

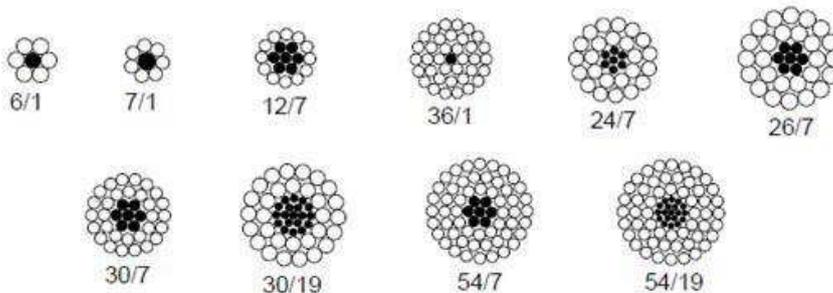


## SPECIFICATIONS AND STANDARDS:

ACSR bare conductor meets or exceeds the following **CSA C49 Standards for Canadian Size:**

## CONSTRUCTION:

Aluminum Conductors Steel Reinforced (ACSR) consists of a galvanized steel core of 1 wire, 7 wires or 19 wires surrounded by concentric layers of aluminum wire, when a conductor with a high current carrying capacity and comparatively low strength is required, special constructions are available with high aluminum content. Core wire for ACSR is available with class A, B, or C galvanizing; "aluminized" aluminum coated (AZ); or aluminum – clad (AW).



## APPLICATIONS:

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

This catalogue shows the most common sizes of conductor but other sizes, to any recognized standards or customer specification can also be supplied. ACSR insulated with XLPE or PVC can also be supplied as per customer's requirements.



## ACSR conductors manufactured to CSA C49 Standard.

Code Name	KCMIL or AWG	Cross Section		Steel Ratio	Stranding Wires				Dia.of Core	Overall Dia.	Linear Mass	Rated Tensile Strength	Max.D.C. Resistance at 20°C
		Alum.	Total		Alum. Wire		Steel Wire						
					No.	Dia.	No.	Dia.					
-	-	mm <sup>2</sup>	mm <sup>2</sup>	%	-	mm	-	mm	mm	mm	kg/km	kN	Ω/km
Wren	8	9.37	9.76	17	6	1.33	1	1.33	1.33	3.99	33.8	3.29	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	1.68	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	33.63	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
Ostrich	300	152	176.7	16	26	2.73	7	2.12	6.36	17.28	614	56.3	0.19
Phoebe	300	152	160.5	6	18	3.28	1	3.28	3.28	16.4	485	35.2	0.1895
Oriole	336.4	170.5	210.2	23	30	2.69	7	2.69	8.07	18.83	783	76	0.1693
Linnet	336.4	170.5	198.3	16	26	2.89	7	2.25	6.75	8.31	689	62.4	0.1694
Merlin	336.4	170.5	179.9	6	18	3.47	1	3.47	3.47	17.35	522	39.3	0.169
Lark	397.5	201.4	248.3	23	30	2.92	7	2.92	8.76	20.44	924	88.6	0.1433
Ibis	397.5	201.4	234.1	16	26	3.14	7	2.44	7.32	19.88	813	71.5	0.1434
Chickadee	397.5	201.4	212.6	6	18	3.77	1	3.77	3.77	18.85	642	45.4	0.143
Hen	477	241.7	298	23	30	3.2	7	3.2	9.6	22.4	1109	103	0.1194
Hawk	477	241.7	281.2	16	26	3.44	7	2.68	8.04	21.8	977	86.1	0.1195
Toucan	477	241.7	265.5	10	22	3.74	7	2.08	6.24	21.2	854	68.9	0.1193
Pelican	477	241.7	255.1	6	18	4.13	1	4.13	4.13	20.65	771	54.5	0.1192
Heron	500	253.4	312.5	23	30	3.28	7	3.28	9.84	22.96	1163	108	0.1139
Eagle	556.5	282	347.8	23	30	3.46	7	3.46	10.38	24.22	1295	120	0.1023
Dove	556.5	282	327.9	16	26	3.72	7	2.89	8.67	23.55	1139	100	0.1024
Sapsucker	556.5	282	309.6	10	22	4.04	7	2.24	6.72	22.88	995	78.8	0.1023
Duck	605	306.6	346.3	13	54	2.69	7	2.69	8.07	24.21	1160	101	0.09435



