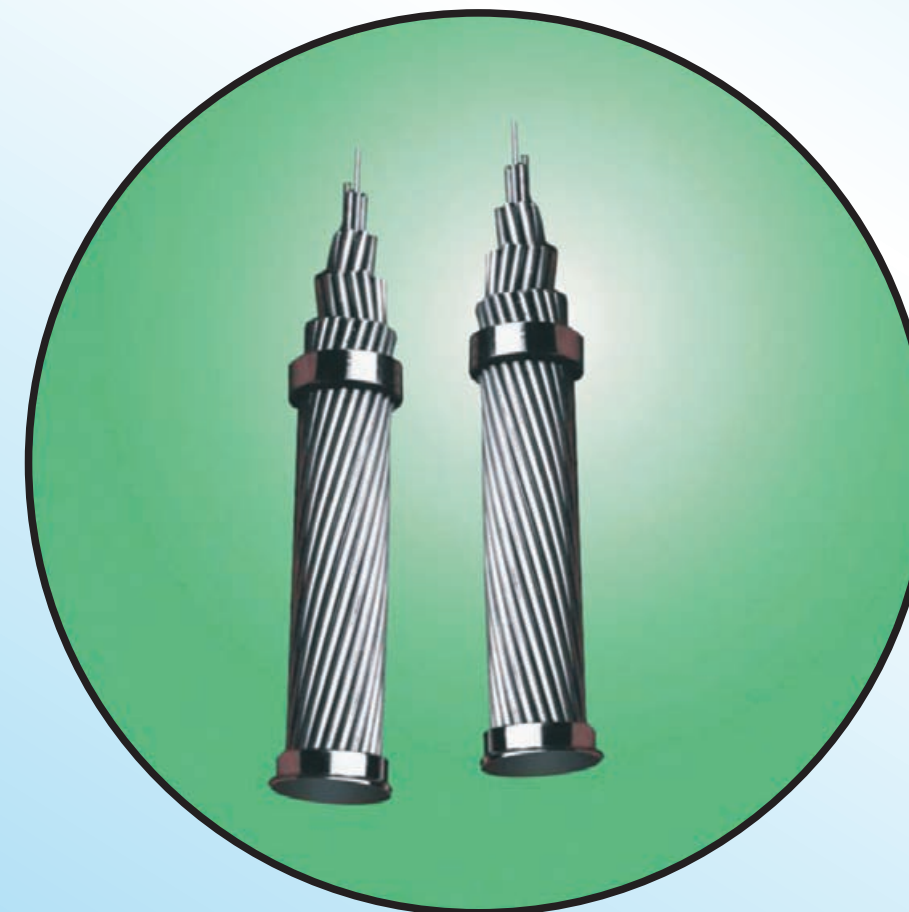


圆线同心绞架空导线 Concentric Stranded Round Wire Overhead Conductor

用于受力较大、跨距较小的一般配线路
以及高压或超高压、受力大、大跨距输配电线路。
The products could be applied to general power distribution lines
with stronger force and shorter span and to HV
or EHV power distribution and transmission lines
with stronger force and longer span.



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执行标准 Executive Standard

本产品按照GB/T1179-2008 (IEC61089)标准生产制造。

This product is manufactured as per GB/T1179-2008 (IEC61089) standard.

适用范围 Application Scope

1、铝绞线用在受力不大，跨距较小的一般输配电线路，固定敷设。

The product is applied to transmission and distribution lines and fixed installation with small strength and span.

2、钢芯铝绞线具有结构简单、线路造价低、架设与维修方便、传输容量大、有利于跨越江河及山谷等特殊地理条件的敷设等特点，适用于各种电压等级的架空输配电线路。

ACSR, which has the features as: simple structure, low-cost of lines, easy to be laid and repaired, large capacity of transmission, be good for the layer under special geographic conditions like the span over rivers and valleys, is suitable for overhead transmission and distribution lines.

使用特性 Operating Features

1、导线的额定电压取决于配合使用的绝缘子，架空导线理论上适用于1~220kV的电力系统。

Rated voltage of conductor depends on insulator. In theory, overhead conductor is applied to power system at rated voltage of 1~220kV.

