

Stranded Bare & Tinned Copper

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	.043	.130	492	1.060	389	1.054	314	1.019	50
8	7	51.0	.049	.146	777	.6663	610	.6629	499	.6408	95
6	7	81.1	.061	.184	1228	.4191	959	.4169	794	.4030	130
4	7	128.9	.077	.232	1938	.2636	1505	.2622	1320	.2534	170
3	7	162.5	.087	.260	2433	.2090	1885	.2079	1670	.2010	200
2	7	204.9	.097	.292	3050	.1660	2360	.1650	2110	.1578	230
1	7	258.4	.109	.328	3801	.1316	2955	.1309	2552	.1252	265
1/0	7	325.8	.123	.368	4752	.1042	3705	.1037	3221	.1002	310

1/0	19	325.8	.075	.373	4752	.1042	3705	.1037	3221	.1002	310
2/0	7	410.9	.138	.414	5926	.08267	4640	.08224	4062	.07949	355
2/0	19	410.9	.084	.418	6690	.08267	4765	.08224	4024	.07949	355
3/0	7	518.1	.155	.464	7366	.06556	5812	.06522	5118	.06304	410
3/0	19	518.1	.094	.470	7698	.06556	5970	.06522	5074	.06304	410
4/0	7	653.3	.174	.522	9154	.05199	7278	.05172	6459	.04999	480
4/0	19	653.3	.106	.528	9617	.05199	7479	.05172	6453	.04999	480
250	19	771.9	.115	.574	11360	.04400	8836	.04378	7627	.04231	530
250	37	771.9	.082	.575	11600	.04400	8952	.04378	7940	.04231	530
300	19	926.3	.126	.628	13510	.03667	10530	.03648	9160	.03526	590
300	37	926.3	.090	.630	---	---	---	---	---	---	---
350	19	1081	.136	.679	15590	.03143	12200	.03127	10680	.03022	650
350	37	1081	.097	.681	16060	.03143	12450	.03127	10580	.03022	650
400	19	1235	.1451	.725	---	---	---	---	---	---	---
400	37	1235	.104	.728	---	---	---	---	---	---	---
500	37	1544	.116	.814	22510	.02200	17550	.02189	15240	.02116	810
600	37	1853	.127	.891	27020	.01834	21060	.01825	18300	.01763	910
750	61	2316	.111	.998	34090	.01467	26510	.01459	22890	.01410	1040
1000	61	3088	.128	1.152	45030	.01100	35100	.01094	30500	.01058	1240
1250	61	3859	.1431	1.293	55670	.008801	43590	.008755	36320	.008463	1075
1250	91	3859	.116	1.289	56280	.008801	43880	.008755	36320	.008463	1075
1500	61	4631	.1568	1.411	65840	.007334	51950	.007296	43590	.007052	1180
1500	91	4631	.128	1.412	67540	.007334	52650	.007296	43590	.007052	1180

Solid Bare & Tinned Copper

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 ground electrical systems where high conductivity and flexibility is required. Suitable for numerous other applications.

Product Data

Size (AWG)	Weight Per 1000 ft.(lbs.)	Diameter (Inches)	Hard-Drawn		Medium-Hard Drawn		Soft-Drawn		Allowable Ampacity+
			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	
20	3.1	0.032	53.35	10.56	42.62	10.44	31.0	10.07	11.0
18	4.92	0.0403	85.46	6.66	67.6	6.61	49.1	6.39	16.0
16	7.81	0.0508	135.	4.18	106	4.16	62.1	5.05	22.0
14	12.43	0.0641	213.5	2.626	166.6	2.613	124.2	2.525	32.0
12	19.77	0.0808	336.9	1.652	261.2	1.643	197.5	1.588	41.0
10	31.43	0.1019	529.2	1.039	410.4	1.033	314	0.999	68.0
8	49.98	0.1285	826	0.653	643.9	0.65	479.8	0.628	95.0
6	79.46	0.162	1280	0.411	1010	0.409	762.9	0.395	125.0
4	126.40	0.2043	1970	0.258	1584	0.257	1213	0.249	170.0
3	159.30	0.2294	2439	0.205	1984	0.204	1530	0.197	195.0
2	200.90	0.2576	3003	0.163	2450	0.162	1929	0.156	225.0
1	253.30	0.2893	3688	0.129	3024	0.128	2432	0.124	260.0
1/0	319.40	0.3249	4518	.1022	3731	.1016	2985	.09825	300.0
2/0	402.80	0.3648	5519	.08021	4599	.07980	3763	.07793	350.0

3/0 507.80 0.4096 6720 .06362 5666 .06330 4744 .06182 405.0

4/0 640.50 0.4600 8143 .05045 6980 .05019 5983 .04901 470.0

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