



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
559.87	523.68	45/3.85	7/2.57	30.81	0.05531	1451	1734	123.6	2000	D-22	3940
591.55	523.68	54/3.52	7/3.52	31.68	0.05531	1451	1981	162.8	2000	D-22	4430
602.96	563.93	45/4.00	7/2.66	31.98	0.05161	1570	1875	132.4	2000	D-22	4220
635.41	563.93	54/3.65	19/2.19	32.85	0.05161	1570	2130	173.6	1000	D-18	2370
645.81	604.26	45/4.14	7/2.76	33.12	0.04820	1682	2008	142.2	1000	D-18	2250
680.78	604.26	54/3.77	19/2.27	33.97	0.04820	1682	2282	186.2	1000	D-18	2520
689.03	644.51	45/4.27	7/2.85	34.17	0.04518	1795	2143	152.1	1000	D-19	2460
726.19	644.51	54/2.34	19/2.34	35.10	0.04518	1795	2433	194.2	1000	D-19	2750
732.26	685.16	45/4.40	7/2.92	35.16	0.04259	1906	2275	160.9	1000	D-19	2600
771.55	684.84	54/4.02	19/2.41	36.17	0.04259	1906	2585	206.0	1000	D-21	3010
816.97	725.16	54/4.14	19/2.48	37.24	0.04016	2019	2738	217.8	1000	D-21	3160
862.32	765.16	54/4.25	19/2.55	38.25	0.03802	2131	2890	230.5	1000	D-21	3310



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908.12	805.80	54/4.36	19/2.62	39.26	0.03612	2243	3042	243.3	1000	D-21	3460
9.81	8.39	6/1.33	1/1.33	3.99	3.4226	23	34	3.3	2000	D-6	110
11.93	10.59	6/1.50	1/1.50	4.50	2.7139	29	43	4.2	2000	D-6	130
160.45	152.00	18/3.28	1/3.28	16.40	0.01893	418	483	35.5	2000	D-14	1120
187.48	152.00	30/2.54	7/2.54	17.58	0.1903	420	697	68.7	2000	D-16	1600
312.45	253.35	30/3.28	7/3.28	22.96	0.1142	701	1162	108.8	2000	D-18	2565
309.68	282.00	22/4.04	7/2.24	22.88	0.1024	777	993	79.1	2000	D-18	2230
346.39	306.58	54/2.69	7/2.69	24.21	0.0945	848	1159	100.1	2000	D-18	2560
364.00	322.26	54/2.76	7/2.76	24.84	0.0899	891	1217	105.3	2000	D-18	2670
381.55	337.74	54/2.82	7/2.82	25.38	0.0856	935	1277	109.2	2000	D-19	2870
468.45	402.84	26/4.44	7/3.45	28.11	0.0715	1112	1624	139.1	2000	D-21	3670
677.67	644051	45/4.42	7/2.46	33.90	0.0449	1780	2039	144.4	1000	D-18	2280

Conductors conform to ASTM B232 & CSA C49-1975