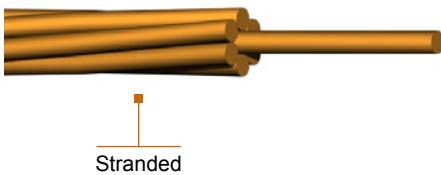


Bare Copper Conductor

Soft Drawn Copper Conductor



Detail Description or Construction

Solid or Concentric stranded bare Soft or Annealed Copper. Stranded products have a concentric construction Class B as well as Combination Unilay.

Application

Bare Soft or Annealed Copper conductors are recommended to be used for circuit ground connections as well as machinery and equipment grounding.

Standards / Testing Specifications

- Bare conductors have been designed according to ASTM B3, B8 specifications and requirements of the latest version of the National Electrical Code (NEC). TIS 11-2531 (Thai Industrial Standard 11-2531), IEC or any international standard as requested.

Marking

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

Installation

Soft 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.

Packaging

Coils up to 500 kg, as requested.
Wooden or metallic reels 500 or 1000 m.



Bare Copper Conductor

Soft Drawn Copper Conductor

SOLID						
Size	Section		Minimum Wire Diameter	Resistance DC @ 20°C	Minimum Elongation in 10 in. Wire before Stranding (254 mm)	Total Weight
AWG / MCM	Cmil	mm ²	mm	Ω / km	%	kg / km
1	83,690	42.41	7.348	0.415	30	377
2	66,360	33.62	6.543	0.523	30	299
4	41,740	21.15	5.189	0.831	30	188
6	26,240	13.30	4.115	1.32	30	118
8	16,510	8.37	3.264	2.10	30	74.4
10	10,380	5.26	2.588	3.34	25	46.8
12	6,530	3.31	2.052	5.31	25	29.4
14	4,110	2.08	1.628	8.44	25	18.5
16	2,580	1.31	1.290	13.5	25	11.6
18	1,620	0.82	1.024	21.4	25	7.32
20	1,020	0.52	0.813	34.0	25	4.62
22	640	0.32	0.643	54.2	25	2.88
24	404	0.20	0.511	85.9	20	1.82
26	253	0.13	0.404	137.2	20	1.14
28	159	0.08	0.320	218.3	20	0.715
30	100	0.05	0.254	347.1	15	0.450

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



Bare Copper Conductor

Soft Drawn Copper Conductor

CLASE "B"								
Size	Section		Number of Wires	Wire Diameter	Total Diameter	Resistance DC @ 20°C	Minimum Elongation in 10 In. Wire before Stranding (254 mm)	Total Weight
	AWG / MCM	Cmil		mm ²	mm	mm	Ω / km	%
22	640	0.324	7	0.243	0.73	54.2	15	2.97
20	1,020	0.517	7	0.307	0.92	34.0	20	4.69
18	1,620	0.821	7	0.386	1.16	21.4	20	7.46
16	2,580	1.307	7	0.488	1.46	13.5	20	11.87
14	4,110	2.083	7	0.615	1.85	8.44	25	18.87
12	6,530	3.309	7	0.776	2.33	5.31	25	30.00
10	10,380	5.26	7	0.978	2.93	3.34	25	47.72
8	15,510	7.859	7	1.20	3.59	2.24	25	75.86
6	26,240	13.3	7	1.56	4.67	1.32	25	121
4	41,740	21.15	7	1.96	5.88	0.831	25	192
2	66,360	33.62	7	2.47	7.42	0.523	25	305
1	83,690	42.41	19	1.69	8.43	0.415	25	385
1/0	105,600	53.49	19	1.89	9.47	0.329	25	485
2/0	133,100	67.43	19	2.13	10.6	0.261	25	611
3/0	167,800	85.0	19	2.39	11.9	0.207	25	771
4/0	211,600	107.2	19	2.68	13.4	0.164	30	972
250	250,000	127	37	2.09	14.6	0.138	25	1,149
300	300,000	152	37	2.29	16.0	0.116	25	1,379
350	350,000	177	37	2.47	17.3	0.0994	25	1,609
400	400,000	203	37	2.64	18.5	0.0866	30	1,838
500	500,000	253	37	2.95	20.7	0.0695	30	2,298
600	600,000	304	61	2.52	22.7	0.0578	25	2,758
700	700,000	355	61	2.72	24.5	0.0495	30	3,216
750	750,000	380	61	2.82	25.3	0.0463	30	3,447
800	800,000	405	61	2.91	26.2	0.0434	30	3,676
900	900,000	456	61	3.09	27.8	0.0386	30	4,136
1,000	1,000,000	507	61	3.25	29.3	0.0347	30	4,596

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



Bare Copper Conductor

Soft Drawn Copper Conductor

Nominal Sectional Area	Number & Diameter of Wire	Overall Diameter	Maximum Conductor Resistance @ 20°C	Allowable Ampacities in Free Air	Cable Weight (approx)	Standard Packing
mm ²	No. / mm	mm	Ω / km	A	kg / km	m
10	7/1.35	4.05	1.83	90	90	1,000/R
16	7/1.70	5.10	1.15	125	143	1,000/R
25	7/2.14	6.42	0.727	160	227	1,000/R
35	19/1.53	7.65	0.524	200	314	1,000/R
50	19/1.78	8.90	0.387	250	428	1,000/R
70	19/2.14	10.70	0.268	310	618	1,000/R
95	19/2.52	12.60	0.193	380	858	1,000/R
120	37/2.03	14.21	0.153	440	1,097	1,000/R
150	37/2.25	15.75	0.124	510	1,334	1,000/R
185	37/2.52	17.64	0.0991	585	1,673	1,000/R
240	61/2.25	20.25	0.0754	700	2,200	1,000/R
300	61/2.52	22.68	0.0601	800	2,760	1,000/R
400	61/2.85	25.65	0.0470	900	3,350	1,000/R
500	61/3.20	28.80	0.0366	1,110	4,451	1,000/R

R = Packing in reel