INNOVATION MAKES EXCELLENT

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张正山

天康集团

安徽天康(集团)股份有限公司
安徽天康股份有限公司

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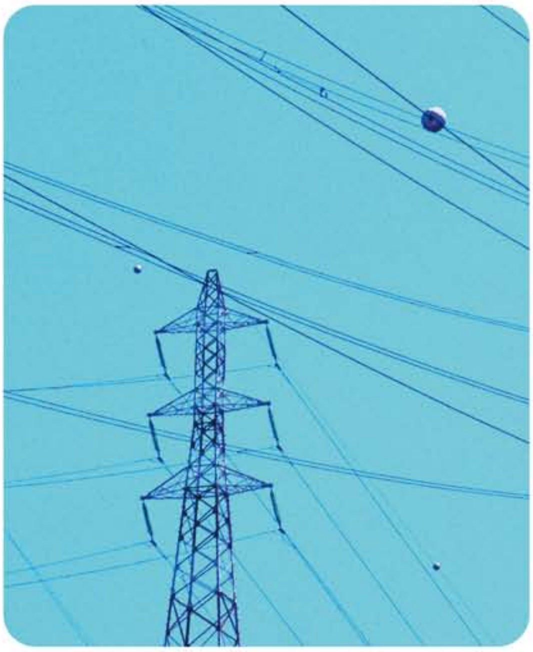
安徽天康(集团)股份有限公司
ANHUI TIANKANG(GROUP) SHARES CO.,LTD

天康集团
TIANKANG GROUP

架空导线
Overhead Conductor



安徽天康(集团)股份有限公司
ANHUI TIANKANG(GROUP)SHARES CO.,LTD.

Brief Introduction to Anhui Tiankang (Group) Shares Co., Ltd.

企业简介

安徽天康（集团）股份有限公司核心企业创建于1974年，总部位于长江之滨的天长市,南接古城南京,东与扬州相邻,地处充满活力的“长三角”经济圈，有着良好的投资与发展环境。

集团公司所属的电缆、光缆、仪表、新能源、石油钢管等公司凭借良好的质量和服务，其产品被广泛应用于电力、石油、化工、通讯等行业。公司现已成为国家级重合同守信用企业、安徽省高新技术企业、省依法纳税先进企业、银行资信AAA级企业。“天仪”商标于2010年获得“中国驰名商标”称号。

公司生产的电缆产品主要有动力电缆、信号电缆、核级电缆、船用电缆、数据电缆等，在国内市场具有较高份额，属“国家免检产品”。其中IE级K3类电缆进入核电市场后，为我国的核电事业做出了应有的贡献。架空导线产品在服务国内电网建设的基础上，还先后出口到东南亚、非洲、中东和欧美等地区。光缆产品在全国同行业中率先获得国家信息产业部、广电总局和总参的入网许可及使用。

公司生产的温度、压力、物位、流量、分析等五大系列仪表产品，在质量和规模上都处于国内领先地位，其中自主研发的超临界热电偶、热电阻产品经过国家权威机构的认证后，在核电行业得到广泛推广。近年来，根据安徽省委省政府主要领导的指示精神，公司积极进取，不断扩大生产规模，提升产品档次，全力打造安徽省仪表生产基地。

公司在建立和完善国内营销网络的基础上，还积极利用自营进出口权，不断开拓国际市场，并取得较好的业绩。

公司将始终秉持“有跨越才有卓越”的天康精神，在创建和谐企业的基础上，不断把握市场发展脉搏，积极寻求经济战略联盟，为振兴民族工业而继续努力。

Established in 1974, Anhui Tiankang(Group)Shares Co.,Ltd.lies in Tianchang city--eastern pearl of Anhui province on bank of Yangtz River,near Nanjing in the south,and Yangzhou in the east,within the most active shanghai Economic Cooperation Area in China,good environment for economic development.

Anhui Tiankang (Group) Co., Ltd. was established with investments by several enterprises including Anhui Tiankang Optic-electric Co., Ltd., Anhui Tianchang Instrument Plant, Tianchang Cable Bridges Plant, Anhui Tiankang New Energy Co., Ltd., Anhui Tiankang Petroleum Steel Tubes Co., Ltd., Anhui Tiankang Pharmaceutical Co., Ltd., Anhui Tiankang Medical Products Co., Ltd., etc. Based on good quality and service, the products are widely used in petrochemical industry, porer, building, construction material, metallurgy and paper-making industries, etc. The company has been awarded titles including “Trustable Enterprise in China”, “Good Tax Payer in Anhui”, “Class-AAA Credit Enterprise”, and “Hi-tech Enterprise in Anhui”. The "Tian Yi" trademark has been awarded the “famous trademark of China” in 2010.

The main products of Cable Company are power cables, signal cables, nuclear cables, ship cables, data cables, etc. Be the National Inspection-free Product, our cables occupy high share in the domestic market. In particular, K3 cables of IE Class have made their due contributions to our national nuclear power industry after entering the nuclear power market. Overhead wire conductors not only service for State Grid construction, but also be exported to Southeast Asia, Africa, the Middle East, Europe and America, etc. The fiber optic cable takes the lead in achieving the Network Permission of National Ministry of Information Industries, SARFT and the General Staff, and be used in these departments.

Five series of instrument products of our company, including temperature, pressure, level, flow, complete sets, occupy the domestic leading position both in quality and size. Thereinto, the self-developed supercritical thermocouples and thermo resistances are widely spread in the nuclear power industry after the certification of State authorities. In recent years, according to Anhui Provincial government instructions, we keep forging ahead, expand the production scale, improve product grade, and build Anhui Meter Production Base with all our strength.

Besides establishing and improving the base of domestic marketing network, our company makes actively use of import and export rights to develop the international market constantly and obtain good results.

“Only progress make excellence.” is our everlasting belief. When building the harmonious enterprise, we will always learn the market trend, search positively for the strategic economic alliances, and strive for invigorating our national industry.

架空导线
Overhead Conductor

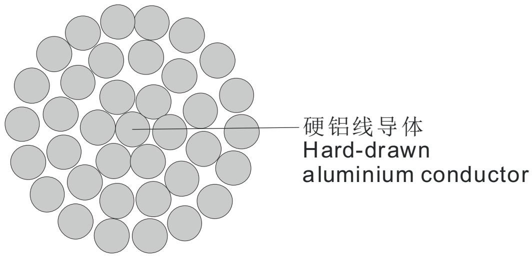
架空导线用裸绞线因其具有良好的电性能及机械性能、结构简单施工容易等特点而广泛地用于各种输配电线路。

产品可按照GB标准、IEC 标准、ASTM标准、BS标准及DIN 等标准及客户的特殊要求进行生产。

Because of its good electrical properties, mechanical properties, simple structure, and easy installation, bare overhead conductors are widely used in a variety of transmission and distribution electric lines.

Products can be manufactured according to GB standard, IEC standard, ASTM standard, BS standard and DIN and other standard and customers' specific requirements.

铝绞线
All Aluminium Conductors(AAC)



生产执行标准

GB/T 1179-2008
IEC 61089-1991
ASTM B231-81
BS 215 part1:1970
DIN 48201-5-1981

Executive standard

GB/T 1179-2008
IEC 61089-1991
ASTM B231-81
BS 215 part1:1970
DIN 48201-5-1981

使用范围及主要特征:

主要用于档距不大，受力较小的配电线路；连续使用温度可达75℃.

Usage scope and main characteristics

It is mainly used for electric distribution lines with little span, less stress. Temperature for continuous use is up to 75 ℃.

铝绞线All Aluminium Conductors(AAC) （GB/T 1179-2008 eqv. IEC 61089-1991）

规格号 Code	面积mm2 Area, mm2	单线根数 No. of wires	直径mm Diameter, mm		线性质量 (kg/km) Linear Weight	额定抗拉力 kN Rated Tensile Strength ，kN	直流电阻（20℃） Ω/km D.C Resistance at 20℃, Ω/km
			单线 Single wire	绞线 Strand			
10	10	7	1.35	4.05	27.4	1.95	2.8633
16	16	7	1.71	5.12	43.8	3.04	1.7896
25	25	7	2.13	6.40	68.4	4.50	1.1453
40	40	7	2.70	8.09	109.4	6.80	0.7158
63	63	7	3.39	10.2	172.3	10.39	0.4545
100	100	19	2.59	12.9	274.8	17.00	0.2877
125	125	19	2.89	14.5	343.6	21.25	0.2302
160	160	19	3.27	16.4	439.8	26.40	0.1798
200	200	19	3.66	18.3	549.7	32.00	0.1439
250	250	19	4.09	20.5	687.1	40.00	0.1151
315	315	37	3.29	23.0	867.9	51.97	0.0916
400	400	37	3.71	26.0	1102.0	64.00	0.0721
450	450	37	3.94	27.5	1239.8	72.00	0.0641
500	500	37	4.15	29.0	1377.6	80.00	0.0577
560	560	37	4.39	30.7	1542.9	89.60	0.0515
630	630	61	3.63	32.6	1738.3	100.80	0.0458
710	710	61	3.85	34.6	1959.1	113.60	0.0407
800	800	61	4.09	36.8	2207.4	128.00	0.0361
900	900	61	4.33	39.0	2483.3	144.00	0.0321
1000	1000	61	4.57	41.1	2759.2	160.00	0.0289
1120	1120	91	3.96	43.5	3093.5	176.20	0.0258
1250	1250	91	4.18	46.0	3452.6	200.00	0.0231
1400	1400	91	4.43	48.7	3866.9	224.00	0.0207
1500	1500	91	4.58	50.4	4143.1	240.00	0.0193

铝绞线All Aluminium Conductors(AAC) （DIN48201-5）

标称铝截面积 (mm2) Nominal aluminium area (mm2)	单线根数/直径 Number and diameter of wires(mm)	截面积(mm2) Cross-sectional area(mm2)	外径（mm） Overall Diameter (mm)	重量 Weight (kg/km)	计算破断力 Calculated breaking load		20℃时计算直流电阻 Calculated D.C. resistance at 20℃ (ohm/km)
					kgf	kN	
16	7/1.70	15.89	5.10	43	290	2.84	1.8017
25	7/2.10	24.25	6.30	66	425	4.17	1.1806
35	7/2.50	34.36	7.50	94	589	5.78	0.8332
50	7/3.00	49.48	9.00	135	810	7.94	0.5786
50	19/1.80	48.35	9.00	133	862	8.45	0.5950
70	19/2.10	65.81	10.50	181	1154	11.32	0.4371
195	19/2.50	93.27	12.50	256	1599	15.68	0.3084
120	19/2.80	117.0	14.00	322	1915	18.78	0.2459
150	37/2.25	147.1	15.75	406	2580	25.30	0.1960
185	37/2.50	181.6	17.50	500	3114	30.54	0.1588
240	61/2.25	242.5	20.25	670	4029	39.51	0.1192
300	61/2.50	299.4	22.50	827	4864	47.70	0.09651
400	61/2.89	400.1	26.01	1104	6206	60.86	0.7222
500	61/3.23	499.8	29.07	1379	7614	74.67	0.05782
625	61/2.96	626.2	32.56	1732	9713	95.25	0.04625
800	91/3.35	802.1	36.85	2218	12072	118.39	0.03610
1000	91/3.74	999.7	41.14	2767	14863	145.76	0.02897

铝绞线
All Aluminium Conductors(AAC) （ASTM B231-81）

名称 Code name	导体尺寸 Conductor Size (AWG/MCM)	单线根数和直径 Number and diameter of wires(mm)	截面积 Cross-sectional Area(mm2)	外径 Overall diameter (mm)	重量 Weight (kg/km)	计算破断力 Calculated breaking load		20℃时计算直流电阻Calculated D.C. resistance at 20℃(ohm/km)
						kgf	kN	
Peachbell	6	7/1.55	13.21	4.65	36	254	2.49	2.175
Rose	4	7/1.96	21.12	5.88	58	399	3.91	1.361
Iris	2	7/2.47	33.54	7.41	92	611	5.99	0.8568
Pansy	1	7/2.78	42.49	8.34	117	746	7.31	0.6763
Poppy	1/0	7/3.12	53.52	9.36	148	903	8.86	0.5369
Aster	2/0	7/3.50	67.35	10.50	186	1136	11.14	0.4267
Phlox	3/0	7/3.93	84.91	11.79	234	1375	13.48	0.3384
Oxlip	4/0	7/4.42	107.4	13.26	296	1740	17.06	0.2676
Sneezewort	250	7/4.80	126.7	14.40	349	2052	20.12	0.2268
Valerian	250	19/2.91	126.4	14.55	348	2107	20.66	0.2273
Daisy	266.8	7/4.96	135.3	14.88	373	2191	21.49	0.2124
Laurel	266.8	19/3.01	135.2	15.05	373	2254	22.10	0.2125
Peony	300	19/3.19	151.9	15.95	419	2482	24.34	0.1892
Tulip	336.4	19/3.38	170.5	16.90	470	2787	27.33	0.1685
Daffodil	350	19/3.45	177.6	17.25	490	2903	28.47	0.1618
Canna	397.5	19/3.68	202.1	18.40	557	3237	31.74	0.1422
Goldentuft	450	19/3.91	228.1	19.55	629	3580	35.11	0.1260
Cosmos	477	19/4.02	241.2	20.10	665	3784	37.11	0.1191
Syringa	477	37/2.88	241.0	20.16	664	3932	38.56	0.1192
Hyacinth	500	37/2.95	252.9	20.65	697	4126	40.46	0.1136
Zinnia	500	19/4.12	253.3	20.60	698	3975	38.98	0.1134
Dahlia	556.5	19/4.35	282.4	21.75	779	4431	43.45	0.1018
Mistletoe	556.5	37/3.11	181.1	21.77	775	4496	44.09	0.1022
Meadowsweet	600	37/3.23	303.2	22.61	836	4849	47.55	0.09477
Orchid	636	37/3.33	322.2	23.31	888	5154	50.54	0.08919
Heuchera	650	37/3.37	330.0	23.59	910	5279	51.77	0.08708
Verbena	700	37/3.49	354.0	24.43	976	5661	55.52	0.08117
Flag	700	61/2.72	354.5	24.48	977	5831	57.18	0.0810
Violet	715.5	37/3.53	362.1	24.71	998	5792	56.80	0.0794
Nasturtium	715.5	61/2.75	362.3	24.75	999	5961	58.46	0.0793
Petunia	750	37/3.62	380.8	25.34	1050	5969	58.54	0.0755
Cattail	750	61/2.82	381.0	25.38	1050	6147	60.28	0.0754
Arbutus	795	37/3.72	402.1	26.04	1109	6303	61.81	0.0715
Lilac	795	61/2.90	402.9	26.10	1111	6501	63.75	0.0713
Cockscomb	900	37/3.96	455.7	27.72	1256	9667	68.62	0.0631

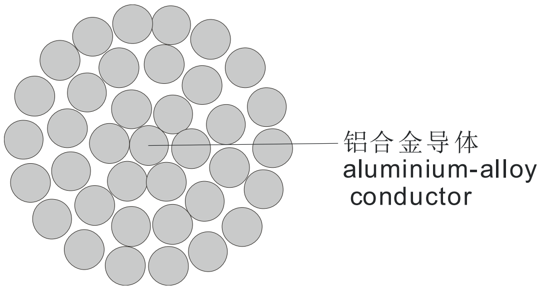
AAC ASTM B231-81

Snapdragon	900	61/3.09	457.4	27.81	1261	7236	70.96	0.0628
Magnolia	954	37/4.08	483.7	28.56	1334	7428	72.84	0.0594
Goldenrod	954	61/3.18	484.5	28.62	1336	4664	75.16	0.0593
Hawkweed	1000	37/4.18	507.7	29.26	1400	7796	76.45	0.0566
Camellia	1000	61/3.25	506.0	29.25	1395	8005	78.50	0.0568
Bluebell	1033.5	37/4.24	522.4	29.68	1440	8022	78.67	0.0550
Larkspur	1033.5	61/3.31	524.9	29.79	1447	8304	81.43	0.0547
Marigold	1113	61/3.43	563.6	30.87	1554	8917	87.45	0.051
Hawthom	1192.5	61/3.55	603.8	31.95	1665	9551	93.66	0.0476
Narcissus	1272	61/3.67	645.3	33.03	1779	10004	98.11	0.0445
Columbine	1351.5	61/3.78	684.5	34.02	1887	10612	104.1	0.0419
Carnation	1431	61/3.89	725.0	35.01	1999	11010	108.0	0.0396
Gladiolus	1510.5	61/4.00	766.5	36.00	2113	11641	114.2	0.0375
Coreopsis	1590	41/4.10	805.4	36.90	2221	12231	119.9	0.0357
Jessamine	1750	61/4.30	885.8	38.70	2442	13453	131.9	0.0324
Cowslip	2000	91/3.76	1010	41.36	2785	15490	151.9	0.0285
Sagebrush	2250	91/3.99	1138	43.89	3168	17088	167.6	0.0255
Lupine	2500	91/4.21	1267	46.31	3527	19024	186.6	0.0229
Bitterroot	2750	91/4.41	1390	48.51	3870	20875	204.7	0.0209
Trillium	3000	127/3.90	1517	50.70	4223	22784	223.4	0.0191
Bluebonnet	3500	127/4.22	1776	54.86	4993	26676	261.6	0.0165

铝绞线
All Aluminium Conductors(AAC) （BS 215 part 1:1970）

名称 Code name	导体尺寸 Conductor Size (AWG/MCM)	单线根数和直径Number and diameter of wires(mm)	截面积Cross-sectional Area(mm2)	外径 Overall diameter (mm)	重量 Weight (kg/km)	计算破断力 Calculated breaking load		20℃时计算直流电阻 Calculated D.C. resistance at 20℃(ohm/km)
						kgf	kN	
Midge	22	7/2.06	23..33	6.18	64	407	3.99	1.227
Aphis	25	3/3.35	26.44	7.22	74	420	4.12	1.105
Gnat	25	7/2.21	26.85	6.63	74	468	4.59	1.0643
Weevil	30	3/3.66	31.56	7.89	88	495	4.86	0.9357
Mosquito	35	7/2.59	36.88	7.77	101	614	6.03	0.7749
Ladybird	40	7/2.79	42.80	8.37	117	701	6.87	0.6678
Ant	50	7/3.10	52.83	9.30	145	844	8.28	0.5419
Fly	60	7/3.40	63.55	10.20	174	1010	9.90	0.4497
Bluebottle	70	7/3.66	73.65	10.98	202	1156	11.33	0.3880
Earwig	75	7/3.78	78.55	11.34	215	1217	11.94	0.3638
Grasshopper	80	7/3.91	84.05	11.73	230	1303	12.78	0.3400
Clegg	90	7/4.17	95.60	12.51	262	1482	14.53	0.2989
Wasp	100	7/4.39	106.0	13.17	290	1633	16.01	0.2697
Beetle	100	19/2.67	106.4	13.35	293	1773	17.39	0.2701
Bee	125	7/4.90	132.0	14.70	361	2033	19.94	0.2165
Cricket	150	7/5.36	157.9	16.08	432	2432	23.85	0.1813
Hornet	150	19/3.25	157.6	16.25	434	2519	24.70	0.1823
Caterpillar	175	19/3.53	185.9	17.65	511	2917	28.61	0.1546
Chafer	200	19/3.78	213.2	18.90	587	3305	32.41	0.1348
Spider	225	19/3.99	237.6	19.95	654	3683	36.12	0.1210
Cockroach	250	19/4.22	265.7	21.10	731	4118	40.39	0.1081
Butterfly	300	19/4.65	322.7	23.25	888	4970	48.74	0.0891
Moth	350	19/5.00	373.1	25.00	1027	5746	56.36	0.0770
Drone	350	37/3.58	372.4	25.06	1027	5844	57.31	0.0774
Locust	400	19/5.36	428.7	26.80	1180	6603	64.76	0.0671
Centipede	400	37/3.78	415.2	26.46	1145	6435	63.11	0.0695
Maybug	450	37/4.09	486.1	28.63	1340	7535	73.89	0.0593
Scorpion	500	37/4.27	529.8	29.89	1461	8160	80.03	0.0544
Cicada	600	37/4.65	628.3	32.55	1732	9678	94.90	0.0459
Tarantula	750	37/5.23	794.9	36.61	2192	12244	120.07	0.0363

铝合金绞线
All Aluminium Alloy Conductors(AAAC)



使用范围及主要特性

可代替部分铝绞线或钢芯铝绞线用于架空输配电线路上；连续使用温度可达90℃，耐热铝合金绞线的使用温度可达150℃及以上，载流能力高；防腐蚀性能好。

Usage scope and main characteristics

It can replace part of aluminum conductors or ACSR for overhead distribution lines. Temperature for continuous use is up to 90 ℃. Temperature of heat-resistant aluminum alloy strands is up to 150 ℃ and above. It has high current carrying capacity and good corrosion performance.

生产执行标准

GB/T1179-2008
IEC 61089-1991
ASTM B 399-81
BS3242-1970
DIN 48201-6-1981

Executive standard

GB/T1179-2008
IEC 61089-1991
ASTM B 399-81
BS3242-1970
DIN 48201-6-1981

JLHA2铝合金绞线
All Aluminium Alloy Conductors(AAAC) (GB/T 1179-2008 Eqv. IEC61089-1991)

标称截面 Nominal Area 铝合金 Aluminium Alloy	规格号 Code	面积 Area（mm2）	根数/单丝直径 No. of wires/ Diameter（Nos/ mm）	外径 Outer Diameter（mm）	重量 Weight（kg/km）	额定抗拉力 Rated Tensile Strength（KN）	20℃直流电阻 D.C Resistance at 20℃（Ω/km）
20	16	18.4	7/1.83	5.49	50.40	5.430	1.7896
30	25	28.8	7/2.29	6.86	78.70	8.490	1.1453
45	40	46	7/2.89	8.68	125.90	13.580	0.7158
75	63	72.5	7/3.63	10.90	198.30	21.390	0.4545
120	100	115	19/2.78	13.90	316.30	33.950	0.2877
145	125	144	19/3.10	15.50	395.40	42.440	0.2302
185	160	184	19/3.51	17.60	506.10	54.320	0.1798
230	200	230	19/3.93	19.60	632.700	67.910	0.1439
300	250	288	19/4.39	22.00	790.80	84.880	0.1151
360	315	363	37/3.53	24.70	998.90	106.950	0.0916
465	400	460	37/3.98	27.90	1268.40	135.810	0.0721
520	450	518	37/4.22	29.60	1426.90	152.790	0.0641
580	500	575	37/4.45	31.20	1585.50	169.760	0.0577
650	560	645	61/3.67	33.00	1778.40	190.140	0.0516
720	630	725	61/3.89	35.00	2000.70	213.900	0.0458
825	710	817	61/4.13	37.20	2254.80	241.070	0.0407
930	800	921	61/4.38	39.50	2540.60	271.620	0.0361
1050	900	1036	91/3.81	41.80	2861.10	305.580	0.0321
1150	1000	1151	91/4.01	44.10	3179.00	339.530	0.0289
1300	1120	1289	91/4.25	46.70	3560.50	380.270	0.0258
1450	1250	1439	91/4.49	49.40	3973.70	424.410	0.0231

JLHA1铝合金绞线
All Aluminium Alloy Conductors(AAAC) (GB/T 1179-2008 Eqv. IEC61089-1991)

标称截面 Nominal Area 铝合金 Aluminium Alloy	规格号 Code	面积 Area （mm2）	根数/单丝直径 No. of wires/ Diameter（Nos/ mm）	外径 Outer Diameter （mm）	重量 Weight （kg/km）	额定抗拉力 Rated Tensile Strength （KN）	20℃直流电阻 D.C Resistance at 20℃（Ω/ km）
20	16	18.6	7/1.84	5.52	50.80	6.04	1.7896
30	25	29	7/2.30	6.90	79.50	9.44	1.1453
45	40	46.5	7/2.91	8.72	127.10	15.10	0.7158
75	63	73.2	7/3.65	10.90	200.20	23.06	0.4545
120	100	116	19/2.79	14.00	319.30	37.76	0.2877
145	125	145	19/3.12	15.60	399.20	47.20	0.2302
185	160	186	19/3.53	17.60	511.00	58.56	0.1798
230	200	232	19/3.95	19.70	638.70	73.20	0.1439
300	250	290	19/4.41	22.10	798.40	91.50	0.1151
360	315	366	37/3.55	24.80	1008.40	115.30	0.0916
465	400	465	37/4.00	28.00	1280.50	146.40	0.0721
520	450	523	37/4.24	29.70	1440.50	164.70	0.0641
580	500	581	37/4.47	31.30	1600.60	183.00	0.0577
650	560	651	61/3.69	33.20	1795.30	204.96	0.0516
720	630	732	61/3.91	35.20	2019.80	230.58	0.0458
825	710	825	61/4.15	37.30	2276.20	259.86	0.0407
930	800	930	61/4.40	39.60	2564.80	292.80	0.0361
1050	900	1046	91/3.83	42.10	2888.30	329.40	0.0321
1150	1000	1162	91/1.03	44.40	3209.30	366.00	0.0289
1300	1120	1301	91/4.27	46.90	3594.40	409.90	0.0258

国内常用规格 Domestic Common Specifications
JLHA2铝合金绞线
All Aluminium Alloy Conductors(AAAC) (GB/T 1179-2008 Eqv. IEC61089-1991)

