



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.

*Manufactured with pride in DeKalb, IL USA.

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-lay stranded copper conductors: hard, medium-hard, or soft
ASTM B-33	Tinned soft or annealed copper wire

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