



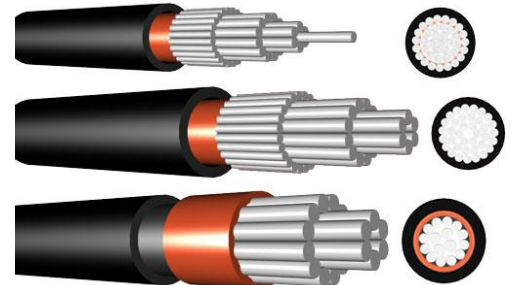
## Aerial Insulated Cables Within Rated Voltage 10KV And 35KV

### ■ Product standard

The product is manufactured according to the standards of GB14049 “Aerial insulated cables of rated voltages 10 KV and 35KV” and IEC60502 “Extruded solid dielectric power cables for rated voltages from 1KV to 30KV”.

### ■ Operating characteristics

1. Rated voltage: 10KV, 35KV:
2. Max. permissible continuous temperature:  
 HDPE insulated aerial cables: 75°C; XLPE insulated aerial cables: 90°C
3. Max. short circuit temperature of the conductor shall not exceed:  
 HDPE insulated aerial cables: 150°C; XLPE insulated aerial cables: 250°C
4. The installation ambient temperature should not below -20°C
5. The bending radius of cables are recommended as follows:



Single cable: not less than 20 times the diameter of cables; Multi-core cables: not less than 15 times the diameter of cables.

### ■ Type/Designation

Type	Designation
JKYJ	Copper conductor XLPE insulated aerial cables
JKTRYJ	Flexible copper conductor XLPE insulated aerial cables
JKLYJ	Aluminum conductor XLPE insulated aerial cables
JKLGYJ	ACSR conductor XLPE insulated aerial cables
JKLHYJ	Aluminum alloy conductor XLPE insulated aerial cables
JKY	Copper conductor PE insulated aerial cables
JKTRY	Flexible copper conductor PE insulated aerial cables
JKLY	Aluminum conductor PE insulated aerial cables
JKLGY	ACSR conductor PE insulated aerial cables
JKLHYJ/Q	Aluminum alloy conductor light type XLPE thinness insulated aerial cables
JKLGYJ/Q	ACSR conductor light type XLPE thinness insulated aerial cables
JKLY/Q	Aluminum conductor light type XLPE thinness insulated aerial cables
JKLHY/Q	Aluminum alloy conductor light type PE thinness insulated aerial cables
JKLGY/Q	ACSR conductor light type PE thinness insulated aerial cables

### ■ Type of cable

Type	Cores Number	Rated Voltage KV	
		10	35
		Nominal Cross-Section of conductor mm <sup>2</sup>	
JKYJ, JKTRYJ, JKLYJ, JKLHYJ, JKLGYJ	1	10~300	50~300
JKY, JKTRY, JKLY, JKLHY, JKLGY, JKLYJ/Q, JKLHYJ/Q, JKLY/Q, JKLHY/Q,	1	10~300	

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JKLGYJ/Q, JKLGY/Q

### ■ Construction and technical parameter of cable

#### 10KV Single-core copper aluminum and aluminum alloy conductor common insulated aerial cables of rated voltage

Nominal cross-sectional area of conductor	Cable approx. diameter	Cable approx Weight		Tensile force of cable		
		JKY JKTRY JKYJ JKTRYJ	JKLY JKLHY JKLYJ JKLHYJ	Hard Copper	Aluminum	Aluminum alloy
mm <sup>2</sup>	mm	Kg/km	Kg/km	N		
10	11.8	190	127	3471	1650	2514
16	12.8	257	158	5486	2512	4022
25	14.0	345	195	8465	3762	6284
35	15.0	450	235	11731	5177	8800
50	16.3	575	285	16502	7011	12569
70	17.8	670	257	23461	10354	17596
95	19.7	1045	463	21759	13727	23880
120	21.1	1285	550	39911	17339	30164
150	22.7	1580	655	49505	21033	37706
185	24.2	1855	755	61846	26732	46503
240	26.5	2380	935	79823	34679	60329
300	28.7	3000	1145	99788	43349	75411

#### 35KV Single-core copper aluminum and aluminum alloy conductor common insulated aerial cables of rated voltage

Nominal cross-sectional area of conductor	Cable approx. diameter	Cable approx Weight		Tensile force of cable		
		JKYJ JKTRYJ	JKLYJ JKLHYJ	Hard Copper	Aluminum	Aluminum alloy
mm <sup>2</sup>	mm	Kg/km	Kg/km	N		
50	31.5	1184	874	16502	7011	12569
70	33.2	1421	987	23461	10354	17596
95	34.8	1703	1114	21759	13727	23880
120	36.2	1975	1231	39911	17339	30164
150	37.8	2301	1371	49505	21033	37706
185	39.4	2666	1519	61846	26732	46503
240	41.6	3231	1743	79823	34679	60329
300	43.8	3844	1984	99788	43349	75411

