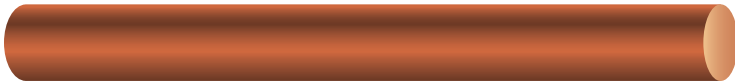




Bare & Tinned Copper Wire - Solid Spec Sheet

Base Sku Bare Copper: 700
Base Sku Tinned Copper: 702

Bare Copper



Tinned Copper



DESCRIPTION:

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

APPLICATION:

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

SPECIFICATIONS:

- 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

Size	Weight Per 1000 ft.	Diameter	Hard-Drawn		Medium-Hard Drawn		Soft-Drawn		Allowable Ampacity+
			Rated Strength	DC Resistance Ohms/1000 ft. @ 20°C	Rated Strength	DC Resistance Ohms/1000 ft. @ 20°C	Rated Strength	DC Resistance Ohms/1000 ft. @ 20°C	
20 AWG	3.10 lbs	.032"	53.35 lbs	10.56	42.62 lbs	10.44	31 lbs	10.07	11.0
18 AWG	4.92 lbs	.0403"	85.46 lbs	6.66	67.6 lbs	6.61	49.1 lbs	6.39	16.0
16 AWG	7.81 lbs	.0508"	135 lbs	4.18	106 lbs	4.16	62.1 lbs	5.05	22.0
14 AWG	12.43 lbs	.0641"	213.5 lbs	2.626	166.6 lbs	2.613	124.2 lbs	2.525	32.0
12 AWG	19.77 lbs	.0808"	336.9 lbs	1.652	261.2 lbs	1.643	197.5 lbs	1.588	41.0
10 AWG	31.43 lbs	.1019"	529.2 lbs	1.039	410.4 lbs	1.033	314 lbs	0.999	68.0
8 AWG	49.98 lbs	.1285"	826 lbs	0.653	643.9 lbs	0.65	479.8 lbs	0.628	95.0
6 AWG	79.46 lbs	.1620"	1280 lbs	0.411	1010 lbs	0.409	762.9 lbs	0.395	125.0
4 AWG	126.4 lbs	.2043"	1970 lbs	0.258	1584 lbs	0.257	1213 lbs	0.249	170.0
3 AWG	159.3 lbs	.2294"	2439 lbs	0.205	1984 lbs	0.204	1530 lbs	0.197	195.0
2 AWG	200.9 lbs	.2576"	3003 lbs	0.163	2450 lbs	0.162	1929 lbs	0.156	225.0
1 AWG	253.3 lbs	.2893"	3688 lbs	0.129	3024 lbs	0.128	2432 lbs	0.124	260.0
1/0 AWG	319.4 lbs	.3249"	4518 lbs	0.122	3731 lbs	0.1016	2985 lbs	0.09825	300.0
2/0 AWG	402.8 lbs	.3648"	5519 lbs	0.08021	4599 lbs	0.07980	3763 lbs	0.07793	350.0
3/0 AWG	507.8 lbs	.4096"	6720 lbs	0.06362	5666 lbs	0.06330	4744 lbs	0.06182	405.0
4/0 AWG	640.5 lbs	.4600"	8143 lbs	0.0545	6980 lbs	0.05019	5983 lbs	0.04901	470.0

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