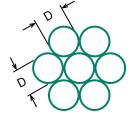
HOW TO COMPUTE CIRCULAR MIL AREA OF (CMA) OF VARIOUS SHAPES OF WIRE

Round Solid Wire AWG

Dia. X Dia.
D x D = CMA

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

Stranded Wire AWG



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

 $D \times D \times Number$ of Strands = CMA

WIRE SIZES

WIRE SIZE AWG.	STRANDS		AREA	TOTAL	WIRE	STRANDS		AREA	TOTAL	WIRE	STRANDS		AREA	TOTAL
	NUMBER	DIA.	CIRC. MILLS	TOTAL DIA.	SIZE AWG.	NUMBER	DIA.	CIRC. MILLS	DIA.	SIZE AWG.	NUMBER	DIA.	CIRC. MILLS	TOTAL DIA.
#26 #26 #26	1 8 10	.0159 .0056 .005	254 252 250	.016 .018 .018	#20 #20 #20	26 10 7	.0063 .010 .0126	1,035 1,005 1,120	.039 .040 .040	#14 #14	7 41	.025 .010	4,494 4,141	.076 .077
#25 #25 #25	1 10 8	.0179 .0056 .0063	320 315 318	.018 .020 .021	#18 #18 #18 #18	1 19 7 65	.040 .0092 .0153 .005 .010 .0063 .0152	1,600 1,607 1,639 1,625 1,616 1,640 1,779	.040 .046 .046 .048 .049 .049	#12 #12 #12 #12 #12 #12 #12	1 19 7 19 37 84 165 65	.0808 .0179 .0305 .0185 .0133 .0089 .0063	6,530 6,088 6,512 6,504 6,524 6,695 6,567 6,565	.081 .090 .091 .092 .093 .094 .095
#24 #24 #24 #24	1 8 10 7	.0201 .0071 .0063 .008	404 398 398 448	.020 .023 .023 .024	#18 #18 #18	16 41 7								
#23 #23 #23	1 10 8	.0226 .0071 .008	510 501 506	.023 .026 .026	#16 #16 #16 #16 #16	1 7 19 65 105	.0508 .0192 .0117 .0063 .005	2,583 2,580 2,601 2,587 2,625	.051 .058 .058 .059	#10 #10 #10 #10	1 7 105 37	.1019 .0385 .010	10,380 10,380 10,550 10,320	.102 .115 .116
#22 #22 #22	1 21 6 8 10 7	.0253 .005 .010 .0089 .008 .010	642 525 600 632 638 700 636 1,024 950 1,025	.025 .025 .029 .029 .030 .029	#16 #16	19 26	.0107 .0117 .010	2,409 2,625	.061 .061	#10 #10 #10 #10	19 90 37	.0234 .0089 .010	10,400 9,090 10,445	.117 .117 .120 .122
#22 #22 #22 #22					#14 #14 #14 #14 #14	1 37 7 105 19 84	.064 .0105 .0242 .0063 .0147 .0071	4,107 4,081 4,099 4,179 4,106 4,208	.064 .073 .073 .073 .074 .074	#8 #8 #8 #8 #8	1 7 37 19 133 49	.1285 .0486 .0211 .0295 .0111 .0184	16,510 16,530 16,470 16,540 16,390 16,590	.129 .146 .148 .148 .166 .166
#20 #20 #20	1 19 7	.032 .007 .012		.032 .036 .036										