

## Aluminum Conductor Steel Reinforced

CSA C49, Specification for Stranded Aluminum Conductor, Steel Reinforced (ACSR) (Canada Standard)

## Physical and Electrical Properties

Code Name	KCMIL or AWG	Area		Steel Ratio	Stranding				Core Dia.	Overall Dia.	Linear Mass	Rated Tensile Strength	Max.D.C. Resistaneat 20°C
		Alum.	Total		Alum. Wire		Steel Wire						
		mm <sup>2</sup>	mm <sup>2</sup>	%	No.	Dia.	No.	Dia.	mm	mm	kg/km	kN	ohm/km
						mm		mm					
Wren	8	8.37	9.76	17	6	1.33	1	1.33	1.33	3.99	33.8	3029	3.43
Warbler	7	10.55	12.32	17	6	1.5	1	1.5	1.5	4.5	42.8	4.14	2.72
Turkey	6	13.3	15.51	17	6	1.68	1	1.68	0.68	5.04	53.8	5.19	2.158
Thrush	5	16.77	19.57	17	6	1.89	1	1.89	1.89	5.67	67.9	6.56	1.711
Swan	4	21.15	24.68	17	6	2.12	1	2.12	2.12	6.36	85.6	8.15	1.357
Swallow	3	26.66	31.11	17	6	2.38	1	2.38	2.38	7.14	107.9	10	1.076
Sparrow	2	33.963	39.22	17	6	2.67	1	2.67	2.67	8.01	136	12.4	0.8534
Robin	1	42.41	49.48	17	6	3	1	3	3	9	171.6	15.3	0.6766
Raven	1/0	53.51	62.43	17	6	3.37	1	3.37	3.37	10.11	216.5	18.9	0.5363
Quail	2/0	67.44	78.67	17	6	3.78	1	3.78	3.78	11.34	273	23.5	0.4255
Pigeon	3/0	85.03	99.21	17	6	4.25	1	4.25	4.25	12.75	344	29.6	0.3375
Penguin	4/0	107.2	125.1	17	6	4.77	1	4.77	4.77	14.31	434	37.3	0.2676
Partridge	266.8	135.2	157.2	16	26	2.57	7	2	6	16.28	546	50	0.2136
Owl	266.8	135.2	152.8	13	6	5.36	7	1.79	5.37	16.09	509	42.3	0.2123
Waxwing	266.8	135.2	142.7	6	18	3.09	1	3.09	3.09	15.45	431	31.2	0.213
Piper	300	152	187.5	23	30	2.54	7	2.54	7.62	17.78	698	67.8	0.1898