Bare copper busbar in 4 m lengths for earthing and bonding



The KALOT Group bare copper busbar is a flat copper conductor in 4 m lengths, used for the main earthing bar, earth bars, bonding bars and short, rigid connections in substations, transformer rooms, electrical rooms and switchboards. We supply this busbar in twenty sizes, from 20 × 3 to 120 × 20 mm.

- Straight 4 m length
- Twenty sizes from 20 × 3 to 120 × 20
- Main earth bar, earth bars and bonding bars
- Table of weight per metre and per length

Illustrative image.

Technical specifications

Product type	Flat copper conductor in straight lengths (copper busbar) for earth bars, bonding and rigid connections
Material	Copper, bare
Dimensions (width × thickness)	From 20 × 3 to 120 × 20 mm, in twenty sizes
Cross-section	From 60 to 2400 mm²
Length	4 m
Order code	BCB 2003–1220
Tinned version	Tinned copper busbar in sizes 25 × 5, 30 × 5 and 50 × 5

We give dimensions as width × thickness; in the market the same size is also quoted as thickness by width, so a 25 × 5 busbar is called a “5 by 25” bar. We calculated the weight per metre from the dimensions: cross-section (mm²) × 8.9 ÷ 1000, with a copper density of 8.9 g/cm³; the weight of each 4 m length is four times that. All sizes are supplied in 4 m lengths. We keep improving our products; please confirm final specifications with our specialists before you buy.

This document is not contractual; we may update product design, dimensions, weights and images without prior notice.

How copper busbar is supplied

Our copper busbar is a flat, straight copper conductor supplied in 4 m lengths, with a rectangular cross-section of width W and thickness T. We supply the same copper as copper tape on reels for long runs, and as tinned copper busbar for contact with galvanised steel or aluminium in air.

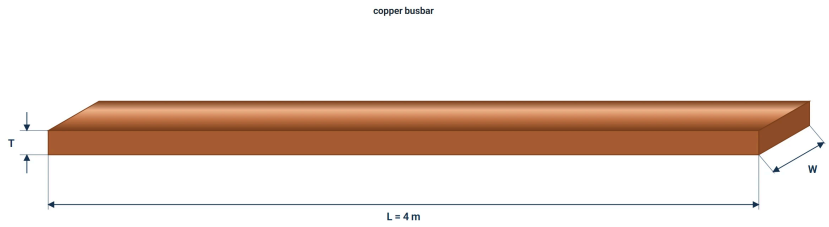
Dimensions and code table

Copper busbar dimensions and code table

Twenty sizes from 20 × 3 to 120 × 20 mm, in 4 m lengths

BARE COPPER BAR · BCB 2003–1220

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copper busbar

Material: copper, bare

W: busbar width

T: busbar thickness

L: length: 4 m

S: cross-section

Order code	W × T (mm)	S (mm²)	kg/m	kg / 4 m
BCB 2003	20 × 3	60	0.53	2.14
BCB 2005	20 × 5	100	0.89	3.56
BCB 2505	25 × 5	125	1.11	4.45
BCB 3005	30 × 5	150	1.34	5.34
BCB 4005	40 × 5	200	1.78	7.12
BCB 5005	50 × 5	250	2.23	8.90
BCB 6005	60 × 5	300	2.67	10.68
BCB 8005	80 × 5	400	3.56	14.24
BCB 1005	100 × 5	500	4.45	17.80
BCB 3010	30 × 10	300	2.67	10.68
BCB 4010	40 × 10	400	3.56	14.24
BCB 5010	50 × 10	500	4.45	17.80
BCB 6010	60 × 10	600	5.34	21.36
BCB 8010	80 × 10	800	7.12	28.48
BCB 1010	100 × 10	1000	8.90	35.60
BCB 6020	60 × 20	1200	10.68	42.72
BCB 1210	120 × 10	1200	10.68	42.72
BCB 1015	100 × 15	1500	13.35	53.40
BCB 1020	100 × 20	2000	17.80	71.20
BCB 1220	120 × 20	2400	21.36	85.44

Figures are illustrative and not to scale.
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The full print-quality version of this drawing (PDF) can be downloaded from the product page at www.kalot.ir.

Applications of copper busbar

- Main earthing terminal: the bar where the earthing conductor, the protective conductors and the building's bonding conductors meet; from the earth pit to this bar, green and yellow earth cable is used.
- Earth bars and bonding bars: earth bars in electrical rooms, substations, transformer and generator rooms; KALOT earth bars and the copper version of the concrete earth pit bar are also made from 50 × 5 copper busbar. For bonding, see Bonding and equipotential bonding.
- Short rigid connections: short links between bars, equipment and panels that must stay straight and are fixed with bolts and nuts or cable lugs.
- In soil: we check the busbar against the solid copper tape row of the standard tables (at least 50 mm²) and all our sizes exceed it; but for long runs in soil, copper tape on reels is laid without joints, and buried joints are made by exothermic welding.

Installation notes

۱. Cut the busbar to the required length and smooth the cut edges.
۲. Keep the bolt diameter to no more than one third of the busbar width (BS 7430); each conductor on its own hole.
۳. Clean the contact surfaces and fasten the connection with a nut, bolt and wide flat washer.
۴. To allow for thermal expansion in long busbars, make the mounting holes slotted, or fix the busbar at one point and leave it free in the other supports.

Copper busbar price enquiry

To ask for a copper busbar price, send our specialists the size (width × thickness), number of lengths or total metres and the application, and they will give you the current price. The price of busbar depends on the day's copper price and its weight, and the weight per metre and per length is in the dimensions table.

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