

圆线同心绞架空导线 (GB/T 1179–2008)

Round wire concentric lay overhead ecectrical standed conductors (GB/T 1179–2008)

(IEC 61089:1991,MOD)

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

导线的型号和名称 Model and name of cable

表1Table1

型号 Model	名称 Name
JL JLHA2、JLHAL1 JL/G1A、JL/G1B、JL/G2A、JL/G2B、JL/G3A JL/G1AF、JL/G2AF、JL/G3AF JLHA2/G1A、JLHA2/G1B、JLHA2/G3A JLHA1/G1A、JLHA1/G1B、JLHA1/G3A JL/LHA2、JL/LHA1	铝绞线 Aluminum stranded conductor 铝合金 Aluminum alloy 钢芯铝绞线 Steel core aluminum stranded conductor 防腐性钢芯铝绞线 Steel core aluminum stranded conductor of anti–corrosion 钢芯铝合金绞线 Steel core aluminum alloy stranded conductor 钢芯铝合金绞线Steel core aluminum alloy stranded conductor 铝合金芯铝绞线 Aluminum alloy core aluminum stranded conductor
JL/LB1A JLHA2/LB1A、JLHA1/LB1A JG1A、JG1B、JG2A、JG3A JLB1A、JLB1B、JLB2	铝包钢芯铝绞线 Aluminum clad steel core aluminum stranded conductor. 铝包钢芯铝合金绞线 Aluminum clad steel core aluminum alloy stranded conductor 钢绞线 Steel stranded conductor 铝包钢绞线 Aluminum clad steel stranded conductor

a. 防腐型钢芯铝绞线的涂覆方式，按附录D的规定，在订货时应说明。

b. 个别小规格实为混绞线。

a. Under the provisions of appendix D, the way of overlay Steel aluminum stranded conductor of anti–corrosion should be explained when order goods.

b. some small specification products actually are mixed stranded conductor.

规格性附录 Appendix of specifications

F、1 型号

F.1.1 本附录包括1.2列出的各种型号是导线的推荐尺寸，同时在表D.1~ 表D.14中列出了所有导线的性能。

F.1.2 类别代号

同心绞合	J
防腐	F

F.1.3 导线用单线代号

a) 硬圆铝线	LY
状态：硬拉	9
b) 架空绞线用铝合金圆形	LH
高强度系列	A
性能	1或2
c) 电工用铝包钢线	LB
导电系列 (20.3%IACS和27%IACS)	1或2
机械性能系列	A或B
d) 绞线用镀锌钢线	G
强度系列 (普通、高强和特高强)	1、2或3
镀层厚度等级 (普通和加厚)	A或B

F.1.4 本标准引用单线名称和代号

a)硬圆铝线	LY9省略为L
b)高强度铝合金线	LHA1和LHA2
c)20.3%IACS铝包钢线	LB1A和LB1B
27%IACS铝包钢线	LB2
d)普通强度镀锌钢线	G1A和G1B
高强度镀锌钢线	G2A和G2B
特高强度镀锌钢线	G3A



F、1 Model

F.1.1 Various models which were listed in appendix (include F1 and F2) are the recommended dimensions of cable, and all the performance of cable had been listed in table D1–D14.

F.1.2 Category code

Concentric stranding	J
Anticorrosive	F

F.1.3 Code of single wire for conductor

a) Hard Aluminum around wire	LY
Condition: hard–drawn	9
b) Round aluminum alloy for aerial stranded conductor	LH
Series of high strength	A
Performance	1 or 2
c) Aluminum clad steel Cable for electric purpose	LB
Conductive series (20.3%IACS and 27%IACS)	1 or 2
Mechanical series	A or B
d) Zinc coated steel stranding wire	G
Strength series (ordinary、high、special)	1、2 or 3
Grade of cladding material thickness (ordinary and inspissate)	A or B

F.1.4 The name and code of single wire are quoted in standard

a) Hard lead round wire	LY9 omitted to L
b) High strength aluminum alloy wire	LHA1 and LHA2
c) 20.3% IACS aluminum clad steel wire	LB1A and LB1B
27% IACS aluminum clad steel wire	LB2
d) Ordinary strength zinc coated steel wire	G1A and G1B
High strength zinc coated steel wire	G2A and G2B
Special high strength zinc coated steel wire	G3A

