

# BARE COPPER WIRE

## SOLID



### APPLICATIONS

For use in electrical grounding systems, and on insulators for overhead transmission and distribution applications.

### SPECIFICATIONS

Conforms to ASTM B-1 for hard drawn, STM B-2 for medium hard drawn, ASTM B-3 for soft or annealed copper wire. Conforms to Federal Standard QQ-W-343. Conforms to National Bureau of Standards Handbook. Breaking strength and resistance are calculated in accordance with ASTM B-258.

PWC Catalog #	Size AWG	Nominal Diameter Inches	Cross Sectional Area Circular MILS	Approx. Net Weight Per 1000' (Lbs.)	Hard Drawn		Medium Hard Drawn			Annealed (Soft Drawn)	
					Min. Breaking Strength Lb.	Max. D-C Resistance @ 20 C (OHMS/1000')	Min. Breaking Strength Lb.	Max. Breaking Strength Lb.	Max. D-C Resistance @ 20 C (OHMS/1000')	Max. Breaking Strength Lb.	Max. D-C Resistance @ 20 C (OHMS/1000')
01-0001	36	0.0050	25.0	0.0757	1.4	431	1.2	1.3	429	.78	415
01-0003	35	0.0056	31.4	0.0949	1.8	344	1.5	1.6	342	.99	331
01-0005	34	0.0063	39.7	0.120	2.2	272	1.8	2.0	270	1.2	261
01-0007	33	0.0071	50.4	0.153	2.8	214	2.3	2.6	213	1.6	206
01-0009	32	0.0080	64.0	0.194	3.5	168	2.9	3.2	168	1.9	162
01-0011	31	0.0089	79.2	0.240	4.4	136	3.6	4.0	135	2.5	131
01-0013	30	0.0100	100	0.303	6	108	4.5	5.1	107	3.2	104
01-0015	29	0.0113	128	0.387	7	84.5	5.6	6.3	84.0	3.9	81.2
01-0017	28	0.0126	159	0.481	9	67.9	7.1	7.9	67.6	5.0	65.3
01-0019	27	0.0142	202	0.610	11	53.5	8.9	10	53.2	6.3	51.4
01-0021	26	0.0159	253	0.765	14	42.7	11	13	42.4	7.9	41.0
01-0023	25	0.0179	320	0.970	17	33.7	14	16	33.5	10	32.4
01-0025	24	0.0201	404	1.22	22	26.7	17	20	26.6	13	25.7
01-0027	23	0.0226	511	1.55	27	21.1	22	25	21.0	15	20.3
01-0029	22	0.0253	640	1.94	34	16.9	27	31	16.8	19	16.2
01-0031	21	0.0285	812	2.46	43	13.3	34	39	13.2	24	12.8
01-0033	20	0.0320	1,020	3.10	54	10.5	43	49	10.5	31	10.1
01-0035	19	0.0359	1,290	3.90	68	8.37	54	61	8.32	39	8.05
01-0037	18	0.0403	1,620	4.92	85	6.64	67	76	6.61	49	6.39
01-0039	17	0.0453	2,050	6.21	108	5.26	84	96	5.23	62	5.05
01-0041	16	0.0508	2,580	7.81	135	4.18	106	120	4.16	73	4.02
01-0043	15	0.0571	3,260	9.87	170	3.31	151	165	3.29	99	3.18
01-0045	14	0.0641	4,110	12.4	214	2.63	167	189	2.61	124	2.52
01-0047	13	0.0720	5,180	15.7	268	2.09	209	237	2.07	157	2.00
01-0049	12	0.0808	6,530	19.8	337	1.65	262	297	1.64	197	1.59
01-0051	11	0.0907	8,230	24.9	423	1.31	327	372	1.30	249	1.26
01-0053	10	0.1019	10,380	31.43	529	1.039	410	467	1.033	314	.9988
01-0055	9	0.1144	13,090	39.62	660	.8241	513	585	8.199	380	.7925
01-0057	8	0.1285	16,510	49.98	826	.6532	644	734	.6498	479	.6281
01-0059	7	0.1443	20,820	63.03	1030	.5180	806	921	.5153	605	.4981
01-0061	6	0.1620	26,240	79.44	1280	.4110	1010	1154	.4088	762	.3952
01-0063	5	0.1819	33,090	100.2	1591	.3258	1265	1446	.3243	961	.3134
01-0065	4	0.2043	41,740	126.3	1970	.2584	1584	1814	.2571	1213	.2485
01-0067	3	0.2294	52,620	159.3	2439	.2049	1984	2273	.2039	1529	.1971
01-0069	2	0.2576	66,360	200.9	3002	.1625	2450	2814	.1617	1928	.1563
01-0071	1	0.2893	83,690	253.3	3688	.1289	3024	3484	.1282	2432	.1239
01-0073	1/0	0.3249	105,600	319.5	4518	.1011	3731	4311	.1016	2985	.09825
01-0075	2/0	0.3650	133,100	403	5519	0.0802	4600	5330	.0798	3763	.0779
01-0077	3/0	0.4100	167,800	508	6720	.0636	5666	6590	.0633	4745	.0618
01-0079	4/0	0.4600	211,600	640	8143	.0505	6980	8143	.0502	5983	.0490

> Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.