2、导线的拉断力符合GB/T1179-2008规定。

Broken force of conductor is in accordance with GB/T1179-2008 standard.

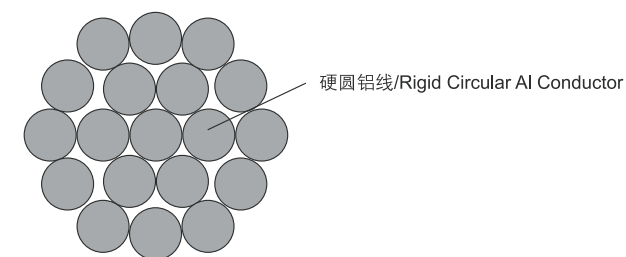
电缆的型号、名称和使用环境 Type, Description and Service Environment

型号 Type	名称 Description	使用环境 Service environment
JL	铝绞线Al stranded conductor	跨距较小的一般输配电线路 For general power distribution and transmission line with small span
JLHA1 JLHA2	铝合金绞线Al-alloyed Stranded Conductor	跨距较小的一般输配电线路 For general power distribution and transmission line with small span
JL/G1A JL/G1B JL/G2A JL/G2B JL/G3A	钢芯铝绞线 ACSR	各种电压等级的架空输配电线路 Overhead power distribution and transmission line of various voltage grade
JLHA1/G1A JLHA1/G1B JLHA1/G3A JLHA2/G1A JLHA2/G1B JLHA2/G3A	钢芯铝合金绞线 Steel Core Al-alloyed Stranded Conductor	各种电压等级的架空输配电线路 Overhead power distribution and transmission line of various voltage grade

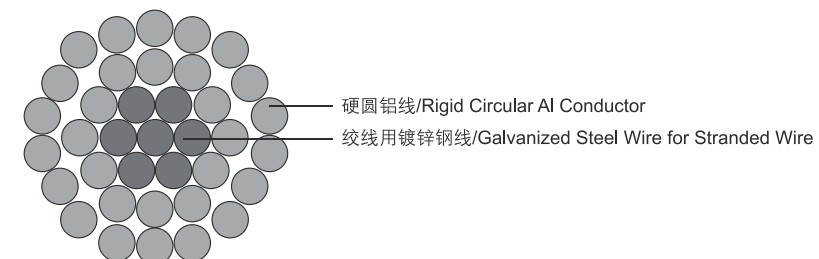
生产范围 Production Scope

序号 S.N	导体标称截面积 Nom. cross section of conductor	
	铝绞线/铝合金绞线 Al stranded conductor	钢芯铝绞线/钢芯铝合金绞线 ACSR/ Steel Core Al-alloyed Stranded Conductor
1	16	16/2、16/3
2	25	25/4
3	35	35/6
4	50	50/8、50/30
5	70	70/10、70/40
6	95	95/15、95/20、95/55
7	120	120/7、120/20、120/25、120/70
8	150	150/8、150/20、150/25、150/35
9	185	185/10、185/25、185/30、185/45
10	210	210/10、210/25、210/35、210/50
11	240	240/30、240/40、240/55
12	300	300/15、300/20、300/25、300/40、300/50
13	400	400/20、400/25、400/35、400/50、400/65、400/95
14	500	500/35、500/45、500/65
15	630	630/45、630/55、630/80
16	800	800/55、800/70、800/100

电缆结构图 Cable Drawings



铝绞线 Al stranded conductor



钢芯铝绞线/钢芯铝合金绞线 ACSR

圆线同心绞架空导线

Concentric Stranded Round Wire Overhead Conductor

主要试验项目及指标20℃时导电线芯最大直流电阻和额定抗拉力 Max. D.C Resistance of Conductor and Rated Tensile Force

