

METRIC SIZES STANDARD SOLID AND STRANDED CONDUCTORS

Class of conductor	Cross-sectional area	Stranding No. wires/size wire	Nominal diameter of conductor	Nominal weight	Resistance at 20°C DC (ohms per km)
	mm ²				
	0.13	1/4	0.4	1.16	137.2
	0.2	1/5	0.5	1.8	87.81
	0.28	1/6	0.5	2.5	60.98
	0.32	1/6.4	0.64	2.8	54.44
	0.44	1/7.4	0.74	3.9	40.46
1	0.5	1/8	0.8	4.4	34.3
	0.6	1/8.5	0.85	5.3	30.38
	0.65	1/9	0.9	5.8	27.1
	0.86	7/4	1.2	7.65	21.2
1	1.0	1/1.13	1.13	8.9	18.1
2	1.0	7/4.3	1.29	9.3	18.3
	1.35	7/5	1.5	12.0	13.6
1	1.5	1/1.38	1.38	13.4	12.1
2	1.5	7/5.3	1.59	14.1	12.0
1	2.5	1/1.78	1.78	22.3	7.28
2	2.5	7/6.7	2.01	22.3	7.41
	4	7/8.5	2.55	36	4.61
	6	7/1.04	3.12	53	3.08
	10	7/1.35	4.05	89	1.83
	16	7/1.70	5.1	142	1.14
2	16	37/7.5*	5.25	142	
	25	7/2.14	6.42	223	0.727
	25	19/1.35	6.75	223	0.673
	25	37/9*	6.3	223	
	35	19/1.53	7.65	312	0.524
2	35	61/9*	8.1	312	
	50	19/1.78	8.9	445	0.387
	60	61/1.13*	10.17	534	
2	70	19/2.14	10.7	623	0.268
2	95	19/2.52	12.6	846	0.193
2	95	37/1.78	12.46	846	0.193
	120	37/2.03	14.21	1068	0.199
2	150	37/2.25	15.75	1335	0.153
2	185	37/2.52	17.64	1647	0.124
2	240	61/2.25	20.25	2136	0.0991
2	300	61/2.52	22.68	2670	0.0754
2	400	61/2.85	25.65	3560	0.0601
	400	91/2.06	22.66	3560	0.0470
2	500	61/3.20	28.8	4450	0.0460
	500	91/2.65	29.15	4450	0.0366
	630	127/2.52	32.76	5607	0.0357
	800	127/2.85	37.05	7120	0.0283
	1000	127/3.20	41.6	8900	0.0176

* Auto stranding

METRIC SIZES STANDARD FLEXIBLE CONDUCTORS

Class of conductor	Cross-sectional area	Stranding No. wires/size wire	Nominal diameter of conductor	Nominal weight	Resistance at 20°C DC (ohms per km)
	mm ²				
	0.05	7/1	0.3	0.5	368
	0.22	7/2	0.6	2.0	92.4
	0.5	7/3	0.9	4.5	36.5
5	0.5	16/2	0.93	4.5	40.1
6	0.5	28/1.5†	0.94	4.5	40.7
	0.5	151/0.65†	0.98	4.5	42.9
	0.65	14/2.5*	1.1	5.8	30.8
5	0.75	24/2	1.14	6.7	26.7
6	0.75	42/1.5	1.12	6.7	27.1
5	1.0	32/2	1.34	8.9	20.0
5	1.25	40/2	1.47	11.1	16.0
5	1.35	19/3*	1.5	12.0	15.0
5	1.5	30/2.5	1.6	13.4	13.7
	2.0	28/3*	1.87	17.8	9.2
5	2.5	50/2.5	2.09	22.3	8.21
	3.0	44/3*	2.4	27	6.13
	4.0	56/3	2.61	36	5.09
5	4.5	65/3*	2.8	40	4.09
5	6	84/3	3.21	53	3.39
	8	120/3*		71	2.3
5	10	80/4	4.2	89	1.95
5	16	126/4	5.3	142	1.24
5	25	196/4	7.1	223	0.795
5	35	276/4	8.5	312	0.565
5	50	396/4	10.3	445	0.393
5	70	360/5	12.4	623	0.277
5	95	475/5	14.5	846	0.210
5	120	608/5	16.0	1068	0.164
5	150	756/5	18.0	1335	0.132
5	185	925/5	20.0	1647	0.108
5	240	1221/5	23.0	2136	0.0817
5	300	1525/5	26.0	2670	0.0654
5	400	2013/5	30.0	3560	0.0495
5	500	1769/6	33.5	4450	0.0373
5	630	2257/6	37.0	5607	0.0292

* Auto stranding

† Alternative stranding for parallel twin flexible.

battindustrial.sales@batt.co.uk