

Solid Bare Copper



APPLICATION:

Solid Bare 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:

- Solid bare copper conductors available in soft, medium-hard, or hard temper

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 Sepec QQ-W-343

Part Number**	Size	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'	
F20SOL	20	53.35	10.5600	42.62	10.4400	31.0	10.0700	0.032	3.1	11
F18SOL	18	85.46	6.6600	67.6	6.6100	49.1	6.3900	0.040	4.9	16
F16SOL	16	135	4.1800	106	4.1600	62.1	5.0500	0.051	7.81	22
F14SOL	14	213.5	2.6260	166.6	2.6130	124.2	2.5250	0.064	12.43	32
F12SOL	12	336.9	1.6520	261.2	1.6430	197.5	1.5880	0.081	19.77	41
F10SOL	10	529.2	1.0390	410.4	1.0330	314	0.9990	0.102	31.43	68
F8SOL	8	826	0.6530	643.9	0.6500	479.8	0.6280	0.129	49.98	95
F6SOL	6	1,280	0.4110	1,010	0.4090	762.9	0.3950	0.162	79.46	125
F4SOL	4	1,970	0.2580	1,584	0.2570	1,213	0.2490	0.204	126.4	170
F3SOL	3	2,439	0.2050	1,984	0.2040	1,530	0.1970	0.229	159.3	195
F2SOL	2	3,003	0.1630	2,450	0.1620	1,929	0.1560	0.258	200.9	225
F1SOL	1	3,688	0.1290	3,024	0.1280	2,432	0.1240	0.289	253.3	260
F1/0SOL	1/0	4,518	0.1022	3,731	0.1016	2,985	0.0983	0.325	319.4	300
F2/0SOL	2/0	5,519	0.08021	4,599	0.07980	3,763	0.07793	0.365	402.8	350
F3/0SOL	3/0	6,720	0.06362	5,666	0.06330	4,744	0.06182	0.410	507.8	405
F4/0SOL	4/0	8,143	0.05045	6,980	0.05019	5,983	0.04901	0.460	640.5	470

All values are nominal and subject to correction.

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

**Part number suffix added to end

** Part Number Suffixes:	
SD	Soft Drawn
MHD	Medium Hard Drawn
HD	Hard Drawn