

METRIC TO AWG COMPARISON AND METRIC CLASSES OF STRANDING

METRIC TO AWG COMPARISON

METRIC SIZE (mm ²)	CIRCULAR MILS*	CORRESPONDING AWG SIZE AND ITS CIRCULAR MILS
0.05	99	30AWG = 112cm
0.08	158	29AWG = 142cm
0.09	178	28AWG = 175cm
0.14	277	26AWG = 278cm
0.25	494	24AWG = 448cm
0.34	671	22AWG = 700cm
0.38	750	22AWG = 700cm
0.50	987	20AWG = 1020cm
0.75	1480	18AWG = 1620cm
1	1974	17AWG = 2243cm
1.5	2961	16AWG = 2580cm
2.5	4935	14AWG = 4110cm
4	7894	12AWG = 6530cm
6	11841	10AWG = 10380cm
10	19735	8AWG = 16510cm
16	31576	6AWG = 26240cm
25	49338	4AWG = 41740cm
35	69073	2AWG = 66360cm
50	98676	1AWG = 83690cm
70	138146	2/0AWG = 133100cm
95	187484	3/0AWG = 167800cm
120	236821	4/0AWG = 211600cm
150	296027	300MCM = 300000cm
185	365100	350MCM = 350000cm
240	473643	500MCM = 500000cm
300	592053	600MCM = 600000cm
400	789404	750MCM = 750000cm
500	986755	1000MCM = 1000000cm

METRIC CLASSES OF STRANDING

METRIC SIZE (mm ²)	STRANDED WIRES DIN VDE 0295 CLASS 2 COLUMN 1	MULTI-STRANDED WIRES COLUMN 2	FINE WIRES DIN VDE 0295 CLASS 5 COLUMN 3	EXTRA FINE WIRES DIN VDE 0295 CLASS 6 COLUMN 4
0.05				
0.08				
0.09				
0.14			18	18
0.25			14	32
0.34		7	19	42
0.38		7	12	21
0.50	7	7	16	28
0.75	7	7	24	42
1	7	7	32	56
1.5	7	7	30	84
2.5	7	19	50	140
4	7	19	56	224
6	7	19	84	192
10	7	49	80	320
16	7	49	128	512
25	7	84	200	800
35	7	133	280	1120
50	19	133	400	705
70	19	189	356	990
95	19	259	485	1340
120	37	336	614	1690
150	37	392	765	2123
185	37	494	944	1470
240	61	627	1225	1905
300	61	790	1530	2385
400	61		2035	
500	61		1768	

* Based on 1973.51circular mils per mm².