

SPECIFICATIONS AND STANDARDS:



AACSR bare conductor meets or exceeds the following ASTM standards:

B-398 Specification for Aluminum Alloy 6201 J81 Wire for Electrical Purposes

B-711 Concentric Lay Stranded Conductors, Aluminum Alloy, Steel Reinforced (AACSR)

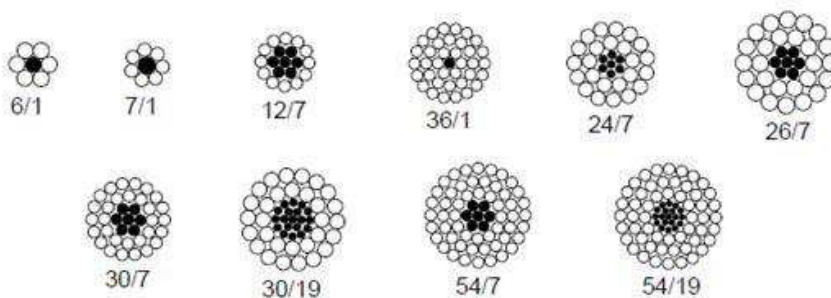
B-341 Aluminum Coated (Aluminized) Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR/AZ)

B-498 Zinc Coated Steel (Galvanized) Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)

B-500 Zinc Coated and Aluminum Coated Stranded Steel Core for Aluminum Conductors, Steel Reinforced (ACSR)

CONSTRUCTION:

AACSR is a concentrically stranded conductor composed of one or more layers of Aluminium -Magnesium -Silicon Alloy wire stranded around a high strength coated steel core. The core can be of either single wire or stranded multi wire. AACSR is available with steel core of Class A, B or C galvanizing or Aluminium clad (AW). Additional corrosion protection is available through the application of grease to the core or infusion of the complete cable with grease.



APPLICATIONS:

ACSR is Used as bare overhead transmission cable and as primary and secondary distribution cable. AACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity.



AACSR conductors manufactured to ASTM B-711.

Conductor Area mm ²	Alloy Area mm ²	Steel Area mm ²	No. of Alloy Wires	Dia. of Alloy Wire mm	No. of Steel Wire	Dia. of steel wire mm	Dia. of Conductor mm	Linear Weight Kg/km	Rated Strength - daN	Maximum DC Resistance at 20°C 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	17.7	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	0.0950
436	355	81	30	3.88	19	2.33	27.2	1614	21100	0.0950
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	1.96	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