架空电缆

AERIAL CABLES

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10kV钢芯铝交联聚乙烯绝缘架空电缆(参照GB/T1179-2008, GB/T14049-2008)
10kV Steel Core Aluminium XLPE Insulated Aerial CableGB/T1179-2008, GB/T14049-2008)

1 用途 Application

本产品适用于交流额定电压U(Um)为10(12)KV的架空电力线路。

The product is used in aerial electric circuit at AC rated voltage U(Um)=10(12)KV.

2 使用条件 Applying terms

1) 电缆导体的最高长期允许工作温度为90℃。
2) 敷设温度不低于-20℃。
3) 短路时(最长持续时间不超过5秒)导体的最高温度应不大于250℃。
1) The long time working temperature of cable should not be highter than 90℃。
2) While installation the ambient temperature should not be lower than -20℃。
3) When core is in short circuit (max 5s) the temperature should not exceed 250℃。

3 型号规格（见表1） Model and specification (see table 1)

表1 Table 1

型号 Model	截面(铝 / 钢)mm² Section aluminium/steel	名称 Name	主要用途 Main usage
JKLGYJ-10	10/2-500/65	10kV钢芯铝交联聚乙烯绝缘架空电缆 10kV steel core aluminum XLPE insulation aerial cable	适用于10kV架空电力线路固定敷设。电缆架设时，应考虑电缆和树木保持一定距离，电缆运行时，允许电缆和树木频繁接触。 It is applicable to fix and lay down 10KV overhead power line. 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.

4 结构尺寸、技术性能（见表2） Structure size and technology property (see table 2)

表2 Table 2

标称截面铝 / 钢 Nominal section aluminium /steel (mm²)	结构根数 / 直径 Structure pair no./diameter (mm)		紧压外径参考 Out diameter reference (mm)	内屏蔽厚度 Inner shield thickness (mm)	绝缘厚度 Thickness (mm)	电缆外径参考 Outer diameter (mm)	导体最大电阻 20℃ Conductor max resisture at 20℃ (Ω/km)	计算拉断力 (不小于)N Calculated breaking≥	电缆参考重量 Reference weight (kg/km)
	铝 aluminium	钢 steel							
10/2	6/1.50	1/1.50	4.28	1.0	3.4	13.1	0.7060	4120	159
16/3	6/1.85	1/1.85	5.27	1.0	3.4	14.1	1.7790	6130	194
25/4	6/2.32	1/2.32	6.60	1.0	3.4	15.4	1.1310	9290	270
35/6	6/2.72	1/2.72	7.75	1.0	3.4	16.6	0.8230	12630	304
50/8	6/3.20	1/3.20	9.12	1.0	3.4	17.9	0.5496	16870	375
50/30	12/2.32	7/2.32	11.02	1.0	3.4	19.8	0.5692	42620	577
70/10	6/3.80	1/3.80	10.83	1.0	3.4	19.6	0.4217	23390	477
70/40	12/2.72	7/2.72	12.92	1.0	3.4	21.7	0.4141	58300	741
95/15	26/2.15	7/2.15	12.93	1.0	3.4	21.7	0.3058	35000	611
95/20	7/4.16	7/4.16	13.18	1.0	3.4	22.0	0.3019	37200	644
95/55	12/3.20	7/3.20	15.20	1.0	3.4	24.0	0.2992	78110	969
120/7	18/2.90	1/2.90	13.78	1.0	3.4	22.6	0.2422	27570	622
120/20	26/2.38	7/1.85	14.32	1.0	3.4	23.1	0.2496	41000	716
120/25	7/4.72	7/2.10	14.95	1.0	3.4	23.8	0.2345	47880	787