标称截面 Nominal Area 铝合金 Aluminium Alloy	面积 Area （mm2）	根数/单丝直径 No. of wires/ Diameter （Nos/mm）	外径Outer Diameter （mm）	重量Weight （kg/km）	额定抗拉力 Rated Tensile Strength（KN）	20℃直流电阻 D.C Resistance at 20℃（Ω/ km）
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	1102.1	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铝合金绞线
All Aluminium Alloy Conductors(AAAC) (GB/T 1179-2008 Eqv. IEC61089-1991)

标称截面 Nominal Area 铝合金 Aluminium lloy	面积 Area （mm2）	根数/单丝直径 No. of wires/ Diameter（Nos/ mm）	外径Outer Diameter （mm）	重量 Weight （kg/km）	额定抗拉力 Rated Tensile Strength（KN）	20℃直流电阻 D.C Resistance at 20℃ （Ω/km）
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	1102.1	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

铝合金绞线
All Aluminium Alloy Conductors(AAAC) (DIN 48201-6)

Nominal Aluminium Area(mm2) 标称铝截面积(mm2)	Number and diameter of wire 单线根数/直径(mm)	Cross-sectional Area 截面积 (mm2)	Overall diameter外径 (mm)	Weight 重量 (kg/km)	Calculated Breaking load 计算破断力		Calculated D.C. resistance At 20℃ 20℃直流电阻 (ohm/km)
					kgf	kN	
16	7/1.70	15.89	5.10	43	453	4.44	2.0908
25	7/2.10	24.25	6.30	66	690	6.77	1.3700
35	7/2.50	34.36	7.50	94	979	9.60	0.9669
50	7/3.00	49.48	9.00	135	1406	13.82	0.6713
50	19/1.80	48.35	9.00	133	1377	13.50	0.6903
70	19/2.10	65.81	10.50	181	1874	18.38	0.5072
95	19/2.50	93.27	12.50	256	2666	26.05	0.3579
120	19/2.80	117.0	14.00	322	3332	32.68	0.2853
150	19/2.80	147.1	15.75	405	4190	41.09	0.2275
185	37/2.25	181.6	17.50	500	5172	50.73	0.1842
240	37/2.50	242.5	20.25	669	6906	67.74	0.1383
300	61/2.25	299.4	22.50	826	8527	83.63	0.1120
400	61/2.50	400.1	26.01	1104	11390	111.7	0.08381
500	61/2.89	499.8	29.07	1379	14235	139.6	0.06709
625	61/3.23	626.2	32.56	1733	17835	174.9	0.05367
800	91/3.35	802.1	36.85	2219	22852	224.0	0.04190
1000	91/3.74	999.7	41.14	2766	28470	279.2	0.03362

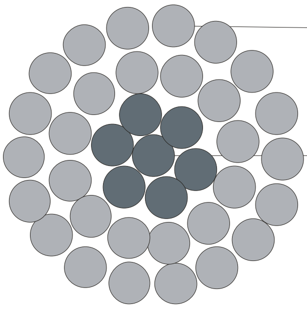
铝合金绞线
All Aluminium Alloy Conductors(AAAC)(ASTM B 399-81)

Conductor size 导体大小 (mcm)	Number and diameter of wire单线根数/直径 (mm)	Cross-sectional Area 截面积 (mm2)	Overall diameter外径 (mm)	Weight重量 (kg/km)	Calculated Breaking load 计算破断力		Calculated D.C. resistance At 20℃ 20℃直流电阻 (ohm/km)
					kgf	kN	
66.36	7/2.47	33.54	7.41	92	1087	10.66	0.9987
77.47	7/2.67	39.19	8.01	108	1270	12.45	0.8547
105.60	7/3.12	53.52	9.36	148	1734	17.00	0.6259
123.30	7/3.37	62.44	10.01	172	2023	19.84	0.5364
133.10	7/3.50	67.35	10.50	186	2091	20.51	0.4973
155.40	7/3.78	78.55	11.34	217	2439	23.92	0.4264
167.80	7/3.93	84.91	11.79	234	2636	25.85	0.3945
195.70	7/4.25	99.30	12.75	274	3083	30.23	0.3373
211.60	7/4.42	107.4	13.26	296	3335	32.71	0.3119
246.90	7/4.77	125.1	14.31	345	3884	38.09	0.2678
394.50	19/3.66	199.9	18.30	551	6012	58.96	0.1676
400.00	19/3.69	203.2	18.45	560	6112	59.94	0.1648
450.00	19/3.91	228.1	19.55	629	6861	67.28	0.1468
465.40	19/3.98	236.4	19.90	652	7110	69.73	0.1417
500.00	19/4.12	253.3	20.60	698	9619	74.72	0.1322
550.00	37/3.10	279.3	21.70	770	8577	84.11	0.1199
559.00	19/4.36	283.7	21.80	782	8533	83.64	0.1181
600.00	37/3.23	303.2	22.61	836	9311	91.31	0.1105
650.00	37/3.37	330.0	23.59	910	10134	99.38	0.1015
652.40	19/4.71	331.0	23.55	913	9956	97.64	0.1012
700.00	37/3.49	354.0	24.43	976	10418	102.2	0.09462
740.00	37/3.59	374.5	25.13	1033	11022	108.1	0.08944
750.00	37/3.62	380.8	25.34	1050	11207	109.9	0.08796
800.00	37/3.73	404.3	26.11	1115	11899	116.7	0.08285
900.00	37/3.96	455.7	27.72	1256	13411	131.5	0.07350
927.20	37/4.02	469.6	28.14	1295	13821	135.5	0.07133
1000.00	37/4.18	507.7	29.26	1400	14942	146.5	0.06598

铝合金绞线
All Aluminium Alloy Conductors(AAAC)(BS3242-1970)

Code Name 代码	Nominal Aluminium Area 标称铝截面积 (mm2)	Number and diameter of wire电线根数/直径 (mm)	Cross-sectional area截面积 (mm2)	Overall diameter 外径 (mm)	Weight 重量 (kg/km)	Calculated Breaking load 计算破断力		Calculated D.C. resistance At 20℃ 20℃直流电阻 (ohm/km)
						kgf	kN	
-	10	7/1.47	11.8	4.41	32	340	3.33	2.771
Box	15	7/1.85	18.82	5.55	51	537	5.27	1.749
Acacia	20	7/2.08	23.79	6.24	65	680	6.67	1.384
Almond	25	7/2.34	30.10	7.02	82	861	8.44	1.093
Cedar	30	7/2.54	35.47	7.62	97	1014	9.94	0.9281
-	35	7/2.77	42.18	8.31	115	1205	11.82	0.7804
Fir	40	7/2.95	47.84	8.85	131	1367	13.41	0.6861
Hazel	50	7/3.30	59.87	9.90	164	1711	16.78	0.5498
Pine	60	7/3.61	71.65	10.83	196	2408	20.08	0.4594
-	70	7/3.91	84.05	11.73	230	2402	23.56	0.3917
Willow	75	7/4.04	89.73	12.12	245	2565	25.15	0.3669
-	80	7/4.19	96.52	12.57	264	2758	27.05	0.3411
-	90	7/4.45	108.9	13.35	298	3112	30.52	0.3023
Oak	100	7/4.65	118.9	13.95	325	3398	33.32	0.2769
-	100	19/2.82	118.7	14.1	326	3393	33.27	0.2787
Mulberry	125	19/3.18	150.9	15.9	415	4312	42.29	0.2192
Ash	150	19/3.48	180.7	17.4	497	5164	50.64	0.1831
Elm	175	19/3.76	211.0	18.8	580	6030	59.13	0.1568
Poplar	200	37/2.87	239.4	20.09	659	6841	67.09	0.1385
-	225	37/3.05	270.3	21.35	744	7724	75.75	0.1227
Sycamore	250	37/3.23	303.2	22.61	835	8664	84.97	0.1093
Upas	300	37/3.53	362.1	24.71	997	10350	101.5	0.09156
Walnut	350	37/3.81	421.8	26.67	1162	12053	118.2	0.07860
Yew	400	37/4.06	479.0	28.43	1319	13685	134.2	0.06921
Totara	425	37/4.14	498.1	28.98	1372	14233	139.6	0.06656
Araucaria	800	61/4.14	821.1	37.26	2266	23450	230.0	0.04047

钢芯铝绞线
Aluminium Conductors Steel Reinforced (ACSR)



使用范围及主要特性

适用作大档距架空输配电线路或线路的架空地线，连续使用温度可达75℃.

生产执行标准

GB/T 1179-2008
GB/T 1179-1999
GB/T 1179-1983
IEC 61089-1991
DIN 48204-1980
ASTM B232-81
BS 215 PART 2:1970

Usage scope and main characteristics

It is applied for large span overhead transmission and distribution lines or overhead ground wire of lines. Temperature for continuous use can be up to 75 ℃.

Executive standard

GB/T 1179-2008
GB/T 1179-1999
GB/T 1179-1983
IEC 61089-1991
DIN 48204-1980
ASTM B232-81
BS 215 PART 2:1970

钢芯铝绞线(LGJ)　GB/T1179-2008

标称截面 cross sectional area 铝/钢 Aluminium/steel	钢比 Steel Ratio/%	规格号 Code	面积 Area mm2 铝/钢 Aluminium/steel	根数/单丝直径 No. of wires/ Diameter（Nos/mm） 铝 Aluminium	钢 Steel	外径 Outer Diameter mm 钢芯 Steel Core	绞线 stranded wire	重量 Weight kg/km	额定抗拉力 Rated Tensile Strength（KN） JL/G1A	JL/G1B	JL/G2A	JL/G2B	JL/G3A	20℃直流电阻 D.C Resistance at 20℃ Ω/km
16/3	17	16	16/2.67	6/1.84	1/1.84	1.84	5.53	64.60	6.080	5.89	6.45	6.27	6.83	1.7934
25/4	17	25	25/4.17	6/2.30	1/2.30	2.30	6.91	100.90	9.130	8.83	9.71	9.42	10.25	1.1478
40/6	17	40	40/6.67	6/2.91	1/2.91	2.91	8.74	161.50	14.400	13.93	15.33	14.87	16.20	0.7174
65/10	17	63	63/10.5	6/3.66	1/3.66	3.66	11.00	254.40	21.630	20.58	22.37	21.63	24.15	0.4555
100/17	17	100	100/16.7	6/4.61	1/4.61	4.61	13.80	403.80	34.330	32.67	35.50	34.33	38.33	0.2869
125/7	6	125	125/6.94	18/2.97	1/2.97	2.97	14.90	397.90	29.170	28.68	30.14	29.65	31.04	0.2304
125/20	16	125	125/20.4	26/2.47	7/1.92	5.77	15.70	503.90	45.690	44.27	48.54	47.12	51.39	0.231
160/9	6	160	160/8.89	18/3.36	1/3.36	3.36	16.80	509.30	36.180	35.29	37.42	36.80	38.67	0.18
160/26	16	160	160/26.1	26/2.80	7/2.18	6.53	17.70	644.90	57.690	55.86	61.34	59.51	64.99	0.1805
200/11	6	200	200/11.1	18/3.76	1/3.76	3.76	18.80	636.70	44.220	43.11	45.00	44.22	46.89	0.144
200/32	16	200	200/32.6	26/3.13	7/2.43	7.30	19.80	806.20	70.130	67.85	74.69	72.41	78.93	0.1444
250/25	10	250	250/24.6	22/3.80	7/2.11	6.34	21.60	880.60	68.720	67.01	72.16	70.44	75.60	0.1154
250/40	16	250	250/40.7	26/3.50	7/2.72	8.16	22.20	1007.70	87.670	84.82	93.37	90.52	98.66	0.1155
315/22	7	315	315/21.8	45/2.99	7/1.99	5.97	23.90	1039.60	79.030	77.51	82.08	80.55	85.13	0.0917
315/50	16	315	315/51.3	26/3.93	7/3.05	9.16	24.90	1269.70	106.830	101.70	114.02	110.43	121.20	0.0917
400/28	7	400	400/27.7	45/3.36	7/2.24	6.73	26.90	1320.10	98.360	96.42	102.23	100.29	106.10	0.0722
400/50	13	400	400/51.9	54/3.07	7/3.07	9.21	27.60	1510.30	123.040	117.85	130.30	126.67	137.56	0.0723
450/30	7	450	450/31.1	45/3.57	7/2.38	7.14	28.50	1485.20	107.470	105.29	111.82	109.64	115.87	0.0642
450/60	13	450	450/58.3	54/3.26	7/3.26	9.77	29.30	1699.10	138.420	132.58	146.58	142.50	154.75	0.0643
500/35	7	500	500/34.6	45/3.76	7/2.51	7.52	30.10	1650.20	119.410	116.99	124.25	121.83	128.74	0.0578
500/65	13	500	500/64.8	54/3.43	7/3.43	10.30	30.90	1887.90	153.800	147.31	162.87	158.33	171.94	0.0578
560/40	7	560	560/38.7	45/3.98	7/2.65	7.96	31.80	1848.20	133.740	131.03	139.16	136.45	144.19	0.0516
560/70	13	560	560/70.9	54/3.63	19/2.18	10.90	32.70	2103.40	172.590	167.63	182.52	177.56	192.19	0.0516
630/45	7	630	630/43.6	45/4.22	7/2.81	8.44	33.80	2079.20	150.450	147.40	156.55	153.50	162.21	0.0459
630/80	13	630	630/79.8	54/3.85	19/2.31	11.60	34.70	2366.30	191.770	186.19	202.94	197.36	213.32	0.0459
710/50	7	710	710/49.1	45/4.48	7/2.99	8.96	35.90	2343.20	169.560	166.12	176.43	172.99	282.81	0.0407
710/90	13	710	710/89.9	54/4.09	19/2.45	12.30	36.80	2666.80	216.120	209.83	228.71	222.42	240.41	0.0407
800/35	4	800	800/34.6	72/3.76	7/2.51	7.52	37.60	2480.20	167.410	164.99	172.25	169.83	176.74	0.0361
800/65	8	800	800/66.7	84/3.48	7/3.48	10.40	38.30	2732.70	205.330	198.67	214.67	210.00	224.00	0.0362
800/100	13	800	800/101	54/4.34	19/2.61	13.00	39.10	3004.90	243.520	236.43	257.71	250.61	270.88	0.0362
900/40	4	900	900/38.9	72/3.99	7/2.66	7.98	39.90	2790.20	188.330	185.61	193.78	191.06	198.83	0.0321
900/75	8	900	900/75.0	84/3.69	7/3.69	11.10	40.60	3074.20	226.500	219.00	231.75	226.50	244.50	0.0322
1000/45	4	1000	1000/43.2	72/4.21	7/2.80	8.41	42.10	3100.30	209.260	206.23	215.31	212.28	220.93	0.0289
1120/50	4	1120	1120/47.3	72/4.45	19/1.78	8.90	44.50	3464.90	234.530	231.22	241.15	237.84	247.77	0.0258
1120/90	8	1120	1120/91.2	84/4.12	19/2.47	12.40	45.30	3811.50	283.170	276.78	295.14	289.55	307.79	0.0258
1250/50	4	1250	1250/52.8	72/4.70	19/1.88	9.40	47.00	3867.10	261.750	258.06	269.14	265.44	276.53	0.0231
1250/100	8	1250	1250/102	84/4.35	19/2.61	13.10	47.90	4253.90	316.040	308.91	330.29	323.16	343.52	0.0232

注：表中性能同样适用于JFL/G1AF,JL/G2AF,JL/G3AF防腐型钢芯铝绞线，但单位长度质量应按附录C的方法计算。
Note: The parameter listed in the table is also suitable for JFL/G1AF,JL/G2AF,JL/G3AF type corrosion-proof aluminum-steel conductor. But the unit length and weight shall be calculated in accordance with attachment C.

钢芯铝绞线(LGJ)　GB/T1179-1999

规格号 Code	面积 Area mm2	根数/单丝直径 No. of wires/ Diameter（Nos/mm）		外径 Outer Diameter,mm		重量 Weight kg/km	额定抗拉力（KN） Rated Tensile Strength（KN）					20℃直流电阻 D.C Resistance at 20℃ Ω/km
	铝/钢 Aluminium/ steel	铝 Al	钢 Steel	钢芯 Steel Core	绞线 strand wire		JL/G1A	JL/G1B	JL/G2A	JL/G2B	JL/G3A	
16	16/2.67	6/1.84	1/1.84	1.84	5.53	64.60	6.080	5.89	6.45	6.27	6.83	1.7934
25	25/4.17	6/2.30	1/2.30	2.30	6.91	100.90	9.130	8.83	9.71	9.42	10.25	1.1478
40	40/6.67	6/2.91	1/2.91	2.91	8.74	161.50	14.400	13.93	15.33	14.87	16.20	0.7174
63	63/10.5	6/3.66	1/3.66	3.66	11.00	254.40	21.630	20.58	22.37	21.63	24.15	0.4555
100	100/16.7	6/4.61	1/4.61	4.61	13.80	403.80	34.330	32.67	35.50	34.33	38.33	0.2869
125	125/6.94	18/2.97	1/2.97	2.97	14.90	397.90	29.170	28.68	30.14	29.65	31.04	0.2304
125	125/20.4	26/2.47	7/1.92	5.77	15.70	503.90	45.690	11.27	48.54	47.12	51.39	0.231
160	160/8.89	18/3.66	1/3.36	3.36	16.80	509.30	36.180	35.29	37.42	36.80	38.67	0.18
160	160/26.1	26/2.80	7/2.18	6.53	17.70	644.90	57.690	55.86	61.34	59.51	64.99	0.1805
200	200/11.1	18/3.76	1/3.76	3.76	18.80	636.70	44.220	43.11	45.00	44.22	46.89	0.144
200	200/32.6	26/3.13	7/2.43	7.30	19.80	806.20	70.130	67.85	74.69	72.41	78.93	0.1444
250	250/24.6	22/3.80	7/2.11	6.34	21.60	880.60	68.720	67.01	72.16	70.44	75.60	0.1154
250	250/40.7	26/3.50	7/2.72	8.16	22.20	1007.70	87.670	84.82	93.37	90.52	98.66	0.1155
315	315/21.8	45/2.99	7/1.99	5.97	23.90	1039.60	79.030	77.51	82.08	80.55	85.13	0.0917
315	315/51.3	26/3.93	7/3.05	9.16	24.90	1269.70	106.830	101.70	114.02	110.43	121.20	0.0917
400	400/27.7	45/3.36	7/2.24	6.73	26.90	1320.10	98.360	96.42	102.23	100.29	106.10	0.0722
400	400/51.9	54/3.07	7/3.07	9.21	27.60	1510.30	123.040	117.85	130.30	126.67	137.56	0.0723
450	450/31.1	45/3.57	7/2.38	7.14	28.50	1485.20	107.470	105.29	111.82	109.64	115.87	0.0642
450	450/58.3	54/3.26	7/3.26	9.77	29.30	1699.10	138.420	132.58	146.58	142.50	154.75	0.0643
500	500/34.6	45/3.76	7/2.51	7.52	30.10	1650.20	119.410	116.99	124.25	121.83	128.74	0.0578
500	500/64.8	54/3.43	7/3.43	10.30	30.90	1887.90	153.800	147.31	162.87	158.33	171.94	0.0578
560	560/38.7	45/3.98	7/2.65	7.96	31.80	1848.20	133.740	131.03	139.16	136.45	144.19	0.0516
560	560/70.9	54/3.63	19/2.18	10.90	32.70	2103.40	172.590	167.63	182.52	177.56	192.19	0.0516
630	630/43.6	45/4.22	7/2.81	8.44	33.80	2079.20	150.450	147.40	156.55	153.50	162.21	0.0459
630	630/79.8	54/3.85	19/2.31	11.60	34.70	2366.30	191.770	186.19	202.94	197.36	213.32	0.0459
710	710/49.1	45/4.48	7/2.99	8.96	35.90	2343.20	169.560	166.12	176.43	172.99	182.81	0.0407
710	710/89.9	54/4.09	19/2.45	12.30	36.80	2666.80	216.120	209.83	228.71	222.42	240.41	0.0407
800	800/34.6	72/3.76	7/2.51	7.52	37.60	2480.20	167.410	164.99	172.25	169.83	176.74	0.0361
800	800/66.7	84/3.48	7/3.48	10.40	38.30	2732.70	205.330	198.67	214.67	210.00	224.00	0.0362
800	800/101	54/4.34	19/2.61	13.00	39.10	3004.90	243.520	236.43	257.71	250.61	270.88	0.0362
900	900/38.9	72/3.99	7/2.66	7.98	39.90	2790.20	188.330	185.61	193.78	191.06	198.83	0.0321
900	900/75.0	84/3.69	7/3.69	11.10	40.60	3074.20	226.500	219.00	231.75	226.50	244.50	0.0322
1000	1000/43.2	72/4.21	7/2.80	8.41	42.10	3100.30	209.260	206.23	215.31	212.28	220.93	0.0289
1120	1120/47.3	72/4.45	7/1.78	8.90	44.50	3464.90	234.530	231.22	241.15	237.84	247.77	0.0258
1120	1120/91.2	84/4.12	19/2.47	12.40	45.30	3811.50	283.170	276.78	295.14	289.55	307.79	0.0258
1250	1250/52.8	72/4.70	19/1.88	9.40	47.00	3867.10	261.750	258.06	269.14	265.44	276.53	0.0231
1250	1250/102	84/4.35	19/2.61	13.10	47.90	4253.90	316.040	308.91	330.29	323.16	343.52	0.0232

注：表中性能同样适用于JFL/G1A,JFL/G2A,JFL/G3A防腐型钢芯铝绞线，但单位长度质量应按附录C的方法计算。

Note: The parameter listed in the table is also suitable for JFL/G1A type, JFL/G2A type, & JFL/G3A type corrosion-proof aluminum-steel conductor. But the unit length and weight shall be calculated in accordance with attachment C.

