



AACSR Aluminum Alloy Conductor Steel reinforced

CABLE STRUCTURE:

Steel core

Aluminium alloy strand

CODE DESIGNATION:

AACSR

STANDARD:

ASTM B711 DIN 48206 IEC 61089

APPLICATION:

AACSR is suitable for long-span medium-voltage, high-voltage and ultra-high-voltage overhead lines, For example, transmitting electricity in mountains, hills, or severely frozen areas. AACSR is highly strong, and is ideal for transmitting power over long spans or under very demanding mechanical conditions.

CERTIFICATES:

We hold SAA, CE, TUV and CCC certifications for our product categories. Additionally, we possess other authoritative certifications recognized in various countries and regions. For further details on our certification portfolio, please do not hesitate to contact us.



**AACSR Aluminum Alloy Conductor Steel reinforced****Specifications**

Nominal Area	Alloy Aera	Steel Area	Number of Alloy Wires	Diameter of Alloy wires	ASTM B711		Overall Diameter	Linear Mass	Rated strength	Max DC Resistance at 20°C
					Number of Steel Wires	Diameter of Steel Wires				
mm ²	mm ²	mm ²			mm		mm	kg/km	daN	Ω/km
163	140	23	26	2.62	7	2.04	16.6	560	7500	0.240
173	140	33	30	2.44	7	2.44	17.1	650	8740	0.240
186	160	26	26	2.80	7	2.18	17.1	645	8560	0.210
198	160	38	30	2.61	7	2.61	18.3	740	10600	0.210
209	180	29	26	2.97	7	2.31	18.8	725	9510	0.187
222	180	42	30	2.76	7	2.76	19.3	825	11200	0.187
232	200	32	26	3.13	7	2.43	19.8	800	10600	0.168
247	200	47	30	2.91	7	2.91	20.4	920	12400	0.168
260	224	36	26	3.31	7	2.57	21.0	900	11800	0.150
276	224	52	30	3.08	7	3.08	21.6	1025	13900	0.150
291	250	41	26	3.50	7	2.72	22.2	1010	12900	0.135
308	250	58	30	3.26	7	3.26	22.8	1145	15600	0.135
326	280	46	26	3.70	7	2.88	23.4	1140	14400	0.120
345	280	65	30	3.45	7	3.45	24.2	1280	17100	0.120
367	315	52	26	3.93	7	3.06	24.9	1276	16300	0.107
387	315	72	30	3.66	19	2.20	25.6	1433	19000	0.107
413	355	58	26	4.17	7	3.24	26.4	1433	18300	0.095
436	355	81	30	3.88	19	2.33	27.2	1614	21100	0.095
465	400	65	26	4.43	7	3.45	28.1	1612	20700	0.0842
491	400	91	30	4.12	19	2.47	28.8	1816	23700	0.0842
509	450	59	54	3.26	19	1.98	29.5	1703	21500	0.0748
563	500	63	54	3.43	19	2.06	30.9	1873	22900	0.0673
631	560	71	54	3.63	19	2.18	32.7	2101	25700	0.0601
710	630	80	54	3.85	19	2.31	34.6	2365	28600	0.0534
800	710	90	54	4.09	19	2.45	36.8	2665	32200	0.0474
901	800	101	54	4.34	19	2.60	39.0	3000	36300	0.0420
973	900	73	84	3.69	19	2.21	40.6	3062	35500	0.0374
1081	1000	81	84	3.89	19	2.33	42.8	3395	39100	0.0337
1211	1120	91	84	4.12	19	2.47	45.3	3803	43900	0.0300
1352	1250	102	84	4.35	19	2.61	47.8	4250	49000	0.0270



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Nominal Area	Alloy Area	Steel Area	Number of Alloy Wires	Diameter of Alloy wires	Number of Steel Wires	Diameter of Steel Wires	Overall Diameter	Linear Mass	Rated strength	Max DC Resistance at 20°C
mm ²	mm ²	mm ²				mm	mm	kg/km	daN	Ω/km
16/2.5	15.27	2.54	6	1.80	1	1.80	5.4	62	748	2.1800
25/4	23.86	3.98	6	2.25	1	2.25	6.8	97	1171	1.3952
35/6	34.35	5.73	6	2.70	1	2.70	8.1	140	1685	0.9689
44/32	43.98	31.67	14	2.00	7	2.40	11.2	373	5027	0.7625
50/8	48.25	8.04	6	3.20	1	3.20	9.6	196	2366	0.6898
50/30	51.17	29.85	12	2.33	7	2.33	11.7	378	5024	0.6547
70/12	69.89	11.4	26	1.85	7	1.44	11.7	284	3399	0.4791
95/15	94.39	15.33	26	2.15	7	1.67	13.6	383	4582	0.3547
95/55	96.51	56.3	12	3.20	7	3.20	16.0	714	9475	0.3471
105/75	105.67	75.55	14	3.10	19	2.25	17.5	899	12014	0.3174
120/20	121.57	19.85	26	2.44	7	1.90	15.5	494	5914	0.2754
120/70	122.15	71.25	12	3.60	7	3.60	18.0	904	11912	0.2742
125/30	127.92	29.85	30	2.33	7	2.33	16.3	590	7280	0.2621
150/25	148.86	24.25	26	2.70	7	2.10	17.1	604	7236	0.2249
170/40	171.77	40.08	30	2.70	7	2.70	18.9	794	9775	0.1952
185/30	183.78	29.85	26	3.00	7	2.33	19.0	744	8922	0.1822
210/35	209.1	34.09	26	3.20	7	2.49	20.3	848	10167	0.1601
210/50	212.06	49.48	30	3.00	7	3.00	21.0	979	12068	0.1581
230/30	230.91	29.85	24	3.50	7	2.33	21.0	874	10308	0.1449
240/40	243.05	39.49	26	3.45	7	2.68	21.8	985	11802	0.1378
265/35	263.66	34.09	24	3.74	7	2.49	22.4	998	11771	0.1269
300/50	304.26	49.48	26	3.86	7	3.00	24.5	1233	14779	0.1101
305/40	304.62	39.49	54	2.68	7	2.68	24.1	1155	13612	0.1101
340/30	339.29	29.85	48	3.00	7	2.33	25.0	1174	13494	0.0988
380/50	381.7	49.48	54	3.00	7	3.00	27.0	1448	17056	0.0879
385/35	386.04	34.09	48	3.2	7	2.49	26.7	1336	15369	0.0868
435/55	434.29	56.3	54	3.2	7	3.20	28.8	1647	19406	0.0772
450/40	448.71	39.49	48	3.45	7	2.68	28.7	1553	17848	0.0747
490/65	490.28	63.55	54	3.4	7	3.40	30.6	1860	21907	0.0684
550/70	549.65	71.25	54	3.6	7	3.60	32.4	2085	24560	0.0610
560/50	561.7	49.48	48	3.86	7	3.00	32.2	1943	22348	0.0597
680/85	678.58	85.95	54	4	7	2.40	36.0	2564	30084	0.0494