F、2 产品型号

F.2.1 导线型号第一个字母均用J,表示同心绞合。

F.2.2 单一导线在J后面为组成导线的单线代号。

F.2.3 组合导线在J后面为外层线(或外包线)和内层线(或线芯)的代号，二者用“/”分开。

F.2.4 在型号尾部加防腐代号F，则表示导线采用涂防腐油结构。

F、3 产品表示方法

F.3.1 产品用型号、标称截面、绞合结构及本标准编号表示。

F.3.2 规格号表示相当于硬拉圆铝线的导电截面积，单位为mm²。

F.3.3 绞合结构用构成导线的单线根数表示。单一导线直接用单线根数表示，组合导线采用前面为导电铝线根数，后面为内层加强芯线根数，中间用“/”分开来表示。

F.3.4 产品表示示例

示例 1：JL–500–37由37根硬铝线绞制成的铝绞线，其标称截面为500mm²。

示例 2：JLHA1–500–37由37根1型高强度铝合金线绞制成的铝合金绞线，其标称截面为500mm²。

示例 3：JL/G1A–500/35–45/7由45根硬铝线和7根A级镀层普通强度镀锌钢线绞制成的钢芯铝绞线，硬铝线的标称截面为500mm²，钢的标称截面为35mm²。

示例 4：JLHA1/G3A–500/65–54/7由54根1型高强度铝合金线和7根A级镀层特高强度镀锌钢线绞制而成的钢芯铝合金线，铝合金线的标称截面为500mm²，钢的标称截面为65mm²。

示例 5：JL/LB1A–485/60–54/7由54根硬铝线和7根20.3%IACS导电率A型铝包钢线绞制成的铝包钢芯铝绞线，硬铝线的标称截面为485mm²，铝包钢的标称截面为60mm²。

示例 6：JLB1A–120–19由19根20.3%IACS导电率A型铝包钢线绞制成的铝包钢绞线，铝包钢线的标称截面为120mm²。

示例 7：JL1A–250–19由19根A级镀层普通强度镀锌钢线绞制成的镀锌钢绞线，钢线的标称截面为250mm²。

注：上述示例表示中，为简化均在后面省略了本标准编号。

圆线同心绞架空导线

Round wire concentric lay overhead electrical stranded conductors

F、 2 Item model

F.2.1 It is means concentric stranding when the first letter of cable model is J.

F.2.2 The letter of cable model behind J is a code of conductor for single wire.

F.2.3 The letter of cable model behind J is a code of outer conductor (or outer warped conductor) and inner conductor (or core of conductor), separates them with sign

F.2.4 It is means cable use the structure of planting antiseptic oil when adding anti-corrosion code F after cable model.

F、3 Way of products representation

F.3.1 It is use model、nominal section、strand structure and standards number to express product.

F.3.2 Specification code are expressed by conductor section area value of hard-drawn round aluminum wire .(mm²)

F.3.3 Stranded structure is expressed by the number of uni-line, same as single wire. For mix-wire, Ahead code is the number of electric aluminum wires, behind code is the number of inner reinforce core wires. Separated by / between them.

F.3.4 Example of products representation

Example 1: JL-500-37, it is the aluminum stranded conductor which is made by 37 hard aluminum wires, the nominal cross section area is 500mm².

Example 2: JLHAI-500-37, it is the aluminum alloy stranded conductor which is made by 37 high-strength aluminum stranded conductor, the nominal cross section area is 500mm².

Example 3: JL/G1A-500/35-45/7, it is the steel core aluminum stranded conductor which is made by 45 hard aluminum wires and 7 class A cladding material ordinary tinned steel wires, the nominal cross section of steel is 35mm².

Example 4: JLHA1/G3A-500/65-54/7, it is the steel core aluminum alloy stranded conductor which is made by 54 type 1 high strength aluminum alloy wires and 7 class A special high strength zinc coated steel wires. The nominal cross section area of aluminum alloy wire is 500 mm², and the nominal cross section area of steel is 65 mm².

