



HSM Wire International, Inc.
Ph: 330-244-8501 Fax: 330-244-8561
www.hsmwire.com

BARE COPPER WIRE

SIZE	AREA	WEIGHT	RESISTANCE @ 68°F
AWG	Cir. Mils. Nominal Diameter	Ft / lbs. Nominal Diameter	Ohms / 1000 ft. Nominal Diameter
20	1024	322.7	10.128
21	812.3	406.7	12.77
22	640.1	516.3	16.20
23	510.8	646.8	20.3
24	404	817.7	25.67
25	320.4	1031	32.37
26	252.8	1307	41.02
27	201.6	1639	51.44
28	158.8	2081	65.31
29	127.7	2587	81.21
30	100	3306	103.71
31	79.21	4170	130.9
32	64	5163	162.00
33	50.41	6553	205.7
34	39.69	8326	261.30
35	31.36	10537	330.7
36	25	13212	414.80
37	20.25	16319	512.1
38	16	20644	648.20
39	12.25	26969	846.6
40	9.61	34364	1079.20
41	7.84	42123	1323
42	6.25	52854	1659.00
43	4.84	68259	2143
44	4	82645	2593.00
45	3.1	106500	3348
46	2.47	134400	4207.00
47	1.96	169200	5291
48	1.54	213400	6745.00
49	1.23	269700	8417
50	0.98	339700	10580.00
51	0.775	428400	13390
52	0.608	540000	17050.00

To find the CMA:
 Stranding x Bare Copper CMA = Total CMA
 example: 420 Strands 31 AWG
 420 x 79.21= 33268.2