钢芯铝绞线(LGJ) GB/T 1179-1983

规格号 Code	面积Area（mm2）	根数/单丝直径 No. of wires/ Diameter（Nos/mm）		外径 Outer Diamete（mm）	重量 Weight（kg/km）	额定抗拉力（KN） Rated Tensile Strength（KN）	20℃直流电阻 D.C Resistance at 20℃（Ω/km）
	铝/钢 Aluminium/ steel	铝 Aluminium	钢 Steel	绞线 stranded wire			
10/2	10.60/1.77	6/1.50	1/1.50	4.50	42.90	4.120	2.706
16/3	16.13/2.69	6/1.85	1/1.85	5.55	65.20	6.130	1.779
25/4	25.36/4.23	6/2.32	1/2.32	6.96	102.60	9.290	1.131
35/6	34.86/5.81	6/2.72	1/2.72	8.16	141.00	12.630	0.823
50/8	48.25/8.04	6/3.20	1/3.20	9.60	195.10	16.870	0.5946
50/30	50.73/29.59	12/2.32	7/2.32	11.60	372.00	42.620	0.5692
70/10	68.05/11.34	6/2.32	1/3.80	11.40	275.20	23.390	0.4217
70/40	69.73/40.67	6/3.80	7/2.72	13.60	511.30	58.300	0.4141
95/15	94.39/15.33	12/2.72	7/1.67	13.61	380.80	35.000	0.3058
95/20	95.14/18.82	26/2.15	7/1.85	13.87	408.90	37.200	0.3019
95/55	96.51/56.30	7/4.16	7/3.20	16.00	707.70	78.110	0.2992
120/7	118.89/6.61	12/3.20	1/2.90	14.50	379.00	27.570	0.2422
120/20	115.67/18.82	18/2.90	7/1.85	15.07	466.80	41.000	0.2496
120/25	122.48/24.25	26/2.38	7/2.10	15.74	526.60	47.880	0.2345
120/70	122.15/71.25	12/3.60	7/3.60	18.00	895.60	98.370	0.2364
150/8	144.76/8.04	18/3.20	1/3.20	16.00	461.40	32.860	0.1989
150/20	145.68/18.82	24/2.78	7/1.85	16.67	549.40	46.630	0.198
150/25	148.86/24.25	26/2.70	7/2.10	17.10	601.00	54.110	0.1939
150/35	147.26/34.36	30/2.5	7/2.50	17.50	676.20	65.020	0.1962
185/10	183.22/10.18	18/3.60	1/3.60	18.00	584.00	40.880	0.1572
185/25	187.04/24.25	24/3.15	7/2.10	18.90	706.10	59.420	0.1542
185/30	181.34/29.59	26/2.98	7/2.32	18.88	732.60	64.320	0.1592
185/45	184.73/43.10	30/2.80	7/2.80	19.60	848.20	80.190	0.1564
210/10	204.14/11.34	18/3.80	1/3.80	19.00	650.70	45.140	0.1411
210/25	209.02/27.10	24/3.33	7/2.22	19.98	789.10	65.990	0.138
210/35	211.73/34.36	26/3.22	7/2.50	20.38	853.90	74.250	0.1363
210/50	209.24/48.82	30/2.98	7/2.98	20.86	960.80	90.830	0.1381
240/30	244.29/31.67	24/3.60	7/2.40	21.60	922.20	75.620	0.1181
240/40	238.85/38.90	26/3.42	7/2.66	21.66	964.30	83.370	0.1209
240/55	241.27/56.30	30/3.20	7/3.20	22.40	1108.00	102.100	0.1198
300/15	296.88/15.33	42/3.00	7/1.67	23.01	939.80	68.060	0.09724
300/20	303.42/20.91	45/2.93	7/1.95	23.43	1002.00	75.680	0.0952
300/25	306.21/27.10	48/2.85	7/2.22	23.76	1058.00	83.410	0.09433
300/40	300.09/38.90	24/3.99	7/2.66	23.94	1133.00	92.220	0.09614
300/50	299.54/48.82	26/3.83	7/2.98	24.26	1210.00	103.400	0.09636
300/70	305.36/71.25	30/3.60	7/3.60	25.20	1402.00	128.000	0.09463
400/20	406.4/20.91	42/3.51	7/1.95	26.91	1286.00	88.850	0.07104
400/25	391.91/27.10	45/3.33	7/2.22	26.64	1295.00	95.940	0.0737
400/35	390.88/34.36	48/3.22	7/2.50	26.82	1349.00	103.900	0.07389
400/50	399.73/51.82	54/3.07	7/3.07	27.63	1511.00	123.400	0.07232
400/65	398.94/65.06	26/4.42	7/3.44	28.00	1611.00	135.200	0.07236
400/95	407.75/93.27	30/4.16	19/2.50	29.14	1860.00	171.300	0.07087
500/35	497.01/34.36	45/3.75	7/2.50	30.00	1642.00	119.500	0.05812
500/45	488.58/43.10	48/3.60	7/2.80	30.00	1688.00	128.100	0.05912
500/65	501.88/65.06	54/3.44	7/3.44	30.96	1897.00	154.000	0.0576
630/45	623.45/43.10	45/4.20	7/2.80	33.60	2060.00	148.700	0.04633
630/55	639.92/56.30	48/4.12	7/3.20	34.32	2209.00	164.400	0.04514
630/80	635.19/80.32	54/3.87	19/2.32	34.82	2388.00	192.900	0.04551
800/55	814.30/56.30	45/4.80	7/3.20	38.40	2690.00	191.500	0.03547
800/70	808.15/71.25	48/4.63	7/3.60	38.58	2791.00	207.000	0.03574
800/100	795.17/100.88	54/4.33	7/2.60	38.98	2991.00	241.100	0.03635

钢芯铝绞线
Aluminium Conductors Steel Reinforced (ACSR) (DIN 48204-1980)

Nominal Cross Sections 标称截面积 (mm2)	Construction Number and diameter of wires 根数/单丝直径 Al 铝 (mm)	Steel 钢 (mm)	Cross-section area 截面积 Al 铝 (mm2)	Steel钢 (mm2)	Total 总计 (mm2)	Overall Diameter 外径 (mm)	Weight 重量 Al 铝 (kg/km)	Steel 钢 (kg/km)	Total 总计 (kg/km)	Calculated Breaking load 计算破断力 kgf	kN	Calculated D.C. Resistance at 20℃ 20℃直流电阻 (ohm/km)
16/2.5	6/1.8	1/1.8	15.27	2.25	17.81	5.40	42	20	62	592	5.81	1.879
25/4	6/2.25	1/2.25	23.88	3.98	27.84	6.75	65	31	96	920	9.02	1.203
35/6	6/2.7	1/2.7	34.35	5.73	40.08	8.10	94	45	139	1295	12.70	0.8353
44/32	14/2.0	7/2.4	43.98	31.67	75.65	11.20	122	248	370	4636	45.46	0.6573
50/8	6/3.2	1/3.2	48.25	8.04	56.29	9.60	132	63	195	1752	17.18	0.5946
50/30	12/2.33	7/2.33	51.17	29.85	81.02	11.65	141	234	375	4515	44.28	0.5644
70/12	26/1.85	7/1.44	69.86	11.40	81.29	11.72	193	89	282	2683	26.31	0.4130
95/15	26/2.15	7/1.67	94.39	15.33	109.72	13.61	260	120	380	3586	35.17	0.3058
95/55	12/3.2	7/3.2	96.51	56.30	152.81	16.00	266	441	707	8178	80.20	0.2992
105/75	14/3.1	19/2.25	105.67	75.55	181.22	17.45	292	594	886	10879	106.69	0.2736
120/20	26/2.44	7/1.9	121.57	19.85	141.42	15.46	335	156	491	4583	44.94	0.2374
120/70	12/3.6	7/3.6	122.15	71.25	193.40	18.00	337	558	895	10009	98.16	0.2364
125/30	30/2.33	7/2.33	127.92	29.85	157.77	16.31	353	234	587	5900	57.86	0.2259
150/25	26/2.7	7/2.1	148.86	24.25	173.11	17.10	411	190	601	5544	54..37	0.1939
170/40	30/2.7	7/2.7	171.77	40.08	211.85	18.90	474	314	788	7853	77.01	0.1682
185/30.	26/3.0	7/2.33	183.78	29.85	213.63	18.99	507	234	741	6759	66.28	0.1571
210/35	26/3.2	7/2.49	209.10	34.09	243.19	20.27	577	267	844	7642	74.94	0.1380
210/50	30/3.0	7/3.0	212.06	49.48	261.54	21.00	585	388	973	9407	92.25	0.1363
230/30	24/3.5	7/2.33	230.90	29.85	260.75	20.99	636	234	870	7453	73.09	0.1249
240/40	26/3.45	7/2.68	243.05	39.49	282.54	21.84	670	309	979	8816	86.46	0.1188
265/35	24/3.74	7/2.49	263.66	34.09	297.75	22.43	727	267	994	8457	82.94	0.1094
300/50	26/3.86	7/3.0	304.26	49.48	353.74	24.44	839	388	1227	10716	105.09	0.09487
305/40	54/2.68	7/2.68	304.62	39.49	344.11	24.12	841	309	1150	10126	99.30	0.09490
340/30	48/3.0	7/2.33	339.29	29.85	369.14	24.99	936	234	1170	9438	92.56	0.08513
380/50	54/3.0	7/3.0	381.70	49.48	431.18	27.00	1054	388	1442	12329	120.91	0.07573
385/35	48/3.2	7/2.49	386.04	34.09	420.13	26.67	1065	267	1332	10637	104.31	0.07482
435/55	54/3.2	7/3.2	434.29	56.30	490.59	28.80	1199	441	1640	13896	136.27	0.06656
450/40	48/3.45	7/2.68	448.71	39.49	488.20	28.74	1238	309	1547	12256	120.19	0.06437
490/65	54/3.4	7/3.4	490.28	63.55	553.83	30.60	1354	498	1852	15586	152.85	0.05896
495/35	45/3.74	7/2.49	494.36	34.09	528.48	29.91	1364	267	1631	12268	120.31	0.05843
510/45	48/3.68	7/2.87	510.54	45.28	555.82	30.69	1409	355	1764	13698	134.33	0.05657
550/70	54/3.6	7/3.6	549.65	71.25	620.90	32.40	1518	558	2076	17072	167.42	0.05259
560/50	48/3.86	7/3.0	561.70	49.48	611.18	32.16	1550	388	1938	14916	146.28	0.05142
570/40	45/4.02	7/2.68	571.16	39.49	610.65	32.16	1576	309	1885	14070	137.98	0.05057
650/45	45/4.3	7/2.87	653.49	45.28	698.77	34.41	1803	355	2155	15859	155.52	0.04420
680/85	54/4.0	19/2.4	678.58	85.95	764.53	36.00	1874	676	2550	21413	209.99	0.04260
1045/45	72/4.3	7/2.87	1045.58	45.28	1090.86	43.01	2889	355	3244	22246	217.87	0.02766

ACSR钢芯铝绞线
Aluminum Conductor Steel Reinforced ASTM B232

Code Word 规格号	Size大小 AWG or kcmil	Stranding No/根数	Diameter, mm 直径				Weight，重量kg/km			Content含量%		Rated Strength 额定抗拉力 (KN)	Resistance OHMS/ km DC at 20℃ 20℃直流电阻 Ω/km
		AL/Steel 铝/钢	Individual wires单根		Steel core钢芯	Cable 电缆	AL 铝	Steel 钢	Total 总计	AL 铝	Steel 钢		
			AL 铝	St钢									
Turkey	6	6/1	1.68	1.68	1.68	5.03	36.460	17.25	53.70	67.88	32.12	5.29	0.2160
Swan	4	6/1	2.12	2.12	2.12	6.35	57.880	27.39	85.30	67.88	32.12	8.28	0.1357
Swanate	4	7/1	1.96	2.62	2.62	6.53	57.850	41.70	99.60	58.11	41.89	10.50	0.1357
Sparrow	2	6/1	2.67	2.67	2.67	8.03	92.120	43.59	136.00	67.88	32.12	12.68	0.8333
Sparrow	2	7/1	2.47	3.30	3.30	8.26	92.160	66.46	159.00	58.10	41.90	15.39	0.8235
Robin	1	6/1	3.00	3.00	3.00	8.99	116.300	55.01	171.00	67.88	32.12	15.79	0.6594
Raven	1/0	6/1	3.37	3.37	3.37	10.11	146.600	69.35	216.00	67.88	32.12	19.49	0.5216
Quail	2/0	6/1	3.78	3.78	3.78	11.35	184.600	87.37	272.00	67.88	32.12	23.62	0.4134
Pigeion	3/0	6/1	4.25	4.25	4.25	12.75	232.700	110.10	343.00	67.88	32.12	29.45	0.3281
Penguin	4/0	6/1	4.77	4.77	4.77	14.30	293.700	139.00	433.00	67.88	32.12	37.15	0.2608
Waxwing	266.8	18/1	3.09	3.09	3.09	15.47	371.800	58.38	430.00	86.43	13.57	30.61	0.2110
Partridge	266.8	26/7	2.57	2.00	6.00	16.31	374.000	171.90	546.00	68.51	31.49	50.27	0.2090
Ostrich	300	26/7	2.73	2.12	6.37	17.27	420.200	193.20	613.00	68.51	31.49	56.50	0.1860
Merlin	336.4	18/1	3.47	3.47	3.47	17.37	469.200	73.61	543.00	86.44	13.56	38.62	0.1673
Linne	336.4	26/7	2.89	2.25	6.74	18.29	471.000	216.50	687.00	68.51	31.49	62.73	0.1657
Oriole	336.4	30/7	2.69	2.69	8.07	18.82	472.700	310.60	783.00	60.35	39.65	76.97	0.1647
Chickadee	397.5	18/1	3.77	3.77	3.77	18.87	554.300	87.03	641.00	86.43	13.57	44.22	0.1417
Bran	397.5	24/7	3.27	2.18	6.54	19.61	557.100	203.90	761.00	73.21	26.79	64.96	0.1411
Ibis	397.5	26/7	3.14	2.44	7.33	19.89	556.600	255.80	812.00	68.51	31.49	72.52	0.1404
Lark	397.5	30/7	2.92	2.92	8.77	20.47	558.400	366.90	925.00	60.35	39.65	90.31	0.1394
Pelican	477	18/1	4.14	4.14	4.14	20.68	665.400	104.40	770.00	86.44	13.56	52.50	0.1181
Flicker	477	24/7	3.58	2.39	7.16	21.49	668.800	244.70	913.00	73.21	26.79	76.52	0.1175
Kawk	477	26/7	3.44	2.67	8.03	21.79	668.000	307.10	975.00	68.51	31.49	86.76	0.1168
Hen	477	30/7	3.20	3.20	9.61	22.43	670.300	440.40	1110.00	60.35	39.65	105.90	0.1161
Osprey	556.5	18/1	4.47	4.47	4.47	22.33	775.800	121.70	898.00	86.43	13.57	60.95	0.1010

ACSR钢芯铝绞线
Aluminum Conductor ,Steel Reinforced, ASTM B232

Code Word 规格号	Size 大小 kcmil	stranding根数	Diameter,mm直径				Weight, 重量kg/km			Content含量%		Rated Strength额定抗拉力 (KN)	Resistance OHMS/km DC at 20℃ 20℃直流电阻Ω/km
		(AL/St.) 铝/钢	Individual wires 单根 AL 铝	Individual wires 单根 St钢	Steel core钢芯	Cable电缆	AL 铝	Steel 钢	Total 总计	AL 铝	Steel 钢		
Parakeet	556.5	24/7	3.87	2.58	7.73	23.22	780.100	285.50	1066.00	73.210	26.79	88.01	0.1007
Dove	556.5	26/7	3.72	2.89	8.67	23.55	780.100	358.60	1139.00	68.510	31.49	100.5	0.1004
Eagle	556.5	30/7	3.46	3.46	10.38	24.21	781.900	513.70	1296.00	60.350	39.65	123.6	0.0994
Peacock	605	24/7	4.03	2.69	8.07	24.21	848.300	310.60	1159.00	73.200	26.80	96.01	0.0925
Squab	605	26/7	3.87	3.01	9.04	24.54	847.500	389.50	1237.00	68.510	31.49	108	0.0922
WoodDuck	605	30/7	3.61	3.61	10.82	25.27	853.0	558.40	1408.00	60.350	39.65	128.5	0.09426
Teal	605	30/19	3.61	2.16	10.82	25.25	850.000	546.60	1397.00	60.860	39.14	133.4	0.0915
Kingbird	636	18/1	4.78	4.78	4.78	23.88	887.300	139.30	1027.00	86.430	13.57	69.79	0.0886
Swift	636	36/1	3.38	3.38	3.38	23.62	886.900	69.63	956.00	92.720	7.28	60.85	0.0889
Rook	636	24/7	4.14	2.76	8.27	24.82	891.300	326.16	1217.00	73.210	26.79	97.79	0.0879
Grosbeak	636	26/7	3.97	3.09	9.27	25.17	891.200	409.60	1301.00	68.510	31.49	112	0.0876
Scoter	636	30/7	3.70	3.70	11.09	25.88	893.610	587.10	1481.00	60.350	39.65	135.1	0.0840
Egret	636	30/19	3.70	2.22	11.09	25.88	893.860	575.10	1469.00	60.850	39.15	140	0.0873
Flamingo	666.6	24/7	4.23	2.82	8.47	25.40	934.570	342.00	1277.00	73.210	26.79	105.3	0.0840
Gannet	666.6	26/7	4.07	3.16	9.49	25.76	934.000	429.30	1363.00	68.510	31.49	117.3	0.0837
Stilt	715.5	24/7	4.39	2.92	8.77	26.31	1003.200	366.90	1370.00	73.220	26.78	113.3	0.0784
Starling	715.5	26/7	4.21	3.28	9.83	26.70	1002.800	460.90	1464.00	68.510	31.49	126.2	0.0781
Redwing	715.5	30/19	3.92	2.35	11.77	27.46	1004.400	646.20	1651.00	60.850	39.15	153.8	0.0774
Coot	795	36/1	3.77	3.77	3.77	26.42	1108.700	87.05	1196.00	92.720	7.28	74.28	0.0712
Drake	795	26/7	4.44	3.45	10.36	28.12	1114.600	512.30	1627.00	68.510	31.49	140	0.0702
Tern	795	45/7	3.38	2.25	6.75	27.00	1113.900	217.40	1331.00	83.670	16.33	98.23	0.0709
Condor	795	54/7	3.08	3.08	9.25	27.74	1114.000	407.60	1522.00	73.210	26.79	125.3	0.0705
Mallard	795	30/19	4.14	2.48	12.41	28.96	1117.400	718.60	1836.00	60.860	39.14	170.7	0.0699
Ruddy	900	45/7	3.59	2.40	7.18	28.73	1261.200	246.20	1507.00	83.670	16.33	108.5	0.0627
Canary	900	54/7	3.28	3.28	9.84	29.51	1261.600	461.40	1723.00	73.220	26.78	141.8	0.0623

ACSR钢芯铝绞线
Aluminum Conductor ,Steel Reinforced, ASTM B232

Code Word 规格号	Size, 大小kcmil	Stranding根数 AL/Steel 铝/钢	Diameter, 直径mm				Weight 重量kg/km			Content含量%		Rated Strength额定抗拉力 (KN)	20℃直流电阻Ω/km DC Resistance OHMS/km at 20℃
			individual wires单根		Steel core钢芯	Cable 电缆	AL 铝	Steel钢	Total 总计	AL铝	Steel 钢		
			AL铝	Steel 钢									
Grouse	80	8/1	2.54	4.23	4.23	9.32	111.8	109.7	221.50	50.48	49.52	23.11	0.6791
Curlew	1033.5	54/7	3.51	3.51	10.54	31.62	1447.6	529.7	1977.00	73.21	26.79	162.7	0.0541
Bluejay	1113	45/7	4.00	2.66	7.99	31.95	1560.7	304.6	1865.00	83.67	16.33	132.5	0.0509
Finch	1113	54/19	3.65	2.19	10.94	32.82	1568.8	559.2	2128.00	73.72	26.28	173.8	0.0505
Bunting	1192.5	45/7	4.14	2.76	8.27	33.07	1671.4	326.2	1998.00	83.67	16.33	142.2	0.0472
Grackle	1192.5	54/19	3.77	2.27	11.32	33.96	1679.9	598.9	2279.00	73.72	26.28	186.2	0.0472
Bittern	1272	45/7	4.27	2.85	8.54	34.16	1782.4	347.9	2130.00	83.67	16.33	151.6	0.0443
Pheasant	1272	54/19	3.90	2.34	11.70	35.08	1791.9	639.10	2431.00	73.71	26.29	153.8	0.0443
Dipper	1351.5	45/7	4.40	2.93	8.80	35.20	1893.9	369.64	2264.00	83.67	16.33	160.9	0.0417
Martin	1351.5	54/19	4.02	2.41	12.05	36.17	1903.2	678.50	2582.00	73.72	26.28	205.8	0.0417
Bobolink	1431	45/7	4.53	3.02	9.06	36.25	2005.2	391.40	2397.00	83.67	16.33	170.2	0.0394
Lapwing	1590	45/7	4.78	3.18	9.55	38.20	2228.9	435.00	2664.00	83.67	16.33	187.6	0.0354
Falcon	1590	54/19	4.36	2.62	13.08	39.22	2240.1	798.60	3039.00	73.72	26.28	242.3	0.0354
Chukar	1780	84/19	3.70	2.22	11.09	40.69	2508.3	575.00	3083.00	81.35	18.65	226.7	0.0318
Bluebird	2156	84/19	4.07	2.44	12.21	44.75	3035.4	696.40	3732.00	81.34	18.66	268	0.0263
Kiwi	2167	72/7	4.41	2.94	8.81	44.07	3052.8	370.40	3423.00	89.18	10.82	221.4	0.0263

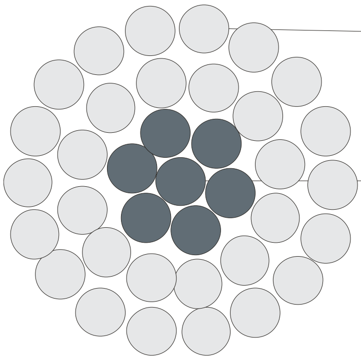
ACSR 钢芯铝绞线
High Strength ASTM B232 SI Unit

Code Word 规格号	Size, 大小kcmil	Stranding根数 (AL/St.) 铝/钢	Diameter, 直径mm				Weight 重量kg/km			Content含量%		Rated Strength额定抗拉力 (KN)	20℃直流电阻Ω/km DC Resistance OHMS/km at 20℃
			Individual wires		Steel core钢芯	Cable 电缆	AL 铝	Steel钢	Total总计	AL铝	Steel 钢		
			AL 铝	Steel钢									
Grouse	80	8/1	2.54	4.23	4.23	9.32	111.8	109.70	221.50	50.48	49.52	23.11	0.6791
Petrel	101.8	12/7	2.34	2.34	7.02	11.71	142.7	234.90	377.60	37.79	62.21	46.23	0.5184
Minorca	110.8	12/7	2.44	2.44	7.33	12.22	155.2	255.90	411.10	37.75	62.25	50.23	0.4757
Leghorn	134.6	12/7	2.69	2.69	8.07	13.46	188.6	210.60	499.20	37.79	62.21	60.45	0.3937
Guinea	159	12/7	2.92	2.92	8.77	14.63	222.8	366.90	589.70	37.79	62.21	71.12	0.3314
Dotterel	176.9	12/7	3.08	3.08	9.25	15.42	247.9	408.10	656.10	37.79	62.21	76.9	0.2989
Dorking	190.8	12/7	3.20	3.20	9.61	16.00	267.5	440.40	707.80	37.79	62.21	83.12	0.2772
Cochin	211.3	12/7	3.37	3.37	10.11	16.84	296.3	487.60	783.90	37.80	62.20	126.2	0.2503

ACSR 钢芯铝绞线
Aluminum Conductor ,Steel Reinforced （BS 215 Part 2: 1970）

Code 规格号	Nominal Section Area 标称截面积mm²	Stranding nos/Diameter 根数/直径	Structure结构	Area面积			Dia.of 直径	Weight重量			20℃直流电阻 DC resistance at 20℃(Ohm/km)	Rated Strength 额定抗拉力 KN
		Al 铝	Steel 钢	Al 铝	Steel钢	Total总计	Conductor 导体	Al 铝	Steel钢	Total总计		
		mm	mm	mm²	mm²	mm²	mm	kg/km	kg/km	kg/km		
Mole	10	6/1.5	1/1.5	10.60	1.77	12.30	4.5	29	14	43	2.707	4.27
Squirrel	20	6/2.11	1/2.11	20.98	3.50	24.40	6.33	58	27	85	1.368	8.18
Gopher	25	6/2.36	1/2.36	26.25	4.34	30.60	7.08	72	34	106	1.093	10.05
Weasel	30	6/2.59	1/2.59	31.61	5.27	36.80	7.77	87	41	128	0.9077	11.88
Fox	35	6/2.79	1/2.79	36.88	6.11	42.70	8.37	101	48	149	0.7823	13.79
Ferret	40	6/3.00	1/3.00	42.41	7.07	49.40	9	116	55	171	0.6766	15.79
Rabbit	50	6/3.35	1/3.35	52.88	8.81	61.60	10.05	145	69	214	0.5426	19.26
Mink	60	6/3.66	1/3.66	63.13	10.52	73.60	10.98	173	82	255	0.4545	22.11
Skunk	60	12/2.5	7/2.59	63.22	36.88	100.00	12.95	175	289	464	0.4568	56.49
Beaver	70	6/3.99	1/3.99	75.02	12.50	87.50	11.97	205	98	303	0.3825	25.93
Horse	70	12/2.7	7/2.79	73.26	42.80	116.00	13.95	203	335	538	0.3936	64.94
Racoon	75	6/4.1	1/4.1	79.22	13.20	92.40	12.3	217	103	320	0.3622	27.44
Otter	75	6/4.22	1/4.22	83.92	13.99	97.90	12.66	230	109	339	0.3419	29.05
Cattail	80	6/6/4.5	1/4.5	95.43	15.90	111.00	16.5	262	124	386	0.3077	33.05
Hare	90	6/4.72	1/4.72	105.00	17.50	122.00	14.16	288	137	425	0.2733	36.34
Dog	100	6/4.72	7/1.57	105.00	13.55	118.00	14.15	288	106	394	0.2733	33.76
Hyena	100	7/4.39	7/1.93	106.00	20.48	126.00	14.57	293	160	453	0.2728	42.48
Cougar	100	8/3.05	1/3.05	131.50	7.31	138.00	15.25	362	57	419	0.219	30.16
Leopard	125	6/5.28	7/1.75	131.40	16.84	148.00	15.81	361	132	493	0.2184	42.26
Tiger	125	30/2.3	7/2.36	131.20	30.62	161.00	16.52	363	240	603	0.2203	60.05
Dingo	125	18/3.3	1/3.35	158.70	8.81	167.00	16.75	437	69	506	0.1814	35.94
Wolf	150	30/2.5	7/2.59	158.10	36.88	195.00	18.13	437	289	726	0.1828	71.61
Caracal	150	18/3.6	1/3.61	184.20	10.24	194.00	18.05	507	80	587	0.1563	35.94
Lynx	175	30/2.79	7/2.79	183.40	42.80	226.00	19.53	507	335	842	0.1576	82.73
Jaguar	200	18/3.8	1/3.86	210.60	11.70	222.00	19.3	580	91	671	0.1367	40.52
Panther	200	10.00	7/3	212.10	49.48	261.00	21	586	388	974	0.1362	95.19
Lion	225	30/3.1	7/3.18	238.30	55.60	293.00	22.26	659	436	1095	0.1213	104.5
Bear	250	30/3.3	7/3.55	264.40	61.70	326.00	23.45	731	483	1214	0.1093	115.6
Goat	300	30/3.7	7/3.71	324.30	75.67	400.00	25.97	896	593	1489	0.08911	136.1
Sheep	350	30/3.9	7/3.99	375.10	87.53	426.00	27.93	1037	686	1723	0.07704	155.7
Antelop	350	54/2.9	7/2.97	374.10	48.50	422.00	26.73	1034	380	1414	0.07727	118.8
Bison	350	18.00	7/3	381.70	49.48	431.00	27	1055	388	1443	0.07573	121.4
Deer	400	30/4.2	7/4.27	429.60	100.20	529.00	29.89	1187	785	1972	0.06727	178.8
Zebra	400	543.10	7/3.18	428.90	55.60	484.00	28.62	1186	436	1622	0.0674	133.4
Elk	450	30/4.5	7/4.5	477.10	113.30	588.00	31.5	1318	872	2190	0.06067	198.4
Camellia	450	54/3.3	7/3.35	476.00	61.70	537.00	30.15	1316	483	1799	0.06073	148.1
Moose	500	54/3.5	7/3.53	528.50	68.51	597.00	31.77	1461	537	1998	0.0547	164.6

钢芯铝合金绞线
AACSR



使用范围及主要特性

可用作大档距导线，重冰区导线或架空通信、避雷线，连续使用温度可达90℃，耐热钢芯铝合金绞线的使用温度可达150℃及以上，载流能力高。

Usage Scope and Main Characteristics

It can be used as large span conductor, heavy ice wire or overhead communications wire, ground wire. Temperature for continuous use can be up to 90 ℃. Temperature of heat-resistant AACSR can be up to 150 ℃ and above. It has high current carrying capacity.