表2 Table 2

标称截面铝／钢 Nominal section aluminium /steel (mm^2)	结构根数／直径 Structure pair no./diameter (mm)		紧压外径参考 Out diameter reference (mm)	内屏蔽厚度 Inner shield thickness (mm)	绝缘厚度 Thickness (mm)	电缆外径参考 Outer diameter (mm)	导体最大电阻 20℃ Conductor max resisture at 20℃ (Ω/km)	计算拉断力 (不小于)N Calculated breaking≥	电缆参考重量 Reference weight (kg/km)
	铝 aluminium	钢 steel							
120/70	12/3.60	7/3.60	17.10	1.0	3.4	25.9	0.2360	98370	1182
150/8	18/3.20	1/3.20	15.20	1.0	3.4	24.0	0.1989	32860	723
150/20	24/2.78	7/1.85	15.84	1.0	3.4	24.6	0.1980	46630	817
150/25	26/2.70	7/2.10	16.25	1.0	3.4	25.1	0.1939	54110	878
150/35	30/2.50	7/2.50	16.63	1.0	3.4	25.4	0.1962	65020	962
185/10	18/3.60	1/3.60	17.10	1.0	3.4	25.9	0.1572	40880	870
185/25	24/3.15	7/2.10	17.96	1.0	3.4	26.8	0.1542	59420	1006
185/30	26/2.98	7/2.30	17.94	1.0	3.4	26.7	0.1592	64320	1029
185/45	30/2.80	7/2.80	18.62	1.0	3.4	27.4	0.1564	80190	1154
210/10	18/3.80	1/3.80	18.05	1.0	3.4	26.9	0.1411	45140	952
210/25	24/3.33	7/2.22	18.98	1.0	3.4	27.8	0.1380	65990	1101
210/35	26/3.22	7/2.50	19.36	1.0	3.4	28.2	0.1363	74250	1172
210/50	30/2.98	7/2.98	19.82	1.0	3.4	28.6	0.1381	90830	1283
240/30	24/3.60	7/2.40	20.52	1.0	3.4	29.3	0.1181	75620	1253
240/40	26/3.42	7/2.66	20.58	1.0	3.4	29.4	0.1209	83370	1298
240/55	30/3.20	7/3.20	21.28	1.0	3.4	30.1	0.1198	102100	1451
300/15	42/3.00	7/1.67	21.86	1.0	3.4	30.7	0.0972	68060	1292
300/20	45/2.93	7/1.95	23.21	1.0	3.4	32.0	0.0952	75680	1369
300/25	48/2.85	1/2.22	22.57	1.0	3.4	31.4	0.0943	83410	1419
300/40	24/3.99	7/2.66	22.74	1.0	3.4	31.5	0.0961	92220	1493
300/50	26/3.83	7/2.98	23.05	1.0	3.4	31.9	0.0964	103400	1580
300/70	30/3.60	7/3.60	23.94	1.0	3.4	32.7	0.0946	128000	1778
400/20	42/3.51	7/1.95	25.56	1.0	3.4	34.4	0.0710	88850	1687
400/25	45/3.33	7/2.22	25.31	1.0	3.4	34.1	0.0737	95940	1690
400/35	48/3.22	7/2.50	25.48	1.0	3.4	34.3	0.0739	103900	1748
400/50	54/3.07	7/3.07	26.25	1.0	3.4	35.1	0.0723	123400	1922
400/65	26/4.42	7/3.44	26.60	1.0	3.4	35.4	0.0724	135200	2024
400/95	30/4.16	19/2.50	27.68	1.0	3.4	36.5	0.0709	171300	2298
500/35	45/3.75	7/.250	28.50	1.0	3.4	37.3	0.0581	119500	2080
500/45	48/3.60	7/2.80	28.50	1.0	3.4	37.3	0.0591	128100	2126
500/65	54/3.44	7/3.44	29.41	1.0	3.4	38.2	0.0576	154000	2347

额定电压1kV及以下架空绝缘电缆(GB/T12527-2008)
Aerial Insulated Cables Of Rated Voltage Up To And Including 1kV(GB/T12527-2008)

1 用途 Application

本产品适用于交流额定电压Uo/U为0.6/1kV及以下架空电力线路用铜芯、铝芯或铝合金芯耐侯型聚氯乙烯(简称PVC)、聚乙烯(简称PE)和交联聚乙烯(简称XLPE)绝缘架空电缆。

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 Uo/U 0.6/1kV and below.

2 使用条件 Applying terms

1) 额定电压Uo/U为0.6/1kV。
2) 电缆导体的长期允许工作温度：聚氯乙烯、聚乙烯绝缘应不超过70℃；交联聚乙烯绝缘应不超过90℃。
3) 电缆的敷设温度应不低于−20℃。
4) 电缆的允许弯曲半径：电缆外径(D)小于25mm者，应不小于4D; 电缆外径(D)为25mm及以上者，应不小于6D。

1) Rated voltage Uo/U: 0.6/1kV.
2) Long−term permissible working temperature of cable conductor: PVC and PE insulated cables can’t exceed 70℃, and XLPE insulated cable shall not exceed 90℃.
3) The layout temperature of cable shall not be lower than −20℃.
4) Permissible bending radius of cable: The cable whose O.D. is shorten 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;

3 型号，名称（见表1） Model and name (see table 1)