Example 5: JL/LB1A-485/60-54/7, it is the aluminum clad steel core aluminum stranded conductor which is made by 54 hard aluminum wires and 7 20.3%IACS electric conductivity class A cladding material aluminum clad steel wires, the nominal cross section area of hard aluminum is 485mm², and the nominal section area of aluminum clad steel is 60mm².

Example 6: JLB1A-120-19, it is the aluminum clad steel stranded conductor which is made by 19 20.3% IACS electric conductivity type A aluminum clad steel wires, the nominal cross section area of aluminum clad steel wire is 120mm².

Example 7: JL1A-250-19, it is the zinc coated steel stranded conductor which is made by 19 class A cladding material ordinary strength zinc coated steel wires, the nominal cross section area of steel wire is 250mm².

Note: For simple, it has omitted standard number after the example.

F、4 产品型号与IEC代号对照表

F、4 Comparison table of item model and IEC code

产品型号与IEC代号对照表见表F.1。 Comparison table of item model and IEC code (see table F1)

表F.1 Table F.1

产品名称 Name of product	图标型号 Icon model	IEC代号 IEC code
铝绞线	JL	A1
铝合金绞线	JLHA2、JLHA1	A2、A3
钢芯铝绞线	JL/G1A、JL/G1B、JL/G2A、JL/G2B、JL/G3A	A1/S1A、A1/S1B、A1/S2A、A1/S2B、A1/S3A
防腐性钢芯铝绞线	JL/G1AF、JL/G2AF、JL/G3AF	—
钢芯铝合金绞线	JLHA2/G1A、JLHA2/G1B、JLHA2/G2A、JLHA2/G2B、JLHA2/G3A	A2/S1A、A2/S1B、A2/S2A、A2/S2B、A2/S3A
钢芯铝合金绞线	JLHA1/G1A、JLHA1/G1B、JLHA1/G2A、JLHA1/G2B、JLHA1/G3A	A3/S1A、A3/S1B、A3/S2A、A3/S2B、A3/S3A
铝合金芯铝绞线	JL/LHA2、JL/LHA1	A1/A2、A1/A3
铝包钢芯铝绞线	JL/LB1A	A1/SA1A
铝包钢芯铝合金绞线	JLHA2/LB1A、JLHA1/LB1A	A2/SA1A、A3/SA1A
钢绞线	JG1A、JG1B、JG2A、JG3A	S1A、A1B、S2A、S3A
铝包钢绞线	JLB1A、JLB1B、JLB2	SA1A、SA1B、SA2

圆线同心绞架空导线

Round wire concentric lay overhead electrical standard conductors

JL 铝绞线性能 Performance of JL aluminum stranded conductor

表E.1 Table E.1

标称截面铝 Nominal cross section area (Al)	面积/mm ² Area (mm ²)	单线根数 ₁₁ Number of single wire	直径/mm Diameter (mm)		单位长度 质量/(kg/km) Weight of unitized length (kg/km)	额定抗拉力/kN Rated tensile force (kN)	直流电阻 (20℃)/(Ω/km) DC resistance at 20℃ (Ω/km)
			单线 Single wire	绞线 Stranded conductor			
35	34.6	7	2.50	7.50	94.0	6.01	0.8333
50	49.48	7	3.00	9.00	135.3	8.41	0.5787
70	71.25	7	3.60	10.8	194.9	11.40	0.4019
95	95.14	7	4.16	12.5	260.2	15.22	0.3010
120	121.21	19	2.85	14.3	333.2	20.61	0.2374
150	148.07	19	3.15	15.8	407.0	24.43	0.1943
185	182.80	19	3.50	17.5	502.4	30.16	0.1574
210	209.85	19	3.75	18.8	576.8	33.58	0.1371
240	238.76	19	4.00	20.0	656.3	38.20	0.1205
300	297.57	37	3.20	22.4	819.8	49.10	0.0969
500	502.90	37	4.16	29.1	1385.5	80.46	0.0573

