Bare Copper Solid or Compressed

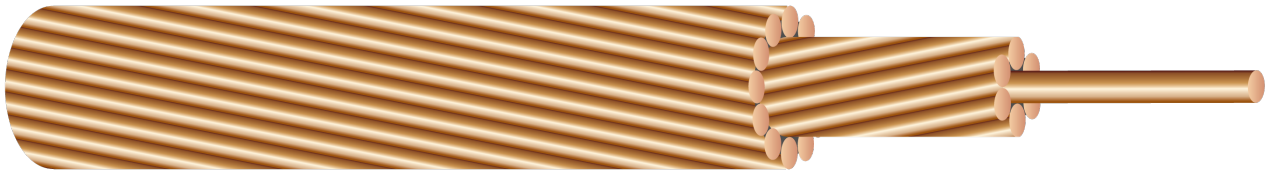

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid bare copper per ASTM B3 or Class A, B, or C, compressed, stranded, bare copper per ASTM B3 and B8

APPLICATIONS AND FEATURES:

Bare copper conductors are suitable for overhead transmission and distribution as well as grounding and general electrical constructions. Stranded conductors (Class A) are ideal for Overhead transmission and distribution lines. More flexible stranded designs (Class B and C) work well for uninsulated connections, jumpers, grounding, or insulated cables for general wiring and underground systems.

Features:

- The conductor is manufactured from Electrolytic Tough Pitch (ETP) copper, designated as Unified Numbering System (UNS) C11000, which applies to all copper products regardless of temper or stranding classification.
- Soft-drawn copper exhibits an electrical conductivity of 100% at 20°C in accordance with the International Annealed Copper Standard (IACS).
- Copper purity is at least 99.9%, with total impurities, including oxygen and other trace elements, limited to a maximum of 0.1%.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Strand Class	Strand Count	Cond. Cmil	Diameter Over Conductor	Approx. OD	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C
	AWG/ kcmil		No. of Strands	cmil	inch	inch	lb/1000ft	Ω/1000ft	Ω/1000ft
550247◊	18	B	7	1620	0.046	0.045	4	6.669	8.277
106088◊	16	SOLID	SOLID	2580	0.051	0.05	7	4.181	5.189
106146◊	14	SOLID	SOLID	4110	0.064	0.064	12	2.631	3.265
TBA	14	B	7	4110	0.071	0.07	12	2.631	3.265
TBA	14	C	19	4110	0.073	0.073	12	2.631	3.265
106203◊	12	SOLID	SOLID	6530	0.081	0.08	20	1.662	2.063
TBA	12	B	7	6530	0.089	0.088	20	1.662	2.063
TBA	12	C	19	6530	0.09	0.09	20	1.662	2.063
106260◊	10	SOLID	SOLID	10380	0.102	0.101	32	1.04	1.291
136416	10	B	7	10380	0.113	0.113	32	1.04	1.291
TBA	10	C	19	10380	0.117	0.117	32	1.04	1.291
106328◊	8	SOLID	SOLID	16510	0.129	0.128	50	0.653	0.81
106567◊	8	B	7	16510	0.142	0.141	50	0.653	0.81
TBA	8	C	19	16510	0.143	0.143	50	0.653	0.81
106385◊	6	SOLID	SOLID	26240	0.162	0.162	81	0.411	0.51
106658◊	6	B	7	26240	0.178	0.177	81	0.411	0.51
TBA	6	C	19	26240	0.179	0.179	81	0.411	0.51
106443◊	4	SOLID	SOLID	41740	0.204	0.204	128	0.258	0.32
106740◊	4	B	7	41740	0.225	0.225	128	0.258	0.32
TBA	4	C	19	41740	0.226	0.226	128	0.258	0.32
TBA	3	SOLID	SOLID	52620	0.229	0.229	162	0.205	0.254
106807◊	3	B	7	52620	0.252	0.26	162	0.205	0.254
TBA	3	C	19	52620	0.254	0.254	162	0.205	0.254
106500◊	2	SOLID	SOLID	66360	0.258	0.257	204	0.162	0.201
106864◊	2	B	7	66360	0.283	0.282	204	0.162	0.201
TBA	2	C	19	66360	0.286	0.286	204	0.162	0.201
TBA	1	SOLID	SOLID	83690	0.289	0.289	258	0.128	0.159
TBA	1	B	19	83690	0.322	0.322	258	0.128	0.159
579195	1	C	37	83690	0.333	0.333	258	0.128	0.159
231282	1/0	SOLID	SOLID	105600	0.325	0.324	325	0.102	0.127
207712◊	1/0	B	19	105600	0.362	0.361	325	0.102	0.127
TBA	2/0	SOLID	SOLID	133100	0.365	0.364	410	0.082	0.102
106955◊	1/0	A	7	105600	0.368	0.368	326	0.102	0.127
TBA	1/0	C	37	105600	0.374	0.373	325	0.102	0.127
207746◊	2/0	B	19	133100	0.405	0.405	410	0.082	0.102
TBA	3/0	SOLID	SOLID	167800	0.41	0.409	518	0.064	0.079

