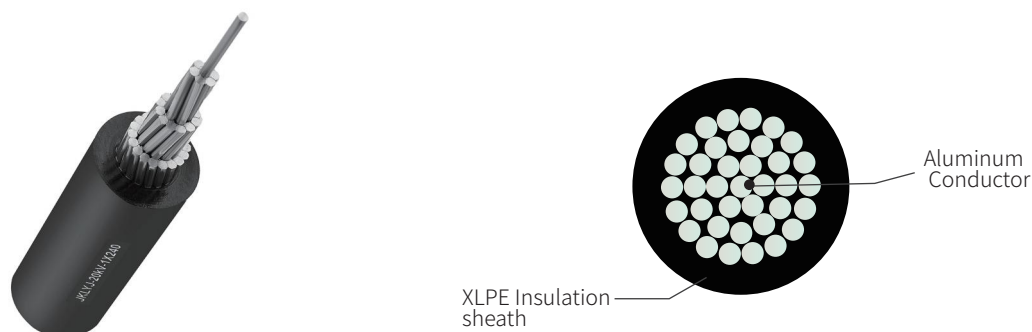


Aerial cable



Working Condition

Rated voltage U : 1kv

long-term permissible working temperature of cable conductor: Pvc and PE insulated cables can't exceed 70°C, and XLPE insulated cable shall not exceed 90°C.

The layout temperature of cable shall not be lower than -20°C.

Permissible bending radius of cable: The cable whose O.D. is shorter than 25mm, its radius shall not be less than 4D; the cable whose O.D. is 25mm or more than, its radius shall not be less than 6D.

Model	Name	Main usage
JKV-1kV	Copper-core PVC insulated aerial cable of rated voltage 1kV	Overhead fixed layout and wire conducting, etc.
JKLV-1kV	Aluminum-core PVC insulated aerial cable of rated voltage 1kV	
JKLHV-1kV	Aluminum alloy core PVC insulated aerial cable of rated voltage 1kV	
JKY-1kV	Copper-core PE insulated aerial cable of rated voltage 1kV	
JKLY-1kV	Aluminum-core PE insulated aerial cable of rated voltage 1kV	
JKLHY-1kV	Aluminum alloy core PE insulated aerial cable of rated voltage 1kV	
JKYJ-1kV	Copper-core YJV insulated aerial cable of rated voltage 1kV	
JKLYJ-1kV	Aluminum-core YJV insulated aerial cable of rated voltage 1kV	
JKLHYJ-1kV	Aluminum alloy core YJV insulated aerial cable of rated voltage 1kV	

APPLICATIONS

This is a kind of climate bearable PVC, PE and XLPE insulated aerial cables of copper core, aluminum core or aluminum alloy core, suitable for overhead power line of AC rated voltage 1kV and below.

Aerial insulated Cables Of Rated Voltage Up To And Including 1kV

Normal section (mm)	Min.wire No.Of conductor	Outer dia (reference) mm	Insulation thickness mm	Averagedia. ofsinglecore mm	Conductor resistance at 20°C(a/km)				Min,insulation resistance in rated operation temperature	
					hard conductor	soft conductor	Al conductor	Al alloy	70°C	90°C
10	6	3.8	1.0	6.5	1.906	1.830	3.080	3.574	0.0067	0.67
16	6	4.8	1.2	8.0	1.198	1.150	1.910	2.217	0.0065	0.65
25	6	6.0	1.2	9.4	0.749	0.727	1.200	1.939	0.0054	0.54
35	6	7.0	1.4	11.0	0.540	0.524	0.868	1.007	0.0054	0.54
50	6	8.4	1.4	12.3	0.399	0.387	0.641	0.744	0.0046	0.46
70	12	10.0	1.4	14.1	0.276	0.268	0.443	0.514	0.0040	0.40
95	15	11.6	1.6	16.5	0.199	0.193	0.320	0.371	0.0039	0.39
120	18	13.0	1.6	18.1	0.158	0.153	0.253	0.294	0.0035	0.35
150	18	14.6	1.8	20.2	0.128	—	0.206	0.239	0.0035	0.35
185	30	16.2	2.0	22.5	0.1021	—	0.164	0.190	0.0035	0.35
240	34	18.4	2.2	25.6	0.0777	—	0.125	0.145	0.0034	0.34

