

0.6/1kV, 10kV, 35kV Overhead Cable (Chinese standard)



Application: This product is suitable for use in overhead transmission and distribution system at 1kV, 10kV, 35kV.



Operating Temperature: Max permissible continuous operating temperature of conductor shall not exceed 90°C.

Conductor Short-circuit Temperature: Max temperature at short-circuit shall not exceed 250°C.



Bending Radius

1kV Overhead Cable: 4D if $D < 25\text{mm}$; 6D if $D \geq 25\text{mm}$;
10kV, 35kV Overhead Cable : 25D. D = Actual outer diameter of cable (mm)



Standard: 0.6/1kV Overhead Cable is according to GB/T 12527 or other standards required by customers.

10kV, 35kV Overhead Cable is according to GB/T 14049 or other standards required by customers.



Packing: Coil, Steel/Wooden Reel, Wooden Reel or Steel Reel.



Type, Description and Application

Type	Description	Application
JKV	Copper conductor PVC insulated overhead cable	It is suitable for use in overhead line for fixed installation indoors or outdoors. The Type JKTRYJ cable with flexible conductor can be connected to secondary terminal of transformer. During running of the cable, it is permitted to be touched by branches, but a distance between cable and trees should be kept during installation.
JKLV	Aluminium conductor PVC insulated overhead cable	
JKLHV	Aluminium alloy conductor PVC insulated overhead cable	
JKY	Copper conductor PE insulated overhead cable	
JKLY	Aluminium conductor PE insulated overhead cable	
JKLHY	Aluminium alloy conductor PE insulated overhead cable	
JKYJ	Copper conductor XLPE insulated overhead cable	
JKLYJ	Aluminium conductor XLPE insulated overhead cable	
JKLHYJ	Aluminium alloy conductor XLPE insulated overhead cable	
JKTRY	Flexible copper conductor PE insulated overhead cable	
JKTRYJ	Flexible copper conductor XLPE insulated overhead cable	It is suitable for use in overhead line for fixed installation indoors or outdoors. During running of the cable, it is permitted to be touched by branches, but a distance between cable and trees should be kept during installation.
JKLYJ/B	Aluminium conductor natural colour XLPE insulated overhead cable	
JKLHYJ/B	Aluminium alloy conductor natural colour XLPE insulated overhead cable	
JKLYJ/Q	Aluminium conductor light duty thin layer XLPE insulated overhead cable	
JKLHYJ/Q	Aluminium alloy conductor light duty thin layer XLPE insulated overhead cable	
JKLY/Q	Aluminium conductor light duty thin layer PE insulated overhead cable	
JKLHY/Q	Aluminium alloy conductor light duty thin layer PE insulated overhead cable	

Supply Range

Type	No of Cores	Nominal Area of Conductor sq. mm
		Rated Voltage 1kV
JKV, JKL V, JKLHV, JKY, JKLHY JKYJ, JKLYJ, JKLHYJ	1	10 to 240
	2, 4	10 to 120
JKLV, JKLY, JKLYJ	3+neutral conductor	10 to 120

Type	No of Cores	Nominal Area of Conductor sq.mm	
		Rated Voltage 10kV	Rated Voltage 35kV
JKY, JKTRY, JKLY, JKLHY JKYJ, JKTRYJ JKLYJ, JKLHYJ JKLYJ/B, JKLHYJ/B	1	10 to 300	35 to 800
	3	25 to 300	35 to 400
	3+neutral conductor	25 to 300	35 to 400
JKLYJ/Q, JKLHYJ/Q JKLY/Q, JKLHY/Q	1	10 to 300	---
	3	25 to 300	---

0.6/1kV Overhead Insulated Cable 1-core

Nominal Area of Conductor	Approx Overall Dia. of Cable	Max DC Conductor Resistance at 20°C				Approximate Weight of Cable			
		Hard Copper	Soft Copper	Al	Al Alloy	JKV	JKLV JKLHV	JKY JKYJ	JKLYJ JKLHY JKLHYJ
sq. mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kg/km	kg/km	kg/km	kg/km
10	6.0	1.906	1.830	3.080	3.574	112	50	105	43
16	7.4	1.198	1.150	1.910	2.217	177	77	165	65
25	8.6	0.749	0.727	1.200	1.303	263	109	250	95
35	10.0	0.540	0.524	0.868	1.007	366	150	348	131
50	11.3	0.399	0.387	0.641	0.714	508	199	487	177
70	13.0	0.276	0.268	0.443	0.514	697	264	672	239
95	15.0	0.199	0.193	0.320	0.371	743	355	916	322
120	16.4	0.158	0.153	0.253	0.294	1175	433	1139	397
150	18.4	0.123	---	0.206	0.239	1469	541	1124	496
185	20.4	0.1021	---	0.164	0.190	1111	667	1756	611
240	23.0	0.0777	---	0.125	0.145	2340	855	2271	787