生产执行标准

GB/T 1179-2008
IEC 61089-1991

Executive standard

GB/T 1179-2008
IEC 61089-1991

AACSR钢芯铝合金绞线 JLHA2/G1A JLHA2/G1B JLHA2/G3A
Concentric Lay Stranded Aluminum Alloy Conductors, Steel Reinforced (AACSR)GB/T1179-2008 Eqv. IEC 61089-1991

标称截面 Nominal Area 铝合金/钢 Aluminium Alloy/steel	钢比 Steel ratio%	规格号 Code	面积Area（mm2）	根数/单丝直径No. of wires/ Diameter（Nos/mm）		外径 Outer Diameter（mm）		重量 Weight（kg/km）	额定抗拉力Rated Tensile Strength（KN）			20℃直流电阻 D.C Resistance at 20℃（Ω/km）
			铝/钢 Al/St	铝 Al	钢 Steel	芯线 core wire	绞线 stranded wire		JLHA2/G1A	JLHA2/G1B	JLHA2/G3A	
18/3	17	16	18.4/3.07	6/1.98	1/1.98	1.98	5.93	74.40	9.020	8.81	9.88	1.793
30/5	17	25	28.8/4.8	6/2.47	1/2.47	2.47	7.41	116.20	13.960	13.62	15.25	1.147
40/7	17	40	46/7.67	6/3.13	1/3.13	3.13	9.38	185.90	22.020	21.25	24.17	0.717
70/12	17	63	72.5/12.1	6/3.92	1/3.92	3.92	11.80	292.80	34.680	33.48	37.58	1.455
115/6	6	100	115/6.39	18/2.85	1/2.85	2.85	14.30	366.40	41.240	40.79	42.97	0.288
145/8	6	125	144/7.99	18/3.19	1/3.19	3.19	16.00	458.00	51.230	50.43	53.47	0.230
145/23	16	125	144/23.4	26/2.65	7/2.06	6.19	16.80	579.90	69.860	68.22	76.42	0.231
185/10	6	160	184/10.2	18/3.61	1/3.61	3.61	18.00	586.20	65.860	64.56	68.03	0.180
185/30	16	160	184/30	26/3.00	7/2.34	7.01	19.00	742.30	88.520	86.42	96.61	0.180
230/13	6	200	230/12.8	18/4.04	1/4.04	4.04	20.20	732.80	81.970	80.69	85.04	0.144
230/38	16	200	230/37.5	26/3.36	7/2.61	7.83	21.30	927.90	110.640	108.02	120.77	0.144
290/28	10	250	288/28.3	22/4.08	7/2.27	6.80	23.10	1013.50	117.090	115.12	124.72	0.115
290/45	16	250	288/46.9	26/3.75	7/2.92	8.76	23.80	1159.80	138.310	135.03	150.96	0.115
365/25	7	315	363/25.1	45/3.20	7/2.14	6.41	25.60	1196.50	136.280	134.52	143.30	0.091
365/60	16	315	363/59	26/4.21	7/3.28	9.83	26.70	1461.40	171.900	166.00	188.44	0.091
460/30	7	400	460/31.8	45/3.61	7/2.41	7.22	28.90	1519.40	172.100	169.87	180.69	0.072
460/60	13	400	460/59.7	54/3.29	7/3.29	9.88	29.70	1738.30	201.460	195.49	218.69	0.072
520/35	7	450	518/35.8	45/3.83	7/2.55	7.66	30.60	1709.30	193.610	191.10	203.28	0.064
520/67	13	450	518/67.1	54/3.29	7/3.49	10.50	31.50	1955.60	226.640	219.93	245.44	0.064
575/40	7	500	575/39.8	45/4.04	7/2.69	8.07	32.30	1899.30	215.210	212.33	225.86	0.057
575/75	13	500	575/74.6	54/3.68	7/3.68	11.10	33.20	2172.90	251.820	244.36	269.73	0.057
645/45	7	560	645/44.6	45/4.27	7/2.85	8.54	34.20	2127.20	240.930	237.82	252.97	0.051
645/80	13	560	645/81.6	54/3.90	19/2.34	11.70	35.10	2420.90	283.210	277.49	305.25	0.051
725/30	4	630	725/31.3	72/3.58	7/2.39	7.16	35.80	2248.00	249.620	247.43	258.08	0.045
725/90	13	630	725/91.8	54/4.13	19/2.48	12.40	37.20	2723.50	318.610	312.18	343.40	0.045
820/35	4	710	817/35.3	72/3.8	7/2.53	7.60	38.00	2533.40	281.320	278.85	290.85	0.040
820/100	13	710	817/104	54/4.39	19/2.63	13.20	39.50	3069.40	359.060	351.82	387.01	0.040
920/40	4	800	921/39.8	72/4.04	7/2.69	8.07	40.40	2854.60	316.980	314.19	327.72	0.036
920/75	8	800	921/76.7	84/3.74	7/3.74	11.20	41.10	3145.10	356.030	348.35	374.44	0.036
1040/45	4	900	1036/44.8	72/4.28	7/2.85	8.60	42.80	3211.40	356.600	353.47	368.69	0.032
1040/85	8	900	1036/86.3	84/3.96	7/3.96	11.90	43.60	3538.30	400.530	391.90	421.25	0.032
1150/95	8	1000	1151/93.7	84/4.18	19/2.51	12.50	45.90	3916.80	446.370	439.81	471.67	0.028
1300/105	8	1120	1289/105	84/4.42	19/2.65	13.30	48.60	4386.80	499.930	492.59	528.27	0.025

钢芯铝合金绞线 JLHA1/G1A JLHA1/G1B JLHA1/G3A
Concentric Lay Stranded Aluminum Alloy Conductors, Steel Reinforced(AACSR)GB/T1179-2008 Eqv. IEC 61089-1991

标称截面 Nominal Area 铝合金/钢 Aluminium Alloy/steel	钢比 Steel ratio%	规格号 Code	面积Area（mm2）	根数/单丝直径 No. of wires/ Diameter (Nos/mm)		外径 Outer Diameter（mm）		重量 Weight（kg/km）	额定抗拉力Rated Tensile Strength（KN）			20℃直流电阻 D.C Resistance at 20℃（Ω/km）
			铝/钢 Al/St	铝Al	钢St	铝/钢 Al/St	铝Al		JLHA1/G1A	JLHA1/G1B	JLHA1/G3A	
18/3	17	16	18.6/3.10	6/1.99	1/1.99	1.99	5.96	75.10	9.670	9.45	10.53	1.7934
30/5	17	25	29/4.84	6/2.48	1/2.48	2.48	7.45	117.30	14.960	14.62	16.27	1.1478
40/7	17	40	46.5/7.75	6/3.14	1/3.14	3.14	9.42	187.70	23.630	22.85	25.79	0.7174
70/12	17	63	73.2/12.2	6/3.94	1/3.94	3.94	11.80	295.60	36.480	35.26	39.41	1.4555
115/6	6	100	116/6.46	18/2.87	1/2.87	2.87	14.30	369.90	45.120	44.67	46.86	0.2880
145/8	6	125	145/8.07	18/3.21	1/3.21	3.21	16.00	426.30	56.080	55.27	58.34	0.2304
145/23	16	125	145/23.7	26/2.67	7/2.67	6.22	16.90	585.40	74.880	73.22	81.50	0.2310
185/10	6	160	186/10.3	18/3.63	1/3.63	3.63	18.10	591.80	69.920	68.89	72.40	0.1800
185/30	16	160	186/30.3	26/3.02	7/2.35	7.04	19.10	749.40	94.940	92.82	103.11	0.1805
230/13	6	200	232/12.9	18/4.05	1/4.05	4.05	20.30	739.80	87.400	86.11	90.50	0.1444
230/38	16	200	232/37.8	26/3.37	7/2.62	7.87	21.40	936.70	118.670	116.02	128.89	0.1444
290/28	10	250	290/28.5	22/4.10	7/2.28	6.83	23.20	1023.20	124.020	122.02	131.72	0.1154
290/45	16	250	290/47.3	26/3.77	7/2.93	8.80	23.90	1170.90	145.430	142.12	158.21	0.1155
365/25	7	315	366/25.3	45/3.22	7/2.15	6.44	25.70	1207.90	148.560	146.78	155.64	0.0917
365/60	16	315	366/59.6	26/4.23	7/3.29	9.88	26.80	1475.30	180.860	174.90	197.55	0.0917
460/30	7	400	465/32.1	45/3.63	7/2.42	7.25	29.00	1533.90	183.030	180.78	191.71	0.0722
460/60	13	400	465/60.2	54/3.31	7/3.31	9.93	29.80	1754.90	217.320	211.29	234.19	0.0723
520/35	7	450	523/36.1	45/3.85	7/2.56	7.69	30.80	1725.60	205.910	203.38	215.67	0.0642
520/67	13	450	523/67.8	54/3.51	7/3.51	10.50	31.60	1974.20	239.260	232.48	255.52	0.0643
575/40	7	500	581/40.2	45/4.05	7/2.70	8.11	32.40	1917.30	228.790	225.98	239.63	0.0578
575/75	13	500	581/75.3	54/3.70	7/3.70	11.10	33.30	2193.60	265.840	258.31	283.91	0.0578
645/45	7	560	651/45.0	45/4.29	7/2.86	8.58	34.30	2147.40	256.240	253.09	268.39	0.0516
645/80	13	560	651/82.4	54/3.92	19/2.35	11.80	35.30	2444.00	298.920	293.15	321.17	0.0516
725/30	4	630	732/31.6	45/3.60	7/2.40	7.20	36.00	2269.40	266.640	264.42	275.18	0.0459
725/90	13	630	732/92.7	54/4.15	19/2.49	12.50	37.40	2749.50	336.280	329.79	361.32	0.0459
820/35	4	710	825/35.6	72/3.82	7/2.55	7.64	38.20	2557.60	300.500	298.00	310.12	0.0407
820/100	13	710	825/104	54/4.41	19/2.65	13.21	39.70	3098.60	378.980	371.67	407.20	0.0407
920/40	4	800	930/40.2	72/4.05	7/2.70	8.11	40.50	2881.80	338.590	335.78	349.43	0.0361
920/75	8	800	930/77.5	84/3.75	7/3.75	11.30	41.30	3175.10	378.010	370.26	396.60	0.0362
1040/45	4	900	1046/45.2	72/4.30	7/2.87	8.60	43.00	3242.00	380.910	377.75	393.11	0.0321
1040/85	8	900	1046/87.1	84/3.98	7/3.98	11.90	43.80	3572.00	425.260	416.54	446.17	0.0322
1150/95	8	1000	1162/94.6	84/4.20	19/2.52	12.60	46.20	3954.10	473.860	467.24	499.40	0.0289
1300/105	8	1120	1301/106	84/4.44	19/2.66	13.30	48.90	4428.60	530.720	523.30	559.33	0.0258

钢芯铝合金绞线
Concentric Lay Stranded Aluminum Alloy Conductors, Steel Reinforced(AACSR)   ASTM B711

Conductor area, 导体面积 mm2	Alloy area, 合金面积 mm2	Steel Area, 钢面积mm2	No. of Alloy wire 铝合金根数	Dia. of Alloy wire, 铝合金直径 mm	No. of St. 钢丝根数	Dia.of St. wire, 钢丝直径 mm	Dia.of conductor 导体直径mm	Linear weight , 线性重量kg/km	Rated strength, 额定抗拉力KN	Max. D.C resistance, At 20℃ 20℃直流电阻 ohm/km
163	140	23.00	26.00	2.62	7.00	2.04	16.600	560.00	75.00	0.2400
173	140	33.00	30.00	2.44	7.00	2.44	17.100	650.00	87.40	0.2400
186	160	26.00	26.00	2.80	7.00	2.18	17.700	645.00	85.60	0.2100
198	160	38.00	30.00	2.61	7.00	2.61	18.300	740.00	106.00	0.2100
209	180	29.00	26.00	2.97	7.00	2.31	18.800	725.00	95.10	0.1870
222	180	42.00	30.00	2.76	7.00	2.76	19.300	825.00	112.00	0.1870
232	200	32.00	26.00	3.13	7.00	2.43	19.800	800.00	106.00	0.1680
247	200	47.00	30.00	2.91	7.00	2.91	20.400	920.00	124.00	0.1680
260	224	36.00	26.00	3.31	7.00	2.57	21.000	900.00	118.00	0.1500
276	224	52.00	30.00	3.08	7.00	3.08	21.600	1025.00	139.00	0.1500
291	250	41.00	26.00	3.50	7.00	2.72	22.200	1010.00	129.00	0.1350
308	250	58.00	30.00	3.26	7.00	3.26	22.800	1145.00	156.00	0.1350
326	280	46.00	26.00	3.70	7.00	2.88	23.400	1140.00	144.00	0.1200
345	280	65.00	30.00	3.45	7.00	3.45	24.200	1280.00	171.00	0.1200
367	315	52.00	26.00	3.93	7.00	3.06	24.900	1276.00	163.00	0.1070
387	315	72.00	30.00	3.66	19.00	2.20	25.600	1433.00	190.00	0.1070
413	355	58.00	26.00	4.17	7.00	3.24	26.400	1433.00	183.00	0.0950
436	355	81.00	30.00	3.88	19.00	2.33	27.200	1614.00	211.00	0.0950
465	400	65.00	26.00	4.43	7.00	3.45	28.100	1612.00	207.00	0.0842
491	400	91.00	30.00	4.12	19.00	2.47	28.800	1816.00	237.00	0.0842
509	450	59.00	54.00	3.26	19.00	1.96	29.500	1703.00	215.00	0.0748
563	500	63.00	54.00	3.43	19.00	2.06	30.900	1873.00	229.00	0.0673
631	560	71.00	54.00	3.63	19.00	2.18	32.700	2101.00	257.00	0.0601
710	630	80.00	54.00	3.85	19.00	2.31	34.600	2365.00	286.00	0.0534
800	710	90.00	54.00	4.09	19.00	2.45	36.800	2665.00	322.00	0.0474
901	800	101.00	54.00	4.34	19.00	2.60	39.000	3000.00	363.00	0.0420
973	900	73.00	84.00	3.69	19.00	2.21	40.600	3062.00	355.00	0.0374
1081	1000	81.00	84.00	3.89	19.00	2.33	42.800	3395.00	391.00	0.0337
1211	1120	91.00	84.00	4.12	19.00	2.47	45.300	3803.00	439.00	0.0300
1352	1250	102.00	84.00	4.35	19.00	2.61	47.800	4250.00	490.00	0.0270

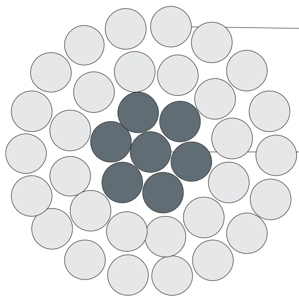
铝合金芯铝绞线
Concentric-lay-stranded Aluminum Conductors Aluminium Alloy Reinforced

使用范围及主要特性

主要用于档距不大、受力较小的配电线路；载流能力高；防腐性能好。

Usage Scope and Main Characteristics

It is mainly used for electric distribution lines with little span, less stress. It has high current carrying capacity and good corrosion performance.



生产执行标准

GB/T1179-2008

IEC61089-1991

Executive standard

GB/T 1179-2008

IEC 61089-1991

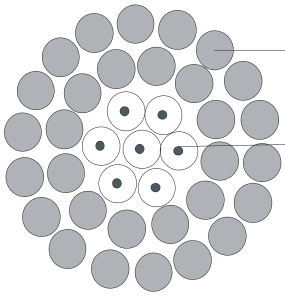
JL/LHA2铝合金芯铝绞线
GB/T 1179-2008 Eqv. IEC61089-1991

标称截面 Nominal Area 铝/铝合金 Al/ Aluminium Alloy	规格号 Code	直径 Diameter mm		单线根数 No. of wires n		面积 Area /mm2			单位长度质量 weight per unit length kg/km	额定拉断力 Rated Strength /kN	直流电阻（20℃）D.C. Resistance At 20℃ /（Ω/km）
		单线 individual wires	导体 conductor	铝Al	铝合金 Aluminium Alloy	铝 Al	铝合金 Aluminium Alloy	总计 Total			
10/7	16	1.76	5.28	4	3	9.73	7.30	17.0	46.6	3.85	1.7896
15/10	25	2.20	6.60	4	3	15.2	11.4	26.6	72.8	5.93	1.1453
24/20	40	2.78	8.35	4	3	24.3	18.3	42.6	116.5	9.25	0.7158
40/30	63	3.49	10.5	4	3	38.3	28.7	67.1	183.5	14.38	0.4545
60/45	100	4.40	13.2	4	3	60.8	45.6	106	291.2	22.52	0.2863
80/50	125	2.97	14.9	12	7	83.3	48.6	132	362.7	27.79	0.2302
105/60	160	3.36	16.8	12	7	107	62.2	169	464.2	35.04	0.1798
135/80	200	3.76	18.8	12	7	133	77.8	211	580.3	43.13	0.1439
170/95	250	4.21	21.0	12	7	167	97.2	264	725.3	53.92	0.1151
130/140	250	3.04	21.3	18	19	131	138	269	742.2	60.39	0.1154
265/60	315	3.34	23.4	30	7	263	61.3	324	892.6	60.52	0.0916
165/175	315	3.42	23.9	18	19	165	174	339	935.1	76.09	0.0916
335/80	400	3.76	26.3	30	7	334	77.8	411	1133.5	75.19	0.0721
210/220	400	3.85	27.0	18	19	210	221	431	1187.5	95.58	0.0721
375/85	450	3.99	27.9	30	7	375	87.6	463	1275.2	84.59	0.0641
235/250	450	4.08	28.6	18	19	236	249	485	1335.9	107.52	0.0641
415/95	500	4.21	29.4	30	7	417	97.3	514	1416.9	93.98	0.0577
260/275	500	4.31	30.1	18	19	262	277	539	1484.3	119.47	0.0577
465/110	560	4.45	31.2	30	7	467	109	576	1586.9	105.26	0.0515
505/65	560	3.45	31.0	54	7	504	65.4	570	1571.9	101.54	0.0516
455/205	630	3.71	33.4	42	19	454	205	660	1820.0	130.25	0.0458
270/420	630	3.79	34.1	24	37	271	417	688	1897.5	160.19	0.0458
514/230	710	3.94	35.5	42	19	512	232	743	2051.2	146.78	0.0407
307/470	710	4.02	36.2	24	37	305	470	775	2138.4	180.53	0.0407
580/260	800	4.18	37.6	42	19	577	261	838	2311.2	165.39	0.0361
345/530	800	4.27	38.4	24	37	344	530	873	2409.5	203.41	0.0361
650/295	900	4.43	39.9	42	19	649	294	942	2600.1	186.06	0.0321
570/390	900	3.66	40.2	54	37	567	388	955	2638.4	199.54	0.0321
820/215	1000	3.80	41.8	72	19	816	215	1032	2849.1	190.94	0.0289
630/430	1000	3.85	42.4	54	37	630	432	1061	2931.6	221.71	0.0289
915/240	1120	4.02	44.2	72	19	914	241	1155	3191.0	213.85	0.0258
705/485	1120	4.08	44.9	54	37	705	483	1189	3283.4	248.32	0.0258
1020/270	1250	4.25	46.7	72	19	1020	269	1289	3561.4	238.68	0.0231
790/540	1250	4.31	47.4	54	37	787	539	1327	3664.5	277.14	0.0231
1145/300	1400	4.50	49.4	72	19	1143	302	1444	3988.8	267.32	0.0207

JL/LHA1铝合金芯铝绞线
GB/T 1179-2008 Eqv. IEC61089-1991

标称截面 Nominal Area 铝/铝合金 Al/ Aluminium Alloy	规格号 Code	直径Diameter mm		单线根数 No. of wires n		面积Area mm2			单位长度质量 weight per unit length kg/km	额定拉断力Rated Strength /kN	直流电阻（20℃）D.C. Resistance At 20℃（Ω/km）
		单线 individual wires	导体 conductor	铝 Al	铝合金 Aluminium Alloy	铝 Al	铝合金 Aluminium Alloy	总计 Total			
10/7	16	1.76	5.29	4	3	9.78	7.33	17.1	46.8	4.07	1.7896
15/10	25	2.21	6.60	4	3	15.3	11.5	26.7	73.1	6.29	1.1453
24/20	40	2.79	8.37	4	3	24.4	18.3	42.8	117.0	9.82	0.7158
40/30	63	3.50	10.5	4	3	38.5	28.9	67.4	184.3	14.8	0.4545
60/45	100	4.41	13.2	4	3	61.1	45.8	107	292.5	23.49	0.2863
80/50	125	2.98	14.9	12	7	84	48.8	132	364.1	29.49	0.2302
105/60	160	3.37	16.9	12	7	107	62.5	170	466.0	36.95	0.1798
135/80	200	3.77	18.8	12	7	134	78.1	212	582.5	44.78	0.1439
170/95	250	4.21	21.1	12	7	167	97.6	265	728.1	55.98	0.1151
130/140	250	3.05	21.4	18	19	132	139	271	746	64.67	0.1154
265/60	315	3.34	23.4	30	7	263	61.4	325	894.4	62.40	0.0916
165/175	315	3.43	24.0	18	19	166	175	341	940.0	81.48	0.0916
335/80	400	3.77	26.4	30	7	334	78	412	1135.8	76.82	0.0721
210/220	400	3.86	27.0	18	19	211	222	433	1193.7	100.30	0.0721
375/85	450	3.99	28.0	30	7	376	87.7	464	1277.8	86.42	0.0641
235/250	450	4.10	28.7	18	19	237	250	487	1342.9	112.84	0.0641
415/95	500	4.21	29.5	30	7	418	97.5	515	1419.8	96.03	0.0577
260/275	500	4.32	30.2	18	19	263	278	542	1492.1	125.38	0.0577
465/110	560	4.46	31.2	30	7	468	109	577	1590.1	107.55	0.0515
505/65	560	3.45	31.1	54	7	505	65.5	570	1573.9	103.53	0.0516
455/205	630	3.72	33.4	42	19	456	206	662	1826.0	134.59	0.0458
270/420	630	3.80	34.2	24	37	272	420	692	1909.0	169.14	0.0458
514/230	710	3.95	35.5	42	19	514	232	746	2057.8	151.68	0.0407
307/470	710	4.03	36.3	24	37	307	473	780	2151.4	190.61	0.0407
580/260	800	4.19	37.7	42	19	579	262	840	2318.7	170.9	0.0361
345/530	800	4.28	38.5	24	37	346	533	879	2424.2	214.78	0.0361
650/295	900	4.44	40.0	42	19	651	294	945	2608.5	192.27	0.0321
570/390	900	3.66	40.3	54	37	569	390	959	2649.5	207.79	0.0321
820/215	1000	3.80	41.8	72	19	818	216	1034	2855.4	195.47	0.0289
630/430	1000	3.86	42.5	54	37	632	433	1066	2943.9	230.88	0.0289
915/240	1120	4.02	44.3	72	19	916	242	1158	3198.1	218.92	0.0258
705/485	1120	4.09	45.0	54	37	708	485	1194	3297.2	258.58	0.0258
1020/270	1250	4.25	46.8	72	19	1022	270	1292	3569.3	244.33	0.0231
790/540	1250	4.32	47.5	54	37	791	542	1332	3679.9	288.6	0.0231
1145/300	1400	4.50	49.5	72	19	1145	302	1447	3997.6	273.65	0.0207

铝包钢芯铝绞线
Concentric-lay-Stranded Aluminum Conductors Aluminum-Clad Steel Reinforced



使用范围及主要特性

铝包钢芯铝绞线是由多根铝包钢单线和多根纯铝线组合绞制而成。主要用于架空输配电线路及电气化铁道接触网。

具有优良的耐腐蚀性，良好的导电能力，明显的节能效果，综合效益高等特点。

生产执行标准

GB/T 1179-2008
IEC61089-1991
ASTM B549

Usage Scope and Main Characteristics

ACSR/AW are twisted by many ACSR individual wires and many Aluminum wires. It is mainly used for overhead transmission and distribution lines and electric railway contact system.

It has good corrosive proof performance, good conductivity, obvious energy saving effect, and high integrated efficiency.

