

# SOFT-DRAWN BARE COPPER CONDUCTORS

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## Engineering Specifications:

### Standards:

ASTM-B3 for soft-drawn solid copper wire  
 ASTM-B8 for soft-drawn concentric lay stranded copper wire  
 ASTM-B787 for 19-wire combination unilay stranded wire

### Construction:

Soft-Drawn Solid or Stranded, Annealed Bare Copper

### Applications:

Copper conductors are used in overhead electrical transmission and distribution systems for grounding electrical systems, and where high-conductivity and flexibility are required for equipment and circuit grounding.

### Features:

Highest conductivity per unit area of all common commercial metals. Excellent corrosion resistance. Flexible; easily worked and formed into place. Packaged on non-returnable spools for easy transportation to job sites and to provide adequate footage for mass installations. Good fatigue resistance; not subject to breaks due to nicks or cuts when terminating. Totally recyclable with high scrap value.

Size (AWG or kcmil)	Number of Strands	Outside Diameter		Area (cmils)	Soft-Drawn (Annealed)		Approx. Net Weight (lbs./1000 ft.)	Standard Packaging
		(inches)	(mm)		Rated Strength (lbs)	DC Resistance Ohms/1000 ft. @ 20°C		
14	Solid	.0641	1.628	4,110	124	2.57	12.4	2000' reels
12	Solid	.0808	2.052	6,530	197	1.62	19.8	1250' reels
10	Solid	.1019	2.588	10,380	314	1.019	31.4	800' reels
8	Solid	.1285	3.264	16,510	479	.6407	50	500' 1000' 2500' 5000' reels
6	Solid	.162	4.115	26,240	762	.4031	79.5	315' 500' 1000' 2500' 5000' reels
4	Solid	.2043	5.189	41,740	1214	.2535	126.4	200' 500' 1000' 2500' 5000' reels
2	Solid	.2576	6.543	66,360	1930	.1594	212.8	125' 500' 1000' 5000' reels
8	7	.1460	3.71	16,510	498	.6408	51	500' 1000' 2500' 5000' reels
6	7	.1840	4.67	26,240	795	.4030	81	315' 500' 1000' 2500' 5000' reels
4	7	.2320	5.89	41,740	1,320	.2530	129	200' 500' 1000' 2500' 5000' reels
3	7	.2600	6.60	52,620	1,670	.2010	162	500' 1000' 5000' reels
2	7	.292	7.42	66,360	2,110	.1590	205	125' 500' 1000' 2500' 5000' reels
1	7	.328	8.33	83,690	2,552	.1270	258	500' 1000' 5000' reels
1/0*	19	.360	9.14	105,600	3,221	.1022	326	500' 1000' 2500' 5000' reels
2/0*	19	.404	10.26	133,100	4,060	.08108	411	500' 1000' 2500' 5000' reels
3/0*	19	.454	11.53	167,800	5,118	.06431	518	500' 1000' 2500' 5000' reels
4/0*	19	.510	12.95	211,600	6,459	.05099	653	500' 1000' 2500' 5000' reels
250	37	.5420	13.77	250,000	7,942	.0423	772	500' 1000' 4000' reels
300	37	.5940	15.09	300,000	9,164	.0353	926	500' 1000' 3500' reels
350	37	.6410	16.28	350,000	10,685	.0302	1081	500' 1000' 3000' reels
400	37	.6850	17.40	400,000	13,435	.0264	1235	500' 1000' 3000' reels
500	37	.7660	19.46	500,000	15,242	.0212	1544	500' 1000' 2500' reels
600	61	.8930	22.68	600,000	18,300	.01798	1883	500' 1000' 2000' reels
750	61	.9980	25.35	750,000	22,894	.01438	2316	500' 1000' 1500' reels
1000	61	1.152	29.26	1,000,000	30,500	.01079	3088	500' reels

The above data is approximate and subject to normal manufacturing tolerances.  
 \*Note: 1/0 - 4/0 Bare Copper available in 7/w construction.

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