

Copper Cable - METRIUM

Cobre blando 50 mm²



Imagen referencial

Nexans Ref.: P00014776-7
Country Ref.: 10000071

CONTACT

Local Sales
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International Designation: SOFT COPPER 50 mm²

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.

STANDARDS

PRODUCT

ASTM B1; ASTM B3; ASTM B8; NTP 370.251

CONSTRUCTION

Conductor: Copper, soft or hard.

TYPE CONDUCTOR

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

CROSS SECTION

From 50 mm² up to 120 mm².

2/0 AWG y 4/0 AWG.

MARKING

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

PACKING

Non returnable wooden reels.

PRODUCT 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.

CHARACTERISTICS

Construction characteristics

Conductor material	Soft copper
Conductor shape	Circular
Type of conductor	Class 2

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Dimensional characteristics

Conductor cross-section	50 mm ²
Total number of wires	19
Wire diameter	1.77 mm
Conductor diameter	8.9 mm
Approximate weight	411 kg/km
Conductor cross-section (AWG/KCMIL)	

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.38 Ohm/km
Perm current rating in air 30°C	277 A

Mechanical characteristics

Elongation	10 %
Minimum Tensile Strength Conductor	- kN

Usage characteristics

Midspan	No
Reference	01

CALCULATION OF CURRENT CONDITION COPPER CABLE

CALCULATION OF CURRENT CONDITION

Maximum conductor temperature : 75°C.

Ambient air temperature : 30°C.