JL/G1A 钢芯铝绞线性能 Performance of JL/G1A steel core aluminum stranded conductor

表E.2 Table E.2

标称截面 铝/钢 Nominal cross section area (Al/Cu)	铜比 /% Rate of steel in cond uctor (%)	面积/mm ² Area (mm ²)			单线根数 ₁ Number of single wire		单线直径/mm Diameter of single wire (mm)		直径/mm Diameter (mm)		单位长度 质量/(kg/km) Weight of unitized length (kg/km)	额定抗拉力 /kN Rated tensile force (KN)	直流电阻 (20℃)/(Ω/km) DC resistance at 20℃ (Ω/km)
		铝 Aluminum	钢 Steel	总和 Sum	铝 Aluminum	钢 Steel	铝 Aluminum	钢 Steel	钢芯 Steel core	绞线 Stranded conductor			
10/2	17	10.60	1.77	12.37	6	1	1.50	1.50	1.50	4.50	42.8	4.14	2.7062
16/3	17	16.13	2.69	18.82	6	1	1.85	1.85	1.85	5.55	65.1	6.13	1.7791
35/6	17	34.86	5.81	40.67	6	1	2.72	2.72	2.72	8.16	140.8	12.55	0.8230
50/8	17	48.25	8.04	56.30	6	1	3.20	3.20	3.20	9.60	194.8	16.81	0.5946
50/30	58	50.73	25.59	80.32	12	7	2.32	2.32	2.32	11.6	371.1	42.61	0.5693
70/10	17	68.05	11.34	79.39	6	1	3.80	3.80	3.80	11.4	274.8	23.36	0.4217
70/40	58	69.73	40.67	110.40	12	7	2.72	2.72	8.16	13.6	510.2	58.22	0.4141
95/15	16	94.39	15.33	109.73	26	7	2.15	1.67	5.01	13.6	380.2	34.93	0.3059
95/20	20	95.14	18.82	113.96	7	7	4.16	1.85	5.55	13.9	408.2	37.24	0.3020
95/55	58	96.51	56.30	152.81	12	7	3.20	3.20	9.60	16.0	706.1	77.85	0.2992
120/7	6	118.89	6.61	125.50	18	1	2.90	2.90	2.90	14.5	378.5	27.74	0.2422
120/20	16	115.67	18.82	134.49	26	7	2.38	1.85	5.55	15.1	466.1	42.26	0.2496