## Aluminum Conductor Steel Reinforced. Bare

-	605	306.6	336.7	10	22	4.21	7	2.34	7.02	23.86	1082	84.8	0.09408
Egret	636	322.3	395.8	23	30	3.7	19	2.22	11.1	25.9	1469	141	0.08955
Grosbeak	636	322.3	374.8	16	26	3.97	7	3.09	9.27	25.15	1302	111	0.0896
Goose	636	322.3	364.1	13	54	2.76	7	2.76	8.28	24.84	1220	104	0.08975
Goldfinch	636	322.3	353.9	10	22	4.32	7	2.4	7.2	24.48	1138	89.3	0.08949
Gull	666.6	337.8	381.5	13	54	2.82	7	2.82	8.46	25.38	1278	109	0.08563
-	666.6	337.8	355.2	5	42	3.2	7	1.78	5.34	24.54	1070	77.8	0.08552
Redwing	715.5	362.6	445	23	30	3.92	19	2.35	11.75	27.43	1650	154	0.0796
Starling	715.5	362.6	421.3	16	26	4.21	7	3.27	9.81	26.65	1463	124	0.07964
Crow	715.5	362.6	409.4	13	54	2.92	7	2.92	8.76	26.28	1370	117	0.07978
-	715.5	362.6	381.2	5	42	3.32	7	1.84	5.52	25.44	1148	83.6	0.07968
Mallard	795	402.8	494.6	23	30	4.13	19	2.48	12.4	28.92	1835	171	0.07164
Drake	795	402.8	468.3	16	26	4.44	7	3.45	10.35	28.11	1626	138	0.07168
Condor	795	402.8	455	13	54	3.08	7	3.08	9.24	27.72	1524	126	0.0718
Macaw	795	402.8	423.5	5	42	3.49	7	1.94	5.82	26.76	1276	92.5	0.07171
Crane	874.5	443.1	500.5	13	54	3.23	7	3.23	9.69	29.07	1676	138	0.06527
-	874.5	443.1	466	5	42	3.67	7	2.04	6.12	28.14	1404	102	0.06519
Canary	900	456	515.2	13	54	3.28	7	3.28	9.84	29.52	1726	143	0.06342
-	900	456	479.6	5	42	3.72	7	2.07	6.21	28.53	1554	105	0.06334
Cardinal	954	483.4	546.2	13	54	3.38	7	3.38	10.14	30.42	1830	151	0.05983
Phoenix	954	483.4	508.3	5	42	3.83	7	2.13	6.39	29.37	1532	109	0.05976
Curlew	1033.5	523.7	591.4	13	54	3.51	7	3.51	10.53	31.59	1980	163	0.05523
Snowbird	1033.5	523.7	550.5	5	42	3.98	7	2.21	6.63	30.51	1658	118	0.05516
Finch	1113	564	635.5	13	54	3.65	19	2.19	10.95	32.85	2124	180	0.05129
Beaumont	1113	564	692.8	5	42	4.13	7	2.29	6.87	31.65	1785	126	0.05122
Grackle	1192.5	604.3	680.5	13	54	3.77	19	2.26	11.3	33.92	2272	188	0.04784
-	1192.5	604.3	635.4	5	42	4.28	7	2.38	7.14	32.82	1915	135	0.04781
Pheasant	1272	644.5	726.2	13	54	3.9	19	2.34	11.7	35.1	2427	200	0.04487
Scissortail	1272	644.5	677.8	5	42	4.42	7	2.46	7.38	33.9	2043	144	0.04482
Martin	1351.5	684.8	771.5	13	54	4.02	19	2.41	12.05	36.17	2577	212	0.04223
-	1351.5	684.8	720	5	42	4.56	7	2.53	7.59	34.95	2169	153	0.04218
Plover	1431	725.1	816.9	13	54	4.13	19	2.48	12.4	37.18	2729	224	0.03989
-	1431	725.1	762.6	5	42	4.69	7	2.61	7.83	35.97	2298	162	0.03984
Parrot	1510.5	765.4	862.4	13	54	4.25	19	2.55	12.75	38.25	2882	237	0.03779
-	1510.5	765.4	804.9	5	42	4.82	7	2.68	8.04	36.96	2425	171	0.03774
Falcon	1590	805.7	908.1	13	54	4.36	19	2.62	13.1	39.26	3036	250	0.0359
-	1590	805.7	876.5	9	48	4.62	7	3.59	10.77	38.49	2783	211	0.03586
-	1590	805.7	840.3	4	72	3.77	7	2.51	7.53	37.69	2501	172	0.0359