

AAAC - All-Aluminum Alloy Conductor

Size (AWG or MCM)	No. of Wires	Wire Diameter (mm)	Overall Diameter (mm)	Weight (kg/km)	Breaking Load (kN)
6	7	1.66	4.98	41	4.6
4	7	2.09	6.27	66	4.1
2	7	2.64	7.92	105	11.6
1	7	2.96	8.88	132	14.7
1/0	7	3.33	9.99	166	18.5
2/0	7	3.74	11.22	210	23.3
3/0	7	4.20	12.60	265	29.4
4/0	7	4.72	14.15	334	37.1
4/0	19	2.86	14.30	335	37.1
266.8	19	3.21	16.05	423	46.7
300.0	19	3.41	17.05	475	52.6
336.0	19	3.61	18.05	533	58.9
397.5	19	3.92	19.60	629	69.7
477.0	19	4.30	21.50	756	83.6
500.0	37	3.15	22.05	796	87.6
556.5	37	3.33	23.31	885	97.4
636.0	37	3.56	24.92	1012	111.4
715.5	37	3.77	26.39	1140	125.4
750.0	37	3.86	27.02	1195	131.4
795.0	37	3.98	27.86	1266	139.2
814.5	37	4.16	29.12	1391	153.2

Other sizes and construction available upon request.

Application

All-aluminum alloy conductors have higher strength but lower conductivity than pure aluminum. Being lighter, alloy conductors can sometimes be used in place of the more conventional ACSR. Their use becomes particularly favourable when ice and wind loadings are low.

Construction

Concentric stranded cables produced from heat-treatable magnesium silicon type aluminum alloys.

Standards

Conforms to ASTM B 399-97, CSA C49.1, CAN/CSA C61089.