续表E.2 Table E.2

标称截面 铝/钢 Nominal cross section area (Al/Cu)	钢比 /% Rate of steel in cond uctor (%)	面积/mm ² Area (mm ²)			单线根数 _n Number of single wire		单线直径/mm Diameter of single wire (mm)		直径/mm Diameter (mm)		单位长度 质量/(kg/km) Weight of unitized length (kg/km)	额定抗拉力 /kN Rated tensile force (KN)	直流电阻 (20℃)/(Ω/km) DC resistance at 20℃ (Ω/km)
		铝 Aluminum	钢 Steel	总和 Sum	铝 Aluminum	钢 Steel	铝 Aluminum	钢 Steel	钢芯 Steel core	绞线 Stranded conductor			
120/25	20	122.48	24.25	146.73	7	7	4.72	2.10	6.30	15.7	525.7	47.96	0.2346
120/70	58	122.15	71.25	193.40	12	7	3.60	3.60	10.8	18.0	893.7	97.92	0.2364
150/8	6	144.76	8.04	152.80	18	1	3.20	3.20	3.20	16.0	460.9	32.73	0.1990
150/20	13	145.68	18.82	164.50	24	7	2.78	1.85	5.55	16.7	548.5	46.78	0.1981
150/25	16	148.86	24.25	173.11	26	7	2.70	2.10	6.30	17.1	600.1	53.67	0.1940
150/35	23	147.26	34.36	181.62	30	7	2.50	2.50	7.50	17.5	675.0	64.94	0.1962
185/10	6	183.22	10.18	193.40	18	1	3.60	3.60	3.60	18.0	583.3	40.51	0.1572
185/25	13	187.03	24.25	211.28	24	7	3.15	2.10	6.30	18.9	704.9	59.23	0.1543
185/30	16	181.34	29.59	210.93	26	7	2.98	2.32	6.96	18.9	731.4	64.56	0.1592
185/45	23	184.73	43.10	227.83	30	7	2.80	2.80	8.40	19.6	846.7	80.54	0.1564
210/10	6	204.14	11.34	215.48	18	1	3.80	3.80	3.80	19.0	649.9	45.14	0.1411
210/25	13	209.02	27.10	236.12	24	7	3.33	2.22	6.66	20.0	787.8	66.19	0.1380
210/35	16	211.73	34.36	246.09	26	7	3.22	2.50	7.50	20.4	852.5	74.11	0.1364
210/50	23	209.24	48.82	258.06	30	7	2.98	2.98	8.94	20.9	959.0	91.23	0.1381
240/30	13	244.29	31.67	275.96	24	7	3.60	2.40	7.20	21.6	920.7	75.19	0.1181
240/40	16	238.84	38.90	277.74	26	7	3.42	2.66	7.98	21.7	960.8	83.76	0.1209
240/55	23	241.27	56.30	297.57	30	7	3.20	3.20	9.60	22.4	1105.8	101.74	0.1198
300/15	5	296.88	15.33	312.21	42	7	3.00	1.67	5.01	23.0	938.7	68.41	0.0973
300/20	7	303.42	20.91	324.32	45	7	2.93	1.95	5.85	23.4	1000.8	76.04	0.0952
300/25	9	306.21	27.10	333.31	48	7	2.85	2.22	6.66	23.8	1057.0	83.76	0.0944
300/40	13	300.09	38.90	338.99	24	7	3.99	2.66	7.98	23.9	1131.0	92.36	0.0961
300/50	16	299.54	48.82	348.37	26	7	3.83	2.98	8.94	24.3	1207.7	103.58	0.0964
300/70	23	305.36	71.25	376.61	30	7	3.60	3.60	10.8	25.2	1399.6	127.23	0.0946
400/20	5	406.40	20.91	427.31	42	7	3.51	1.95	5.85	26.9	1284.3	89.48	0.0710
400/25	7	391.91	27.10	419.01	45	7	3.33	2.22	6.66	26.6	1293.5	96.37	0.0737
400/35	9	390.88	34.36	425.24	48	7	3.22	2.50	7.50	26.8	1347.5	103.67	0.0739
400/65	16	398.94	65.06	464.00	26	7	4.42	3.44	10.3	28.0	1608.7	135.39	0.0724
400/95	23	407.75	93.27	501.02	30	19	4.16	2.50	12.5	29.1	1856.7	171.56	0.0709
500/45	9	488.58	43.10	531.68	48	7	3.60	2.80	8.40	30.0	1685.5	127.31	0.0591
630/55	9	639.92	56.30	696.22	48	7	4.12	3.20	9.60	34.3	2206.4	164.31	0.0452
800/55	7	814.30	56.30	870.60	45	7	4.80	3.20	9.60	38.4	2687.5	192.22	0.0355
800/70	9	808.15	71.25	879.40	48	7	4.63	3.60	10.8	38.6	2787.6	207.68	0.0358

JLHA1 铝合金铝绞线性能 Performance of type JLHA1 aluminum alloy stranded conductor

表E.3 Table E.3

标称截面 铝合金 Nominal cross section area of aluminum alloy	面积/mm ² Area (mm ²)	单线根数 _n Number of single wire	直径/mm Diameter (mm)		单位长度 质量/(kg/km) Weight of unitized length (kg/km)	额定抗拉力/kN Rated tensile force (KN)	直流电阻 (20℃)/(Ω/km) DC resistance at 20℃ (Ω/km)
			单线 Single wire	绞线 Stranded conductor			
10	10.02	7	1.35	4.05	27.4	3.26	3.3205
16	16.08	7	1.71	5.13	44.0	5.22	2.0695
25	24.94	7	2.13	6.39	68.2	8.11	1.3339
35	34.91	7	2.52	7.56	95.5	11.35	0.9529
50	50.14	7	3.02	9.06	137.2	16.30	0.6635
70	70.07	7	3.57	10.7	191.7	22.07	0.4748
95	95.14	7	4.16	12.5	261.5	29.97	0.3514
150	149.96	19	3.17	15.9	412.2	48.74	0.2229
210	209.85	19	3.75	18.8	576.8	66.10	0.1593
240	239.96	19	4.01	20.1	661.1	75.59	0.1397
300	299.43	37	3.21	22.5	825.0	97.32	0.1119
400	399.98	37	3.71	26.0	1102.0	125.99	0.0838
500	500.48	37	4.15	29.1	1380.9	157.65	0.0671
630	631.30	61	3.63	32.7	1741.8	198.86	0.0532
800	801.43	61	4.09	36.8	2211.3	252.45	0.0419
1000	1000.58	61	4.57	41.1	2760.7	315.18	0.0335