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	AWG/ kcmil		No. of Strands	cmil	inch	inch	lb/1000ft	Ω/1000ft	Ω/1000ft
106989◊	2/0	A	7	133100	0.414	0.413	410	0.082	0.102
162669◊	2/0	C	37	133100	0.42	0.42	410	0.082	0.102
427641◊	3/0	B	19	167800	0.456	0.456	518	0.064	0.079
TBA	4/0	SOLID	SOLID	211600	0.46	0.46	653	0.051	0.063
TBA	3/0	C	37	167800	0.471	0.471	518	0.064	0.079
427633◊	4/0	B	19	211600	0.512	0.512	653	0.051	0.063
107045◊	4/0	A	7	211600	0.522	0.521	653	0.051	0.063
140152◊	4/0	C	37	211600	0.529	0.529	653	0.051	0.063
120337	250	B	37	250000	0.558	0.558	771	0.043	0.053
107078◊	250	A	19	250000	0.574	0.573	771	0.043	0.053
TBA	250	C	61	250000	0.576	0.575	771	0.043	0.053
TBA	300	B	37	300000	0.611	0.61	926	0.036	0.045
TBA	300	C	61	300000	0.631	0.63	926	0.036	0.045
TBA	350	B	37	350000	0.661	0.661	1081	0.031	0.039
107136◊	350	A	19	350000	0.679	0.678	1080	0.031	0.039
207852◊	350	C	61	350000	0.681	0.681	1081	0.031	0.039
471020	400	B	37	400000	0.706	0.705	1235	0.027	0.035
TBA	400	C	61	400000	0.729	0.728	1235	0.027	0.035
TBA	450	B	37	450000	0.749	0.749	1389	0.024	0.031
TBA	450	C	61	450000	0.773	0.773	1389	0.024	0.031
107193	500	B	37	500000	0.789	0.813	1544	0.021	0.027
TBA	500	C	61	500000	0.815	0.814	1544	0.021	0.027
TBA	550	B	61	550000	0.829	0.828	1698	0.019	0.025
TBA	550	C	91	550000	0.855	0.854	1698	0.019	0.025
TBA	600	B	61	600000	0.866	0.865	1853	0.018	0.024
TBA	650	B	61	650000	0.901	0.901	2007	0.016	0.021
TBA	650	C	91	650000	0.929	0.929	2007	0.016	0.021
TBA	700	B	61	700000	0.935	0.935	2161	0.015	0.02
TBA	700	C	91	700000	0.965	0.964	2161	0.015	0.02
107250◊	750	B	61	750000	0.968	0.968	2316	0.014	0.019
TBA	750	C	91	750000	0.999	0.998	2316	0.014	0.019
TBA	800	B	61	800000	1	1	2470	0.013	0.018
TBA	800	C	91	800000	1.032	1.031	2470	0.013	0.018
TBA	900	B	61	900000	1.06	1.06	2779	0.012	0.018
TBA	900	C	91	900000	1.093	1.093	2779	0.012	0.018
107284◊	1000	B	61	1000000	1.117	1.117	3088	0.011	0.016
TBA	1000	C	91	1000000	1.153	1.152	3088	0.011	0.016

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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