



S.M.C

Aluminum Conductors Steel Reinforced (ACSR)

Conductors For Overhead Lines

Aluminum Conductor

Steel Reinforced (ACSR)



Conductor area		No. and nominal diameter of wires		Approx. overall diameter	Calculated DC resistance at 20 °C (Max.)	Approx. weight of conductor		Breaking Load	Stranded packing length	Drum size	Approx. Gross weight
Total	Aluminum	Aluminum	Steel			Aluminum	Total				
Sqm		No./mm		mm	Ohm/Km	Kg/Km		KN	Meter ±5%		KG
15.50	13.29	6/1.68	1/1.68	5.04	2.157	36	54	5.3	2000	D-6	150
19.54	16.77	6/1.89	1/1.89	5.67	1.710	46	68	6.6	2000	D-7	180
24.71	21.16	6/2.12	1/2.12	6.36	1.356	58	85	8.3	2000	D-8	220
26.51	21.16	7/1.96	1/2.61	6.53	1.356	58	100	10.5	2000	D-8	250
31.10	26.65	6/2.38	1/2.38	7.14	1.076	73	108	10.2	2000	D-8	270
39.22	33.61	6/2.67	1/2.67	8.01	0.8530	92	136	12.7	2000	D-8	320
42.13	33.61	7/2.47	1/3.30	8.24	0.8530	92	159	16.2	2000	D-9	380
49.49	42.39	6/3.00	1/3.00	9.00	0.6765	116	172	15.9	2000	D-9	405
62.38	53.48	6/3.37	1/3.37	10.11	0.5364	147	216	19.5	2000	D-10	495
78.65	67.42	6/3.78	1/3.78	11.34	0.4255	185	273	23.5	2000	D-11	650
99.22	85.03	6/4.25	1/4.25	12.75	0.3373	233	344	29.5	2000	D-12	800
125.10	107.23	6/4.77	1/4.77	14.31	0.2676	294	433	37.2	2000	D-12	975



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142.64	135.16	18/3.09	1/3.09	15.45	0.2133	373	431	30.6	2000	D-14	1010
157.16	135.16	26/2.57	7/2.00	16.28	0.2142	375	547	50.2	2000	D-14	1240
176.77	152.00	26/2.73	7/2.12	17.28	0.1906	421	614	56.5	2000	D-16	1440
179.93	170.45	18/3.47	1/3.47	17.35	0.1692	470	544	38.7	2000	D-16	1300
198.19	170.45	26/2.89	7/2.25	18.31	0.1699	472	689	62.8	2000	D-16	1590
210.26	170.45	30/2.69	7/2.69	18.83	0.1704	743	784	77.2	2000	D-16	1780
212.58	201.42	18/3.77	7/3.77	18.85	0.1432	555	642	44.2	2000	D-16	1490
227.55	201.42	24/3.27	7/2.18	19.61	0.1438	558	762	65.1	2000	D-16	1730
234.19	201.42	26/3.14	7/2.44	19.88	0.1438	558	814	72.5	2000	D-16	1840
248.39	201.42	30/2.92	7/2.92	20.44	0.1442	560	927	90.4	2000	D-18	2090
255.10	241.68	18/4.14	1/4.14	20.70	0.1193	666	771	52.3	2000	D-18	1780
272.97	241.68	24/3.58	7/2.39	21.49	0.1199	670	915	76.3	2000	D-18	2070
281.03	241.68	26/3.44	7/2.68	21.80	0.1199	670	977	87.0	2000	D-18	2190
298.07	241.68	30/3.20	7/3.20	22.40	0.1202	671	1112	105.9	2000	D-18	2460

Conductors conform to ASTM B232 & CSA C49-1975