



**Charlotte™**  
Wire & Cable Company Inc.

*“Taking Care of Business”*

toll free: 800-929-9473

## STRANDED BARE COPPER CONDUCTOR TYPES (SIZES 40 - 18 AWG)

AWG SIZE	Number of Strands	Strand Class	Individual Strand Diameter	Overall Stranded Wire Diameter		Cross Sectional Area		Direct Current Resistance at 68Deg F/20Deg C (Ohms/1000ft)	Approximate Net Weight (lbs/1000ft)
			(in.)	(in.)	(mm)	(circular mils)	(mm <sup>2</sup> )		
40	7 x 48awg		.0012"	.004"	.1016	10.0	.0051	1079	.034
38	7 x 46awg		.0016"	.005"	.1270	17.9	.0091	673	.054
36	7 x 44awg		.0020"	.006"	.1524	28.0	.0142	424	.087
36	19 x 48awg		.0012"	.006"	.1524	27.4	.0188	402	.092
34	7 x 42awg		.0025"	.008"	.2032	43.8	.0222	265	.136
34	19 x 46awg		.0016"	.007"	.1778	48.6	.0246	251	.147
32	7 x 40awg		.0032"	.009"	.2286	67.6	.0343	165	.210
32	19 x 44awg		.0020"	.010"	.2540	76.0	.0385	158	.240
30	7 x 38awg		.0040"	.012"	.3048	112.0	.0568	101	.350
30	19 x 42awg		.0025"	.012"	.3048	118.8	.0602	99	.375
28	7 x 36awg		.0050"	.015"	.3810	175.0	.0887	64	.550
28	19 x 40awg		.0032"	.015"	.3810	182.6	.0925	63	.575
27	7 x 35awg		.0056"	.017"	.4318	220.0	.1115	50	.675
26	7 x 34awg		.0063"	.019"	.4826	278.0	.1409	40	.867
26	19 x 38awg		.0040"	.019"	.4826	304.0	.1540	38	.950
25	7 x 33awg		.0071"	.021"	.5334	353.0	.1789	30	1.090
24	7 x 32awg	B	.0080"	.024"	.6096	448.0	.2270	25	1.390
24	10 x 34awg	M	.0063"	.023"	.5842	397.0	.2012	28	1.230
24	19 x 36awg		.0050"	.024"	.6096	475.0	.2407	24	1.500
24	42 x 40awg		.0032"	.024"	.6096	404.0	.2048	30	1.246
24	105 x 44awg		.0020"	.025"	.6350	420.0	.2128	30	1.320
23	7 x 31awg		.0089"	.027"	.6858	554.0	.2807	21	1.710
22	7 x 30awg	B,K	.0103"	.030"	.7620	700.0	.3547	16	2.160
22	19 x 34awg	M	.0063"	.030"	.7620	754.0	.3821	15	2.350
22	26 x 36awg		.0050"	.029"	.7366	650.0	.3294	15	2.010
22	168 x 44awg		.0020"	.031"	.7874	672.0	.3405	15	1.940
20	7 x 28awg	B	.0126"	.036"	.9144	1020.0	.5168	10	3.150
20	10 x 30awg	K	.0103"	.037"	.9398	1020.0	.5168	10	3.150
20	19 x 32awg		.0080"	.037"	.9398	1216.0	.6162	9	3.830
20	26 x 34awg	M	.0063"	.036"	.9144	1032.0	.5229	10	3.200
20	42 x 36awg		.0050"	.037"	.9398	1050.0	.5320	11	3.250
20	259 x 44awg		.0020"	.040"	1.0160	1036.0	.5250	11	3.260
19	7 x 27awg		.0142"	.043"	1.0922	1411	.7150	8	4.360
18	7 x 26awg	B	.0159"	.048"	1.22	1770	.897	6.150	5.050
18	16 x 30awg	K	.0103"	.047"	1.20	1620	.821	6.850	4.950
18	19 x 30awg		.0103"	.050"	1.27	1900	.963	5.810	5.980
18	41 x 34awg	M	.0063"	.047"	1.19	1628	.825	6.500	5.020
18	65 x 36awg		.0050"	.049"	1.24	1625	.823	6.510	4.960