10kV XLPE Insulation Aerial Cable

Model	Name	Main usage
JKYJ	Copper XLPE insulation aerial cable	Soft copper-core is used to leadwire out for transform when overhead, fix and lay down the cable.To extend cable, it shall be takeninto consideration to keep a certaintdistance between cable and tree,it is permitted to havefrequent contacts between cable and tree whencable is in operation
JKTRYJ	Flexible copper XLPE insulation aerial cable	
JKLYJ	AluminumXLPE insulation aerial cable	
JKLHYJ	Aluminum alloy XLPE insulation aerial cable	
JKY	Copper PE insulation aerial cable	
JKTRY	Flexible copper PE insulation aerial cable	

Model	Name	Main usage
JKLY	Aluminum PE insulation aerial cable	For aerial fixed installation.To keep certain distance between cable and tree when to set up the cables.Only short time contacts can be permitted when operation.
JKLHY	Aluminum alloy PE insulation aerial cable	
JKLYJ/B	Aluminum beige XLPE insulation aerial cable	
JKLHYJ/B	Aluminum alloy beige XLPE insulation aerial cable	
JKLYJ/Q	Light Aluminum core XLPE insulation aerial cable	
JKLHYJ/Q	Light Aluminum alloy XLPE insulation aerial cable	
JKLY/Q	Light Aluminum core PE insulation aerial cable	
JKLHY/Q	Light Aluminum alloy PE insulation aerial cable	

Normal section (mm ²)	Outer dia (reference) mm	Inner shield thickness mm	Insulation thickness mm		Average dia mm		Average dia MM Conductor resistance at 20°C(g/km) Not less than			
			Thin insulation	Common insulation	Light	Common	Hard conductor	Soft conductor or	Al conductor	Al alloy
10	3.8	0.6	-	3.4	-	11.8	1.906	1.830	3.080	3.574
16	4.8	0.6	-	3.4	-	12.8	1.198	1.150	1.910	2.217
25	6.0	0.6	2.5	3.4	11.0	14.0	0.749	0.727	1.200	1.930
35	7.0	0.6	2.5	3.4	12.0	15.0	0.540	0.524	0.868	1.007
50	8.3	0.6	2.5	3.4	13.3	16.3	0.399	0.387	0.641	0.744
70	10.0	0.6	2.5	3.4	15.0	19.0	0.276	0.268	0.443	0.514
95	11.6	0.7	2.5	3.4	16.6	19.8	0.199	0.193	0.320	0.371
120	13.0	0.7	2.5	3.4	18.0	21.2	0.158	0.153	0.253	0.294
150	14.6	0.7	2.5	3.4	19.6	22.8	0.128	-	0.206	0.239
185	16.2	0.7	2.5	3.4	21.2	24.4	0.1021	-	0.164	0.190
240	18.4	0.7	2.5	3.4	23.4	26.6	0.0777	-	0.125	0.145
300	20.6	0.7	2.5	3.4	25.6	28.8	0.0619	-	0.100	0.116
400	23.8	0.7	2.5	3.4	28.8	42.0	0.0484	-	0.00778	0.0904

10kV Steel Core Aluminium XLPE insulated Aerial Cable

Model	Section aluminium/steel	Name	Main usage
JKLGYJ-10	10/2-500/65	10KV steel core aluminium XLPE insulated aerial cable	It is application to fix and lay down 10KV overhead powerline. To extend cables, it shall be taken into consideration to keep a certain distance between cable and tree. And it is permitted to have frequent contacts between cable and tree while the cable is in operation.

