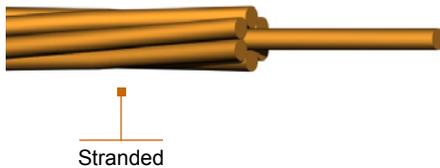


Bare Copper Conductor

Bare Copper Solid or Stranded Conductor (Medium-Hard Drawn)



Detail Description or Construction

Solid or Concentric stranded medium-hard drawn bare copper conductor.

Application

For aerial power transmission and distribution line, circuit ground connections as well as machinery and equipment grounding.

Standards / Testing Specifications

- Bare conductors have been designed according to ASTM B2, B8 specifications and requirements of the latest version of the National Electrical Code (NEC).

Marking

Indent and embossed mark are printed on solid conductor or central wire for stranded conductor, if requested.

Installation

Medium-hard drawn copper conductor can be installed in air. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation.



Bare Copper Conductor

Bare Copper Solid or Stranded Conductor (Medium-Hard Drawn)

SOLID										
Size	Section		Minimum Wire Diameter	Resistance DC @ 20°C	Minimum Wire Elongation Before Stranding	Tensile Strength		Tensile Strength		Total Weight
	Cmils	mm ²				mm	Ω / km	%	Minimum	
AWG/MCM	Cmils	mm ²	mm	Ω / km	%	MPa		kg / mm ²		kg / km
1	83,690	42.41	7.348	0.429	2.8	315	365	32.1	37.2	377
2	66,360	33.62	6.543	0.541	2.5	325	370	33.1	37.7	299
4	41,740	21.15	5.189	0.860	1.9	335	380	34.2	38.7	188
6	26,240	13.30	4.115	1.368	1.5	340	385	34.7	39.3	118
8	16,510	8.37	3.264	2.175	1.3	340	390	34.7	39.8	74
10	10,380	5.26	2.588	3.459	1.2	345	395	35.2	40.3	47
12	6,530	3.31	2.052	5.499	1.1	350	400	35.7	40.8	29
14	4,110	2.08	1.628	8.736	1.0	355	405	36.2	41.3	19
16	2,580	1.31	1.290	13.917	1.0	360	410	36.7	41.8	12
18	1,620	0.82	1.024	22.164	1.0	365	415	37.2	42.3	7

For current ampacity details please refer to NEC tables 310-21.



Bare Copper Conductor

Bare Copper Solid or Stranded Conductor (Medium-Hard Drawn)

CLASS "A"												
Size	Section		Number Of Wires	Wire Diameter	Conductor Diameter	Resistance DC @ 20°C	Minimum Wire Elongation Before Stranding	Tensile Strength		Tensile Strength After Stranding		Total Weight
								Min	Max	Min	Max	
AWG/MCM	Cmils	mm ²		mm	mm	Ω / Km	%	kg / mm ²		kg		kg / km
4	41,740	21.1	7	1.96	5.88	0.860	1.1	35.7	40.8	679	776	192
2	66,360	33.6	7	2.47	7.42	0.541	1.2	35.2	40.3	1,065	1,219	305
1/0	105,600	53.5	7	3.12	9.36	0.340	1.3	34.7	39.8	1,670	1,915	485
2/0	133,100	67.4	7	3.50	10.5	0.270	1.4	34.7	39.8	2,104	2,414	611
3/0	211,600	107.2	7	4.42	13.2	0.170	1.7	34.2	39.3	3,296	3,788	972
250	250,000	126.7	19	2.91	14.6	0.144	1.3	34.7	39.8	3,953	4,534	1,149
300	300,000	152.0	19	3.19	16.0	0.120	1.3	34.7	39.8	4,743	5,441	1,379
350	350,000	177.3	19	3.45	17.2	0.103	1.4	34.7	39.8	5,534	6,348	1,609
400	400,000	202.7	19	3.69	18.4	0.090	1.5	34.7	39.3	6,324	7,161	1,838
500	500,000	253.4	37	2.95	20.7	0.072	1.3	34.7	39.8	7,905	9,068	2,298
600	600,000	304.0	37	3.23	22.6	0.060	1.4	34.7	39.8	9,486	10,881	2,758
700	700,000	354.7	61	2.72	24.5	0.051	1.3	35.2	40.3	11,230	12,858	3,216
750	750,000	380.0	61	2.82	25.3	0.048	1.3	35.2	40.3	12,032	13,776	3,447
800	800,000	405.4	61	2.91	26.2	0.045	1.3	34.7	39.8	12,649	14,509	3,676
900	900,000	456.0	61	3.09	27.8	0.040	1.3	34.7	39.8	14,230	16,322	4,136
1000	1,000,000	506.7	61	3.25	29.3	0.036	1.3	34.7	39.8	15,811	18,136	4,596

For current ampacity details please refer to NEC tables 310-21.



Bare Copper Conductor

Bare Copper Solid or Stranded Conductor (Medium-Hard Drawn)

CLASS "B"														
Size	Section		Number Of Wires	Wire Diameter	Conductor Diameter	Resistance DC @20°C	Minimum Wire Elongation Before Stranding	Tensile Strength		Tensile Strength		Tensile Strength After Stranding		Total Weight
	AWG/MCM	Cmils		mm ²	mm	mm	Ω/Km	%	Min	Max	Min	Max	Min	
								MPa		kg / mm ²		kg		
4	41,74	21.1	7	1.96	5.88	0.860	1.1	350	400	35.7	40.8	679	776	192
2	66,36	33.6	7	2.47	7.42	0.541	1.2	345	395	35.2	40.3	1,065	1,219	305
1/0	105,6	53.5	19	1.89	9.47	0.340	1.1	350	400	35.7	40.8	1,719	1,964	485
2/0	133,1	67.4	19	2.13	10.6	0.270	1.2	350	400	35.7	40.8	2,166	2,476	611
4/0	211,6	107.2	19	2.68	13.4	0.170	1.3	345	395	35.2	40.3	3,395	3,887	972
250	250	126.7	37	2.09	14.6	0.144	1.2	350	400	35.7	40.8	4,069	4,650	1,149
300	300	152.0	37	2.29	16.0	0.120	1.2	350	400	35.7	40.8	4,883	5,580	1,379
350	350	177.3	37	2.47	17.3	0.103	1.2	345	395	35.2	40.3	5,615	6,429	1,609
400	400	202.7	37	2.64	18.5	0.090	1.3	345	395	35.2	40.3	6,417	7,347	1,838
500	500	253.4	37	2.95	20.7	0.072	1.3	340	390	34.7	39.8	7,905	9,068	2,298
600	600	304.0	61	2.52	22.7	0.060	1.2	345	395	35.2	40.3	9,626	11,021	2,758
700	700	354.7	61	2.72	24.5	0.051	1.3	345	395	35.2	40.3	11,230	12,858	3,216
750	750	380.0	61	2.82	25.3	0.048	1.3	345	395	35.2	40.3	12,032	13,776	3,447
800	800	405.4	61	2.91	26.2	0.045	1.3	345	395	35.2	40.3	12,835	14,695	3,676
900	900	456.0	61	3.09	27.8	0.040	1.3	340	390	34.7	39.8	14,230	16,322	4,136
1000	1,000	506.7	61	3.25	29.3	0.036	1.3	340	390	34.7	39.8	15,811	18,136	4,596

For current ampacity details please refer to NEC tables 310-21.