JLHA2 铝合金铝绞线性能 Performance of type JLHA2 aluminum alloy stranded conductor

表E.4 Table E.4

标称截面 铝合金 Nominal cross section area of aluminum alloy	面积/mm ² Area (mm ²)	单线根数 _n Number of single wire	直径/mm Diameter (mm)		单位长度 质量/(kg/km) Weight of unitized length (kg/km)	额定抗拉力/kN Rated tensile force (KN)	直流电阻 (20℃)/(Ω/km) DC resistance at 20℃ (Ω/km)
			单线 Single wire	绞线 Stranded conductor			
10	10.02	7	1.35	4.05	27.4	2.96	3.2891
16	16.08	7	1.71	5.13	44.0	4.74	2.0500
25	24.94	7	2.13	6.39	68.2	7.36	1.3213
35	34.91	7	2.52	7.56	95.5	10.30	0.9439
50	50.14	7	3.02	9.06	137.2	14.79	0.6573
70	70.07	7	3.57	10.7	191.7	20.67	0.4703
95	95.14	7	4.16	12.5	261.5	28.07	0.3481
120	120.36	19	2.84	14.2	330.8	35.51	0.2751
150	149.96	19	3.17	15.9	412.2	44.24	0.2208
210	209.85	19	3.75	18.8	576.8	61.91	0.1578
240	239.96	19	4.01	20.1	661.1	70.79	0.1383
300	299.43	37	3.21	22.5	825.0	88.33	0.1109
400	399.98	37	3.71	26.0	1102.0	117.99	0.0830
500	500.48	37	4.15	29.1	1380.9	147.64	0.0664
630	631.30	61	3.63	32.7	1741.8	186.23	0.0527
800	801.43	61	4.09	36.8	2211.3	236.42	0.0415
1000	1000.58	61	4.57	41.1	2760.7	295.17	0.0332

JLHA1/G1A 钢芯铝合金绞线性能 Performance of type JLHA1/G1A steel core aluminum alloy stranded conductor 表E.5 Table E.5

