Bare Copper Wire and Cable

Solid and Stranded

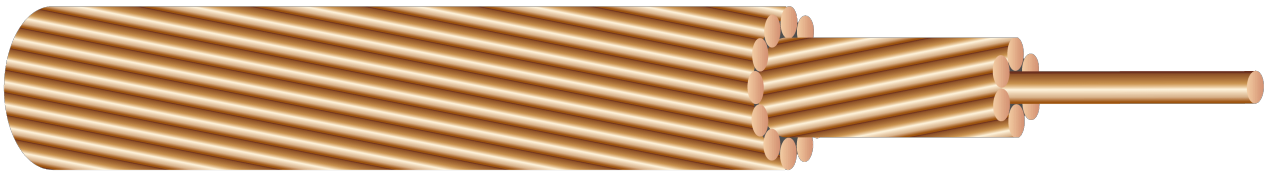


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

Bare copper, solid or stranded.
Available in tempers hard, medium-hard, or soft.
Stranded conductors are concentrically stranded in hard and medium-hard tempers and are Combination Unilay stranded in the soft-drawn temper.

APPLICATIONS AND FEATURES:

Solid and stranded (classes AA and A) bare copper are suitable for overhead transmission and distribution applications. Stranded conductor of greater flexibility (classes B and C) are suitable for uninsulated hook up, jumpers, and grounds in electrical construction. Soft Drawn copper is unilay construction.

SPECIFICATIONS:

- ASTM B1 Hard-Drawn Copper
- ASTM B2 Medium-Hard Drawn Copper Wire
- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire

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Stranded

Stock Number	Size	Stranding	Stranding Class	Weight	Individual Wires Diameter	Complete Conductor Diameter	Hard Drawn: Rated Strength	Hard Drawn: DC Resistance @ 20°C	Medium-Hard Drawn: Rated Strength	Medium-Hard Drawn: DC Resistance @ 20°C	Soft-Drawn (Annealed): Rated Strength	Soft-Drawn (Annealed): DC Resistance @ 20°C	Allowable Ampacity+
	AWG			lbs/ 1000′	mils	mils	lbs	ohms/ 1000′	lbs	ohms/1000′	lbs	ohms/1000′	
	8	7	B	51	49	146	777	0.6663	610	0.6629	499	0.6408	95
	6	7	B	81	61	184	1228	0.4191	959	0.4169	794	0.403	130
	4	7	A, B	128.9	77	232	1938	0.2636	1505	0.2622	1320	0.2534	170
	3	7	A B	162.5	87	260	2433	0.209	1885	0.2079	1670	0.201	200
	2	7	A, B	204.9	97	292	3050	0.166	2360	0.165	2110	0.1578	230
	1	7	A	258.4	109	328	3801	0.1316	2955	0.1309	2552	0.1252	265
	1/0	7	A, AA	326.1	123	368	4752	0.1042	3705	0.1037	3221	0.1002	310
	2/0	7	A, AA	410.9	138	414	5926	0.08267	4640	0.08224	4062	0.07949	355
	2/0	19	B	410.9	84	418	6690	0.08267	4765	0.08224	4024	0.07949	355
	3/0	7	A, AA	518.1	155	464	7366	0.06556	5812	0.06522	5118	0.06304	410
	3/0	19	B	520	101	454	7648*	0.0726*	5653*	0.0723*	4819*	0.06431	410
	4/0	7	A, AA	653.3	174	522	9154	0.05199	7278	0.05172	6459	0.04999	480
	4/0	19	B	653.3	106	528	9617	0.05199	7479	0.05172	6453	0.04999	480
	250	19	A	771.9	115	574	11360	0.044	8836	0.04378	7627	0.04231	530
	250	37	B	771.9	82	575	11600	0.044	8952	0.04378	7940	0.04231	530
	300	19	A	926.2	126	628	13510	0.03667	10530	0.03648	9160	0.03526	590
	300	37	B	926.2	90	630	13714	0.0353	10610	0.0353	9381	0.0353	590
	350	19	A	1080.6	136	679	15590	0.03143	12200	0.03127	10680	0.03022	650
	350	37	B	1080.6	97	681	15620	0.0302	12287	0.0302	10773	0.0302	650
	500	37	A, B	1543.8	116	814	22510	0.022	17550	0.02189	15240	0.02116	810
	600	37	A, AA	1852.5	127	891	27020	0.01834	21060	0.01825	18300	0.01763	910
	600	61	B	1852.5	103	893	27070	0.01834	21113	0.01825	18300	0.01763	910
	750	61	A, B	2315.6	111	998	34090	0.01467	26510	0.01459	22890	0.0141	1040
	1000	61	A, B	3087.5	128	1152	45030	0.011	35100	0.01094	30500	0.01058	1240

+Ampacity based on 75°C conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.
* Interpolated value

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Solid

Size	Weight	Diameter	Circular Mil Area	Hard-Drawn: Rated Strength>	Hard-Drawn: DC Resistance @ 20°C	Medium-Hard Drawn: Rated Strength	Medium-Hard Drawn: DC Resistance @ 20°C	Soft-Drawn (Annealed): Rated Strength	Soft-Drawn (Annealed): DC Resistance @ 20°C	Allowable Ampacity+
AWG	lbs/ 1000'	mils	mils	lbs	ohms/1000'	lbs	ohms/1000'	lbs	ohms/1000'	
14	12.4	64.1	4110	213.5	2.626	166.6	2.613	124.2	2.525	--
13	15.7	72	5180	268	2.083	208.8	2.072	156.6	2.003	--
12	19.8	80.8	6530	336.9	1.652	261.2	1.643	197.5	1.588	--
11	24.9	90.7	8230	422.9	1.31	327.6	1.303	249	1.26	--
10	31.4	101.9	10380	529.2	1.039	410.4	1.033	314	0.999	--
9	39.6	114.4	13090	661.2	0.824	514.2	0.82	380.5	0.792	--
8	50	128.5	16510	826	0.653	643.9	0.65	479.8	0.628	95
7	63	144.3	20820	1030	0.518	806.6	0.515	605	0.498	105
6	79.4	162	26240	1280	0.411	1010	0.409	762.9	0.395	125
5	100.2	181.9	33090	1591	0.326	1265	0.324	961.9	0.313	145
4	126.3	204.3	41740	1970	0.258	1584	0.257	1213	0.249	170
3	159.3	229.4	52620	2439	0.205	1984	0.204	1530	0.197	195
2	200.9	257.6	66360	3003	0.163	2450	0.162	1929	0.156	225
1	253.3	289.3	83690	3688	0.129	3024	0.128	2432	0.124	260

+Ampacity based on 75°C conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.

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