



Bare Copper Wire and Cable

Bare Copper Conductor. Solid and Stranded .



APPLICATIONS

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.

SPECIFICATIONS

Bare copper wire and cable meets or exceeds the following ASTM specifications:

- B-3 Soft or Annealed Copper Wire.
- B-8 Concentric-Lay-Stranded Copper Conductors, Soft.

CONSTRUCTION

Bare copper, solid or stranded. Available in temper soft. Stranded conductors are concentrically stranded.

Solids

Size (AWG)	Weight Per 1000 Ft (lbs.)	Diam. (mils)	Area (cmils)	Soft-Drawn (annealed)		Allowable Ampacity
				Rated Strength (lbs.)	DC Resistance Ohms/1000ft. @ 20°C	
14	12.4	64.1	4110	124.2	2.525	----
12	19.8	80.8	6530	197.5	1.588	----
10	31.4	101.9	10380	314.0	0.999	----
8	50.0	128.5	16510	479.8	0.628	95
6	79.4	162	26240	762.9	0.395	125
4	126.3	204.3	41740	1213.0	0.249	170
2	200.9	257.6	66360	1929.0	0.156	225

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



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Stranded

Size (AWG) or kcm	No. wires	Stranding class	Weight Per 1000 Ft (lbs.)	Diam. (mils)		Soft-Drawn (annealed)		Allowable Ampacity
				wires	Complete cable	Rated Strength (lbs.)	DC Resistance Ohms/1000ft. @ 20°C	
8	7	B	51	49	146	499	0.6408	95
6	7	B	81	61	184	794	0.4030	130
4	7	A, B	128.9	77	232	1320	0.2534	170
3	7	A, B	162.5	87	260	1670	0.2010	200
2	7	A, B	204.9	97	292	2110	0.1578	230
1	7	A	258.4	109	328	2552	0.1252	265
1/0	7	A, AA	326.1	123	368	3221	0.1002	310
2/0	19	B	410.9	84	418	4024	0.07949	355
2/0	7	A, AA	410.9	138	414	4062	0.07949	355
3/0	7	A, AA	518.1	155	464	5118	0.06304	410
4/0	19	B	653.3	106	528	6453	0.04999	480
4/0	7	A, AA	653.3	174	522	6459	0.04999	480
250	19	A	771.9	115	574	7627	0.04231	530
250	37	B	771.9	82	575	7940	0.04231	530
300	19	A	926.2	126	628	9160	0.03526	590
350	19	A	1080.6	136	679	10680	0.03022	650
500	37	A, B	1543.8	116	814	15240	0.02116	810

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