Executive standard

GB/T 1179-2008
IEC61089-1991
ASTM B549

铝包钢芯铝绞线
（ACSR/AW）JL/LB1A GB/T 1179-2008 Eqv. IEC61089-1991

标称截面 Nominal Area 铝/铝包钢 Al/ACS	规格号 code	钢比 steel Ratio %	面积Area mm2			单线 individual wires		单线直径 Diameter per wire mm		直径 Diameter mm		单位长度质量 weight per unit length kg/km	额定拉断力 Rated Strength kN	直流电阻（20℃）D.C. Resistance at 20℃ Ω/km
			铝 Al	铝包钢 ACS	总Total	铝 Al	铝包钢 ACS	铝 Al	铝包钢 ACS	铝包钢芯ACS core	绞线 Strand			
15/3	16	16.7	15	2.56	17.9	6	1	1.81	1.81	1.81	5.43	59.0	5.91	1.7923
24/4	25	16.7	24	4.00	28.0	6	1	2.26	2.62	2.26	6.78	92.1	9.00	1.1471
38/5	40	16.7	38	6.40	44.8	6	1	2.85	2.85	2.85	8.55	147.4	14.21	0.7169
60/10	63	16.7	60	10.08	70.6	6	1	3.58	3.58	3.58	10.7	232.2	21.17	0.4552
95/15	100	16.7	96	16.00	112	6	1	4.51	4.51	4.51	13.5	368.6	31.84	0.2868
125/5	125	5.6	123	6.85	130	18	1	2.95	2.95	2.95	14.8	384.3	29.18	0.2304
120/20	125	16.3	120	19.6	140	26	7	2.43	1.89	5.66	15.4	460.8	44.49	0.2308
160/10	160	5.6	158	8.77	167	18	1	3.34	3.34	3.34	16.7	491.9	36.38	0.1800
155/25	160	16.3	154	25.00	179	26	7	2.74	2.13	6.40	17.4	589.8	56.18	0.1803
200/10	200	5.6	197	10.96	208	18	1	3.74	3.74	3.74	18.7	614.9	43.62	0.1440
200/30	200	16.3	192	31.3	223	26	7	3.07	2.39	7.16	19.4	737.2	69.27	0.1443
250/25	250	9.8	244	24.0	268	22	7	3.76	2.09	6.26	21.3	830.9	67.80	0.1153
250/40	250	16.3	240	39.1	279	26	7	3.43	2.67	8.00	21.7	921.5	86.58	0.1154
310/20	315	6.9	310	21.4	331	45	7	2.96	1.97	5.92	23.7	996.4	78.33	0.0917
300/50	315	16.3	303	49.3	352	26	7	3.85	2.99	8.98	24.4	1161.1	107.58	0.0916
395/25	400	6.9	393	27.2	420	45	7	3.34	2.22	6.67	26.7	1265.3	97.50	0.0722
387/50	400	13.0	387	50.2	438	54	7	3.02	3.02	9.07	27.2	1402.9	124.20	0.0723
440/30	450	6.9	442	30.6	473	45	7	3.54	2.36	7.08	28.3	1423.4	107.48	0.0642
435/35	450	13.0	436	36.5	492	54	7	3.21	3.21	9.62	28.9	1578.2	139.7	0.0642
490/35	500	6.9	492	34.0	525	45	7	3.73	2.49	7.46	29.8	1581.6	119.4	0.0578
485/60	500	13.0	484	62.8	547	54	7	3.38	3.38	10.14	30.4	1753.6	153.9	0.0578
550/40	560	6.9	550	38.1	589	45	7	3.95	2.63	7.89	31.6	1771.4	133.7	0.0516
545/70	560	12.7	543	68.8	612	54	19	3.58	2.15	10.73	32.2	1956.3	169.3	0.0516
620/40	630	6.9	619	42.8	662	45	7	4.19	2.79	8.37	33.5	1992.8	150.47	0.0458
610/75	630	12.7	611	77.3	688	54	19	3.79	2.28	11.38	34.2	2200.9	190.5	0.0459
700/50	710	6.9	698	48.3	746	45	7	4.44	2.96	8.89	35.6	2245.8	169.5	0.0407
700/85	710	12.7	688	87.2	775	54	19	4.03	2.42	12.08	36.3	2480.3	214.7	0.0407
790/35	800	4.3	791	34.2	826	72	7	3.74	2.49	7.48	37.4	2412.8	167.6	0.0631
785/65	800	8.3	784	65.3	849	84	7	3.45	3.45	10.34	37.9	2598.9	206.3	0.0362
775/100	800	12.7	775	98.2	874	54	19	4.28	2.57	12.83	38.5	2794.7	241.9	0.0361
900/40	900	4.3	890	38.5	929	72	7	3.97	2.65	7.94	39.7	2714.4	188.63	0.0321
880/75	900	8.3	882	73.5	955	84	7	3.66	3.66	10.97	40.2	2923.8	224.8	0.0321
990/45	1000	4.3	989	42.7	1032	72	7	4.18	2.79	8.37	41.8	3016.0	209.5	0.0289
1110/45	1120	4.2	1108	46.8	1155	72	19	4.43	1.77	8.85	44.3	3372.6	233.4	0.0258
1100/90	1120	8.1	1098	89.4	1187	84	19	4.08	2.45	12.24	44.9	3628.4	282.8	0.0258
1235/50	1250	4.2	1237	52.2	1289	72	19	4.68	1.87	9.35	46.8	3764.1	260.5	0.0231
1225/100	1250	8.1	1225	99.8	1325	84	19	4.31	2.59	12.93	47.4	4049.5	315.7	0.0231

铝包钢芯铝绞线ACSR/AW 美国标准 ASTM B549

代号 code	导线尺寸 Size mm2	绞合结构 structure	直径Diameter mm			额定拉力 Rated Strength KN	线重 weight	电阻resistance Ω/km		允许载流量 carrying capacity Amps
			铝Al	铝包钢 ACS	绞线 stranded wire		kg/km	DC at 20℃ 20℃直流	AC at 75℃ 75℃交流	
Sparrow/AW	33.62	6/1	2.67	2.67	8.03	12.30	129.000	0.8077	0.9833	194.00
Robin/AW	42.41	6/1	3.00	3.00	8.99	15.35	163.000	0.6398	0.7785	225.00
Raven/AW	53.51	6/1	3.37	3.37	10.11	18.91	205.000	0.5075	0.6181	260.00
Quail/AW	67.44	6/1	3.78	3.78	11.35	22.82	259.000	0.4026	0.4902	301.00
Pigeon/AW	85.02	6/1	4.25	4.25	12.75	28.03	326.000	0.3198	0.3898	347.00
Penguin/AW	107.2	6/1	4.77	4.77	14.30	34.21	411.000	0.2535	0.3091	402.00
Waxwing/AW	135.2	18/1	3.09	3.09	15.47	30.34	421.000	0.2088	0.2551	451.00
Partridge/AW	135.2	26/7	2.57	2.00	16.31	48.05	520.000	0.2024	0.2474	465.00
Ostrich/AW	152	26/7	2.73	2.12	17.27	53.83	584.000	0.1801	0.2202	500.00
Merlin/AW	170.5	18/1	3.47	3.47	17.37	37.99	532.000	0.1655	0.2026	522.00
Linne/AW	170.5	26/7	2.89	2.25	18.29	60.06	654.000	0.1607	0.1965	537.00
Oriole/AW	170.5	30/7	2.69	2.69	18.82	74.30	736.000	0.1573	0.1923	547.00
Chickadee/ AW	201.4	18/1	3.77	3.77	18.87	43.51	628.000	0.1400	0.1716	580.00
Bran/AW	201.4	24/7	3.27	2.18	19.61	62.73	730.000	0.1373	0.1681	592.00
Ibis/AW	201.4	26/7	3.14	2.44	19.89	70.29	773.000	0.1360	0.1664	597.00
Lark/AW	201.4	30/7	2.92	2.92	20.47	87.20	869.000	0.1332	0.1629	608.00
Pelican/AW	241.7	18/7	4.14	4.14	20.68	51.16	754.000	0.1167	0.1425	651.00
Flicker/AW	241.7	24/1	3.58	2.39	21.49	74.30	876.000	0.1144	0.1402	663.00
Kawk/AW	241.7	26/7	3.44	2.67	21.79	84.09	928.000	0.1133	0.1388	669.00
Hen/Aw	241.7	30/7	3.20	3.20	22.43	104.10	1043.000	0.1110	0.1358	682.00
Osprey/AW	282	18/1	4.47	4.47	22.33	58.73	879.000	0.1001	0.1230	715.00
Parakee/AW	282	24/7	3.87	2.58	23.22	85.87	1022.000	0.0981	0.1203	731.00
Dove/AW	282	26/7	3.72	2.89	23.55	97.43	1084.000	0.0970	0.1190	737.00
Eagle/AW	282	30/7	3.46	3.46	24.21	119.20	1217.000	0.0951	0.1165	751.00
Peacock/AW	306.6	24/7	4.03	2.69	24.21	93.43	1111.000	0.0902	0.1108	770.00
Squab/AW	306.6	26/7	3.87	3.01	24.54	105.00	1178.000	0.0849	0.1096	777.00
Teal/AW	306.6	30/19	3.61	2.16	25.25	126.80	1313.000	0.0877	0.1074	791.00
Kingbird/AW	322.3	18/1	4.78	4.78	23.88	66.74	1005.000	0.0875	0.1078	778.00
Rook/AW	322.3	24/7	4.14	2.76	24.82	97.88	1168.000	0.0858	0.1055	794.00
Grosbeak/AW	322.3	26/7	3.97	3.09	25.15	110.30	1238.000	0.0849	0.1043	801.00
Egret/AW	322.3	30/19	3.70	2.22	25.88	133.00	1381.000	0.0834	0.1023	815.00
Flamingo/AW	337.8	24/7	4.23	2.82	25.40	102.80	1224.000	0.0819	0.1007	818.00
Gannet/AW	337.8	26/7	4.07	3.16	25.76	115.70	1298.000	0.0810	0.0995	825.00
Starling/AW	362.3	26/7	4.21	3.28	26.70	122.30	1393.000	0.0755	0.0928	863.00
Redwing/AW	362.3	30/19	3.92	2.35	27.46	148.60	1552.000	0.0741	0.0911	878.00
Term/AW	402.8	45/7	3.38	2.25	27.00	95.65	1298.000	0.0700	0.0865	896.00
Cuckoo/AW	402.8	24/7	4.62	3.08	27.74	122.30	1459.000	0.0687	0.0847	913.00

铝包钢芯铝绞线ACSR/AW 美国标准 ASTM B549

代号 code	导线尺寸 size mm2	绞合结构 structure	直径Diameter mm			额定拉力Rated Strength KN	线重 weight Amps	电阻 resistance Ω/km		允许载流量 carrying capacity Amps
			铝 Al	铝包钢 ACS	绞线 stranded wire			DC at 20℃ 20℃直流	AC at75℃ 75℃交流	
Condor/AW	402.8	54/7	3.08	3.08	27.72	123.70	1459.000	0.0686	0.0846	913.00
Drak/AW	402.8	26/7	4.45	3.43	28.11	135.70	1549.000	0.0679	0.0836	922.00
Mallard/AW	402.8	30/19	4.14	2.48	28.04	165.10	1726.000	0.0667	0.0820	938.00
Ruddy/AW	456	54/7	3.28	3.28	28.73	137.90	1653.000	0.0619	0.0764	970.00
Canary/AW	456	45/7	3.59	2.40	29.51	106.80	1470.000	0.0607	0.0750	986.00
Cardinal/AW	483.4	54/7	3.38	3.38	29.59	146.40	1751.000	0.0584	0.0709	1022.00
Rail/AW	483.4	45/7	3.70	2.47	29.61	113.00	1558.000	0.0572	0.0725	1003.00
Ortolan/AW	523.7	54/7	3.51	3.51	30.78	158.40	1896.000	0.0538	0.0671	1054.00
Curlew/AW	523.7	45/7	3.85	2.57	31.65	120.60	1687.000	0.0528	0.0655	1074.00
Bluejay/AW	564	54/19	3.65	2.19	31.98	166.80	2043.000	0.0527	0.0625	1103.00
Finch/AW	564	45/7	4.00	2.66	32.84	130.40	1819.000	0.0493	0.0614	1121.00
Bunting/AW	604.2	54/19	3.77	2.27	33.07	178.80	2187.000	0.0467	0.0585	1150.00
Grackle/AW	604.2	45/7	4.14	2.76	33.99	139.30	1948.000	0.0460	0.0574	1168.00
Bittern/AW	644.5	54/19	3.90	2.34	34.16	188.60	2333.000	0.0438	0.0551	1196.00
Pheasant/AW	644.5	45/7	4.27	2.85	35.10	148.60	2077.000	0.0431	0.0540	1216.00
Dipper/AW	684.6	54/19	4.02	2.41	35.20	200.60	2478.000	0.0412	0.0520	1240.00
Martin/AW	684.6	45/7	4.40	2.93	36.17	157.90	2207.000	0.0406	0.0510	1261.00
Bobolink/AW	725.1	54/19	4.14	2.48	36.25	212.20	2625.000	0.0389	0.0493	1283.00
Plover/AW	725.1	45/7	4.53	3.02	32.13	167.30	2337.000	0.0384	0.0483	1306.00
Nuthatch/AW	765.1	54/19	4.25	2.55	37.21	223.80	2768.000	0.0369	0.0469	1326.00
Parrot/AW	765.1	45/7	4.65	3.10	38.23	176.60	2467.000	0.0363	0.0458	1351.00
Lapwing/AW	805.7	54/19	4.36	2.62	38.20	235.80	2917.000	0.0351	0.0448	1365.00
Falcon/AW	805.7	45/7	4.78	3.18	39.24	186.00	2598.000	0.0345	0.0438	1391.00
Chukar/AW	901.9	84/19	3.70	2.22	40.69	219.80	2995.000	0.0319	0.0403	1464.00
Kiwi/AW	1098	72/7	4.41	2.94	44.07	218.40	3367.000	0.0260	0.0340	1634.00
Bluebird/AW	1092	84/19	4.07	2.44	44.75	262.50	3626.000	0.0258	0.0346	1613.00
Thrasher/AW	1171	76/19	4.43	2.07	45.79	246.00	3678.000	0.0243	0.0326	1680.00

铝包钢芯铝绞线ACSR/AW 美国标准ASTM B549 高强度级High Strength Class

代号 code	导线尺寸 mm2 size	绞合结构 structure	直径 Diameter mm			额定拉力Rated Strength KN	线重weight	电阻 resistance Ω/km		允许载流量 carrying capacity
			铝 Al	铝包钢 ACS	kg/km			DC at 20℃ 20℃直流	AC at 75℃ 75℃交流	Amps
Grouse/AW	40.54	8/1	2.54	4.24	9.32	21.80	205.000	0.6371	0.7733	227.00
Petrel/AW	51.58	12/7	2.34	2.34	11.68	44.10	342.000	0.4675	0.5695	281.00
Minorca/AW	56.14	12/7	2.44	2.44	12.22	48.00	372.000	0.4350	0.5230	297.00
Leghorn/AW	68.2	12/7	2.69	2.69	13.46	57.80	452.000	0.3537	0.4308	335.00
Guinea/AW	80.57	12/7	2.92	2.92	14.63	68.10	534.000	0.2993	0.3648	372.00
Dotterel/AW	89.64	12/7	3.08	3.08	15.42	75.20	594.000	0.2691	0.3277	398.00
Dorking/AW	96.68	12/7	3.20	3.20	16.03	81.40	641.000	0.2494	0.3038	418.00
Brahma/AW	103	16/19	2.86	2.48	18.14	120.60	894.000	0.2155	0.2623	464.00
Cochin/AW	107.1	12/7	3.37	3.37	16.87	88.10	709.000	0.2252	0.2744	445.00

铝包钢芯铝绞线ACSR/AW Q/TK 2901-2010 JL/LB14

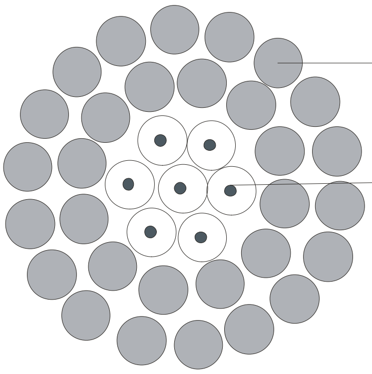
规格 Code	标称截面 mm2 Nominal Area	铝线 Aluminium wire		铝包钢线 ACS		计算面积 Area			外径 Outer Diameter mm	20℃直流电阻 D.C. Resistance at20℃ Ω/km	计算拉断力Rated strength KN	计算质量 weight kg/km	40℃交流电阻 AC At 40℃ Ω/km	70℃交流电阻 AC at 70℃ Ω/km	80℃交流电阻AC at80℃ Ω/km	70℃计算载流量 carrying capacity At 70℃ A	80℃计算载流量 carrying capacity At 80℃ A
	铝/钢Al/St	直径 Diameter mm	根数Nos	直径 Diameter mm	根数 Nos	铝Al	铝包钢 ACS	总计 Total									
26	25/4	2.32	6.00	2.32	1.00	25.36	4.230	29.59	6.96	1.0891	10.40	97.50	1.1768	1.3084	1.3523		
36	35/6	2.72	6.00	2.72	1.00	34.86	5.810	40.67	8.16	0.7924	14.12	134.00	0.8562	0.9520	0.9839		
50	50/8	3.20	6.00	3.20	1.00	48.26	8.040	56.30	9.60	0.5725	19.06	185.40	0.6185	0.6877	0.7108		
58	50/30	2.32	12.00	2.32	7.00	50.73	29.590	80.32	11.60	0.5010	50.60	336.00	0.5414	0.6020	0.6221		
71	70/10	3.80	6.00	3.80	1.00	68.05	11.340	79.39	11.40	0.4059	26.08	261.50	0.4386	0.4877	0.5041		
80	70/40	2.72	12.00	2.72	7.00	69.73	40.670	110.40	13.60	0.3645	69.20	461.80	0.3939	0.4380	0.4526		
111	95/55	3.20	12.00	3.20	7.00	96.51	56.300	152.81	16.00	0.2634	93.62	639.20	0.2846	0.3165	0.3271		
121	120/7	2.90	18.00	2.90	1.00	118.89	6.610	125.50	14.50	0.2391	28.74	633.50	0.2584	0.2873	0.2969	279	343
140	120/70	3.60	12.00	3.60	7.00	122.15	71.250	193.40	18.00	0.2081	115.00	809.00	0.2249	0.2500	0.2584	313	389
147	150/8	3.20	18.00	3.20	1.00	144.77	8.040	152.81	16.00	0.1964	34.98	451.70	0.2127	0.2364	0.2444	314	388
156	150/35	2.50	30.00	2.50	7.00	147.26	34.360	181.62	17.50	0.1861	74.22	579.90	0.2011	0.2236	0.2311	329	408
186	185/10	3.60	18.00	3.60	1.00	183.22	10.180	193.40	18.00	0.1551	42.96	571.70	0.1688	0.1875	0.1936	361	449
189	185/30	2.98	26.00	2.32	7.00	181.34	29.590	210.93	18.88	0.1533	72.55	696.60	0.1658	0.1844	0.1906	374	458
196	185/45	2.80	30.00	2.80	7.00	184.73	43.100	227.83	19.60	0.1483	92.18	795.80	0.1604	0.1784	0.1843	377	471
207	210/10	3.80	18.00	3.80	1.00	204.14	11.340	215.48	19.00	0.1392	47.86	636.90	0.1516	0.1684	0.1739	386	481
220	210/35	3.22	26.00	2.50	7.00	211.73	34.360	246.09	20.38	0.1314	83.38	812.10	0.1426	0.1585	0.1637	403	504
221	210/50	2.98	30.00	2.98	7.00	209.24	48.820	258.06	20.86	0.1310	104.40	901.40	0.1423	0.1582	0.1633	405	508
252	240/30	3.60	24.00	2.40	7.00	244.29	31.670	275.96	21.60	0.1146	83.74	883.70	0.1243	0.1381	0.1427	437	548
249	240/40	3.42	26.00	2.66	7.00	238.85	38.900	277.75	21.66	0.1164	93.07	917	0.1264	0.1404	0.1451	434	544
255	240/55	3.20	30.00	3.20	7.00	241.27	56.300	297.57	22.40	0.1136	117.50	1039	0.1235	0.1372	0.1418	442	555
310	300/40	3.99	24.00	2.66	7.00	300.00	38.900	338.99	23.94	0.0933	102.90	1086	0.1015	0.1128	0.1164	494	623
312	300/50	3.83	26.00	2.98	7.00	299.50	48.820	348.37	24.26	0.0928	116.80	1150	0.1010	0.1122	0.1158	496	627
323	300/70	3.60	30.00	3.60	7.00	305.30	71.250	376.62	25.20	0.0897	144.30	1316	0.0977	0.1085	0.1121	508	643
399	400/35	3.22	48.00	2.50	7.00	390.80	34.360	425.24	26.82	0.0724	112.90	1307	0.0796	0.0884	0.0913	570	724
413	400/50	3.07	54.00	3.07	7.00	399.70	51.820	451.54	27.63	0.0702	137.50	1448	0.0772	0.0858	0.0886	582	741
415	400/65	4.42	26.00	3.44	7.00	398.90	65.060	464.00	28.00	0.0697	153.60	1532	0.0761	0.0844	0.0872	588	749
431	400/95	4.16	30.00	2.50	19.00	407.70	93.270	501.02	29.14	0.0673	196.80	1746	0.0730	0.0810	0.0837	605	772
506	500/35	3.75	45.00	2.50	7.00	497.00	34.360	531.37	30.00	0.0572	128.00	1600	0.0630	0.0700	0.0723	654	837
499	500/45	3.60	48.00	2.80	7.00	488.50	43.100	531.68	30.00	0.0579	138.90	1635	0.0645	0.0713	0.0735	648	831
518	500/65	3.44	54.00	3.44	7.00	501.80	65.060	566.94	30.96	0.0559	172.60	1818	0.0628	0.0690	0.0712	663	851
634	630/45	4.20	45.00	2.80	7.00	623.40	43.100	666.55	33.60	0.0456	160.50	2007	0.0512	0.0568	0.0586	742	957
654	630/55	4.12	48.00	3.20	7.00	639.90	56.300	696.22	34.32	0.0442	208.00	2141	0.0496	0.0550	0.0568	757	978
655	630/80	3.87	54.00	2.32	19.00	635.10	80.320	715.51	34.82	0.0442	214.90	2290	0.0487	0.0539	0.0557	767	992
738	720/50	4.53	45.00	3.02	7.00	725.20	50.140	775.41	36.20	0.0392	185.20	2335	0.0450	0.0493	0.0509	808	1048
828	800/55	4.80	45.00	3.20	7.00	814.30	56.300	870.60	38.40	0.0349	208.00	2622	0.0402	0.0445	0.0458	859	1121
826	800/70	4.63	48.00	3.60	7.00	808.10	71.250	879.41	38.58	0.0350	224.80	2704	0.0403	0.0446	0.0459	859	1121
820	800/100	4.33	54.00	2.60	19.00	795.10	100.880	896.05	38.98	0.0353	269.50	2868	0.0391	0.0433	0.0447	873	1139

