

All Aluminum Conductor

IEC 61809, Characteristics of A1 Conductors

Code Name	Area		Wire diameter	Approx. Overall diameter	Weight	Nominal breaking load	Nom. DC resistance at 20
	Nominal mm ²	Strands	mm	mm	kg/km	kN	ohm/km
10	10	7	1.35	4.05	27.4	1.95	2.8633
16	16	7	1.71	5.12	43.8	3.04	1.7896
25	25	7	2.13	6.4	68.4	4.5	1.1453
40	40	7	2.7	8.09	109.4	6.8	0.7158
63	63	7	3.39	10.2	172.3	10.39	0.4545
100	100	19	2.89	12.9	274.8	17	0.2877
125	125	19	3.27	14.5	343.6	21.25	0.2302
160	160	19	3.66	16.4	439.8	26.4	0.1798
200	200	19	4.09	18.3	549.7	32	0.1439
250	250	19	3.29	20.5	687.1	40	0.1151
315	315	37	3.71	23	867.9	51.97	0.0916
400	400	37	3.94	26	1102	64	0.0721
450	450	37	4.15	27.5	1239.8	72	0.0641
500	500	37	4.39	29	1377.9	80	0.0577
560	560	37	3.63	30.7	1542.9	89.6	0.0515
630	630	61	3.85	32.6	1738.3	100.8	0.0458
710	710	61	4.09	34.6	1959.1	113.6	0.0407
800	800	61	4.33	36.8	2207.4	128	0.0361
900	900	61	4.57	39	2483.3	144	0.0321
1000	1000	61	3.96	41.1	2759.2	160	0.0289
1120	1120	91	4.18	43.5	3093.5	179.2	0.0258
1250	1250	91	4.18	46	3452.6	200	0.0231
1400	1400	91	4.43	48.7	3866.9	224	0.0207
1500	1500	91	4.58	50.4	4143.1	240	0.0193