1. 铝绞线和铝合金绞线 Al stranded wire and Al-alloy stranded wire

规格 Spec. mm ²	LJ		JLHA1		JLHA2	
	20℃导体电阻 resistance of conductor Ω/km	额定抗拉力 Rated tensile force kN	20℃导体电阻 resistance of conductor Ω/km	额定抗拉力 Rated tensile force kN	20℃导体电阻 resistance of conductor Ω/km	额定抗拉力 Rated tensile force kN
10	2.8633	1.95	1.7896	6.04	1.7896	5.43
16	1.7896	3.04	1.1453	9.44	1.1453	8.49
25	1.1453	4.50	0.7158	15.10	0.7158	13.58
40	0.7158	6.80	0.4545	23.06	0.4545	21.39
63	0.4545	10.39	0.2877	37.76	0.2877	33.95
100	0.2877	17.00	0.2302	47.20	0.2302	42.44
125	0.2302	21.25	0.1798	58.56	0.1798	54.32
160	0.1798	26.40	0.1439	73.20	0.1439	67.91
200	0.1439	32.00	0.1151	91.50	0.1151	84.88
250	0.1151	40.00	0.0916	115.29	0.0916	106.95
315	0.0916	51.97	0.0721	146.40	0.0721	135.81
400	0.0721	64.00	0.0641	164.70	0.0641	152.79
450	0.0641	72.00	0.0577	183.00	0.0577	169.76
500	0.0577	80.00	0.0516	204.96	0.0516	190.14
560	0.0515	89.60	0.0458	230.58	0.0458	213.90
630	0.0458	100.80	0.0407	259.86	0.0407	241.07
710	0.0407	113.60	0.0361	292.80	0.0361	271.62
800	0.0361	128.00	0.0321	329.40	0.0321	305.58
900	0.0321	144.00	0.0289	366.00	0.0289	339.53
1000	0.0289	160.00	0.0258	409.92	0.0258	380.27
1120	0.0258	179.20			0.0231	424.41
1250	0.0231	200.00				
1400	0.0207	224.00				
1500	0.0193	240.00				

2. 钢芯铝绞线ACSR

规格号 Spec.	额定抗拉力 Rated tensile force kN					直流电阻 D.C resistance Ω/km
	JL/G1A	JL/G1B	JL/G2A	JL/G2B	JL/G3A	
16	6.08	5.89	6.45	6.27	6.83	1.7934
25	9.13	8.83	9.71	9.42	10.25	1.1478
40	14.4	13.93	15.33	14.87	16.20	0.7174
63	21.63	20.58	22.37	21.63	24.15	0.4555
100	34.33	32.67	35.50	34.33	38.33	0.2869
125	29.17	28.68	30.14	29.65	31.04	0.2304
125	45.69	44.27	48.54	47.12	51.39	0.2310
160	36.18	35.29	37.42	36.8	38.67	0.1800
160	57.69	55.86	61.34	59.51	64.99	0.1805
200	44.22	43.11	45.00	44.22	46.89	0.1440
200	70.13	67.85	74.69	72.41	78.93	0.1444
250	68.72	67.01	72.16	70.44	75.60	0.1154

规格号 Spec.	额定抗拉力 Rated tensile force kN					直流电阻 D.C resistance Ω/km
	JL/G1A	JL/G1B	JL/G2A	JL/G2B	JL/G3A	
250	87.67	84.82	93.37	90.52	98.66	0.1155
315	79.03	77.51	82.08	80.55	85.13	0.0917
315	106.83	101.70	114.02	110.43	121.20	0.0917
400	98.36	96.42	102.23	100.29	106.10	0.0722
400	123.04	117.85	130.30	126.67	137.56	0.0723
450	107.47	105.29	111.82	109.64	115.87	0.0642
450	138.42	132.58	146.58	142.50	154.75	0.0643
500	119.41	116.99	124.25	121.83	128.74	0.0578
500	153.80	147.31	162.87	158.33	171.94	0.0578
560	133.74	131.03	139.16	136.45	144.19	0.0516
560	172.59	167.63	182.52	177.56	192.45	0.0516
630	150.45	147.40	156.55	153.50	162.21	0.0459
630	191.77	186.19	202.94	197.36	213.32	0.0459
710	169.56	166.12	176.43	172.99	182.81	0.0407
710	216.12	209.83	228.71	222.42	240.41	0.0407
800	167.41	164.99	172.25	169.83	176.74	0.0361
800	205.33	198.67	214.67	210.00	224.00	0.0362
800	243.52	236.43	257.71	250.61	270.88	0.0362
900	188.33	185.61	193.78	191.06	198.83	0.0321
900	226.50	219.00	231.75	226.50	244.50	0.0322
1000	209.26	206.23	215.31	212.28	220.93	0.0289
1120	234.53	231.22	241.15	237.84	247.77	0.0258
1120	283.17	276.78	295.94	289.55	307.79	0.0258
1250	261.75	258.06	269.14	265.44	273.53	0.0231
1250	316.04	308.91	330.29	323.16	343.52	0.0232