JL/LB20A Q/TK 2901-2010

规格 Code	标称截面mm2 Nominal Area	铝线 Aluminium wire		铝包钢线 ACS		计算面积 Area			外径 Outer Diameter mm	20℃直流电阻（Ω/km）	计算拉断力 Rated Strength	计算重量 weight	40℃交流电阻AC at40℃	70℃交流电阻AC at70℃	80℃交流电阻AC at 80℃	70℃计算载流量 carrying capacity at70℃	80℃计算载流量 carrying capacity At80℃
	铝/钢Al/St	直径 Diameter mm	根数Nos	直径 Diameter mm	根数 Nos	铝Al	铝包钢 ACS	总计 Total	outer diameter mm	D.C. Resistance At 20℃	KN	kg/km	Ω/km	Ω/km	Ω/km	A	A
26	25/4	2.32	6.00	2.32	1.00	25.36	4.230	29.59	6.96	1.0709	9.51	97.50	1.1572	1.2867	1.3298		
36	35/6	2.72	6.00	2.72	1.00	34.86	5.810	40.67	8.16	0.7791	12.90	134.00	0.8419	0.9361	0.9675		
50	50/8	3.20	6.00	3.20	1.00	48.26	8.040	56.30	9.60	0.5629	17.61	185.40	0.6083	0.6763	0.699		
58	50/30	2.32	12.00	2.32	7.00	50.73	29.590	80.32	11.60	0.4753	44.39	336.00	0.5136	0.5711	0.5902		
71	70/10	3.80	6.00	3.80	1.00	68.05	11.340	79.39	11.40	0.3992	23.36	261.50	0.4314	0.4796	0.4957		
80	70/40	2.72	12.00	2.72	7.00	69.73	40.670	110.40	13.60	0.3458	60.66	461.80	0.3737	0.4155	0.4294		
98	95/15	2.15	26.00	1.67	7.00	94.40	15.330	109.73	13.61	0.2898	35.39	362.10	0.3132	0.3482	0.3599		
100	95/20	4.16	7.00	1.85	7.00	95.14	18.820	113.96	13.87	0.2831	37.81	386.00	0.3059	0.3401	0.3516		
111	95/55	3.20	12.00	3.20	7.00	96.51	56.300	152.81	16.00	0.2498	83.48	639.20	0.2699	0.3001	0.3102		
120	120/20	2.38	26.00	1.85	7.00	115.67	18.820	134.49	15.07	0.2365	42.83	443.90	0.2556	0.2842	0.2937	283	349
129	120/25	4.72	7.00	2.10	7.00	122.48	24.250	146.73	15.74	0.2199	48.70	497.10	0.2376	0.2642	0.2731	296	366
130	120/7	2.90	18.00	2.90	7.00	118.89	46.240	165.13	14.50	0.2141	28.14	633.50	0.2574	0.2862	0.2958	280	344
140	120/70	3.60	12.00	3.60	7.00	122.15	71.250	193.40	18.00	0.1974	100.80	809.00	0.2133	0.2372	0.2451	321	399
147	150/8	3.20	18.00	3.20	1.00	144.77	8.040	152.81	16.00	0.1952	33.53	451.70	0.2114	0.235	0.2429	315	389
150	150/20	2.78	24.00	1.85	7.00	145.67	18.820	164.49	16.67	0.1897	47.35	526.50	0.205	0.2279	0.2356	323	399
155	150/25	2.70	26.00	2.10	7.00	148.86	24.250	173.11	17.10	0.1838	54.41	571.50	0.1986	0.2208	0.2282	330	408
156	150/35	2.50	30.00	2.50	7.00	147.26	34.360	181.62	17.50	0.1818	67.00	579.90	0.1965	0.2184	0.2258	333	413
186	185/10	3.60	18.00	3.60	1.00	183.22	10.180	193.40	18.00	0.1543	40.92	571.70	0.1679	0.1865	0.1926	362	451
189	185/30	2.98	26.00	2.32	7.00	181.34	29.590	210.93	18.88	0.1508	66.34	696.60	0.1631	0.1814	0.1874	371	462
193	185/25	3.15	24.00	2.10	7.00	187.03	24.250	211.28	18.90	0.1478	59.96	676.60	0.16	0.1779	0.1839	375	467
196	185/45	2.80	30.00	2.80	7.00	184.73	43.100	227.83	19.60	0.1450	83.12	795.80	0.1568	0.1744	0.1802	381	476
207	210/10	3.80	18.00	3.80	1.00	204.14	11.340	215.48	19.00	0.1384	45.14	636.90	0.1508	0.1675	0.1729	387	482
216	210/25	3.33	24.00	2.22	7.00	209.02	27.100	236.12	19.98	0.1322	67.01	756.10	0.1433	0.1592	0.1645	401	501
220	210/35	3.22	26.00	2.50	7.00	211.73	34.36	246.09	20.38	0.1292	76.17	812.10	0.1402	0.1559	0.1609	407	509
221	210/50	2.98	30	2.98	7.00	209.24	48.820	258.06	20.86	0.1280	94.16	901.40	0.139	0.1546	0.1596	410	514
249	240/40	3.42	26.00	2.66	7.00	238.85	38.900	277.75	21.66	0.1145	86.09	917.00	0.1243	0.1381	0.1428	437	548
252	240/30	3.60	24.00	2.40	7.00	244.29	31.670	275.96	21.60	0.1131	77.09	883.70	0.1227	0.1363	0.1409	440	552
255	240/55	3.20	30.00	3.20	7.00	241.27	56.300	297.57	22.40	0.1110	107.40	1039.40	0.1207	0.134	0.1385	447	562
301	300/15	3.00	42.00	1.67	7.00	296.88	15.330	312.21	23.01	0.0956	68.87	921.20	0.1043	0.1157	0.1194	484	609
309	300/20	2.93	45.00	1.95	7.00	303.41	20.910	324.32	23.43	0.0930	76.67	976.40	0.1016	0.1126	0.1163	492	620

规格 Code	标称截面mm2 Nominal Area	铝线 Aluminium wire		铝包钢线 ACS		计算面积 Area			外径 Outer Diameter mm	20℃直流电阻（Ω/km）	计算拉断力 Rated Strength	计算重量 weight	40℃交流电阻AC at40℃	70℃交流电阻AC at70℃	80℃交流电阻AC at 80℃	70℃计算载流量 carrying capacity at70℃	80℃计算载流量 carrying capacity At80℃
	铝/钢Al/St	直径 Diameter mm	根数Nos	直径 Diameter mm	根数 Nos	铝Al	铝包钢 ACS	总计 Total	outer diameter mm	D.C. Resistance At 20℃	KN	kg/km	Ω/km	Ω/km	Ω/km	A	A
310	300/40	3.99	24.00	2.66	7.00	300.09	38.900	338.99	23.94	0.0921	94.69	1086.00	0.1002	0.1113	0.1149	497	627
312	300/50	3.83	26.00	2.98	7.00	299.55	48.820	348.37	24.26	0.0913	106.50	1150.00	0.0994	0.1104	0.1139	500	632
313	300/25	2.85	48.00	2.22	7.00	306.21	27.100	333.31	23.76	0.0916	84.58	1025.00	0.1002	0.1109	0.1145	497	627
323	300/70	3.60	30.00	3.60	7.00	305.37	71.250	376.62	25.20	0.0877	130.10	1316.00	0.0955	0.1061	0.1096	514	651
399	400/25	3.33	45.00	2.22	7.00	391.91	27.100	419.01	26.64	0.0720	97.19	1262.00	0.079	0.0878	0.0907	571	726
399	400/35	3.22	48.00	2.50	7.00	390.88	34.360	425.24	26.82	0.0718	105.70	1307.00	0.0789	0.0877	0.0905	572	727
412	400/20	3.51	42.00	1.95	7.00	406.40	20.910	427.31	26.91	0.0698	90.12	1260.00	0.0766	0.085	0.0878	582	739
413	400/50	3.07	54.00	3.07	7.00	399.72	51.820	451.54	27.63	0.0693	128.10	1448.00	0.0762	0.0847	0.0874	586	746
415	400/65	4.42	26.00	3.44	7.00	398.94	65.060	464.00	28.00	0.0686	140.60	1532.00	0.0749	0.0831	0.0858	593	755
431	400/95	4.16	30.00	2.50	19.00	407.75	93.270	501.02	29.14	0.0658	177.20	1746.00	0.0714	0.0792	0.0819	612	781
499	500/45	3.60	48.00	2.80	7.00	488.58	43.100	531.68	30.00	0.0574	129.90	1635.00	0.064	0.0707	0.0728	651	834
506	500/35	3.75	45.00	2.50	7.00	497.01	34.360	531.37	30.00	0.0568	120.80	1600.00	0.0626	0.0695	0.0718	657	840
518	500/65	3.44	54.00	3.44	7.00	501.88	65.060	566.94	30.96	0.0552	159.60	1818.00	0.062	0.0681	0.0703	667	856
635	630/45	4.20	45.00	2.80	7.00	623.45	43.100	666.55	33.60	0.0453	151.50	2007.00	0.0508	0.0564	0.0582	745	961
654	630/55	4.12	48.00	3.20	7.00	639.92	56.300	696.22	34.32	0.0438	169.90	2141.00	0.0491	0.0545	0.0563	761	982
655	630/80	3.87	54.00	2.32	19.00	635.19	80.320	715.51	34.82	0.0436	198.00	2290.00	0.048	0.0532	0.0549	772	998
738	720/50	4.53	45.00	3.02	7.00	725.27	50.140	775.41	36.20	0.0389	176.20	2335.00	0.0447	0.049	0.0505	811	1051
820	800/100	4.33	54.00	2.60	19.00	795.17	100.880	896.05	38.98	0.0349	248.30	2868.00	0.0387	0.0429	0.0442	878	1145
826	800/70	4.63	48.00	3.60	7.00	808.16	71.250	879.41	38.58	0.0347	210.50	2704.00	0.0399	0.0442	0.0455	863	1126
828	800/55	4.80	45.00	3.20	7.00	814.30	56.300	870.60	38.40	0.0347	197.80	2622.00	0.0399	0.0442	0.0455	862	1125

铝包钢芯铝合金绞线
Aluminium Alloy Conductor Aluminum-Clad Steel Reinforced



使用范围及主要特性

铝包钢芯铝合金绞线在长距离、大跨越、冰雪暴风地区等特殊地理环境的超高压输电中独占优势；在线路建设和改造中，是性能优越又经济耐用的优良产品。

Usage Scope and Main Characteristics

AACSR/AW enjoys exclusive advantages in EHV power transmission under special geographical environment, such as long distance, large span and snow and ice storm region. It is also an excellent product with superior performance and economic and durable advantages in line construction and re-construction.

生产执行标准

铝包钢芯铝合金绞线用铝包钢线执行GB/T17937-1999标准（等同采用IEC 61232：1993标准）

产品执行GB/T 1179-2008标准（等同采用IEC61089-1991标准）

Executive standard

Aluminium Alloy Conductor Aluminum-Clad Steel Reinforced adopts the standard of Aluminum-clad steel wire, GB/T17937-1999 (Equals to IEC 61232:1993 Standard).

Production executes GB/T 1179-2008 Standard. (Equals to IEC61089-1991 Standard)

铝包钢芯铝合金绞线(AACSR/AW)JLHA1/LB1A GB/T1179-2008 IEC61089-1991

标称截面 Nominal Section 铝/铝包钢 AL/ACS	钢比 Steel Ratio %	规格号 Size	面积 Area (mm2)	根数/单丝直径 Nos/Dia of Single Wire (Nos/mm)		直径 Diameter (mm)		重量 Weight kg/km	额定抗拉力 Rated Tensile strength KN	20℃直流电阻 20℃ DC Resistance (Ω/km)
			铝合金/钢 AA/Steel	铝合金 AA	铝包钢 ACS	芯线 Core Wire	绞线 Stranded Wire			
15/5	16.7	16	17.7/2.96	6/1.94	1/1.94	1.94	5.82	68.10	9.31	1.7691
25/5	16.7	25	27.7/4.62	6/2.42	1/2.42	2.41	7.26	106.40	14.54	1.1323
45/10	16.7	40	44.3/7.39	6/3.07	1/3.07	3.07	9.21	170.20	23.27	0.7077
70/10	16.7	63	69.8/11.6	6/3.85	1/3.85	3.85	11.60	268.00	34.79	0.4493
110/20	16.7	100	110/18.5	6/4.85	1/4.85	4.85	14.60	425.50	53.38	0.2831
143/5	5.6	125	143/7.94	18/3.18	1/3.18	3.18	15.90	445.50	55.97	0.2293
140/20	16.3	125	139/22.6	26/2.61	7/2.03	6.08	16.50	532.00	72.17	0.2279
185/10	5.6	160	183/10.2	18/3.60	1/3.60	3.60	18.00	570.30	69.21	0.1792
180/30	16.3	160	178/28.9	26/2.95	7/2.29	6.88	18.70	680.90	92.38	0.1781
230/15	5.6	200	229/12.7	18/4.02	1/4.02	4.02	20.10	712.80	86.00	0.1433
220/36	16.3	200	222/36.1	26/3.3	7/2.56	7.69	20.90	851.20	115.4	0.1424
282/30	9.8	250	282/27.7	22/4.04	7/2.25	6.74	22.90	961.70	122.25	0.1144
275/45	16.3	250	277/45.2	26/3.69	7/2.87	8.60	23.40	1064.00	141.5	0.1140
360/25	6.9	315	359/24.8	45/3.19	7/2.12	6.37	25.50	1154.60	146.3	0.0912
350/55	16.3	315	349/56.9	26/4.14	7/3.22	9.65	26.20	1340.60	178.30	0.0904
455/30	6.9	400	456/31.5	45/3.59	7/2.39	7.18	28.70	1466.10	181.32	0.0718
450/60	13.0	400	448/58.1	54/3.25	7/3.25	9.75	29.30	1621.60	215.22	0.0715
515/35	6.9	450	513/35.4	45/3.81	7/2.54	7.62	30.50	1649.40	203.99	0.0638
505/65	13.0	450	504/65.3	54/3.45	7/3.45	10.30	31.00	1824.30	240.8	0.0636
570/40	6.9	500	570/39.4	45/4.01	7/2.68	8.03	32.10	1832.60	226.6	0.0574
560/70	13.0	500	560/72.6	54/3.63	7/3.63	10.90	32.70	2027.00	259.0	0.0572
640/45	6.9	560	638/44.1	45/4.25	7/2.83	8.50	34.00	2052.60	253.8	0.0513
630/80	12.7	560	628/79.5	54/3.85	19/2.31	11.50	34.60	2261.60	293.0	0.0511
715/50	6.9	630	718/49.6	45/4.51	7/3.00	9.01	36.10	2309.10	285.58	0.0456
705/90	12.7	630	706/89.4	54/4.08	19/2.45	12.20	36.70	2544.30	329.6	0.0454
810/55	6.9	710	809/55.9	45/4.78	7/3.19	9.57	38.30	2602.30	321.8	0.0405
800/100	12.7	710	796/101	54/4.33	19/2.60	13.00	39.00	2867.40	371.5	0.0403
920/40	4.3	800	918/39.7	72/4.03	7/2.69	8.06	40.30	2798.80	336.7	0.0360
910/75	8.3	800	908/75.6	84/3.71	7/3.71	11.10	40.80	3010.00	369.1	0.0359
900/115	12.7	800	896/114	54/4.60	19/2.76	13.80	41.40	3230.90	418.6	0.0358
1035/45	4.3	900	1033/44.6	72/4.27	7/2.85	8.55	42.70	3148.60	378.9	0.0320
1020/85	8.3	900	1021/85.1	84/3.90	7/3.93	11.80	43.20	3386.30	415.2	0.0319
1150/50	4.3	1000	1148/49.6	72/4.50	7/3.00	9.01	45.00	3498.50	420.9	0.0288
1290/55	4.2	1120	1286/54.3	72/4.77	19/1.91	9.54	47.70	3912.30	470.1	0.0257
1270/105	8.1	1120	1271/104	84/3.90	19/2.63	13.20	48.30	4202.70	524.73	0.0257
1435/60	4.2	1250	1435/60.6	72/5.04	19/2.01	10.10	50.40	4366.40	524.60	0.0231
1420/115	8.1	1250	1419/116	84/4.64	19/2.78	13.90	51.00	4690.50	585.6	0.0230

AACSR/AW铝包钢芯铝合金绞线 JLHA2/LB1A GB/T 1179-2008 IEC61089-1991

标称截面 Nominal Section 铝/铝包钢 AL/ACS	钢比 Steel Ratio %	规格号 Size	面积 Area (mm2)	根数/单丝直径 Nos/Dia of Single Wire (Nos/mm)		直径 Diameter (mm)		重量 Weight kg/km	额定抗拉力 Rated Tensile strength KN	20℃直流电阻 20℃ DC Resistance (Ω/km)
			铝合金/钢 AA/Steel	铝合金 AA	铝包钢 ACS	芯线 Core Wire	绞线 Stranded Wire			
15/5	16.7	16	17.6/2.93	6/1.93	1/1.93	1.93	5.79	67.50	8.7	1.7694
25/5	16.7	25	27.5/4.58	6/2.41	1/2.41	2.41	7.23	105.40	13.59	1.1324
45/10	16.7	40	43.9/7.32	6/3.05	1/3.05	3.05	9.15	168.70	21.74	0.7077
70/10	16.7	63	69.2/11.5	6/3.83	1/3.83	3.83	11.50	265.60	33.09	0.4494
110/20	16.7	100	110/18.3	6/4.83	1/4.83	4.83	14.50	421.60	50.70	0.2831
140/10	5.6	125	142/7.87	18/3.16	1/3.16	6.16	15.80	441.40	51.21	0.2293
135/20	16.3	125	137/22.4	26/2.59	7/2.02	6.05	16.40	527.20	67.40	0.2279
180/10	5.6	160	181/10.1	18/3.58	1/3.58	3.58	17.90	565.00	64.94	0.1792
175/30	16.3	160	176/28.6	26/2.93	7/2.28	6.85	18.60	674.80	86.27	0.1781
227/10	5.6	200	227/12.6	18/4.00	1/4.00	4.00	20.00	706.20	80.67	0.1433
220/35	16.3	200	220/35.8	26/3.28	7/2.55	7.66	20.80	843.50	107.8	0.1425
280/30	9.8	250	280/27.5	22/4.02	7/2.24	6.71	22.80	952.90	115.53	0.1144
275/45	16.3	250	275/44.8	26/3.67	7/2.85	8.56	23.20	1054.40	134.7	0.1140
355/25	6.9	315	355/24.6	45/3.17	7/2.11	6.34	25.40	1143.90	134.3	0.0912
345/55	16.3	315	346/56.4	26/4.12	7/3.20	9.61	26.10	1328.50	169.84	0.0904
450/30	6.9	400	451/31.2	45/3.57	7/2.38	7.15	28.60	1452.50	170.62	0.0718
445/60	13.0	400	444/57.5	54/3.23	7/3.23	9.70	29.10	1606.80	199.94	0.0715
560/35	6.9	450	508/35.1	45/3.79	7/2.53	7.58	30.30	1634.10	191.94	0.0638
500/65	13.0	450	499/64.7	54/3.43	7/3.43	10.30	30.90	1807.70	223.6	0.0636
565/40	6.9	500	564/39	45/4.00	7/2.66	7.99	32.00	1815.70	213.2	0.0574
555/70	13.0	500	555/71.9	54/3.62	7/3.62	10.80	32.60	2008.50	245.6	0.0572
630/45	6.9	560	632/43.7	45/4.23	7/2.82	8.46	33.80	2033.60	238.8	0.0513
630/75	12.7	560	622/78.8	54/3.83	19/2.30	11.50	34.50	2241.00	277.9	0.0511
710/50	6.9	630	711/49.2	45/4.49	7/2.99	8.97	35.90	2287.80	268.72	0.0456
700/90	12.7	630	700/88.6	54/4.06	19/2.44	12.20	36.50	2521.10	312.6	0.0454
800/55	6.9	710	801/55.4	45/4.76	7/3.17	9.52	38.10	2578.30	302.8	0.0405
790/100	12.7	710	788/99.9	54/4.31	19/2.59	12.90	38.80	2841.30	352.3	0.0403
910/40	4.3	800	909/39.3	72/4.01	7/2.67	8.02	40.10	2772.70	315.4	0.0360
900/75	8.3	800	899/74.9	84/3.69	7/3.69	11.10	40.60	2982.30	347.7	0.0359
890/115	12.7	800	888/113	54/4.58	19/2.75	13.70	41.20	3201.50	397.0	0.0358
1025/45	4.3	900	1023/44.2	72/4.25	7/2.84	8.51	42.50	3119.30	354.89	0.0320
1015/85	8.3	900	1012/84.3	84/3.92	7/3.92	11.70	43.10	3355.10	391.1	0.0319
1140/50	4.3	1000	1137/49.1	72/4.48	7/2.99	8.97	44.80	3465.90	394.3	0.0288
1275/55	4.2	1120	1274/53.8	72/4.75	19/1.90	9.49	47.50	3875.80	440.2	0.0257
1260/100	8.1	1120	1260/103	84/4.37	19/2.62	13.10	48.10	4164.00	494.7	0.0257
1420/60	4.2	1250	1421/60	72/5.01	19/2.01	10.00	50.10	4325.60	491.3	0.0231
1405/115	8.1	1250	1406/114	84/4.62	19/2.77	13.80	50.80	4647.30	552.1	0.0230

镀锌钢绞线
Galvanized Steel Stranded Wire

镀锌钢绞线适用于吊架、悬挂、通讯电缆、架空电力线以及固定物件、栓系等。

Galvanized steel stranded wire is suitable for hanger, suspension and communication cable, over-head power transmission line, fixed object and driftbolt, etc.

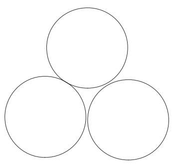
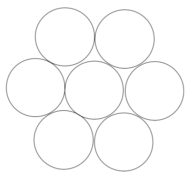
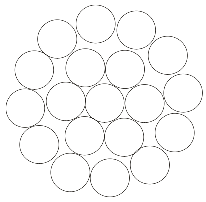
生产执行标准

YB/T 5004-1993
YB/T 183-2000
GB 1200-1988
GB/T 3428-2002
GB/T 1179-2008 Eqv. IEC61089-1991

Executive standard

YB/T 5004-1993
YB/T 183-2000
GB 1200-1988
GB/T 3428-2002
GB/T 1179-2008 Eqv. IEC61089-1991

镀锌钢绞线结构：Structure of Galvanized Steel Stranded Wire

断面 Section			
结构 Structure	1×3	1×7	1×19

镀锌钢绞线公称抗拉强度分为：1175、1270、1370、1470和1570N/mm2 5级

The tensile strength intensity of Stranded galvanized steel wire is divided into 5 grades, ie.1175,1270,1370,1470 and 1570N/ mm2.

钢绞线内钢丝锌层级别Zinc coating grade of inner steel wire of Galvanized Steel Stranded Wire

锌层级别 Zinc Coating Grade	A	B	C
锌层厚度 Zinc Coating Thickness	特厚 Extra Thick	厚 Thick	薄 Thin

钢绞线内钢丝力学性能Mechanical performance of inner steel wire of Galvanized Steel Stranded Wire

钢丝直径 Steel Dia	直径允许误差 Tolerance	抗拉强度Tensile Strength Intensity N/mm2					伸长率Elongation L=200mm %		360° 扭转次数 Torsion frequency L=100d		
							抗拉强度Tensile Strength Intensity N/mm2				
							1175、1270	1370、1470、1570	1175、1270	1370、1470	1570
mm		不小于 Not Less Than					不小于 Not Less Than				
1.00	±0.05						2.0	2.0	18	16	14
1.20	±0.05						2.0	2.0	18	16	14
1.40	±0.05						2.0	2.0	18	16	14
1.60	±0.05						2.0	2.0	18	16	14
1.80	±0.06						3.0	3.0	16	14	12
2.00	±0.06						3.0	3.0	16	14	12
2.30	±0.06	1175	1270	1370	1470	1570	3.0	3.0	16	14	12
2.60	±0.08						3.0	3.0	16	14	12
2.90	±0.08						3.0	3.0	14	12	10
3.20	±0.08						4.0	3.5	14	12	10
3.50	±0.10						4.0	3.5	14	12	10
3.80	±0.10						4.0	3.5	14	12	10
4.00	±0.10						4.0	3.5	14	12	10

钢丝直径 Steel Wire Diametter mm	锌层重量Zinc Coating Weight g/mm2 不小于			缠绕试验芯杆直径为钢丝直径倍数 Multiples of Winding Test Core Tod Diameter to Steel Wire
	A	B	C	
1.00	160	110	80	热镀锌时为12倍 12times when hot galvanizing 电镀锌时为5倍 5times when electrogalvanizing
1.20	160	110	80	
1.40	160	130	90	
1.60	180	130	90	
1.80	180	160	110	
2.00	200	160	110	热镀锌时为14倍 14times when hot galvanizing 电镀锌时为5倍 5times when electrogalvanizing
2.30	220	200	140	
2.60	220	200	140	
2.90	-	230	160	
3.20	-	230	160	
3.50	-	250	175	
3.80	-	250	175	
4.00	-	250	175	

JG1A 、 JG1B、 JG2A 、JG2B

标称截面 钢 Nominal Section	规格 号 Size	面积 Area mm2	单线根 数 No.s of Single wire	直径 Diameter mm		重量 Weight kg/km	额定拉断力 Rated Tensile Strength kN				直流电阻 DC Resistance （20℃） （Ω/km）
				单线 Single Wire	绞线 Strands		JG1A	JG1B	JG2A	JG3A	
30	4	27.1	7	2.22	6.66	213.3	36.3	33.6	39.3	43.9	7.1445
40	6.3	42.7	7	2.79	8.36	335.9	55.9	51.7	60.2	67.9	4.5362
65	10	67.8	7	3.51	10.53	533.2	87.4	80.7	93.5	103.0	2.8578
85	12.5	84.7	7	3.93	11.78	666.5	109.3	100.8	116.9	128.8	2.2862
100	16	108.4	7	4.44	13.32	853.1	139.9	129.0	199.7	164.8	1.7861
100	16	108.4	19	2.70	13.48	857.0	412.1	131.2	152.9	172.4	1.7944
150	25	169.4	19	3.37	16.85	1339.1	218.6	201.6	238.9	262.6	1.1484
250	40	271.1	19	4.26	21.31	2142.6	349.7	322.6	374.1	412.1	0.7177
250	40	271.1	37	3.05	21.38	2148.1	349.7	322.6	382.3	420.2	0.7196
400	63	427.0	37	3.83	26.83	3383.2	550.8	508.1	589.3	649.0	0.4569

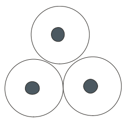
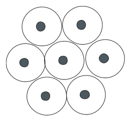
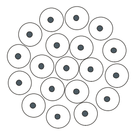
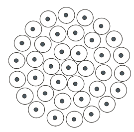
结构 Structure	钢丝直 径Dia of Steel Wire mm	钢绞线 直径 Strands Dia mm	钢绞线断面 积 Section of Strands Area mm2	公称抗拉强度 Nominal Tensile Strength Intensity N/mm2					参考重量 Reference Weight Kg/100m
				1175	1270	1370	1470	1570	
				钢丝破断拉力总和，kN 不小于 Total Breaking For KN Not Less Than					
1×3	2.90	6.2	19.82	23.29	25.17	27.15	29.14	31.12	15.99
	3.20	6.4	24.13	28.25	30.65	33.06	35.47	37.88	19.47
	3.50	7.5	28.86	33.91	36.65	39.54	42.43	45.31	23.29
	4.00	8.6	37.70	44.30	47.88	51.65	55.42	59.19	30.42
1×7	1.00	3.0	5.50	6.46	6.98	7.54	8.08	8.64	4.37
	1.20	3.6	7.92	9.31	10.06	10.85	11.64	12.43	6.29
	1.40	4.2	10.78	12.67	13.69	14.77	15.85	16.92	8.56
	1.60	4.8	14.07	16.53	17.87	19.28	20.68	22.09	11.17
	1.80	5.4	17.81	20.93	22.62	24.40	26.18	27.96	14.14
	2.00	6.0	21.99	25.84	29.73	30.13	32.32	34.52	17.46
	2.30	6.9	29.08	34.17	36.93	39.84	42.75	45.66	23.09
	2.60	7.8	37.17	43.60	47.20	50.92	54.63	58.35	29.51
	2.90	8.7	46.24	54.33	58.72	63.35	67.97	72.60	36.71
	3.20	9.6	56.30	66.15	71.50	77.13	82.76	88.39	44.70
	3.50	10.5	67.35	79.14	85.85	92.27	99.00	105.74	53.48
	3.80	11.4	79.39	93.28	100.82	108.76	116.70	124.64	63.04
	4.00	12.0	87.96	103.35	111.71	120.50	129.30	138.10	69.84
1×19	1.60	8.0	38.20	44.88	48.51	52.33	56.15	59.97	30.40
	.1.80	9.0	48.35	56.81	61.40	66.24	71.07	75.91	38.49
	2.00	10.0	59.69	70.14	75.81	81.78	87.74	93.71	47.51
	2.30	11.5	78.94	92.75	100.25	108.15	116.04	123.94	62.84
	2.60	13.0	100.88	118.53	128.12	138.20	148.29	158.38	80.30
	2.90	14.5	125.50	147.46	159.38	171.93	184.48	197.03	99.90
	3.20	16.0	152.81	179.55	194.06	209.35	224.63	239.91	121.64
	3.50	17.5	182.80	214.79	232.16	250.44	268.72	287.00	145.51
	4.00	20.0	238.76	280.54	303.23	327.10	350.98	374.86	190.05

铝包钢绞线
Aluminum-Clad Steel Stranded Conductor

铝包钢线是一种将铝连续均匀包覆在钢芯上的双金属线，它兼有导电性能好，耐腐蚀，高频传输性能好以及钢的强度高等优点。铝包钢芯铝绞线是将铝包钢线作加强芯和铝线绞合在一起的绞线，与普通钢芯铝绞线相比，导体重量轻5%，载流量提高2—3%；电力损耗减少4—6%；使用寿命长，而且不增加任何架设费用。它广泛适用于输电线路用导线，尤其是沿海地区，盐碱滩和三、四级污染工业区的输电线路和要求增大铝钢截面比的输配电线路用导线。

Aluminum-Clad Steel Stranded Conductor is a bi-metallic wire which steel wire is covered by Aluminum evenly with advantages of good electric conductivity, anti-corrosion, excellent high frequency transmission and high intensity. Aluminum-clad steel core aluminum stranded wire is a stranded wire which strands Aluminum-Clad Steel wire as reinforce core with aluminum wire. Compared with common Aluminum conductor steel re-inforced, Aluminum-Clad Steel Stranded Conductor has the following advantages: 5% weight reducing, 2-3% load increase, 4-6% electric loss reduction, longer life and no extra cost. It is widely used for electric transmission line conductors, especially for coastal areas, salt alkali beach, grade 3 or grade 4 polluted industrial zone and the place with requirement of enlarged Aluminum steel cross-section ratio.

