



## 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  
 ARRA 2009; Section 1605 "Buy American" Compliant



## 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. Contact your local representative for information on the Encore Wire Scrap Purchase Program.

Soft-Drawn Bare Conductors

Size (AWG or KCMIL)	Number of Strands	Outside Diameter		Area (cmils)	Soft-Drawn (Annealed)		Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
		(mm)	(in)		Rated Strength (lbs)	DC Resistance (Ohms/1000 ft @ 20°C)		
14	Solid	1.63	0.0641	4,110	124	2.5700	12.4	2000' reels
12	Solid	2.05	0.0808	6,530	197	1.6200	19.8	1250' reels
10	Solid	2.59	0.1019	10,380	314	1.0190	31.4	800' reels
8	Solid	3.26	0.1285	16,510	479	0.6407	50.0	500' 1000' 2500' 5000' reels
6	Solid	4.12	0.1620	26,240	762	0.4031	79.5	315' 500' 1000' 2500' 5000' reels
4	Solid	5.19	0.2043	41,740	1,214	0.2535	126.4	200' 500' 1000' 2500' 5000' reels
2	Solid	6.54	0.2576	66,360	1,930	0.1594	212.8	125' 500' 1000' 5000' reels
8	7	3.71	0.1460	16,510	498	0.6408	51	500' 1000' 2500' 5000' reels
6	7	4.67	0.1840	26,240	795	0.4030	81	315' 500' 1000' 2500' 5000' reels
4	7	5.89	0.2320	41,740	1,320	0.2530	129	200' 500' 1000' 2500' 5000' reels
3	7	6.60	0.2600	52,620	1,670	0.2010	162	500' 1000' 5000' reels
2	7	7.42	0.2920	66,360	2,110	0.1590	205	125' 500' 1000' 2500' 5000' reels
1	19	8.33	0.3280	83,690	2,552	0.1270	258	500' 1000' 5000' reels
1/0*	19	9.14	0.3600	105,600	3,221	0.1022	326	500' 1000' 2500' 5000' reels
2/0*	19	10.26	0.4040	133,100	4,060	0.08108	411	500' 1000' 2500' 5000' reels
3/0*	19	11.53	0.4540	167,800	5,118	0.06431	518	500' 1000' 2500' 5000' reels
4/0*	19	12.95	0.5100	211,600	6,459	0.05099	653	500' 1000' 2500' 5000' reels
250	37	13.77	0.5420	250,000	7,942	0.0423	772	500' 1000' 2500' 4000' reels
300	37	15.09	0.5940	300,000	9,164	0.0353	926	500' 1000' 3500' reels
350	37	16.28	0.6410	350,000	10,685	0.0302	1081	500' 1000' 3000' reels
400	37	17.40	0.6850	400,000	13,435	0.0264	1235	500' 1000' 3000' reels
500	37	19.46	0.7660	500,000	15,242	0.0212	1544	500' 1000' 2500' reels
600	61	22.68	0.8930	600,000	18,300	0.01798	1883	500' 1000' 2000' reels
750	61	25.35	0.9980	750,000	22,894	0.01438	2316	500' 1000' 1500' reels
1000	61	29.26	1.1520	1,000,000	30,500	0.01079	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.