



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
12.39	10.62	6/1.50	1/1.50	4.50	2.702	29	43	4.1	2000	D-6	130
24.43	20.94	6/2.11	1/2.11	6.33	1.370	58	85	7.9	2000	D-8	220
42.77	36.66	6/2.79	1/ 2.79	8.37	0.7827	101	149	13.2	2000	D-9	360
73.71	63.18	6/3.66	1/3.66	10.98	0.4541	173	255	21.8	2000	D-10	570
100.50	63.48	12/2.59	7/2.59	12.95	0.4565	175	465	53.1	2000	D-12	1040
87.82	74.82	6/3.93	1/3.99	11.97	0.3834	205	302	25.7	2000	D-11	705
92.4	79.20	6/4.10	1/4.10	12.30	0.3623	217	320	27.2	2000	D-12	750
97.86	83.88	6/4.22	1/4.22	12.66	0.3421	230	339	28.7	2000	D-12	790
126.2	105.8	7/4.39	7/9.13	14.57	0.2712	290	450	40.9	2000	D-12	1010
152.2	132.1	26/2.52	7/1.91	15.89	0.2187	365	522	46.4	2000	D-14	1190
137.5	130.3	18/3.05	1/3.05	15.25	0.2210	362	419	29.8	2000	D-14	990
161.7	131.1	30/2.36	7/2.36	16.52	0.2204	362	602	58.0	2000	D-14	1350



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294.2	238.5	30/3.18	7/3.18	22.26	0.1212	659	1095	100.6	2000	D-18	2430
325.6	264.0	30/3.35	7/3.35	23.45	0.1095	730	1213	111.1	2000	D-18	2627
400.0	324.3	30/3.71	7/3.71	25.97	0.08910	896	1489	135.7	2000	D-19	3300
461.4	374.1	30/3.99	7/3.99	27.93	0.07724	1034	1718	155.99	2000	D-19	3760
421.5	373.1	54/2.97	7/2.97	26.73	0.07747	1032	1411	118.2	2000	D-19	3140
431.3	381.8	54/3.00	7/3.00	27.00	0.07571	1056	1444	120.9	2000	D-19	2310
529.5	429.3	30/4.27	7/4.27	29.89	0.06731	1186	1971	178.5	2000	D-21	4360
536.8	475.2	54/3.35	7/3.35	30.15	0.06083	1314	1797	145.7	2000	D-22	4060
597.2	528.7	54/3.53	7/3.53	31.77	0.05468	1462	1999	161.1	2000	D-22	4470

Conductors generally conform to BS 215 (part 2)1970