铝包钢绞线Aluminum-Clad Steel Stranded Conductor

断面 Section				
结构 Structure	1×3	1×7	1×19	1×37

铝包钢绞线按导电率分为：20AC、23AC、27AC、30AC、33AC、40AC六个组别，其相应的导电率为20.3%、23%、27%、30%、33%和40%IACS.
铝包钢绞线的代号为：LBGJ

ACS conductor is divided into 6 groups, that is 20AC, 23AC, 27AC, 30AC, 33AC and 40AC, with corresponding conductivity of 20.3%, 23%, 27%, 30%, and 40% IACS. The code of ACS conductor is LBGJ.

产品执行标准

GB/T 1179-2008 IEC610898-1991 YB/T 124-1997

Production Executive Standard

GB/T 1179-2008 IEC610898-1991 YB/T 124-1997

铝包钢绞线ACS Conductor JLB1A、JLB1B
Concentric-Lay-Stranded Aluminum-Clad Steel Conductors
GB/T 1179-2008 IEC610898-1991

标称截面钢 Nominal Section Steel	规格号 Size	面积 Area mm2	单线根数 Single Line Nos	直径/mm Diameter		单位长度质量Weight （kg/km）		额定拉断力/kN Rated Breaking force		直流电阻 DC Resistance （20℃） Ω/km
				单线 Single Line	绞线 Strand	JLB1A	JLB1B	JLB1A	JLB1B	
15	4	12	7	1.48	4.43	80.1	79.4	16.08	15.84	7.1592
20	6.3	18.9	7	1.85	5.56	126.2	125.0	25.33	24.95	4.5455
30	10	30	7	2.34	7.01	200.3	198.5	40.20	39.60	2.8637
35	12.5	37.5	7	2.61	7.84	250.4	248.1	50.25	49.50	2.2910
50	16	48	7	2.95	8.86	320.5	248.1	64.32	63.36	1.7898
75	25	75	7	3.69	11.08	500.7	317.5	93.75	99.00	1.1455
120	40	120	7	4.67	14.02	801.2	496.2	132.00	158.40	0.7159
120	40	120	19	2.84	14.18	805.0	793.9	160.80	158.40	0.7194
200	63	189	19	3.56	17.79	1267.9	1256.4	240.03	249.48	0.4568
300	100	300	37	3.21	22.49	2017.3	1999.0	402.00	396.00	0.2884
350	125	375	37	3.59	25.15	2521.7	2498.3	476.25	495.00	0.2307
450	160	480	37	4.06	28.45	3227.7	3198.3	580.80	633.00	0.1803
600	200	600	37	4.54	31.81	4034.7	3997.9	684.00	792.00	0.1442
600	200	600	61	3.54	31.85	4040.6	4003.8	762.00	792.00	0.1444

铝包钢绞线JLB2
Concentric-Lay-Stranded Aluminum-Clad Steel Conductors
GB/T 1179-2008 IEC610898-1991

标称截面钢	规格号	面积/mm2	单线根数 n	直径/mm		单位长度质量 （kg/km）	额定抗拉力 kN	直流电阻 （20℃） Ω/km
				单线	绞线			
35	16	36.2	7	2.56	7.69	216.4	39.04	1.7896
55	25	56.5	7	3.21	9.62	338.2	61.00	1.1454
100	40	90.4	7	4.05	12.2	541.1	97.61	0.7159
100	40	90.4	19	2.46	12.3	543.7	97.61	0.7193
150	63	142	19	3.09	15.4	856.4	153.73	0.4567
220	100	226	37	2.79	19.5	1362.6	244.02	0.2884
300	125	282	37	3.12	21.8	1703.2	305.02	0.2307
350	160	362	37	3.53	24.7	2180.1	390.43	0.1803
450	200	452	37	3.94	27.6	2725.1	488.03	0.1442
450	200	452	61	3.07	27.6	2729.1	488.03	0.1444

Concentric-Lay-Stranded Aluminum-Clad Steel Conductors
ASTM B416 SI Unit

Size Designation	Number and Diameter of Individual Wires，Nos	mm	Conductor Diameter, mm	Min. Rated Breaking Strength, KN	Mass per unit length, kg/km	Max Resistance At 20℃，ohm/km	Nominal Cross Section，mm²
37No.5AWG	37	4.62	32.26	634.8	4169	0.1393	620.6
37No.6AWG	37	4.11	28.7	534.3	3306	0.1757	492.2
37No.7AWG	37	3.67	25.65	447.6	2622	0.2216	390.3
37No.8AWG	37	3.26	22.83	374.3	2080	0.2794	309.5
37No.9AWG	37	2.91	20.35	296.8	1649	0.3524	245.5
37No.10AWG	37	2.59	18.11	235.4	1308	0.4442	194.6
19No.5AWG	19	4.62	23.11	326.1	2128	0.2698	318.7
19No.6AWG	19	4.11	20.57	274.3	1687	0.3402	252.7
19No.7AWG	19	3.67	19.31	230	1338	0.4291	200.5
19No.8AWG	19	3.26	16.31	192.2	1062	0.541	159
19No.9AWG	19	2.91	14.53	152.4	841.9	0.6821	126.1
19No.10AWG	19	2.59	12.93	120.9	667.7	0.8302	99.94
7No.5AWG	7	4.62	13.87	120.2	781.1	0.7428	117.4
7No.6AWG	7	4.11	12.34	101	619.5	0.9196	93.1
7No.7AWG	7	3.67	11	84.73	491	1.1598	73.87
7No.8AWG	7	3.26	9.78	70.81	389.6	1.4626	58.56
7No.9AWG	7	2.91	8.71	56.14	308.9	1.8441	46.44
7No.10AWG	7	2.59	7.77	44.54	245.1	2.3254	36.83
7No.11AWG	7	2.3	6.91	35.32	194.3	2.9324	29.18
7No.12AWG	7	2.05	6.15	28.01	154.2	3.6975	23.16
3No.5AWG	3	4.62	9.96	54.36	334.1	1.6985	50.32
3No.6AWG	3	4.11	8.86	45.7	265	2.1417	39.9
3No.7AWG	3	3.67	7.9	38.32	210.1	2.7008	31.65
3No.8AWG	3	3.26	7.04	32.03	166.7	3.4055	25.1
3No.9AWG	3	2.91	6.27	25.4	132.1	4.2946	19.9
3No.10AWG	3	2.59	5.59	20.15	104.8	5.4166	15.78

Coefficient of Linear expansion   0.0000126/℃
Final modulus of elasticity 160Gpa
Temperature Coefficient of resistance 0.0036℃

铝包钢绞线 ACS Conductor Q/TK 2902-2010

导电率 Conductivity	标称面积 Nominal Area, mm2	结构 Structure	计算截面积 Calculated Area mm2			外径 Outer Dia.	最大直流电阻Max DC Resistance（20℃）	额定抗拉力 Rated Tensile Strength	计算质量 Calculated Weight
		根数/直径 Nos/Dia.	铝 Al	钢 Steel	总计 Total	mm	Ω/km	KN	kg/km
14%IACS	35	7/2.50	4.47	29.89	34.36	7.50	3.6200	49.17	247.80
	40	7/2.75	5.41	36.17	41.58	8.25	2.9914	59.50	299.90
	45	7/2.90	6.01	40.23	46.24	8.70	2.6899	66.17	333.50
	50	7/3.00	6.43	43.05	49.48	9.00	2.5138	70.81	356.80
	55	7/3.20	7.32	48.98	56.30	9.60	2.2093	78.54	406.00
	65	7/3.50	8.76	58.59	67.35	10.50	1.8468	93.95	485.70
	70	7/3.60	9.26	61.99	71.25	10.80	1.7457	97.47	513.80
	80	7/3.80	10.32	69.07	79.39	11.40	1.5667	108.60	572.50
	95	7/4.16	12.37	82.77	95.14	12.48	1.3074	130.20	686.10
	100	19/2.60	13.11	87.77	100.88	13.00	1.2378	144.40	730.40
	120	19/2.85	15.76	105.45	121.21	14.25	1.0302	173.50	877.60
	150	19/3.15	19.25	128.82	148.07	15.75	0.8433	206.60	1072.00
	185	19/3.50	23.76	159.04	182.80	17.50	0.6831	255.00	1324.00
	210	19/3.75	27.28	182.57	209.85	18.75	0.5951	287.10	1519.00
	240	19/4.00	31.04	207.72	238.76	20.00	0.5230	326.60	1729.00
	300	37/3.20	38.68	258.89	297.57	22.40	0.4221	415.10	2167.00
	380	37/3.60	48.96	327.66	376.62	25.20	0.3335	515.20	2743.00
	420	37/3.80	54.55	365.07	419.62	26.60	0.2993	574.10	3056.00
	465	37/4.00	60.44	404.52	464.96	28.00	0.2702	636.10	3386.00
	510	37/4.20	66.64	445.97	512.61	29.40	0.2450	701.30	3733.00
20.3%IACS	35	7/2.50	8.59	25.77	34.36	7.50	2.4927	41.44	228.70
	45	7/2.90	11.56	34.68	46.24	8.70	1.8522	55.77	307.80
	50	7/3.00	12.37	37.11	49.48	9.00	1.7310	59.67	329.30
	55	7/3.20	14.08	42.22	56.30	9.60	1.5213	67.90	374.70
	65	7/3.50	16.84	50.51	67.35	10.50	1.2717	76.98	448.30
	70	7/3.60	17.81	53.44	71.25	10.80	1.2021	81.44	474.20
	80	7/3.80	19.85	59.54	79.39	11.40	1.0788	89.31	528.40
	95	7/4.16	23.79	71.35	95.14	12.48	0.9002	101.00	633.20
	100	19/2.60	25.22	75.66	100.88	13.00	0.8524	121.70	674.10
	120	19/2.85	30.30	90.91	121.21	14.25	0.7094	146.20	810.00
	150	19/3.15	37.02	111.05	148.07	15.75	0.5807	178.60	989.40
	185	19/3.50	45.70	137.10	182.80	17.50	0.4704	208.90	1222.00
	210	19/3.75	52.46	157.39	209.85	18.75	0.4098	236.10	1402.00
	240	19/4.00	59.69	179.07	238.76	20.00	0.3601	260.00	1596.00
	300	37/3.20	74.39	223.18	297.57	22.40	0.2907	358.90	2000.00
	380	37/3.60	94.16	282.46	376.62	25.20	0.2297	430.50	2532.00
	420	37/3.80	104.91	314.71	419.62	26.60	0.2061	472.10	2821.00
	465	37/4.00	116.24	348.72	464.96	28.00	0.1860	493.80	3125.00
	510	37/4.20	128.15	384.46	512.61	29.40	0.1687	544.40	3446.00

铝包钢绞线 ACS Conductor Q/TK 2902-2010

导电率 Conductivity	标称面积 Nominal Area, mm2	结构 Structure	计算截面积 Calculated Area mm2			外径 Outer Dia., mm	最大直流电阻Max DC Resistance（20℃），Ω/km	额定抗拉力 Rated Tensile Strength, KN	计算质量 Calculated Weight, kg/km
		根数/直径 Nos/Dia	铝 Al	钢 Steel	总计 Total				
23%IACS	35	7/2.50	10.31	24.05	34.36	7.50	2.2034	37.73	217.60
	45	7/2.90	13.87	32.37	46.24	8.70	1.6373	50.77	292.80
	50	7/3.00	14.84	34.64	49.48	9.00	1.5301	54.33	313.30
	55	7/3.20	16.89	39.41	56.30	9.60	1.3448	61.82	356.50
	70	7/3.60	21.38	49.87	71.25	10.80	1.0626	78.23	451.20
	80	7/3.80	23.82	55.57	79.39	11.40	0.9536	87.17	502.80
	95	7/4.16	28.54	66.60	95.14	12.48	0.7958	104.50	602.50
	100	19/2.60	30.26	70.62	100.88	13.00	0.7535	110.80	641.40
	120	19/2.85	36.36	84.85	121.21	14.25	0.6271	133.10	770.60
	150	19/3.15	44.42	103.65	148.07	15.75	0.5133	162.60	941.40
	185	19/3.50	54.84	127.96	182.80	17.50	0.4158	200.70	1162.00
	210	19/3.75	62.96	146.89	209.85	18.75	0.3622	230.40	1334.00
	240	19/4.00	71.63	167.13	238.76	20.00	0.3184	262.20	1518.00
	300	37/3.20	89.27	208.30	297.57	22.40	0.2569	326.70	1903.00
	380	37/3.60	112.99	263.63	376.62	25.20	0.2030	413.50	2409.00
	420	37/3.80	125.89	293.73	419.62	26.60	0.1822	460.70	2684.00
	465	37/4.00	139.49	325.47	464.96	28.00	0.1644	510.50	2974.00
	510	37/4.20	153.78	358.83	512.61	29.40	0.1492	562.90	3278.00
	590	37/4.50	176.54	411.92	588.46	31.50	0.1299	646.10	3763.00
27%IACS	45	7/2.90	17.11	29.13	46.24	8.70	1.3949	44.95	276.00
	50	7/3.00	18.31	31.17	49.48	9.00	1.3035	48.09	295.40
	55	7/3.20	20.83	35.47	56.30	9.60	1.1456	54.72	336.10
	65	7/3.50	24.92	42.43	67.35	10.50	0.9577	65.46	402.00
	70	7/3.60	26.36	44.89	71.25	10.80	0.9052	69.26	425.30
	80	7/3.80	29.37	50.02	79.39	11.40	0.8124	77.17	473.90
	95	7/4.16	35.20	59.94	95.14	12.48	0.6779	92.48	567.90
	100	19/2.60	37.33	63.55	100.88	13.00	0.6419	98.06	604.50
	120	19/2.85	44.85	76.36	121.21	14.25	0.5342	117.80	726.40
	150	19/3.15	54.79	93.28	148.07	15.75	0.4373	143.90	887.30
	185	19/3.50	67.64	115.16	182.80	17.50	0.3542	177.70	1095.50
	210	19/3.75	77.64	132.21	209.85	18.75	0.3086	204.00	1257.60
	240	19/4.00	88.34	150.42	238.76	20.00	0.2712	232.10	1430.80
	300	37/3.20	110.10	187.47	297.57	22.40	0.2189	289.20	1793.80
	380	37/3.60	139.35	237.27	376.62	25.20	0.1730	366.10	2270.30
	420	37/3.80	155.26	264.36	419.62	26.60	0.1552	407.90	2529.60
	465	37/4.00	172.04	292.92	464.96	28.00	0.1404	451.90	2802.90
	510	37/4.20	189.67	322.94	512.61	29.40	0.1271	498.30	3090.10
	590	37/4.50	217.73	370.73	588.46	31.50	0.1107	572.00	3547.40
	670	37/4.80	247.73	421.81	669.54	33.60	0.0973	650.80	4036.10

铝包钢绞线 ACS Conductor Q/TK 2902-2010

导电率 Conductivity	标称面积 Nominal Area, mm2	结构 Structure	计算截面积 Calculated Area,mm2			外径 Outer Dia.	最大直流电阻Max DC Resistance（20℃）	额定抗拉力 Rated Tensile Strength	计算质量 Calculated Weight
		根数/直径 Nos/Dia	铝 Al	钢 Steel	总计 Total	mm	Ω/km	KN	kg/km
30%IACS	45	7/2.90	19.88	26.36	46.24	8.70	1.2553	36.62	262.00
	50	7/3.00	21.28	28.20	49.48	9.00	1.1731	39.19	280.40
	55	7/3.20	24.21	32.09	56.30	9.60	1.0310	44.59	319.00
	65	7/3.50	28.96	38.39	67.35	10.50	0.8618	53.34	381.60
	70	7/3.60	30.64	40.61	71.25	10.80	0.8147	56.43	403.70
	80	7/3.80	34.14	45.25	79.39	11.40	0.7311	62.88	449.80
	95	7/4.16	40.91	54.23	95.14	12.48	0.6101	75.35	539.10
	100	19/2.60	43.38	57.50	100.88	13.00	0.5777	79.90	573.90
	120	19/2.85	52.12	69.09	121.21	14.25	0.4808	96.00	689.50
	150	19/3.15	63.67	84.40	148.07	15.75	0.3936	117.30	842.30
	185	19/3.50	78.60	104.20	182.80	17.50	0.3188	144.80	1040.00
	210	19/3.75	90.23	119.62	209.85	18.75	0.2777	166.20	1194.00
	240	19/4.00	102.67	136.09	238.76	20.00	0.2441	189.10	1358.00
	300	37/3.20	127.96	169.61	297.57	22.40	0.1970	235.70	1703.00
	380	37/3.60	161.95	214.67	376.62	25.20	0.1556	298.30	2155.00
	420	37/3.80	180.44	239.18	419.62	26.60	0.1397	332.30	2401.00
	465	37/4.00	199.93	265.03	464.96	28.00	0.1261	368.30	2661.00
	510	37/4.20	220.42	292.19	512.61	29.40	0.1144	406.00	2933.00
	590	37/4.50	253.04	335.42	588.46	31.50	0.0996	466.10	3367.00
	670	37/4.80	287.90	381.64	669.54	33.60	0.0876	530.30	3831.00
35%IACS	50	7/3.00	25.73	23.75	49.48	9.00	1.0055	36.07	257.40
	55	7/3.20	29.28	27.02	56.30	9.60	0.8837	41.04	292.80
	65	7/3.50	35.02	32.33	67.35	10.50	0.7387	49.10	350.30
	70	7/3.60	37.05	34.20	71.25	10.80	0.6983	51.94	370.60
	80	7/3.80	41.28	38.11	79.39	11.40	0.6267	57.88	412.90
	95	7/4.16	49.47	45.67	95.14	12.48	0.5229	69.36	494.90
	100	19/2.60	52.46	48.42	100.88	13.00	0.4951	73.54	526.80
	120	19/2.85	63.03	58.18	121.21	14.25	0.4121	88.36	633.00
	150	19/3.15	77.00	71.07	148.07	15.75	0.3373	107.90	773.20
	185	19/3.50	95.06	87.74	182.80	17.50	0.2732	133.30	954.60
	210	19/3.75	109.12	100.73	209.85	18.75	0.2380	153.00	1096.00
	240	19/4.00	124.16	114.60	238.76	20.00	0.2092	174.10	1247.00
	300	37/3.20	154.74	142.83	297.57	22.40	0.1689	216.90	1563.00
	380	37/3.60	195.84	180.78	376.62	25.20	0.1334	274.60	1978.00
	420	37/3.80	218.20	201.42	419.62	26.60	0.1197	305.90	2204.00
	465	37/4.00	241.78	223.18	464.96	28.00	0.1081	339.00	2442.00
	510	37/4.20	266.56	246.15	512.61	29.40	0.0980	373.70	2693.00
	590	37/4.50	306.00	282.46	588.46	31.50	0.0854	429.00	3091.00
	670	37/4.80	348.16	321.38	669.54	33.60	0.0750	488.10	3517.00

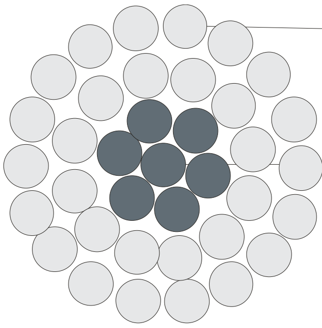
铝包钢绞线ACS Conductor Q/TK 2902-2010

导电率 Conductivity	标称面积 Nominal Area, mm2	结构 Structure	计算截面积 Calculated Area,mm2			外径 Outer Dia.	最大直流电阻Max DC Resistance（20℃）	额定抗拉力 Rated Tensile Strength	计算质量 Calculated Weight
		根数/直径 Nos/Dia	铝 Al	钢 Steel	总计 Total	mm	Ω/km	KN	kg/km
40%IACS	50	7/3.00	30.68	18.80	49.48	9.00	0.8798	30.28	231.90
	55	7/3.20	34.91	21.39	56.30	9.60	0.7732	34.46	263.80
	65	7/3.50	41.76	25.59	67.35	10.50	0.6463	41.22	315.60
	70	7/3.60	44.18	27.07	71.25	10.80	0.6110	43.61	333.90
	80	7/3.80	49.22	30.17	79.39	11.40	0.5483	48.59	372.10
	95	7/4.16	58.99	36.15	95.14	12.48	0.4575	58.23	445.90
	100	19/2.60	62.55	38.33	100.88	13.00	0.4332	61.74	474.60
	120	19/2.85	75.15	46.06	121.21	14.25	0.3606	74.18	570.30
	150	19/3.15	91.80	56.27	148.07	15.75	0.2952	90.62	696.70
	185	19/3.50	113.34	69.46	182.80	17.50	0.2391	111.90	860.10
	210	19/3.75	130.11	79.74	209.85	18.75	0.2083	128.40	987.30
	240	19/4.00	148.03	90.73	238.76	20.00	0.1830	146.10	1123.00
	300	37/3.20	184.49	113.08	297.57	22.40	0.1477	182.10	1408.00
	380	37/3.60	233.50	143.12	376.62	25.20	0.1176	230.50	1783.00
	420	37/3.80	260.16	159.46	419.62	26.60	0.1048	256.80	1986.00
	465	37/4.00	288.28	176.68	464.96	28.00	0.0946	284.60	2201.00
	510	37/4.20	317.82	194.79	512.61	29.40	0.0858	313.70	2426.00
	590	37/4.50	364.85	223.61	588.46	31.50	0.0747	360.10	2785.00
	670	37/4.80	415.11	254.43	669.54	33.60	0.0657	409.80	3169.00

物理常数参考值 Physical Constance Reference Value

导电率 Conductivity	综合弹性模量 overall elasticity modulus	综合线膨胀系数 Integrated linear expansion coefficient	电阻温度系数 resistance temperature coefficient
%IACS	Gpa	1/℃	1/℃
14	161.4	12.0*10-6	0.0034
20.3	147.2	13.0*10-6	0.0036
23	141.3	12.9*10-6	0.0036
27	133	13.4*10-6	0.0036
30	126	13.8*10-6	0.0038
35	115.3	14.5*10-6	0.0038
40	103.6	15.5*10-6	0.0040

钢芯耐热铝合金绞线
Heat-Resisting Aluminium Alloy Conductor Steel Reinforced



使用范围：

产品主要用于固定架空敷设交（直）流高、低压输配电力线路，导线传输容量（载体量）高，特别适用于窄通道、高容量输电及旧电网扩容改造工程。

Usage Scope

The product is used for fixing and overhead construction of AC(DC), High/Low Voltage electric transmission line with high transmission capacity or load capacity. It is particularly for electric transmission of narrow channel and high capacity and transformation project of old electric network expansion.