标称截面 铝合金/钢 Nominal cross section of aluminum alloy/steel	钢比 /% Rate of steel in cond uctor (%)	面积/mm ² Area (mm ²)			单线根数 _n Number of single wire		单线直径/mm Diameter of single wire (mm)		直径/mm Diameter (mm)		单位长度 质量/(kg/km) Weight of unitized length (kg/km)	额定抗拉力 /kN Rated tensile force (kN)	直流电阻 (20℃)/(Ω/km) DC resistance at 20℃ (Ω/km)
		铝 Aluminum	钢 Steel	总和 Sum	铝 Aluminum	钢 Steel	铝 Aluminum	钢 Steel	钢芯 Steel core	绞线 Stranded conductor			
10/2	17	10.60	1.77	12.37	6	1	1.50	1.50	1.50	4.50	42.8	5.51	3.1444
16/3	17	16.13	2.69	18.82	6	1	1.85	1.85	1.85	5.55	65.1	8.39	2.0671
25/4	17	25.36	4.23	29.59	6	1	2.32	2.32	2.32	6.96	102.4	13.06	1.3144
35/6	17	34.86	5.81	40.67	6	1	2.72	2.72	2.72	8.16	140.8	17.96	0.9563
50/8	17	48.25	8.04	56.30	6	1	3.20	3.20	3.20	9.60	194.8	24.53	0.6909
50/30	58	50.73	29.59	80.32	12	7	2.32	2.32	6.96	11.6	371.1	50.22	0.6614
70/10	17	68.05	11.34	79.39	6	1	3.80	3.80	3.80	11.4	274.8	33.91	0.4899
70/40	58	69.73	40.67	110.40	12	7	2.72	2.72	8.16	13.6	510.2	69.03	0.4812
95/15	16	94.39	15.33	109.73	26	7	2.15	1.67	5.01	13.6	380.2	48.62	0.3554
95/55	58	96.51	56.30	152.81	12	7	3.20	3.20	9.60	16.0	706.1	93.29	0.3477
120/7	6	118.89	6.61	125.50	18	1	2.90	2.90	8.70	14.5	378.5	46.17	0.2815
120/20	16	115.67	18.82	134.49	26	7	2.38	1.85	5.55	15.1	466.1	59.61	0.2900
120/70	58	122.15	71.25	193.40	12	7	3.60	3.60	10.8	18.0	893.7	116.85	0.2747
150/8	6	144.76	8.04	152.81	18	1	3.20	3.20	3.20	16.0	460.9	55.90	0.2312
150/25	16	148.86	24.25	173.11	26	7	2.70	2.10	6.30	17.1	600.1	76.75	0.2254
185/10	6	183.22	10.18	193.40	18	1	3.60	3.60	3.60	18.0	583.3	68.91	0.1826
210/10	6	204.14	11.34	215.48	18	1	3.80	3.80	3.80	19.0	649.9	76.78	0.1639
210/35	16	211.73	34.36	246.09	26	7	3.22	2.50	7.50	20.4	852.5	107.98	0.1585
240/30	13	244.29	31.67	275.96	24	7	3.60	2.40	7.20	21.6	920.7	113.05	0.1372
240/40	16	238.84	38.90	277.74	26	7	3.42	2.66	7.98	21.7	962.8	121.97	0.1405
300/20	7	303.42	20.91	324.32	45	7	2.93	1.95	5.85	23.4	1000.8	123.07	0.1106
300/50	16	299.54	48.82	348.37	26	7	3.83	2.98	8.94	24.3	1207.7	150.01	0.1120
300/70	23	305.36	71.25	376.61	30	7	3.60	3.60	10.8	25.2	1399.6	174.57	0.1099
400/25	7	391.91	27.10	419.01	45	7	3.33	2.22	6.66	26.6	1293.5	159.07	0.0857
400/50	13	399.72	51.82	451.54	54	7	3.07	3.07	9.21	27.6	1509.3	186.91	0.0841
400/95	23	407.75	93.27	501.02	30	19	4.16	2.50	12.5	29.1	1856.7	234.77	0.0823
500/35	7	497.01	34.36	531.37	45	7	3.75	2.50	7.50	30.0	1640.3	195.73	0.0657
500/65	13	501.88	65.06	566.94	54	7	3.44	3.44	10.3	31.0	1895.0	234.68	0.0670
630/45	7	623.45	43.10	666.55	45	7	4.20	2.80	8.40	33.6	2057.6	245.52	0.0538
630/80	13	635.19	80.32	715.51	54	19	3.87	2.32	11.6	34.8	2384.7	291.65	0.0529
800/55	7	814.30	56.30	870.60	45	7	4.80	3.20	9.60	38.4	2687.5	318.43	0.0412
800/100	13	795.17	100.88	896.05	54	19	4.33	2.60	13.0	39.0	2987.8	365.48	0.0423
1000/45	4	1002.27	43.10	1045.38	72	7	4.21	2.80	8.40	42.1	3106.8	364.85	0.0335
1000/125	13	993.51	125.50	1119.01	54	19	4.84	2.90	14.5	43.5	3728.9	456.03	0.0338

JLHA2/G1A 钢芯铝合金绞线性能 Performance of type JLHA2/G1A steel core aluminum alloy stranded conductor 表E.6 Table E.6