表1 Table 1

型号 Model	名称 Name	主要用途 Main usage
JKV−0.6/1	额定电压0.6/1kV铜芯聚氯乙烯绝缘架空电缆 Copper−core PVC insulated aerial cable of rated voltage 0.6/1kV	架空固定敷设、引户线等 Overhead fixed layout and wire conducting, etc.
JKLV−0.6/1	额定电压0.6/1kV铝芯聚氯乙烯绝缘架空电缆 Aluminum−core PVC insulated aerial cable of rated voltage 0.6/1kV	
JKLHV−0.6/1	额定电压0.6/1kV铝合金芯聚氯乙烯绝缘架空电缆 Aluminum alloy core PVC insulated aerial cable of rated voltage 0.6/1kV	
JKY−0.6/1	额定电压0.6/1kV铜芯聚乙烯绝缘架空电缆 Copper−core PE insulated aerial cable of rated voltage 0.6/1kV	
JKLY−0.6/1	额定电压0.6/1kV铝芯聚乙烯绝缘架空电缆 Aluminum−core PE insulated aerial cable of rated voltage 0.6/1kV	
JKLHY−0.6/1	额定电压0.6/1kV铝合金芯聚乙烯绝缘架空电缆 Aluminum−core PE insulated aerial cable of rated voltage 0.6/1kV	
JKYJ−0.6/1	额定电压0.6/1kV铜芯交联聚乙烯绝缘架空电缆 Copper−core XLPE insulated aerial cable of rated voltage 0.6/1kV	
JKLYJ−0.6/1	额定电压0.6/1kV铝芯交联聚乙烯绝缘架空电缆 Aluminum−core XLPE insulated aerial cable of rated voltage 0.6/1kV	
JKLHYJ−0.6/1	额定电压0.6/1kV铝合金芯交联聚乙烯绝缘架空电缆 Aluminum−core XLPE insulated aerial cable of rated voltage 0.6/1kV	

4 结构尺寸、技术参数（见表2） Structure size and technology property （see table 2）

表2 Table 2

导体标称截面 Nom. cross sec. areas of conductor (mm²)	导体中最少单线根数 The least quantity of single wire in the conductor		导体外径(参考值) Conductor O.D. (reference value) mm	绝缘标称厚度 Insulated nominal thickness mm	单芯电缆平均外径上限 Average O.D. upper limit of single-core cable mm	20℃时导体电阻不大于 Conductor resistance at 20℃ not higher than (Ω/km)				额定工作温度时最小绝缘电阻 Min insulated resistance at rated working temperature (MΩ.km)		电缆拉断力 Cabletensile breaking force (N)		
	紧压圆形 Compact circle					铜芯 Copper core		铝芯 Aluminum core	铝合金芯 Aluminum alloy core					
	铜芯 Copper core	铝芯、铝合金芯 Aluminum core、Aluminum alloy core				硬铜 Hard copper	软铜 Soft copper			70℃	90℃	硬铜芯 Hard copper core	铝芯 Aluminum core	铝合金芯 Aluminum alloy core
10	6	6	3.8	1.0	6.5	1.906	1.83	3.08	3.574	0.0067	0.67	3471	1650	2514
16	6	6	4.8	1.2	8.0	1.198	1.15	1.91	2.217	0.0065	0.65	5486	2517	4022
25	6	6	6.0	1.2	9.4	0.749	0.727	1.20	1.393	0.0054	0.54	8465	3762	6284
35	6	6	7.0	1.4	11.0	0.540	0.524	0.868	1.007	0.0054	0.54	11731	5177	8800
50	6	6	8.4	1.4	12.3	0.399	0.387	0.641	0.744	0.0046	0.46	16502	7011	12569
70	12	12	10.0	1.4	14.1	0.276	0.268	0.443	0.514	0.0040	0.40	23461	10354	17596
95	15	15	11.6	1.6	16.5	0.199	0.193	0.320	0.371	0.0039	0.39	31759	13727	23880
120	18	15	13.0	1.6	18.1	0.158	0.153	0.253	0.294	0.0035	0.35	39911	17339	30164
150	18	15	14.6	1.8	20.2	0.128	–	0.206	0.239	0.0035	0.35	49505	21033	37706
185	30	30	16.2	2.0	22.5	0.1021	–	0.164	0.190	0.0035	0.35	61846	26732	46503
240	34	30	18.4	2.2	25.6	0.0777	–	0.125	0.145	0.0034	0.34	79823	34679	60329

5 交货要求 Delivery requirements

1) 根据双方的协议以任意长度交货。
2) 电缆应整齐卷绕在交货盘上，端头应密封良好，露出电缆盘外面的长度应满足测试要求，一只交货盘上只允许卷绕同一型号规格的电缆。
3) 当双方无协议时，执行GB12527-90标准之规定。
1) The length of cables should be in accoradance with mutual agreements.
2) Cables deliverty should be coiled orderly. Cable tip should be slosely. Wrapped and seald. Exposed cable tip for AC testing should be long enough to meet the needs. The coiled cable must be in the same model and the same specification.
3) If there is no agreement, execute the stipulation of GB12527-90 standard.