执行标准

铝包钢芯铝合金绞线用铝包钢线执行GB/T17937-1999标准（等同采用IEC 61232：1993标准）

产品执行GB/T 1179-2008标准（等同采用IEC61089-1991标准）

Executive Standard

AACSR adopts the standard of Aluminum-clad steel wire，GB/T17937-1999.(Equals to ICE 61232:1993 Standard)

Production executes GB/T 1179-2008 Standard. (Equals to IEC61089-1991 Standard)

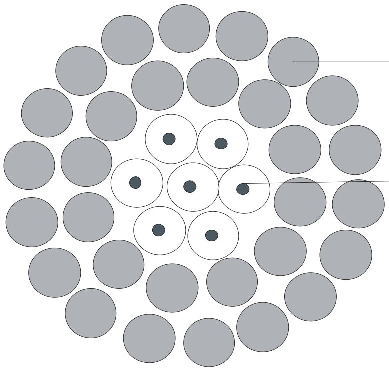
钢芯耐热铝合金绞线（58%IACS）AACSR/AW Q/TK 2903-2010

规格 Size	面积Area（mm2）	根数/单丝直径（Nos/mm）		直径 Diameter（mm）		重量 Weight kg/km	额定抗拉力 Rated Tensile Strength （KN）					直流电阻 20℃ DC resistance Ω/km
	铝/钢 AL/Steel	铝 AL	钢 Steel	芯线 Wire	绞线 Strand		G1A	G1B	G2A	G2B	G3A	
46	48.25/8.04	6/3.20	1/3.20	3.20	9.60	194.90	16.32	15.52	17.45	16.89	18.57	0.6253
65	68.05/11.34	6/3.80	1/3.80	3.80	11.40	274.90	23.14	21.89	23.82	23.02	25.74	0.4434
66	69.73/40.67	12/2.72	7/2.72	8.16	13.60	510.90	57.52	54.67	63.21	60.37	68.50	0.437
90	95.14/18.82	7/4.16	7/1.85	5.55	13.87	408.00	36.29	34.97	38.93	37.61	41.56	0.3171
92	96.51/56.30	12/3.20	7/3.20	9.60	16.00	707.20	76.89	71.26	84.77	80.83	92.65	0.3157
113	118.9/6.61	18/2.90	1/2.90	2.90	14.50	379.20	26.56	26.10	27.48	27.02	28.34	0.255
116	122.5/24.25	7/4.72	7/2.10	6.30	15.74	525.40	46.74	45.05	50.14	48.44	53.53	0.2463
116	122.2/71.25	12/3.60	7/3.60	10.80	18.00	895.00	98.02	90.18	102.30	97.31	114.40	0.2494
138	144.8/8.04	18/3.2	1/3.20	3.20	16.00	461.70	31.28	30.48	32.41	31.84	33.53	0.2095
139	145.7/18.82	24/2.78	7/1.85	5.55	16.67	550.60	45.33	44.01	47.96	46.65	50.60	0.2092
174	183.2/10.18	18/3.60	1/3.60	3.60	18.00	584.30	39.70	38.58	40.31	39.60	42.04	0.1655
178	187.0/24.25	24/3.15	7/2.10	6.30	18.90	707.60	57.36	55.66	60.76	59.06	64.15	0.1629
172	181.3/29.59	26/2.98	7/2.32	6.96	18.88	733.50	62.75	60.68	66.89	64.82	70.74	0.168
194	204.1/11.34	18/3.8	1/3.80	3.80	19.00	651.10	44.23	42.98	44.91	44.12	46.84	0.1485
199	209.0/27.10	24/3.33	7/2.22	6.66	19.98	790.80	64.11	62.21	67.90	66.00	71.69	0.1458
201	211.7/34.36	26/3.22	7/2.50	7.50	20.38	855.00	71.99	69.58	76.80	74.39	81.27	0.1439
199	209.2/48.82	30/2.98	7/2.98	8.94	20.86	962.50	89.13	85.72	95.97	92.55	102.30	0.146
232	244.3/31.67	24/3.60	7/2.40	7.20	21.60	924.20	73.97	71.75	78.40	76.19	82.52	0.1247
227	238.8/38.90	26/3.42	7/2.66	7.98	21.66	965.60	81.37	78.64	86.81	84.09	91.87	0.1276
229	241.3/56.30	30/3.20	7/3.20	9.60	22.40	1109.90	99.30	93.70	107.20	103.30	115.10	0.1266
282	296.9/15.33	42/3.00	7/1.67	5.01	23.01	942.30	65.44	64.36	67.58	66.51	69.73	0.1026
288	303.4/20.91	45/2.93	7/1.95	5.85	23.43	1004.00	73.01	71.55	75.94	74.48	78.87	0.1004
291	306.2/27.10	48/2.85	7/2.22	6.66	23.76	1060.00	80.70	78.80	84.49	82.60	88.29	0.0995
285	300.1/38.90	24/3.99	7/2.66	7.98	23.94	1135.00	90.86	88.14	96.31	93.58	101.40	0.1015
285	299.5/48.82	26/3.83	7/2.98	8.94	24.26	1211.00	102.10	98.70	108.90	105.50	115.30	0.1017
290	305.4/71.25	30/3.60	7/3.60	10.80	25.20	1405.00	126.40	118.60	130.70	125.70	142.80	0.1
386	406.4/20.91	42/3.51	7/1.95	5.85	26.90	1289.00	87.46	85.99	90.38	88.92	93.31	0.075
373	391.9/27.10	45/3.33	7/2.22	6.66	26.60	1298.00	92.45	90.56	96.25	94.35	100.00	0.0777
372	390.9/34.36	48/3.22	7/2.50	7.50	26.80	1351.00	99.80	97.35	104.60	102.20	109.00	0.078
380	399.7/51.82	54/3.07	7/3.07	9.21	27.60	1512.00	119.00	113.80	126.20	122.60	133.50	0.0762
379	398.9/65.06	26/4.42	7/3.44	10.30	28.00	1614.00	131.40	124.90	140.50	136.00	149.60	0.0764
388	407.8/93.27	30/4.16	19/2.50	12.50	29.10	1863.00	167.50	161.00	180.60	174.00	192.70	0.0749
473	497.0/34.36	45/3.75	7/2.50	7.50	30.00	1645.00	116.20	113.80	121.00	118.60	125.50	0.0613
465	488.6/43.1	48/3.60	7/2.80	8.40	30.00	1690.00	124.90	121.90	130.90	127.90	136.50	0.0624
477	501.9/65.06	54/3.44	7/3.44	10.30	31.00	1899.00	149.40	142.90	158.50	153.90	167.60	0.0607
593	623.5/43.10	45/4.20	7/2.80	8.40	33.60	2064.00	142.70	139.60	148.70	145.70	154.30	0.0489
608	639.9/56.30	48/4.12	7/3.20	9.60	34.30	2213.00	157.90	152.30	165.80	161.90	173.70	0.0476
604	635.2/80.32	54/3.87	19/2.32	11.60	34.80	2389.00	190.00	184.40	201.30	195.60	211.70	0.048
774	814.3/56.3	45/4.80	7/3.20	9.60	38.40	2696.00	184.10	178.50	192.00	188.00	199.80	0.0374
768	808.2/71.25	48/4.63	7/3.60	10.80	38.60	2796.00	200.30	192.50	204.60	199.60	216.70	0.0377
756	795.2/100.9	54/4.33	19/2.60	13.00	39.00	2993.00	234.30	227.20	248.40	241.30	261.50	0.0383
945	993.5/125.5	54/4.84	19/2.90	14.50	43.54	3735.00	292.10	283.30	309.70	300.90	326.00	0.0307
1368	1439/117.0	84/4.67	19/2.80	14.00	51.36	4921.00	349.20	341.00	365.60	357.40	380.80	0.0213

钢芯耐热铝合金绞线（60%IACS） AACSR Q/TK 2903-2010

规格 Size	面积Area（mm2）	根数/单丝直径（Nos/mm）		直径 Diameter，mm		重量 Weight kg/km	额定抗拉力 Rated Tensile Strength （KN）					直流电阻 DC resistance 20℃（Ω/km）
	铝/钢 AL/Steel	铝AL	钢 Steel	芯线 Wire	绞线 Strand		铝/钢 AL/Steel	铝 AL	钢 Steel	芯线 Wire	绞线 Strand	
47	48.25/8.04	6/3.20	1/3.20	3.20	9.60	194.90	16.320	15.52	17.45	16.89	18.57	0.6045
67	68.05/11.34	6/3.80	1/3.80	3.80	11.40	274.90	23.140	21.89	23.82	23.02	25.74	0.4286
69	69.73/40.67	12/2.72	7/2.72	8.16	13.60	510.90	57.520	54.67	63.21	60.37	68.50	0.4224
94	95.14/18.82	7/4.16	7/1.85	5.55	13.87	408.00	36.290	34.97	38.93	37.61	41.56	0.3066
95	96.51/56.30	12/3.20	3/3.20	9.60	16.00	707.20	76.890	71.26	84.77	80.83	92.65	0.3052
117	118.9/6.61	18/2.90	1/2.90	2.90	14.50	379.20	26.560	26.10	27.48	27.02	28.34	0.2465
120	122.5/24.25	7/4.72	7/2.10	6.30	15.74	525.40	46.740	45.05	50.14	48.44	53.53	0.2381
120	122.2/71.25	12/3.60	7/3.60	10.80	18.00	895.00	98.020	90.18	102.30	97.31	114.40	0.2411
142	144.8/8.04	18/3.20	1/3.20	3.20	16.00	461.70	31.280	30.48	32.41	31.84	33.53	0.2025
143	145.7/18.82	24/2.78	7/1.85	5.55	16.67	550.60	45.330	44.01	47.96	46.65	50.60	0.2022
180	183.2/10.18	18/3.60	1/3.60	3.60	18.00	584.30	39.700	38.58	40.31	39.60	42.04	0.16
184	187.0/24.25	24/3.15	7/2.10	6.30	18.90	707.60	57.360	55.66	60.76	59.06	64.15	0.1575
178	181.3/29.59	26/2.98	7/2.32	6.96	18.88	733.50	62.750	60.68	66.89	64.82	70.74	0.1624
201	204.1/11.34	18/3.80	1/3.80	3.80	19.00	651.10	44.230	42.98	44.91	44.12	46.84	0.1436
206	209.0/27.10	24/3.33	7/2.22	6.66	19.98	790.80	64.110	62.21	67.90	66.00	71.69	0.1409
208	211.7/34.36	26/3.22	7/2.50	7.50	20.38	855.00	71.990	69.58	76.80	74.39	81.27	0.1391
206	209.2/48.82	30/2.98	7/2.98	8.94	20.86	962.50	89.130	85.72	95.97	92.55	102.30	0.1411
240	244.3/31.67	24/3.60	7/2.40	7.20	21.60	924.20	73.970	71.75	78.40	76.19	82.52	0.1206
235	238.8/38.9	26/3.42	7/2.66	7.98	21.66	965.60	81.370	78.64	86.81	84.09	91.87	0.1233
237	241.3/56.3	30/3.20	7/3.20	9.60	22.40	1110.00	99.300	93.70	107.20	103.30	115.10	0.1224
292	296.9/15.33	42/3.00	7/1.67	5.01	23.01	942.30	65.440	64.36	67.58	66.51	69.73	0.0992
298	303.4/20.91	45/2.93	7/1.95	5.85	23.43	1004.00	73.010	71.55	75.94	74.48	78.87	0.0971
301	306.2/27.10	48/2.85	7/2.22	6.66	23.76	1060.00	80.700	78.80	84.49	82.60	88.29	0.0962
295	300.1/38.9	24/3.99	7/2.66	7.98	23.94	1135.00	90.860	88.14	96.31	93.58	101.40	0.0982
295	299.5/48.82	26/3.83	7/2.98	8.94	24.26	1211.00	102.100	98.70	108.90	105.50	115.30	0.0983
300	305.4/71.25	30/3.60	7/3.60	10.80	25.20	1405.00	126.400	118.60	130.70	125.70	142.80	0.0967
400	406.4/20.91	42/3.51	7/1.95	5.85	26.90	1289.00	87.460	85.99	90.38	88.92	93.31	0.0725
385	391.9/27.10	45/3.33	7/2.22	6.66	26.60	1297.00	92.450	90.56	96.25	94.35	100.00	0.0752
384	390.9/34.36	48/3.22	7/2.50	7.50	26.80	1351.00	99.800	97.35	104.60	102.20	109.00	0.0754
393	399.7/51.82	54/3.07	7/3.07	9.21	27.60	1512.00	119.000	113.80	126.20	122.60	133.50	0.0737
392	398.9/65.06	26/4.42	7/3.44	10.30	28.00	1613.00	131.400	124.90	140.50	136.00	149.60	0.0738
401	407.7/93.27	30/4.16	19/2.50	12.50	29.10	1862.00	167.500	161.00	180.60	174.00	192.70	0.0724
489	497.0/34.36	45/3.75	7/2.50	7.50	30.00	1645.00	116.200	113.80	121.00	118.60	125.50	0.0593
481	488.6/43.10	48/3.60	7/2.80	8.40	30.00	1690.00	124.900	121.90	130.90	127.90	136.50	0.0603
494	501.9/65.06	54/3.44	7/3.44	10.30	31.00	1899.00	149.400	142.90	158.50	153.90	167.60	0.0587
613	623.5/43.10	45/4.20	7/2.80	8.40	33.60	2064.00	142.700	139.60	148.70	145.70	154.30	0.0472
629	639.9/56.30	48/4.12	7/3.20	9.60	34.30	2213.00	157.900	152.30	165.80	161.90	173.70	0.046
625	635.2/80.32	54/3.87	19/2.32	11.60	34.80	2388.00	190.000	184.40	201.30	195.60	211.70	0.0464
801	814.3/56.30	45/4.80	7/3.20	9.60	38.40	2696.00	184.100	178.50	192.00	188.00	199.80	0.0362
795	808.2/71.25	48/4.63	7/3.60	10.80	38.60	2796.00	200.300	192.50	204.60	199.60	216.70	0.0364
782	795.2/100.9	54/4.33	19/2.60	13.00	39.00	2993.00	234.300	227.20	248.40	241.30	261.50	0.037
977	993.5/125.5	54/4.84	19/2.90	14.50	43.54	3735.00	292.100	283.30	309.70	300.90	326.00	0.0296
1415	1439/117.0	84/4.67	19/2.80	14.00	51.36	4921.00	349.200	341.00	365.60	357.40	380.80	0.0206

铝包钢芯耐热铝合金绞线
Heat Resisting Aluminum Alloy Conductor Aluminum-Clad Steel Reinforced



使用范围

城网增容改造、变电站建设、大跨越线路及一般线路。

Usage Scope

It is used for expansion and transformation of city electric networks, transformer substations construction, large span lines and general lines.

执行标准

铝包钢芯铝合金绞线用铝包钢线执行GB/T17937-1999标准（等同采用IEC 61232：1993标准）

产品执行GB/T 1179-2008标准（等同采用IEC61089-1991标准）

Executive Standard

AACSR adopts the standard of Aluminum-clad steel wire, GB/T17937-1999.(Equals to ICE 61232:1993 Standard)

Production executes GB/T 1179-2008 Standard. (Equals to IEC61089-1991 Standard)

铝包钢芯耐热铝合金绞线（58%IACS）Heat Resistance AACSR Q/TK 2904-2010

规格号 Size	面积Area（mm2）		根数/单丝直径（Nos/mm）		直径Diameter（mm）		重量Weight（kg/km）	额定抗拉力 Rated Tensile Strength（KN）	直流电阻DC Resistance 20℃（Ω/km）
	铝/铝包钢 AL/ACS		铝AL	铝包钢 ACS	芯线 Line	绞线 Strand			
48	48.25/8.04		6/3.2	1/3.20	3.20	9.60	185.40	17.130	0.5987
68	68.05/11.34		6/3.8	1/3.80	3.80	11.40	261.40	23.020	0.4245
76	69.73/40.67		12/2.72	7/2.72	8.16	13.60	462.30	59.960	0.3776
95	95.14/18.82		7/4.16	7/1.85	5.55	13.87	385.50	36.870	0.3012
106	96.51/56.30		12/3.20	7/3.20	8.60	16.00	639.90	82.520	0.2728
115	118.9/6.61		18/2.90	1/2.90	2.90	14.50	371.30	26.950	0.2513
123	122.5/24.25		7/4.72	7/2.10	6.30	15.74	496.50	47.470	0.2339
134	122.2/71.25		12/3.60	7/3.60	10.80	18.00	809.80	100.200	0.2155
140	144.8/8.04		18/3.20	1/3.20	3.20	16.00	452.10	32.090	0.2064
143	145.7/18.82		24/2.78	7/1.85	5.55	16.67	528.10	45.890	0.2022
177	183.2/10.18		18/3.60	1/3.60	3.60	18.00	572.20	40.000	0.1631
184	187.0/24.25		24/3.15	7/2.10	6.30	18.90	678.60	58.090	0.1574
180	181.3/29.59		26/2.98	7/2.32	6.96	18.88	698.20	64.520	0.1610
197	204.1/11.34		18/3.80	1/3.80	3.80	19.00	637.60	44.120	0.1463
206	209.0/27.10		24/3.33	7/2.22	6.66	19.98	758.40	64.920	0.1409
210	211.7/34.36		26/3.22	7/2.50	7.50	20.38	814.00	74.050	0.1379
211	209.2/48.82		30/2.98	7/2.98	8.94	20.86	904.10	92.060	0.1374
240	244.3/31.67		24/3.60	7/2.40	7.20	21.60	886.40	75.870	0.1205
237	238.8/38.9		26/3.42	7/2.66	7.98	21.66	919.10	83.700	0.1223
243	241.3/56.30		30/3.20	7/3.20	9.60	22.40	1043.00	105.000	0.1191
286	296.9/15.33		42/3.00	7/1.67	5.01	23.01	924.00	65.900	0.1012
294	303.4/20.91		45/2.93	7/1.95	5.85	23.43	979.00	73.640	0.0986
298	306.2/27.10		48/2.85	7/2.22	6.66	23.76	1028.00	81.510	0.0972
295	300.1/38.90		24/3.99	7/2.66	7.98	23.94	1089.00	93.190	0.0981
297	299.5/48.82		26/3.83	7/2.98	8.94	24.26	1153.00	105.000	0.0974
308	305.4/71.25		30/3.60	7/3.60	10.80	25.20	1320.00	131.400	0.0941
392	406.4/20.91		42/3.51	7/1.95	5.85	26.90	1264.00	88.080	0.0740
379	391.9/27.10		45/3.33	7/2.22	6.66	26.60	1265.00	93.270	0.0763
380	390.9/34.36		48/3.22	7/2.50	7.50	26.80	1310.00	101.800	0.0762
393	399.7/51.82		54/3.07	7/3.07	9.21	27.60	1450.00	124.100	0.0736
396	398.9/65.06		26/4.42	7/3.44	10.30	28.00	1536.00	137.900	0.0732
411	407.8/93.27		30/4.16	19/2.50	12.50	29.10	1751.00	173.100	0.0706
481	497.0/34.36		45/3.75	7/2.50	7.50	30.00	1604.00	118.300	0.0602
475	488.6/43.10		48/3.60	7/2.80	8.40	30.00	1639.00	127.500	0.0610
493	501.9/65.06		54/3.44	7/3.44	10.30	31.00	1821.00	155.900	0.0587
604	623.5/43.10		45/4.20	7/2.80	8.40	33.60	2013.00	145.200	0.0480
623	639.9/56.30		48/4.12	7/3.20	9.60	34.30	2145.00	163.600	0.0465
624	635.2/80.32		54/3.87	19/2.32	11.60	34.80	2292.00	194.800	0.0464
788	814.3/56.30		45/4.80	7/3.20	9.60	38.40	2629.00	189.700	0.0367
786	808.2/71.25		48/4.63	7/3.60	10.80	38.60	2711.00	205.300	0.0368
781	795.2/100.9		54/4.33	19/2.60	13.00	39.00	2872.00	240.300	0.0370
976	993.5/125.5		54/4.84	19/2.90	14.50	43.54	3585.00	299.600	0.0297
1397	1439/117.0		84/4.67	19/2.80	14.00	51.36	4781.00	356.200	0.0208

铝包钢芯耐热铝合金绞线（60%IACS）Heat Resistance AACSR Q/TK 2904-2010

规格号 Size	面积Area（mm2）	根数/单丝直径（Nos/mm）		直径Diameter（mm）		重量Weight（kg/km）	额定抗拉力 Rated Tensile Strength（KN）	直流电阻DC Resistance 20℃（Ω/km）
	铝/铝包钢 AL/ACS	铝 AL	铝包钢 ACS	芯线 core wire	绞线 Strand			
49	48.25/8.04	6/3.20	1/3.20	3.20	9.60	185.40	17.130	0.5796
70	68.05/11.34	6/3.80	1/3.80	3.80	11.40	261.40	23.020	0.4109
79	69.73/40.67	12/2.72	7/2.72	8.16	13.60	462.30	59.960	0.3667
98	95.14/18.82	7/4.16	7/1.85	5.55	13.87	385.50	36.870	0.2917
109	96.51/56.30	12/3.20	7/3.20	8.60	16.00	639.90	82.520	0.2649
119	118.9/6.61	18/2.90	1/2.90	2.90	14.50	371.30	26.950	0.2430
127	122.5/24.25	7/4.72	7/2.10	6.30	15.74	496.50	47.470	0.2265
138	122.2/71.25	12/3.60	7/3.60	10.80	18.00	809.80	100.200	0.2093
144	144.8/8.04	18/3.20	1/3.20	3.20	16.00	452.10	32.090	0.1996
148	145.7/18.82	24/2.78	7/1.85	5.55	16.67	528.10	45.890	0.1956
183	183.2/10.18	18/3.60	1/3.60	3.60	18.00	572.20	40.000	0.1577
190	187.0/24.25	24/3.15	7/2.10	6.30	18.90	678.60	58.090	0.1524
186	181.3/29.59	26/2.98	7/2.32	6.96	18.88	698.20	64.520	0.1558
204	204.1/11.34	18/3.80	1/3.80	3.80	19.00	637.60	44.120	0.1416
212	209.0/27.10	24/3.33	7/2.22	6.66	19.98	758.40	64.920	0.1363
217	211.7/34.36	26/3.22	7/2.50	7.50	20.38	814.00	74.050	0.1335
218	209.2/48.82	30/2.98	7/2.98	8.94	20.86	904.10	92.060	0.1330
248	244.3/31.67	24/3.60	7/2.40	7.20	21.60	886.40	75.870	0.1167
245	238.8/38.90	26/3.42	7/2.66	7.98	21.66	919.10	83.700	0.1183
251	241.3/56.30	30/3.20	7/3.20	9.60	22.40	1043.00	105.000	0.1154
296	296.9/15.33	42/3.00	7/1.67	5.01	23.01	924.00	65.900	0.0979
304	303.4/20.91	45/2.93	7/1.95	5.85	23.43	979.00	73.640	0.0954
308	306.2/27.10	48/2.85	7/2.22	6.66	23.76	1028.00	81.510	0.0940
305	300.1/38.90	24/3.99	7/2.66	7.98	23.94	1089.00	93.190	0.0950
307	299.5/48.82	26/3.83	7/2.98	8.94	24.26	1153.00	105.000	0.0943
318	305.4/71.25	30/3.60	7/3.60	10.80	25.20	1320.00	131.400	0.0912
405	406.4/20.91	42/3.51	7/1.95	5.85	26.90	1264.00	88.080	0.0715
392	391.9/27.10	45/3.33	7/2.22	6.66	26.60	1265.00	93.270	0.0739
393	390.9/34.36	48/3.22	7/2.50	7.50	26.80	1310.00	101.800	0.0737
406	399.7/51.82	54/3.07	7/3.07	9.21	27.60	1450.00	124.100	0.0713
409	398.9/65.06	26/4.42	7/3.44	10.30	28.00	1536.00	137.900	0.0708
424	407.8/93.27	30/4.16	19/2.50	12.50	29.10	1751.00	173.100	0.0683
497	497.0/34.36	45/3.75	7/2.50	7.50	30.00	1604.00	118.300	0.0590
491	488.6/43.10	48/3.60	7/2.80	8.40	30.00	1639.00	127.500	0.0568
510	501.9/65.06	54/3.44	7/3.44	10.30	31.00	1821.00	154.600	0.0564
624	623.5/43.10	45/4.20	7/2.80	8.40	33.60	2013.00	145.200	0.0464
644	639.9/56.30	48/4.12	7/3.20	9.60	34.30	2145.00	163.600	0.0450
645	635.2/80.32	54/3.87	19/2.32	11.60	34.80	2292.00	194.800	0.0449
815	814.3/56.30	45/4.80	7/3.20	9.60	38.40	2629.00	189.700	0.0356
813	808.2/71.25	48/4.63	7/3.60	10.80	38.60	2711.00	202.500	0.0356
807	795.2/100.9	54/4.33	19/2.60	13.00	39.00	2872.00	240.300	0.0358
1009	993.5/125.5	54/4.84	19/2.90	14.50	43.54	3585.00	299.600	0.0287
1444	1439/117.0	84/4.67	19/2.80	14.00	51.36	4781.00	356.200	0.0202