3. 钢芯铝合金绞线Steel Core Al-alloyed Stranded Conductor

规格号 Spec.	额定抗拉力 Rated tensile force kN			直流电阻 D.C resistance Ω/km	额定抗拉力 Rated tensile force kN			直流电阻 D.C resistance Ω/km
	JLHA1/G1A	JLHA1/G1B	JLHA1/G3A		JLHA2/G1A	JLHA2/G1B	JLHA2/G3A	
16	9.67	9.45	10.53	1.7934	9.02	8.81	9.88	1.793
25	14.96	14.62	16.27	1.1478	13.96	13.62	15.25	1.147
40	23.63	22.85	25.79	0.7174	22.02	21.25	24.17	0.717
63	36.48	35.26	39.41	0.4555	34.68	33.48	37.58	0.455
100	45.12	44.67	46.86	0.2880	41.24	40.79	42.97	0.288
125	56.08	55.27	58.34	0.2304	51.23	50.43	53.47	0.230
125	74.88	73.22	81.50	0.2310	69.86	68.22	76.42	0.231
160	69.92	68.89	72.40	0.1800	65.58	64.56	68.03	0.180
160	94.94	92.82	103.11	0.1805	88.52	86.42	96.61	0.180
200	87.40	86.11	90.50	0.1444	81.97	80.69	85.04	0.144
200	118.67	116.02	128.89	0.1444	110.64	108.02	120.77	0.144
250	124.02	122.02	131.72	0.1154	117.09	115.12	124.72	0.115
250	145.43	142.12	158.21	0.1155	138.31	135.03	150.96	0.115
315	148.56	146.78	155.64	0.0917	136.28	134.52	143.30	0.091
315	180.86	174.90	197.55	0.0917	171.90	166.00	188.44	0.091
400	183.03	180.78	191.71	0.0722	172.10	169.87	180.69	0.072
400	217.32	211.29	234.19	0.0723	201.46	195.49	218.17	0.072
450	205.91	203.38	215.67	0.0642	193.61	191.10	203.28	0.064
450	239.26	232.48	255.52	0.0643	226.64	219.93	245.44	0.064
500	228.79	225.98	239.63	0.0578	215.12	212.33	225.86	0.057
500	265.84	258.31	283.91	0.0578	251.82	244.36	269.73	0.057
560	256.24	253.09	268.39	0.0516	240.93	237.82	252.97	0.051
560	298.92	293.15	321.17	0.0516	9.02	8.81	9.88	1.793
630	266.64	264.42	275.18	0.0459	13.96	13.62	15.25	1.147
630	336.28	329.79	361.32	0.0459	22.02	21.25	24.17	0.717
710	300.50	298.00	310.12	0.0407	34.68	33.48	37.58	0.455
710	378.98	371.67	407.20	0.0407	41.24	40.79	42.97	0.288
800	338.59	335.78	349.43	0.0361	51.23	50.43	53.47	0.230
800	378.01	370.26	396.60	0.0362	69.86	68.22	76.42	0.231
900	380.91	377.75	393.11	0.0321	65.58	64.56	68.03	0.180
900	425.26	416.54	446.17	0.0322	88.52	86.42	96.61	0.180
1000	473.86	467.24	499.40	0.0289	81.97	80.69	85.04	0.144
1120	530.72	523.30	559.33	0.0258	110.64	108.02	120.77	0.144