Normal section aluminium/ steel	Structure pair no./diameter		Out diameter reference	Inner shield thickness mm	Thickness mm	Outer diameter	Conductor resistance at 20°C	Reference weight
	Aluminium	steel						
10/2	6/1.50	1/1.50	4.28	1.0	3.4	13.1	0.7060	159
16/3	6/1.85	1/1.83	5.27	1.0	3.4	14.1	1.7790	194
25/4	6/2.32	1/2.32	6.60	1.0	3.4	15.4	1.1310	270
35/6	6/2.72	1/2.72	7.75	1.0	3.4	16.6	0.8230	304
50/8	6/3.20	1/3.20	9.12	1.0	3.4	17.9	0.5496	375
50/30	12/2.32	7/2.32	11.02	1.0	3.4	19.8	0.5692	577
70/10	6/3.80	1/3.80	10.83	1.0	3.4	19.6	0.4217	477
70/40	12/2.72	7/2.72	12.92	1.0	3.4	21.7	0.4141	741
95/15	26/2.15	7/1.67	12.93	1.0	3.4	21.7	0.3058	611
95/20	7/4.16	7/1.85	13.18	1.0	3.4	22.0	0.3019	644
95/55	12/3.20	7/3.20	15.20	1.0	3.4	24.0	0.2992	969
120/7	18/2.90	1/2.90	13.78	1.0	3.4	22.6	0.2422	622
120/20	26/2.38	7/1.85	14.32	1.0	3.4	23.1	0.2496	716
120/25	7/4.72	7/2.10	14.95	1.0	3.4	23.8	0.2345	787
120/70	12/3.20	7/3.20	17.10	1.0	3.4	25.9	0.2360	1182
150/8	18/3.20	1/3.20	15.20	1.0	3.4	24.0	0.1989	723
150/20	24/2.78	7/1.85	15.84	1.0	3.4	24.6	0.1980	817
150/25	26/2.70	7/2.10	16.25	1.0	3.4	25.1	0.1939	878
150/35	30/2.50	7/2.50	16.63	1.0	3.4	25.4	0.1962	962
185/10	18/3.60	1/3.60	17.10	1.0	3.4	25.9	0.1572	870
185/25	24/3.15	7/2.10	17.96	1.0	3.4	26.8	0.1542	1006
185/30	26/2.98	7/2.32	17.94	1.0	3.4	26.7	0.1592	1029
185/45	30/2.80	7/2.80	18.62	1.0	3.4	27.4	0.1564	1154

Norminal section aluimium/ steel	Structure pair no./diameter		Out diameter reference	Inner shield mm	Thickness mm	Outer diameter	Conductor resistance at 20°C	Reference weight
	Aluinium	steel						
210/10	18/3.90	1/3.80	18.05	1.0	3.4	26.9	0.1411	952
210/25	24/3.33	7/2.22	18.98	1.0	3.4	27.8	0.1380	1101
210/35	26/3.22	7/2.50	19.36	1.0	3.4	28.2	0.1363	1172
210/50	30/2.98	7/2.98	19.82	1.0	3.4	28.6	0.1381	1283
240/30	24/3.60	7/2.40	20.52	1.0	3.4	29.3	0.1181	1253
240/40	26/3.42	7/2.66	20.58	1.0	3.4	29.4	0.1209	1298
240/55	30/3.20	7/3.20	21.28	1.0	3.4	30.1	0.1198	1451
300/15	42/3.00	7/1.67	21.86	1.0	3.4	30.7	0.0972	1292
300/20	45/2.93	7/1.95	23.21	1.0	3.4	32.0	0.0952	1369
300/25	48/2.85	7/2.22	22.57	1.0	3.4	31.4	0.0943	1419
300/40	24/3.99	7/2.66	22.74	1.0	3.4	31.5	0.0961	1493
300/50	26/3.83	7/2.98	23.05	1.0	3.4	31.9	0.0946	1580
300/70	30/3.60	7/3.60	23.94	1.0	3.4	32.7	0.0964	1778
400/20	42/3.51	7/1.96	25.56	1	3.4	34.4	0.071	1678
400/25	45/3.33	7/2.22	25.31	1	3.4	34.1	0.0737	1690
400/35	48/3.22	7/2.50	25.48	1	3.4	34.3	0.0739	1748
400/50	54/3.07	7/3.07	26.25	1	3.4	35.1	0.0723	1922
400/65	26/4.42	7/3.44	26.6	1	3.4	35.4	0.0724	2024
400/95	30/4.16	19/2.5	27.68	1	3.4	36.5	0.0709	2298
500/35	45/3.75	7/2.50	28.5	1	3.4	37.3	0.0581	2080
500/45	48/3.60	7/2.80	28.5	1	3.4	37.3	0.0591	2126
500/65	54/3.44	7/3.44	29.41	1	3.4	38.2	0.0576	2347