

Soft Bare Copper

Soft Copper Bare Conductor



GENERAL INFORMATION

The bare electrical copper conductor is formed with twisted annealed wires in Class B and combination unilay cabling.

FEATURES

- It has the optimal capacity to carry the electrical current, must take care about the uses of this conductor because this is without isolation when it is working.

CERTIFICATIONS AND DESIGN STANDARDS

Standards of design: ASTM B3, ASTM B8 and ASTM B787

Certifications: CIDET 01899

CABLE DESIGN

Conductor material	Copper
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PHYSICAL & CHEMICAL PROPERTIES

Flame retardant	No
Oil resistant	No
Moisture resistance	No

INSTALLATION DETAILS

Application	Power Distribution;Power Transmission
Outdoor installation	Yes
Underground installation	Yes
Suitable as installation cable	Yes

SPECIFIC APPLICATIONS

- Can be installed in power transmission and distribution lines.
- Ideal to connect the ground protection for equipment, machinery and building metal structures.
- It is capable to be installed as external exposed or direct buried in electrical connections.

PRODUCT DIMENSIONS & CHARACTERISTICS

AWG size	Nominal cross section conductor [mm ²]	Conductor strand count	Diameter conductor [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
14	2.08	1	1.62	18.54	8.45
12	3.31	1	2.09	29	5.31
10	5.26	7	2.98	48	3.41
8	8.37	7	3.33	72.55	2.1
6	13.3	7	4.76	114.97	1.35
4	21.2	7	5.89	183.66	0.848
2	33.6	7	7.5	300.75	0.534
4	21.2	19	5.76	183.8	0.848
2	33.6	19	7.27	291.35	0.534
1/0	53.5	19	9.14	464.41	0.335
2/0	67.4	19	10.26	585	0.266
3/0	85	19	11.53	738	0.211
4/0	107	19	12.95	928.56	0.167
250	127	37	14.17	1,091.5	0.142
300	152	37	15.52	1,321.9	0.118
500	253	37	20.41	2,205.54	0.0709

The conductor operating amperage is defined by the installation conditions and operating temperatures identified in the NEC. See TABLE 310.15(B)(21) NFPA 70 latest version. Note: The values given may vary according to the manufacturing tolerances.