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IEC 61089										
Code Number	Alloy	Area		Stranding and Wire		Diameter		Linear Mass	Rated strength	Max DC Resistance at 20°C
		St.	Total	Alloy	St.	Core	Cond.			
		mm²	mm²	mm	mm	mm	mm			
16	18.4	3.07	21.5	6/1.98	1/1.98	1.98	5.93	74.4	9.02	1.7934
25	28.8	4.8	33.6	6/2.47	1/2.47	2.47	7.41	116.2	13.96	1.1478
40	46	7.67	53.7	6/3.13	1/3.13	3.13	9.38	185.9	22.02	0.7174
63	72.5	12.1	84.6	6/3.92	1/3.92	3.92	11.8	292.8	34.68	0.4555
100	115	6.39	121	18/2.85	1/2.85	2.85	14.3	366.4	41.24	0.2880
125	144	7.99	152	18/3.19	1/3.19	3.19	16	458.0	51.23	0.2304
125	144	23.4	167	26/2.65	7/2.06	6.19	16.8	579.9	69.86	0.2310
160	184	10.2	194	18/3.61	1/3.61	3.61	18	586.2	65.58	0.1800
160	184	30	214	26/3.00	7/2.34	7.01	19	742.3	88.52	0.1805
200	230	12.8	243	18/4.04	1/4.04	4.04	20.2	732.8	81.97	0.1440
200	230	37.5	268	26/3.36	7/2.61	7.83	21.3	927.9	110.64	0.1444
250	288	28.3	316	22/4.08	7/2.27	6.8	23.1	1013.5	117.09	0.1154
250	288	46.9	335	26/3.75	7/2.92	8.76	23.8	1159.6	138.31	0.1155
315	363	25.1	388	45/3.20	7/2.14	6.41	25.8	1196.5	136.28	0.0917
315	363	59	422	26/4.21	7/3.28	9.83	26.7	1461.4	171.90	0.0917
400	460	31.8	492	45/3.61	7/2.41	7.22	28.9	1519.4	172.10	0.0722
400	460	59.7	520	54/3.29	7/3.29	9.88	29.7	1738.3	201.46	0.0723
450	518	35.8	554	45/3.83	7/2.55	7.66	30.6	1709.3	193.61	0.0642
450	518	67.1	585	54/3.49	7/3.49	10.2	31.5	1955.6	226.64	0.0643
500	575	39.8	615	45/4.04	7/2.69	8.07	32.3	1899.3	215.12	0.0578
500	575	74.6	650	54/3.68	7/3.68	11.1	33.2	2172.9	251.82	0.0578
560	645	44.6	689	45/4.27	7/2.85	8.54	34.2	2127.2	240.93	0.0516
560	645	81.6	726	54/3.90	19/2.34	11.7	35.1	2420.9	283.21	0.0516
630	725	31.3	756	72/3.58	7/2.39	7.16	35.8	2248.0	249.62	0.0459
630	725	91.8	817	54/4.13	19/2.48	12.4	37.2	2723.5	318.61	0.0459
710	817	35.3	852	72/3.80	7/2.53	7.6	38	2533.4	281.32	0.0407
710	817	104	921	54/4.39	19/2.63	13.2	39.5	3069.4	359.06	0.0407
800	921	39.8	961	72/4.04	7/2.69	8.07	40.4	2854.6	316.98	0.0361
800	921	76.7	997	84/3.74	7/3.74	11.2	41.1	3145.1	356.03	0.0362
900	1036	44.8	1081	72/4.28	7/2.85	8.56	42.8	3211.4	356.60	0.0321
900	1036	86.3	1122	84/3.96	7/3.96	11.9	43.6	3538.3	400.53	0.0322
1000	1151	93.7	1245	84/4.18	19/2.61	12.5	45.9	3916.8	446.37	0.0289
1120	1289	105	1394	84/4.42	19/2.65	13.3	48.6	4386.8	499.93	0.0258