

Aerial Insulated Cables With Rated Voltage up to 10kV and 35kV

Standards

The cable meets the standard requirements of GB14049-93 or Q/SX109-2002.

Cu or Al conductor XLPE or HDPE insulated aerial cable is suitable for aerial power lines with A.C. rated voltage $U(U_m)$ up to 10(12)kV and 35(42)kV.

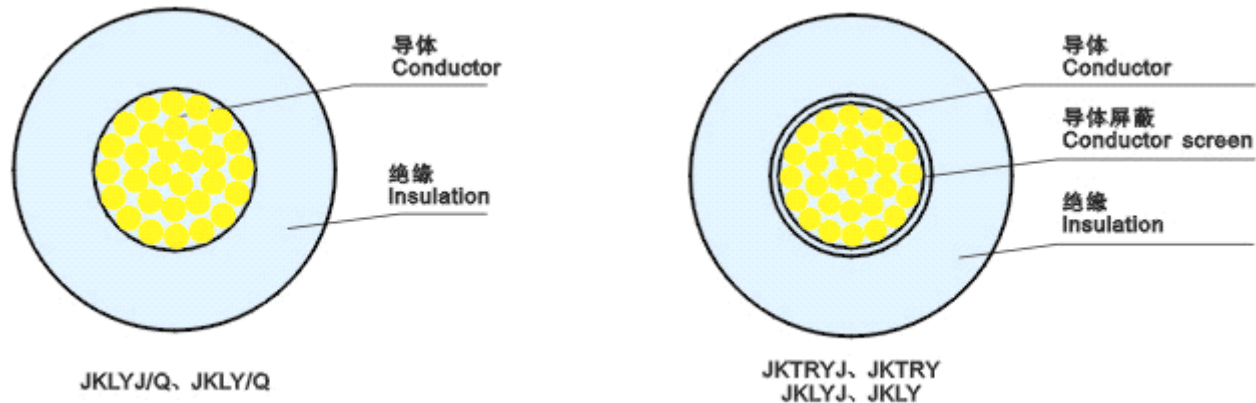
Type, Designation and Applications

型号 Type	名称 Designation	用途 Applications
JKTRYJ	软铜线交联聚乙烯绝缘架空电缆 Soft Cu conductor XLPE insulated aerial cables	架空固定敷设，软铜芯产品用于变压器引下线。电线架设时，应考虑电缆和树木保持一定距离，电缆运行时，允许电缆和树木频繁接触。
JKLYJ JKLGYJ	铝芯、钢芯铝绞线交联聚乙烯绝缘架空电缆 Al(ACSR) conductor XLPE insulated aerial cables	
JKTRY	软铜线聚乙烯绝缘架空电缆 Soft Cu conductor PE insulated aerial cables	The cables are used for aerial fixed installation. The Soft Cu conductor cable is used as lead of transformers. It should be considered to keep a certain distance between cables and trees during installation. Frequent touch between cables and trees is allowable during operation.
JKLY JKLGY	铝芯、钢芯铝绞线聚乙烯绝缘架空电缆 Al(ACSR) conductor PE insulated aerial cables	
JKLYJ/Q JKLGYJ/Q	铝芯、钢芯铝绞线交联聚乙烯薄绝缘架空电缆 Al(ACSR) conductor light-duty thin XLPE insulated aerial cables	架空固定敷设用。电线架设时，应考虑电缆和树木保持一定距离，电缆运行时，只允许电缆和树木作短时接触。
JKLY/Q JKLGY/Q	铝芯、钢芯铝绞线交联聚乙烯绝缘架空电缆 Al(ACSR) conductor light-duty thin LPE insulated aerial cables	The cables are used for aerial fixed installation. It should be considered to keep a certain distance between cables and trees during installation. Touch, between cables and trees, is allowable only for short time during operation.

Specification

型号 Type	芯数 Number of cores	额定电压 Rated Voltage	
		10kV	35kV
		标称截面 Nominal Cross-sectional Area (mm ²)	
JKLYJ, JKTRYJ, JKLGYJ	1.3	35~300	50~300
JKTRY	1	35~300	
JKLY, JKLGY			
JKLY/Q, JKLGY/Q			
JKLYJ/Q, JKGY/Q	1		

Structure Drawing



Using Properties

1 Rated voltage: 10kV, 35kV.

2 Cable installation temperature: not less than -20°C .

3 Maximum temperature of cable at short circuit (The max. duration does not exceed 5 minutes):

For XLPE insulation: 250°C .

For HDPE insulation: 150°C .

4 The max. bending radius of cable shall not be less than $20\text{mm}(D+d)$ (D and d represent the nominal overall diameter of cables and diameter of conductors, respectively.)

