

Bare Conductor

Copper Soft-annealed



Description

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

Standard Specifications

The bare conductors are built based on the following:

- Standards: **ASTM B3, B8 and B787.**
- Certificate: **CIDET # 01899.**

Features

- The conductors are solid twisted soft annealed copper wires Class B or unilay formation.

Applications

- Design to be installed in power transmission and distribution lines.
- Ideal to connect to earth protection equipment, machinery and building metal structures.
- Capable to be installed as external exposed or direct buried electrical connections.

Technical Information

Dimensions and nominal features

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

Gauge	Area		Construction	Wires	External Diameter		Weight	DC Max. @ 20°C Resistance	
	AWG/kcmil	cmil			mm ²	in			mm
14		4 110	2,08	solid	1	0,065	1,66	19	8,45
12		6 530	3,31	solid	1	0,082	2,09	29	5,31
10		10 380	5,26	solid	1	0,104	2,64	47	3,34
8		16 510	8,37	solid	1	0,131	3,33	74	2,10
14		4 110	2,08	cabling	7	0,074	1,88	19	8,62
12		6 530	3,31	cabling	7	0,093	2,37	30	5,43
10		10 380	5,26	cabling	7	0,118	2,99	48	3,41
8		16 510	8,37	cabling	7	0,149	3,77	76	2,14
6		26 240	13,30	cabling	7	0,187	4,76	121	1,35
4		41 740	21,15	cabling	19	0,231	5,86	192	0,848
2		66 360	33,63	cabling	19	0,292	7,41	305	0,534

Note: The values given may vary according to the manufacturing tolerances



PRYSMIAN GROUP

Central America & Caribbean
 Kilometer 11 General Cañas Highway. Heredia, Costa Rica
 Customer Service Hub: + (506) 2298-4800
info.centroamerica@prysmiangroup.com
www.generalcable.com

Bare Conductor

Copper Soft-annealed

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

Gauge	Area		Construction	Wires	External Diameter		Weight	DC Max. @ 20°C Resistance
	AWG/kcmil	cmil			mm ²	Kind		
1/0	105 600	53,51	cabling	19	0,367	9,33	485	0,335
2/0	133 100	67,44	cabling	19	0,412	10,47	612	0,266
3/0	167 800	85,03	cabling	19	0,463	11,76	771	0,211
4/0	211 600	107,22	cabling	19	0,520	13,21	972	0,167
250	250 000	126,68	cabling	37	0,587	14,91	1149	0,142
300	300 000	152,01	cabling	37	0,643	16,33	1378	0,118
350	350 000	177,35	cabling	37	0,694	17,64	1608	0,101
400	400 000	202,68	cabling	37	0,742	18,86	1838	0,0885
500	500 000	253,36	cabling	37	0,830	21,08	2297	0,0709
600	600 000	304,03	cabling	61	0,910	23,13	2757	0,0590
750	750000	380,03	cabling	61	1,018	25,85	3446	0,0472

Note: The values given may vary according to the manufacturing tolerances



PRYSMIAN GROUP

Central America & Caribbean

Kilometer 11 General Cañas Highway. Heredia, Costa Rica

Customer Service Hub: + (506) 2298-4800

info.centroamerica@prysmiangroup.com

www.generalcable.com