

Stranded Bare & Tinned Copper

APPLICATION:

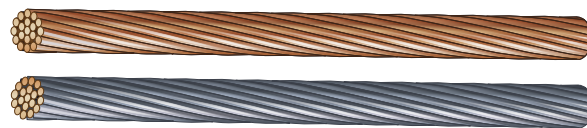
Stranded Bare & Tinned copper conductors are used in overhead electrical transmission and distribution for grounding electrical systems where high conductivity and flexibility is required. Suitable for numerous other applications.

CONDUCTORS:

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

TIN COATING:

- Where applicable, a soft drawn conductor is either hot dipped or electroplated with tin. This process significantly improves corrosion resistance.



STANDARDS:

- 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-lay stranded copper conductors: hard, medium-hard, or soft
- ASTM B-33 Tinned soft or annealed copper wire
- ASTM B-258
- Federal Spec QQ-W-343

Size	No. of Strands	Hard-Drawn		Medium-Hard Drawn		Soft-Drawn		Overall Diameter	Net Weight	Allowable Ampacity*
		Rated Strength	DC Resistance @ 20°C	Rated Strength	DC Resistance @ 20°C	Rated Strength	DC Resistance @ 20°C			
AWG/kcmil		lbs.	Ohms/1000'	lbs.	Ohms/1000'	lbs.	Ohms/1000'	inches	lbs/kft	
10	7	492	1.06000	389	1.05400	314	1.01900	0.130	32.06	50
8	7	777	0.66630	610	0.66290	499	0.64080	0.146	51.0	95
6	7	1,228	0.41910	959	0.41690	794	0.40300	0.184	81.1	130
4	7	1,938	0.26360	1,505	0.26220	1,320	0.25340	0.232	128.9	170
3	7	2,433	0.20900	1,885	0.20790	1,670	0.20100	0.260	162.5	200
2	7	3,050	0.16600	2,360	0.16500	2,110	0.15780	0.292	204.9	230
1	7	3,801	0.13160	2,955	0.13090	2,552	0.12520	0.328	258.4	265
1/0	7	4,752	0.10420	3,705	0.10370	3,221	0.10020	0.368	325.8	310
1/0	19	4,752	0.10420	3,705	0.10370	3,221	0.10020	0.373	325.8	310
2/0	7	5,926	0.08267	4,640	0.08224	4,062	0.07949	0.414	410.9	355
2/0	19	6,690	0.08267	4,765	0.08224	4,024	0.07949	0.418	410.9	355
3/0	7	7,366	0.06556	5,812	0.06522	5,118	0.06304	0.464	518.1	410
3/0	19	7,698	0.06556	5,970	0.06522	5,074	0.06304	0.470	518.1	410
4/0	7	9,154	0.05199	7,278	0.05172	6,459	0.04999	0.522	653.3	480
4/0	19	9,617	0.05199	7,479	0.05172	6,453	0.04999	0.528	653.3	480
250	19	11,360	0.04400	8,836	0.04378	7,627	0.04231	0.574	771.9	530
250	37	11,600	0.04400	8,952	0.04378	7,940	0.04231	0.575	771.9	530
300	19	13,510	0.03667	10,530	0.03648	9,160	0.03526	0.628	926.3	590
300	37	—	—	—	—	—	—	0.630	926.3	—
350	19	15,590	0.03143	12,200	0.03127	10,680	0.03022	0.679	1,081	650
350	37	16,060	0.03143	12,450	0.03127	10,580	0.03022	0.681	1,081	650

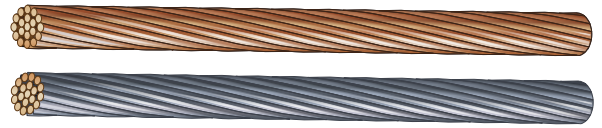
All values are nominal and subject to correction.

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

1-877-611-5122
www.PriorityWire.ca



Stranded Bare & Tinned Copper



Size	No. of Strands	Hard-Drawn		Medium-Hard Drawn		Soft-Drawn		Overall Diameter	Net Weight	Allowable Ampacity*
		Rated Strength	DC Resistance @ 20°C	Rated Strength	DC Resistance @ 20°C	Rated Strength	DC Resistance @ 20°C			
AWG/kcmil		lbs.	Ohms/1000'	lbs.	Ohms/1000'	lbs.	Ohms/1000'	inches	lbs/1000'	
400	19	—	—	—	—	—	—	0.725	1,235	—
400	37	—	—	—	—	—	—	0.728	1,235	—
500	37	22,510	0.02200	17,550	0.02189	15,240	0.02116	0.814	1,544	810
600	37	27,020	0.01834	21,060	0.01825	18,300	0.01763	0.891	1,853	910
750	61	34,090	0.01467	26,510	0.01459	22,890	0.01410	0.998	2,316	1,040
1,000	61	45,030	0.01100	35,100	0.01094	30,500	0.01058	1.152	3,088	1,240
1,250	61	55,670	0.008801	43,590	0.008755	36,320	0.008463	1.293	3,859	—
1,250	91	56,280	0.008801	43,880	0.008755	36,320	0.008463	1.289	3,859	—
1,500	61	65,840	0.007334	51,950	0.007296	43,590	0.007052	1.411	4,631	—
1,500	91	67,540	0.007334	52,650	0.007296	43,590	0.007052	1.412	4,631	—

All values are nominal and subject to correction.

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

1-877-611-5122
www.PriorityWire.ca