Stranded Bare Copper

CONSTRUCTION AT A GLANCE

CONDUCTOR TYPE 1
COPPER

APPLICATIONS

- Suitable for use in substations as uninsulated hook ups, jumpers, and grounds

CONSTRUCTION DETAILS

- Bare copper conductor
- Available in soft-drawn (annealed), medium-hard-drawn, or hard-drawn tempers
- Concentric-lay or combination unilay stranded, depending on stranding and temper

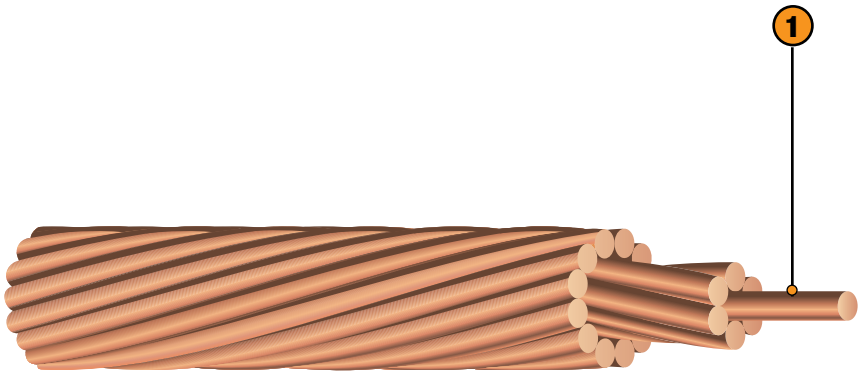
SPECIFICATIONS

Southwire's Bare Copper Conductor meets or exceeds applicable ASTM specifications:

- **B 1:** Hard-Drawn Copper Wire
- **B 2:** Medium-Hard-Drawn Copper Wire
- **B 3:** Soft or Annealed Copper Wire
- **B 8:** Concentric-Lay-Stranded Copper Conductor, Hard, Medium-Hard or Soft
- **B 787:** 19 Wire Combination Unilay-Stranded Copper Conductor

OPTIONS

- Solid (1 strand)
- Stranded (7, 19, 37, 61 strands)



Size (AWG or kcmil)	Strand-ing	Strand-ing Class	Weight (lbs/ 1000 ft)	Diameter (inches)		Hard Drawn		Medium-Hard Drawn		Soft Drawn (Annealed)		Allowable Ampacity+
				Indi-vidual	Complete Cable	Rated Stren-gth (lbs)	R_{dc} @ 20°C (Ω/1000 ft)	Rated Strength (lbs)	R_{dc} @ 20°C (Ω/1000 ft)	Rated Stren-gth (lbs)	R_{dc} @ 20°C (Ω/1000 ft)	
8	7	B	51	0.049	0.146	777	0.6663	610	0.6629	499	0.6408	95
6	7	B	81	0.061	0.184	1228	0.4191	959	0.4169	794	0.4030	130
4	7	A, B	129	0.077	0.232	1938	0.2636	1505	0.2622	1320	0.2534	170
3	7	A, B	163	0.087	0.260	2433	0.2090	1885	0.2079	1670	0.2010	200
2	7	A, B	205	0.097	0.292	3050	0.1660	2360	0.1650	2110	0.1578	230
1	7	A	258	0.109	0.328	3801	0.1316	2955	0.1309	2552	0.1252	265
1/0	7	A, AA	326	0.123	0.368	4752	0.1042	3705	0.1037	3221	0.1002	310
1/0	19	B	326	0.075	0.373	4752	0.1042	3705	0.1037	3221	0.1002	310
2/0	7	A, AA	411	0.138	0.414	5926	0.0827	4640	0.0822	4062	0.0795	355
2/0	19	B	411	0.084	0.418	6690	0.0827	4765	0.0822	4024	0.0795	355
3/0	7	A, AA	518	0.155	0.464	7366	0.0656	5812	0.0652	5118	0.0630	410
4/0	7	A, AA	653	0.174	0.522	9154	0.0520	7278	0.0517	6459	0.0500	480
4/0	19	B	653	0.106	0.528	9617	0.0520	7479	0.0517	6453	0.0500	480
250	19	A	772	0.115	0.574	11360	0.0440	8836	0.0438	7627	0.0423	530
250	37	B	772	0.082	0.575	11600	0.0440	8952	0.0438	7940	0.0423	530
300	19	A	926	0.126	0.628	13510	0.0367	10530	0.0365	9160	0.0353	590
350	19	A	1081	0.136	0.679	15590	0.0314	12200	0.0313	10680	0.0302	650
500	37	A, B	1544	0.116	0.814	22510	0.0220	17550	0.0219	15240	0.0212	810
600	37	A, AA	1853	0.127	0.891	27020	0.0183	21060	0.0183	18300	0.0176	910
750	61	A, B	2316	0.111	0.998	34090	0.0147	26510	0.0146	22890	0.0141	1040
1000	61	A, B	3088	0.128	1.152	45030	0.0110	35100	0.0109	30500	0.0106	1240

+ Ampacity based on 75°C conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.
* Numbers shown above are for concentrically stranded constructions and may vary slightly for combination unilay stranded constructions.
Dimensions and weights shown above are nominal and subject to industry tolerances.