10kV交联聚乙烯绝缘架空电缆(GB/T14049-2008)
10kV XLPE Insulation Aerial Cable(GB/T14049-2008)

1 用途 Application

本产品适用于交流额定电压U(Um)为10(12)kV的架空电力线路。
The product is used in aerial electric circuit at AC rated voltage U(Um)=10(12)kV.

2 使用条件 Applying terms

1) 电缆导体的最高长期允许工作温度为90℃。
2) 敷设温度不低于-20℃。
3) 短路时（最长持续时间不超过5秒）导体的最高温度应不大于250℃。
1) The long time working temperature of cable should not be highter than 90℃.
2) While installation the ambient temperature should not be lower than -20℃.
3) When core is in short circuit(max 5s)the temperature should not exceed 250℃.

3 型号规格（见表1） Model and specification （see table 1）

表1 Table 1

型号 Model	芯数 Core number	截面mm² Section	名称 Name	主要用途 Main usage
JKYJ	1 3	25-240 25-120	铜芯交联聚乙烯绝缘架空电缆 Copper XLPE insulation aerial cable	架空固定敷设，软铜芯产品用于变压器引。 Soft copper-core is used to lead wire out for transform when overhead, fix and lay down the cable.
JKTRYJ	1 3	25-240 25-120	软铜芯交联聚乙烯绝缘架空电缆 Flexible copper XLPE insulation 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，允许电缆和树木频繁接触。 To extend cables, it shall be taken into consideration to keep a certain distance between cable and tree, it is permitted to have frequent contacts between cable and tree when cable is in operation.

4 结构尺寸、技术性能（见表2） Structure size and technology property （see table 2）

表2 Table 2

芯数×标称截面 Cores×Nominal section (mm²)	紧压导体外径 Conductor out diameter	内屏蔽厚度 Inner shield thickness (mm)	绝缘厚度 Thickness (mm)	电缆外径 Outer diameter (mm)	电缆重量 weight (kg/km)	电缆拉断力(不小于)N Breaking≥	导体最大电阻 20℃ Conductor max resisture at 20℃ (Ω/km)	浸水交流电压试验 AC voltage testing (kV)
1×25	6.2	0.6	3.4	14.2	344	8465	0.7490	18
1×35	7.2	0.6	3.4	15.2	445	11731	0.5400	18
1×50	8.5	0.6	3.4	16.5	594	16502	0.3990	18
1×70	10.2	0.6	3.4	18.2	792	23461	0.2760	18

4 结构尺寸、技术性能（续表2） Structure size and technology property （see table 2）

续表2 Table 2

芯数×标称截面 Cores×Nominal section (mm^2)	紧压导体外径 Conductor out diameter	内屏蔽厚度 Inner shield thickness (mm)	绝缘厚度 Thickness (mm)	电缆外径 Outer diameter (mm)	电缆重量 weight (kg/km)	电缆拉断力 (不小于)N Breaking≥	导体最大电阻 20℃ Conductor max resisture at 20℃ (Ω/km)	浸水交流电压试验 AC voltage testing (kV)
1×95	11.8	0.7	3.4	20.0	1034	31759	0.1990	18
1×120	13.2	0.7	3.4	21.4	1280	39911	0.1580	18
1×150	14.8	0.7	3.4	23.0	1566	49505	0.1280	18
1×185	16.4	0.7	3.4	24.6	1897	61846	0.1021	18
1×240	18.6	0.7	3.4	26.8	2413	79823	0.0777	18

5 交货要求 Delivery requirements

1) 根据双方的协议以任意长度交货。

2) 电缆应整齐卷绕在交货盘上，端头应密封良好，露出电缆盘外面的长度应满足测试要求，一只交货盘上只允许卷绕同一型号规格的电缆。

3) 当双方无协议时，执行GB14049-93标准之规定。

1) The length of cables should be in accoradance with mutual agreements.

2) Cables deliverty should be coiled orderly. Cable tip should be slosely. Wrapped and seald. Exposed cable tip for AC testing should be long enough to meet the needs. The coiled cable must be in the same model and the same specification.

3) If there is no agreement, execute the stipulation of GB14049-93 standard.