Technical Specifications

JKLYJ/Q 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω/km)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
35	2.5	12.0	0.868	184.41
50	2.5	13.3	0.641	231.85
70	2.5	15.0	0.443	296.8
95	2.5	16.6	0.320	381.2
120	2.5	18.0	0.253	462.7
150	2.5	19.6	0.206	557.9
185	2.5	21.2	0.164	666.1
240	2.5	23.4	0.125	829.1
300	2.5	25.6	0.100	1010.3

JKLYJ 10KV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
35	3.4	14.8	0.868	5177	300.8
50	3.4	16.1	0.641	7011	359.8
70	3.4	17.8	0.443	10354	441.0
95	3.4	19.6	0.320	13727	548.0
120	3.4	21.0	0.253	17339	643.0
150	3.4	22.6	0.206	21033	753.6
185	3.4	24.2	0.164	26732	877.3
240	3.4	26.4	0.125	34679	1061.3
300	3.4	28.6	0.100	43349	1263.7

JKTRYJ 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
25	3.4	13.8	0.727	5079	390.0
35	3.4	14.8	0.524	7038	534.27
50	3.4	16.1	0.387	9901	675.71
70	3.4	17.8	0.268	14076	874.26
95	3.4	19.6	0.193	19055	1143.59
120	3.4	21.0	0.153	23947	1398.5
150	3.4	22.6	0.124	29703	1696.35
185	3.4	24.2	0.0991	37107	2037.2
240	3.4	26.4	0.0754	47893	2552.53
300	3.4	28.6	0.0601	59873	3127.8

JKTRYJ 35kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
50	9.3	28.5	0.387	9901	1042.4
70	9.3	30.2	0.268	14076	1264.6
95	9.3	31.8	0.193	19055	1548.7
120	9.3	33.2	0.153	23946	1822.7
150	9.3	34.8	0.124	29703	2139.4
185	9.3	36.4	0.0991	37107	2504.87
240	9.3	38.6	0.0754	47893	3050.4
300	9.3	40.3	0.0601	59873	3655.63

JKLYJ 35kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
50	9.3	28.5	0.641	7011	726.4
70	9.3	30.2	0.443	10354	831.4
95	9.3	31.8	0.320	13727	953.1
120	9.3	33.2	0.253	17339	1067.2
150	9.3	34.8	0.206	21033	1199.6
185	9.3	36.4	0.164	26732	1344.9
240	9.3	38.6	0.125	34679	1559.2
300	9.3	40.3	0.100	43349	1791.5

JKLY/Q 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
35	2.5	12.0	0.868	5177	184.41
50	2.5	13.3	0.641	7011	231.85
70	2.5	15.0	0.443	10354	296.8
95	2.5	16.6	0.320	13727	381.2
120	2.5	18.0	0.253	17339	462.7
150	2.5	19.6	0.206	21036	557.9
185	2.5	21.2	0.164	26732	666.1
240	2.5	23.4	0.125	34679	829.1

300	2.5	25.6	0.100	43349	1010.3
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JKLY 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
25	3.4	13.8	1.200	3762	210.0
35	3.4	14.8	0.868	5177	300.8
50	3.4	16.1	0.641	7011	359.8
70	3.4	17.8	0.443	10354	441.0
95	3.4	19.6	0.320	13727	548.0
120	3.4	21.0	0.253	17339	643.0
150	3.4	22.6	0.206	21033	753.6
185	3.4	24.2	0.164	26732	877.3
240	3.4	26.4	0.125	34679	1061.3
300	3.4	28.6	0.100	43349	1263.7

JKTRY 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
25	3.4	13.8	0.727	5079	390.0
35	3.4	14.8	0.524	7038	534.27
50	3.4	16.1	0.387	9901	675.71
70	3.4	17.8	0.268	14076	874.26
95	3.4	19.6	0.193	19055	1143.59
120	3.4	21.0	0.153	23947	1398.5
150	3.4	22.6	0.124	29703	1696.35
185	3.4	24.2	0.0991	37107	2037.2

240	3.4	26.4	0.0754	47893	2552.53
300	3.4	28.6	0.0601	59873	3127.8

JKLGYJ 10Kv

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
35/6	3.4	12.70	0.868	11990	285.90
50/8	3.4	13.90	0.641	11020	354.50
50/30	3.4	25.90	0.641	40500	564.50
70/10	3.4	15.50	0.443	22220	450.90
70/40	3.4	27.10	0.443	55390	718.90
95/15	3.4	17.80	0.320	33250	589.10
95/20	3.4	18.30	0.320	35340	623.60
95/55	3.4	27.30	0.320	74200	956.80
120/7	3.4	18.30	0.253	26190	589.90
120/20	3.4	19.10	0.253	38950	690.30
120/25	3.4	19.90	0.253	45480	760.80
120/70	3.4	27.90	0.253	93450	1167.60
150/8	3.4	19.80	0.206	31220	689.10
150/20	3.4	20.50	0.206	44300	787.30
150/25	3.4	20.80	0.206	51400	842.80
150/35	3.4	21.10	0.206	61770	922.70
185/10	3.4	21.80	0.164	38830	832.50
185/25	3.4	22.40	0.164	56450	963.60
185/30	3.4	22.80	0.164	61100	996.50
185/45	3.4	24.10	0.164	76180	1116.80
240/30	3.4	25.30	0.125	71840	1211.10