标称截面 铝合金/钢 Nominal cross section of aluminum alloy/steel	钢比 /% Rate of steel in cond uctor (%)	面积/mm ² Area (mm ²)			单线根数 _n Number of single wire		单线直径/mm Diameter of single wire (mm)		直径/mm Diameter (mm)		单位长度 质量/(kg/km) Weight of unitized length (kg/km)	额定抗拉力 /kN Rated tensile force (kN)	直流电阻 (20℃)/(Ω/km) DC resistance at 20℃ (Ω/km)
		铝 Aluminum	钢 Steel	总和 Sum	铝 Aluminum	钢 Steel	铝 Aluminum	钢 Steel	钢芯 Steel core	绞线 Stranded conductor			
10/2	17	10.60	1.77	12.37	6	1	1.50	1.50	1.50	4.50	42.8	5.20	3.1147
16/3	17	16.13	2.69	18.82	6	1	1.85	1.85	1.85	5.55	65.1	7.90	2.0476
25/4	17	25.36	4.23	29.59	6	1	2.32	2.32	2.32	6.96	102.4	12.30	1.3020
35/6	17	34.86	5.81	40.67	6	1	2.72	2.72	2.72	8.16	140.8	16.91	0.9472
50/30	58	50.73	29.59	80.32	12	7	2.32	2.32	6.96	11.6	371.1	48.70	0.6552
70/10	17	68.05	11.34	79.39	6	1	3.80	3.80	3.80	11.4	274.8	32.55	0.4853
70/40	58	69.73	40.67	110.40	12	7	2.72	2.72	8.16	13.6	510.2	66.94	0.4766
95/15	16	94.39	15.33	109.73	26	7	2.15	1.67	5.01	13.6	380.2	45.79	0.3521
95/55	58	96.51	56.30	152.81	12	7	3.20	3.20	9.60	16.0	706.1	90.40	0.3444
120/7	6	118.89	6.61	125.50	18	1	2.90	2.90	8.70	14.5	378.5	42.60	0.2788
120/20	16	115.67	18.82	134.49	26	7	2.38	1.85	5.55	15.1	466.1	56.14	0.2873
120/70	58	122.15	71.25	193.40	12	7	3.60	3.60	10.8	18.0	893.7	114.41	0.2721
150/8	6	144.76	8.04	152.81	18	1	3.20	3.20	3.20	16.0	460.9	51.55	0.2290
150/25	16	148.86	24.25	173.11	26	7	2.70	2.10	6.30	17.1	600.1	72.28	0.2232
210/10	6	204.14	11.34	215.48	18	1	3.80	3.80	3.80	19.0	649.9	72.70	0.1624
210/35	16	211.73	34.36	246.09	26	7	3.22	2.50	7.50	20.4	852.5	101.63	0.1570
240/30	13	244.29	31.67	275.96	24	7	3.60	2.40	7.20	21.6	920.7	108.17	0.1359
240/40	16	238.84	38.90	277.74	26	7	3.42	2.66	7.98	21.7	962.8	114.81	0.1391
300/20	7	303.42	20.91	324.32	45	7	2.93	1.95	5.85	23.4	1000.8	113.97	0.1096
300/50	16	299.54	48.82	348.37	26	7	3.83	2.98	8.94	24.3	1207.7	144.02	0.1109
300/70	23	305.36	71.25	376.61	30	7	3.60	3.60	10.8	25.2	1399.6	168.46	0.1089
400/25	7	391.91	27.10	419.01	45	7	3.33	2.22	6.66	26.6	1293.5	147.32	0.0849
400/50	13	399.72	51.82	451.54	54	7	3.07	3.07	9.21	27.6	1509.3	174.92	0.0833
400/95	23	407.75	93.27	501.02	30	19	4.16	2.50	12.5	29.1	1856.7	226.61	0.0816
500/35	7	497.01	34.36	531.37	45	7	3.75	2.50	7.50	30.0	1640.3	185.79	0.0669
500/65	13	501.88	65.06	566.94	54	7	3.44	3.44	10.3	31.0	1895.0	219.62	0.0663
630/45	7	623.45	43.10	666.55	45	7	4.20	2.80	8.40	33.6	2057.6	233.05	0.0533
630/80	13	635.19	80.32	715.51	54	19	3.87	2.32	11.6	34.8	2384.7	278.95	0.0524
800/55	7	814.30	56.30	870.60	45	7	4.80	3.20	9.60	38.4	2687.5	302.15	0.0408
800/100	13	795.17	100.88	896.05	54	19	4.33	2.60	13.0	39.0	2987.8	349.57	0.0419
1000/45	4	1002.27	43.10	1045.38	72	7	4.21	2.80	8.40	42.1	3106.8	344.81	0.0332
1000/125	13	993.51	125.50	1119.01	54	19	4.84	2.90	14.5	43.5	3728.9	436.16	0.0335