曲半径 Bending radius
D < 25mm	$\geq 4D$	Single-core cable	$\geq 20 (D+d)$
D $\geq 25\text{mm}$	$\geq 6D$	Multi-core cable	$\geq 15 (D+d)$

D——电缆的实际外径 Overall diameter of cable, mm

d——电缆导体的实际外径 Diameter of conductor, mm