240/40	3.4	25.90	0.125	79200	1262.20
240/55	3.4	26.70	0.125	97000	1422.30

JKLGYJ/Q 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
35/6	2.5	15.90	0.868	11990	211.70
50/8	2.5	17.10	0.641	11020	278.90
50/30	2.5	19.30	0.641	40500	475.40
70/10	2.5	18.70	0.443	22220	367.30
70/40	2.5	21.10	0.443	55390	628.20
95/15	2.5	21.20	0.320	33250	487.30
95/20	2.5	21.70	0.320	35340	518.70
95/55	2.5	23.90	0.320	74200	842.70
120/7	2.5	21.70	0.253	26190	485.00
120/20	2.5	22.50	0.253	38950	581.10
120/25	2.5	23.30	0.253	45480	647.90
120/70	2.5	25.70	0.253	93450	1041.60
150/8	2.5	23.20	0.206	31220	577.20
150/20	2.5	23.90	0.206	44300	671.20
150/25	2.5	24.20	0.206	51400	724.90
150/35	2.5	24.50	0.206	61770	803.60
185/10	2.5	25.20	0.164	38830	709.40
185/25	2.5	25.80	0.164	56450	837.60
185/30	2.5	26.20	0.164	61100	868.40
185/45	2.5	26.50	0.164	76180	986.70
240/30	2.5	28.70	0.125	71840	1068.90

240/40	2.5	29.30	0.125	79200	1117.10
240/55	2.5	31.10	0.125	97000	1272.90

JKLGY 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
35/6	3.4	12.70	0.868	11990	285.90
50/8	3.4	13.90	0.641	11020	354.50
50/30	3.4	25.90	0.641	40500	564.50
70/10	3.4	15.50	0.443	22220	450.90
70/40	3.4	27.10	0.443	55390	718.90
95/15	3.4	17.80	0.320	33250	589.10
95/20	3.4	18.30	0.320	35340	623.60
95/55	3.4	27.30	0.320	74200	956.80
120/7	3.4	18.30	0.253	26190	589.90
120/20	3.4	19.10	0.253	38950	690.30
120/25	3.4	19.90	0.253	45480	760.80
120/70	3.4	27.90	0.253	93450	1167.60
150/8	3.4	19.80	0.206	31220	689.10
150/20	3.4	20.50	0.206	44300	787.30
150/25	3.4	20.80	0.206	51400	842.80
150/35	3.4	21.10	0.206	61770	922.70
185/10	3.4	21.80	0.164	38830	832.50
185/25	3.4	22.40	0.164	56450	963.60
185/30	3.4	22.80	0.164	61100	996.50
185/45	3.4	24.10	0.164	76180	1116.80
240/30	3.4	25.30	0.125	71840	1211.10
240/40	3.4	25.90	0.125	79200	1262.20

240/55	3.4	26.70	0.125	97000	1422.30
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JKLGY/Q 10kV

标称截面 Nominal Cross-sectional Area (mm ²)	绝缘标称厚度 Nominal Thickness of Insulation (mm)	近似外径 Approx. Overall Diameter (mm)	20℃时导体电阻不大于 Max. Resistance of conductor at 20℃ (Ω /km)	导体拉断力不小于 Min. Breaking Load of conductor (N)	成品近似重量 Approx. Weight of Completed Cable (kg/km)
35/6	2.5	15.90	0.868	11990	211.70
50/8	2.5	17.10	0.641	11020	278.90
50/30	2.5	19.30	0.641	40500	475.40
70/10	2.5	18.70	0.443	22220	367.30
70/40	2.5	21.10	0.443	55390	628.20
95/15	2.5	21.20	0.320	33250	487.30
95/20	2.5	21.70	0.320	35340	518.70
95/55	2.5	23.90	0.320	74200	842.70
120/7	2.5	21.70	0.253	26190	485.00
120/20	2.5	22.50	0.253	38950	581.10
120/25	2.5	23.30	0.253	45480	647.90
120/70	2.5	25.70	0.253	93450	1041.60
150/8	2.5	23.20	0.206	31220	577.20
150/20	2.5	23.90	0.206	44300	671.20
150/25	2.5	24.20	0.206	51400	724.90
150/35	2.5	24.50	0.206	61770	803.60
185/10	2.5	25.20	0.164	38830	709.40
185/25	2.5	25.80	0.164	56450	837.60
185/30	2.5	26.20	0.164	61100	868.40
185/45	2.5	26.50	0.164	76180	986.70
240/30	2.5	28.70	0.125	71840	1068.90
240/40	2.5	29.30	0.125	79200	1117.10

240/55

2.5

31.10

0.125

97000

1272.90