



Soft drawn bare copper wire



Product Description

Solid or concentric-lay stranded bare copper conductors available in soft, medium-hard, or hard temper. Solid or stranded tin coated copper conductors available in soft temper only.

Application

Used in overhead electrical transmission and distribution for grounding electrical systems where high conductivity and flexibility is required. Suitable for numerous other applications.

Product Data

Size (AWG)	Stranding	Weight Per 1000 ft. (lbs.)	Diameter (inches)		Hard-Drawn		Medium-Hard Drawn		Soft-Drawn		Allowable Ampacity
			Individual Wires	Complete Cable	Rated Strength (lbs.)	DC Resistance Ohms/1000 ft. @ 20°C	Rated Strength (lbs.)	DC Resistance Ohms/1000 ft. @ 20°C	Rated Strength (lbs.)	DC Resistance Ohms/1000 ft. @ 20°C	
10	7	32.06	0.043	0.13	492	1.06	389	1.054	314	1.019	50
8	7	51	0.049	0.146	777	0.6663	610	0.6629	499	0.6408	95
6	7	81.1	0.061	0.184	1228	0.4191	959	0.4169	794	0.403	130
4	7	128.9	0.077	0.232	1938	0.2636	1505	0.2622	1320	0.2534	170
3	7	162.5	0.087	0.26	2433	0.209	1885	0.2079	1670	0.201	200
2	7	204.9	0.097	0.292	3050	0.166	2360	0.165	2110	0.1578	230
1	7	258.4	0.109	0.328	3801	0.1316	2955	0.1309	2552	0.1252	265
1/0	7	325.8	0.123	0.368	4752	0.1042	3705	0.1037	3221	0.1002	310
1/0	19	325.8	0.075	0.373	4752	0.1042	3705	0.1037	3221	0.1002	310
2/0	7	410.9	0.138	0.414	5926	0.08267	4640	0.08224	4062	0.07949	355
2/0	19	410.9	0.084	0.418	6690	0.08267	4765	0.08224	4024	0.07949	355
3/0	7	518.1	0.155	0.464	7366	0.06556	5812	0.06522	5118	0.06304	410
3/0	19	518.1	0.094	0.47	7698	0.06556	5970	0.06522	5074	0.06304	410
4/0	7	653.3	0.174	0.522	9154	0.05199	7278	0.05172	6459	0.04999	480
4/0	19	653.3	0.106	0.528	9617	0.05199	7479	0.05172	6453	0.04999	480
250	19	771.9	0.115	0.574	11360	0.044	8836	0.04378	7627	0.04231	530



Size (AWG)	Stranding	Weight Per 1000 ft. (lbs.)	Diameter (inches)		Hard-Drawn		Medium-Hard Drawn		Soft-Drawn		Allowable Ampacity +
			Individual Wires	Complete Cable	Rated Strength (lbs.)	DC Resistance Ohms/1000 ft. @ 20°C	Rated Strength (lbs.)	DC Resistance Ohms/1000 ft. @ 20°C	Rated Strength (lbs.)	DC Resistance Ohms/1000 ft. @ 20°C	
250	37	771.9	0.082	0.575	11600	0.044	8952	0.04378	7940	0.04231	530
300	19	926.3	0.126	0.628	13510	0.03667	10530	0.03648	9160	0.03526	590
300	37	926.3	0.09	0.63	—	—	—	—	—	—	—
350	19	1081	0.136	0.679	15590	0.03143	12200	0.03127	10680	0.03022	650
350	37	1081	0.097	0.681	16060	0.03143	12450	0.03127	10580	0.03022	650
400	19	1235	0.1451	0.725	—	—	—	—	—	—	—
400	37	1235	0.104	0.728	—	—	—	—	—	—	—
500	37	1544	0.116	0.814	22510	0.022	17550	0.02189	15240	0.02116	810
600	37	1853	0.127	0.891	27020	0.01834	21060	0.01825	18300	0.01763	910
750	61	2316	0.111	0.998	34090	0.01467	26510	0.01459	22890	0.0141	1040
1000	61	3088	0.128	1.152	45030	0.011	35100	0.01094	30500	0.01058	1240
1250	61	3859	0.1431	1.293	55670	0.008801	43590	0.008755	36320	0.008463	1075
1250	91	3859	0.116	1.289	56280	0.008801	43880	0.008755	36320	0.008463	1075
1500	61	4631	0.1568	1.411	65840	0.007334	51950	0.007296	43590	0.007052	1180
1500	91	4631	0.128	1.412	67540	0.007334	52650	0.007296	43590	0.007052	1180

Specification Data

ASTM B-1 Hard-drawn copper wire

ASTM B-2 Medium-hard-drawn copper wire

ASTM B-3 Soft or annealed copper wire

ASTM B-8 Concentric-layer stranded copper conductors: hard, medium-hard, or soft

ASTM B-33 Tinned soft or annealed copper wire