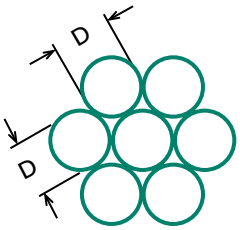
HOW TO COMPUTE CIRCULAR MIL AREA OF (CMA) OF VARIOUS SHAPES OF WIRE

Round Solid Wire AWG

D x D = CMA

Multiply the diameter in Mils by itself. CMA = D^2

Stranded Wire AWG



D x D x Number of Strands = CMA

Multiply the diameter of one strand (in mils) by itself, and then multiply the result by the total number of strands.

WIRE SIZES

WIRE SIZE AWG.	STRANDS		AREA CIRC. MILLS	TOTAL DIA.
	NUMBER	DIA.		
#26	1	.0159	254	.016
#26	8	.0056	252	.018
#26	10	.005	250	.018
#25	1	.0179	320	.018
#25	10	.0056	315	.020
#25	8	.0063	318	.021
#24	1	.0201	404	.020
#24	8	.0071	398	.023
#24	10	.0063	398	.023
#24	7	.008	448	.024
#23	1	.0226	510	.023
#23	10	.0071	501	.026
#23	8	.008	506	.026
#22	1	.0253	642	.025
#22	21	.005	525	.025
#22	6	.010	600	
#22	8	.0089	632	.029
#22	10	.008	638	.029
#22	7	.010	700	.030
#22	16	.0063	636	.029
#20	1	.032	1,024	.032
#20	19	.007	950	.036
#20	7	.012	1,025	.036

WIRE SIZE AWG.	STRANDS		AREA CIRC. MILLS	TOTAL DIA.
	NUMBER	DIA.		
#20	26	.0063	1,035	.039
#20	10	.010	1,005	.040
#20	7	.0126	1,120	.040
#18	1	.040	1,600	.040
#18	19	.0092	1,607	.046
#18	7	.0153	1,639	.046
#18	65	.005	1,625	.048
#18	16	.010	1,616	.049
#18	41	.0063	1,640	.049
#18	7	.0152	1,779	.050
#16	1	.0508	2,583	.051
#16	7	.0192	2,580	.058
#16	19	.0117	2,601	.058
#16	65	.0063	2,587	.059
#16	105	.005	2,625	.059
#16	19	.0117	2,409	.061
#16	26	.010	2,625	.061
#14	1	.064	4,107	.064
#14	37	.0105	4,081	.073
#14	7	.0242	4,099	.073
#14	105	.0063	4,179	.073
#14	19	.0147	4,106	.074
#14	84	.0071	4,208	.074

WIRE SIZE AWG.	STRANDS		AREA CIRC. MILLS	TOTAL DIA.
	NUMBER	DIA.		
#14	7	.025	4,494	.076
#14	41	.010	4,141	.077
#12	1	.0808	6,530	.081
#12	19	.0179	6,088	.090
#12	7	.0305	6,512	.091
#12	19	.0185	6,504	.092
#12	37	.0133	6,524	.093
#12	84	.0089	6,695	.094
#12	165	.0063	6,567	.095
#12	65	.010	6,565	.097
#10	1	.1019	10,380	.102
#10	7	.0385	10,380	.115
#10	105	.010	10,550	.116
#10	37	.0167	10,320	.117
#10	19	.0234	10,400	.117
#10	90	.0089	9,090	.120
#10	37	.010	10,445	.122
#8	1	.1285	16,510	.129
#8	7	.0486	16,530	.146
#8	37	.0211	16,470	.148
#8	19	.0295	16,540	.148
#8	133	.0111	16,390	.166
#8	49	.0184	16,590	.166