0.6/1kV Overhead Insulated Cable 2-core

Nominal Area of Conductor	Approx Overall Dia. of Cable	Max DC Conductor Resistance at 20°C				Approximate Weight of Cable			
		Hard Copper	Soft Copper	Al	Al Alloy	JKV	JKLV JKLHV	JKY JKYJ	JKLYJ JKLHY JKLHYJ
sq. mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kg/km	kg/km	kg/km	kg/km
2×10	12.0	1.906	1.83	3.08	3.574	225.5	100.7	211.4	86.5
2×16	14.8	1.198	1.15	1.91	2.217	356.3	155.0	322.1	132.9
2×25	17.2	0.749	0.727	1.20	1.303	529.4	219.4	503.3	190.2
2×35	20.0	0.540	0.524	0.868	1.007	736.8	301.9	700.5	203.7
2×50	22.6	0.399	0.387	0.641	0.714	1022.6	400.6	980.0	365.3
2×70	26.0	0.276	0.268	0.443	0.514	1403.1	531.4	1352.7	481.1
2×95	30.0	0.199	0.193	0.320	0.371	1898.3	714.6	1637.1	618.0
2×120	32.8	0.158	0.153	0.253	0.294	2365.3	871.6	2292.5	799.2

0.6/1kV Overhead Insulated Cable 4-core

Nominal Area of Conductor	Approx Overall Dia. of Cable	Max DC Conductor Resistance at 20°C				Approximate Weight of Cable			
		Hard Copper	Soft Copper	Al	Al Alloy	JKV	JKLV JKLHV	JKY JKYJ	JKLY JKLYJ JKLHY JKLHYJ
sq. mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kg/km	kg/km	kg/km	kg/km
4×10	14.5	1.906	1.83	3.08	3.574	450.3	201.3	422.7	173.1
4×16	17.9	1.198	1.15	1.91	2.217	1012.6	310.0	664.3	265.7
4×25	20.8	0.749	0.727	1.20	1.303	1058.6	438.8	1006.3	382.5
4×35	21.4	0.540	0.524	0.868	1.007	1473.5	603.0	1401.0	527.4
4×50	27.2	0.399	0.387	0.641	0.714	2045.2	801.2	1960.7	712.6
4×70	31.4	0.276	0.268	0.443	0.514	2806.1	1062.8	2705.5	962.2
4×95	36.2	0.199	0.193	0.320	0.371	3796.5	1429.2	3664.7	1296.4
4×120	39.6	0.158	0.153	0.253	0.294	4730.5	1743.2	4585.7	1518.3

10kV Overhead Insulated Cable 1-core

Nominal Area of Conductor	Approx Overall Diameter of Cable		Max DC Conductor Resistance at 20°C				Approximate Weight of Cable		
	Thin Insulation	Normal Insulation	Hard Copper	Soft Copper	Al	Al Alloy	JKLYJ/Q JKLHYJ/Q JKLY/Q JKLHY/Q	JKY JKYJ JKTRYJ JKTRY	JKLY JKLYJ JKLHY JKLHYJ JKLYJ/B JKLHYJ/B
sq. mm	mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kg/km	kg/km	kg/km
10	3.8	11.9	---	1.830	3.080	---	27.0	186.2	124.2
16	4.8	12.9	---	1.150	1.910	---	43.2	250.4	151.2
25	11.3	14.1	0.749	0.727	1.200	1.303	66.9	343.7	188.7
35	12.3	15.1	0.540	0.524	0.868	1.007	74.7	444.7	227.7
50	13.6	16.4	0.399	0.387	0.641	0.714	84.7	593.2	283.2
70	15.3	18.1	0.276	0.268	0.443	0.514	97.9	1009.9	356.9
95	16.9	19.7	0.199	0.193	0.320	0.371	110.3	1038.2	449.2
120	18.3	21.3	0.158	0.153	0.253	0.294	121.1	1217.4	533.2
150	19.9	22.9	0.128	---	0.206	0.239	133.5	1563.7	633.7
185	21.5	24.5	0.1021	---	0.164	0.190	145.9	1894.4	747.4
240	23.1	26.7	0.0777	---	0.125	0.145	162.9	2410.5	922.5
300	25.9	28.9	0.0619	---	0.100	0.110	179.9	2991.0	1111.0

