

**Aluminum-Alloy Conductor Steel Reinforced**

ASTM B711, Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy Conductors, Steel Reinforced (AACSR) (6201)

**Physical Properties**

Aluminum Alloy Conductor Section Area (mm <sup>2</sup> )	Steel Core Section Area (mm <sup>2</sup> )	Total Section Area (mm <sup>2</sup> )	Aluminum Alloy Strands	Single Aluminum Wire Diameter (mm)	Steel Core Strands	Single Steel Wire Diameter (mm)	Steel Core Diameter (mm)	Conductor Overall Diameter (mm)	Rated Strength (kN)	Weight (kg/km)
140	23	163	26	2.62	7	2.04	6.12	16.6	75	565
140	33	173	30	2.44	7	2.44	7.32	17.1	87.4	643
160	26	186	26	2.8	7	2.18	6.54	17.7	85.6	646
160	38	198	30	2.61	7	2.61	7.83	18.3	106	736
180	29	209	26	2.97	7	2.31	6.93	18.8	95.1	731
180	42	222	30	2.76	7	2.76	8.28	19.3	112	823
200	32	232	26	3.13	7	2.43	7.29	19.8	106	805
200	47	247	30	2.91	7	2.91	8.73	20.4	124	915
224	36	260	26	3.31	7	2.57	7.71	21	118	901
224	52	276	30	3.08	7	3.08	9.24	21.6	139	1025
250	41	291	26	3.5	7	2.72	8.16	22.2	129	1008
250	58	308	30	3.26	7	3.26	9.78	22.8	156	1149
280	46	326	26	3.7	7	2.88	8.64	23.4	144	1127
280	65	345	30	3.45	7	3.45	10.4	24.2	171	1286
315	52	367	26	3.93	7	3.06	9.18	24.9	163	1272
315	72	387	30	3.66	19	2.2	11	25.6	190	1438
355	58	413	26	4.17	7	3.24	9.72	26.4	183	1430
355	81	436	30	3.88	19	2.33	11.6	27.2	211	1614
400	65	465	26	4.43	7	3.45	10.4	28.1	207	1616
400	91	491	30	4.12	19	2.47	12.4	28.8	237	1818
450	59	509	54	3.26	19	1.98	9.9	29.5	215	1706
500	63	563	54	3.43	19	2.06	10.3	30.9	229	1878
560	71	631	54	3.63	19	2.18	10.9	32.7	257	2104
630	80	710	54	3.85	19	2.31	11.6	34.6	286	2365
710	90	800	54	4.09	19	2.45	12.2	36.8	322	2664
800	101	901	54	4.34	19	2.6	13	39	363	3003
900	73	973	84	3.69	19	2.21	11	40.6	355	3060
1000	81	1081	84	3.89	19	2.33	11.6	42.8	391	3400
1120	91	1211	84	4.12	19	2.47	12.4	45.3	439	3816
1250	102	1352	84	4.35	19	2.61	13	47.8	490	4255

**Table Notes**

1. Only those strandings with a relatively high steel content are listed. Other strandings are available by agreement between the purchaser and the producer.
2. Rated strengths are for AACSR/GA and AACSR/MA conductors. For other strength levels please contact our products and sales manager.
3. Mass applies to AACSR/GA, AACSR/MA, and AACSR/AZ conductors. Need additional information please contact our products and sales manager.

**Term Reference**

- AACSR/GA-AACSR—using Class A zinc-coated steel wire (B498/B498M).
- AACSR/GB-AACSR—using Class B zinc-coated steel wire (B498/B498M).
- AACSR/GC-AACSR—using Class C zinc-coated steel wire (B498/B498M).

*AACSR/AZ-AACSR—using aluminum-coated (aluminized) steel wire (B341/B341M).*

*AACSR/HS-AACSR—using extra high-strength steel wire (B606).*

*AACSR/AW-AACSR—using aluminum-clad steel wire (B502).*

*AACSR/MA—using Zn-5Al-MM coated steel core wire, coating Class A in accordance with Specification B802/B802M.*

*AACSR/MB—using Zn-5Al-MM coated steel core wire, coating Class B in accordance with Specification B802/B802M.*

*AACSR/MC—using Zn-5Al-MM coated steel core wire, coating Class C in accordance with Specification B802/B802M.*

*AACSR/MC—using high-strength Zn-5Al-MM coated steel core wire, coating Class A in accordance with Specification B803.*