Copper Cable - METRIUM

Contact
Local Sales
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For grounding systems.

Imagen referencial

DESCRIPTION

Application:

The soft copper conductor is used in grounding systems, equipment protection and general applications, while the hard copper conductor is used in overhead transmission lines and overhead transmission networks where a higher breaking load is required.

Construction:

Conductor: Copper, soft or hard.

Type conductor:

Copper cables in mm2 Class 2 or copper cables in AWG Class B.

Main characteristics:

High corrosion resistance.

Cross section:

From 50 mm^2 up to 120 mm^2.

2/0 AWG y 4/0 AWG.

Marking:

INDECO S.A. BARE COPPER WIRE - Section or Gauge - MADE IN PERU (- sequential length M. || sequential length M. +).

Packing:

Non returnable wooden reels.

National standards

NTP 370.251: Copper cables for overhead (bare or protected) and grounded.

ASTM B 1: Hard-drawn copper wire.

ASTM B 3: Soft or annealed copper wire.

ASTM B 8: Concentric-Lay-Stranded copper conductors with hard, medium-hard, and soft copper.

STANDARDS

National ASTM B 1; ASTM B 3; ASTM B 8; NTP 370.251

DIMENSIONAL AND ELECTRICAL DATA

Cross section [mm²]	Cond.cross sect. (AWG/KCMIL)	Conductor material	Total nb wires	Conductor diam. [mm]	Approx. weight [kg/km]	Max. DC Resist. Cond. 20°C [Ohm/km]	Perm current rating in air 30° C [A]
-	2/0 AWG	Soft copper	19	10.6	605	0.266	299

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-	4/0 AWG	Hard copper	19	13.3	962	0.174	398
-	4/0 AWG	Soft copper	19	13.3	962	0.1673	398
50		Soft copper	19	8.9	424	0.38	277
70		Hard copper	19	10.7	614	0.273	348
70		Soft copper	19	10.7	614	0.263	348
95		Soft copper	19	12.5	852	0.189	425
120		Soft copper	37	14.1	1074	0.15	495

MECHANICAL DATA

Cross section [mm²]	Cond.cross sect.(AWG/KCMIL)	Conductor material	Mín. Tensile Strength Cond. [kN]
-	4/0 AWG	Hard copper	41.6
70		Hard copper	26.9

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Conductor material	Type of conductor	Approximate weight [kg/km]
P00014229-3	10000043	Cobre Duro 70 mm2	Hard copper	Class 2	614
P00014775-3	10000073	Cobre blando 95 mm2	Soft copper	Class 2	852
P00014776-4	10000071	Cobre blando 50 mm2	Soft copper	Class 2	424
P00040390-DB-0	10055529	Cobre blando 120 mm2	Soft copper	Class 2	1074
P00013106-3	10000064	Cobre blando 120 mm2	Soft copper	Class 2	1074
P00013100-4	10000072	Cobre blando 70 mm2	Soft copper	Class 2	614
P00035307-1	10049879	Cobre Duro 4/0 AWG - C500	Hard copper	Class B	962
P00014230-5	10000029	Cobre Duro 4/0 AWG	Hard copper	Class B	962
P00013097-3	10000058	Cobre blando 4/0 AWG	Soft copper	Class B	962
P00014774-4	10000056	Cobre blando 2/0 AWG	Soft copper	Class B	605

= Make to order, = In stock,

CALCULATION OF CURRENT CONDITION COPPER CABLE

CALCULATION OF CURRENT CONDITION
Maximum conductor temperature : 75°C.
Ambient air temperature : 30°C.

INDECO by Nexans