10kV Overhead Insulated Cable 3-core

Nominal Area of Conductor	Approx Overall Diameter of Cable		Max DC Conductor Resistance at 20°C				Approximate Weight of Cable		
	Thin Insulation	Normal Insulation	Hard Copper	Soft Copper	Al	Al Alloy	JKLYJ/Q JKLHYJ/Q JKLY/Q JKLHY/Q	JKY JKYJ JKTRYJ JKTRY	JKLY JKLYJ JKLHY JKLHYJ JKLYJ/B JKLHYJ/B
sq. mm	mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kg/km	kg/km	kg/km
25	29.1	35.1	0.749	0.727	1.200	1.303	526.0	1191.5	723.5
35	31.2	37.3	0.540	0.524	0.868	1.007	640.7	1504.3	849.1
50	34.0	40.1	0.399	0.387	0.641	0.714	805.9	1963.7	1027.5
70	37.7	43.7	0.276	0.268	0.443	0.514	1025.4	2578.4	1267.9
95	41.1	47.6	0.199	0.193	0.320	0.371	1282.1	3340.5	1562.0
120	44.2	50.6	0.158	0.153	0.253	0.294	1532.1	4077.5	1831.0
150	47.6	54.1	0.128	---	0.206	0.239	1829.8	4959.8	2151.7
185	51.0	57.5	0.1021	---	0.164	0.190	2168.0	5971.1	2507.7
240	55.8	62.3	0.0777	---	0.125	0.145	2689.2	7550.9	3057.8
300	60.5	67.0	0.0619	---	0.100	0.110	3250.8	9262.9	3646.7

35kV Overhead Insulated Cable 1-core

Nominal Area of Conductor	Approx Overall Dia. of Cable	Max DC Conductor Resistance at 20°C				Approximate Weight of Cable	
		Hard Copper	Soft Copper	Al	Al Alloy	JKYJ JKTRYJ	JKLYJ JKLHYJ JKLYJ/B JKLHYJ/B
sq. mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kg/km	kg/km
35	27.6	0.540	0.524	0.868	1.007	828.4	613.8
50	28.9	0.399	0.387	0.641	0.714	993.0	691.3
70	30.6	0.276	0.268	0.443	0.514	1232.6	798.9
95	32.2	0.199	0.193	0.320	0.371	1506.4	917.0
120	33.6	0.158	0.153	0.253	0.294	1756.6	1025.3
150	35.2	0.128	---	0.206	0.239	2092.0	1158.3
185	36.8	0.1021	---	0.164	0.190	2450.6	1301.0
240	39.0	0.0777	---	0.125	0.145	2996.2	1513.2
300	41.2	0.0619	---	0.100	0.110	3602.7	1743.8
400	44.3	0.0464	---	0.075	0.0825	4560.5	2100.2
500	47.2	0.0371	---	0.060	0.066	5566.0	2466.7
630	50.5	0.0294	---	0.048	0.052	6838.9	2922.9
800	54.3	0.0232	---	0.038	0.041	---	3499.6

35kV Overhead Insulated Cable 3-core

Nominal Area of Conductor	Approx Overall Dia. of Cable	Max DC Conductor Resistance at 20°C				Approximate Weight of Cable	
		Hard Copper	Soft Copper	Al	Al Alloy	JKYJ JKTRYJ	JKLYJ JKLHYJ JKLYJ/B JKLHYJ/B
sq. mm	mm	Ω/km	Ω/km	Ω/km	Ω/km	kg/km	kg/km
35	65.9	0.540	0.524	0.868	1.007	4360.0	3716.4
50	68.7	0.399	0.387	0.641	0.714	4938.0	4032.6
70	72.4	0.276	0.268	0.443	0.514	5763.0	4461.9
95	75.8	0.199	0.193	0.320	0.371	6690.6	4922.4
120	78.8	0.158	0.153	0.253	0.294	7558.5	5337.6
150	82.3	0.128	---	0.206	0.239	8640.6	5839.5
185	85.7	0.1021	---	0.164	0.190	9819.6	6370.8
240	90.5	0.0777	---	0.125	0.145	11598.0	7149.0
300	95.2	0.0619	---	0.100	0.110	13559.1	7982.7
400	108.1	0.0464	---	0.075	0.0825	16632.6	9251.4