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**10KV Single-core ACSR Conductor aerial insulated cable**

Nominal cross-sectional area of conductor Al/Fe	Single Cable approx. diameter	Single Cable approx Weight	Single Tensile force of cable	Nominal cross-sectional area of conductor Al/Fe	Single Cable approx. diameter	Single Cable approx Weight	Single Tensile force of cable
mm <sup>2</sup>	mm	Kg/km	N	mm <sup>2</sup>	mm	Kg/km	N
25/4	14.4	239	9290	185/10	24.7	862	40880
35/6	15.6	295	12630	185/25	25.6	987	59420
50/8	16.9	367	16870	185/30	25.8	1005	64320
50/30	18.9	565	42620	185/45	26.4	1032	80190
70/10	18.7	473	23390	210/10	25.9	1147	45140
70/40	21.1	743	58300	210/25	26.8	963	65990
95/15	20.9	610	35000	210/35	27.1	1102	74250
95/20	21.1	639	37200	210/50	27.7	1163	90830
95/55	23.3	966	78110	240/30	28.0	1286	75620
120/7	21.6	614	27570	240/40	28.3	1225	83370
120/20	22.4	723	41000	240/55	29.0	1286	102100
120/25	22.7	770	47880	300/15	29.4	1434	68060
120/70	25.2	1176	98370	300/20	29.6	1280	75680
150/8	23.1	731	32860	300/25	29.9	1380	83410
150/20	23.8	827	46630	300/40	30.3	1479	92220
150/25	24.1	874	54110	300/50	30.7	1563	103400
150/35	24.6	961	65020	300/70	31.5	1752	128000

**10KV Single-core ACSR Conductor light type thin insulated aerial cable**

Nominal cross-sectional area of conductor Al/Fe	Single Cable approx. diameter	Single Cable approx Weight	Single Tensile force of cable	Nominal cross-sectional area of conductor Al/Fe	Single Cable approx. diameter	Single Cable approx Weight	Single Tensile force of cable
mm <sup>2</sup>	mm	Kg/km	N	mm <sup>2</sup>	mm	Kg/km	N
25/4	11.6	177	9290	185/10	21.7	742	40880
35/6	12.8	227	12630	185/25	22.6	863	59420
50/8	14.1	293	16870	185/30	22.8	907	64320
50/30	16.1	482	42620	185/45	23.4	1019	80190
70/10	15.9	390	23390	210/10	22.9	835	45140
70/40	18.1	642	58300	210/25	23.8	972	65990
95/15	17.9	509	35000	210/35	24.1	1032	74250
95/20	18.1	538	37200	210/50	24.7	1151	90830

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95/55	20.3	853	78110	240/30	25.0	1088	75620
120/7	18.6	511	27570	240/40	25.3	1148	83370
120/20	19.4	615	41000	240/55	26.0	1292	102100
120/25	19.7	661	47880	300/15	26.4	1136	68060
120/70	22.2	1054	98370	300/20	26.6	1182	75680
150/8	20.1	620	32860	300/25	26.9	1234	83410
150/20	20.8	712	46630	300/40	27.3	1331	92220
150/25	21.1	758	54110	300/50	27.7	1413	103400
150/35	21.6	842	65020	300/70	28.5	1597	128000

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■ Attached Table 1

10KV Single-core aerial insulated cable Current carrying

Nominal cross-sectional area of conductor	Current carrying		Nominal cross-sectional area of conductor	Current carrying	
	Copper	Aluminum		Copper	Aluminum
10	125	75	95	415	325
16	155	117	120	480	375
25	190	145	150	550	425
35	230	180	185	630	490
50	275	215	240	745	580
70	345	265	300	860	665

35KV Single-core ACSR Conductor aerial insulated cable

Nominal cross-sectional area of conductor Al/St	Single Cable approx. diameter	Single Cable approx. Weight	Single Tensile force of cable
mm <sup>2</sup>	mm	Kg/km	N
50/8	29.3	792	16870
50/30	31.3	1026	42620
70/10	31.1	930	23390
70/40	33.3	1233	58300
95/15	33.1	1096	35000
95/20	33.3	1129	37200
95/55	35.5	1495	78110
120/7	33.8	1114	27570
120/20	34.6	1236	41000
120/25	34.9	1289	47880
120/70	37.4	1739	98370
150/8	35.3	1257	32860
150/20	36.0	1366	46630
150/25	36.3	1418	54110
150/35	36.8	1514	65020
185/10	36.9	1417	40880
185/25	37.8	1557	59420
185/30	38.0	1606	64320
185/45	38.6	1732	80190
210/10	38.1	1540	45140
210/25	39.0	1694	65990
210/35	39.3	1761	74250
210/50	39.9	1894	90830
240/30	40.2	1839	75620

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240/40	40.5	1905	83370
240/55	41.2	2065	102100
300/15	41.6	1919	68060
300/20	41.8	1970	75680
300/25	42.1	2028	83410
300/40	42.5	2134	92220
300/50	42.9	2225	103400
300/70	43.7	2428	128000

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