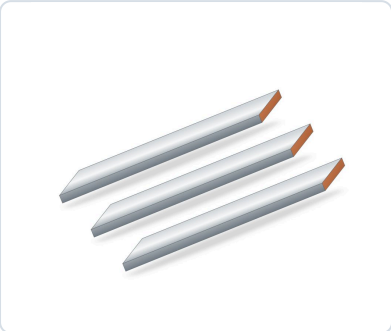
Tinned copper busbar (tin-coated copper busbar) in 4 m lengths



KALOT Group tinned copper busbar (tin-coated copper busbar) is a flat copper conductor with a tin coating, supplied in 4 m lengths. We use it where a copper bar or connection touches galvanised steel or aluminium in air, and for earth bars and bonding bars in damp electrical rooms. We supply this busbar in three sizes: 25 × 5, 30 × 5 and 50 × 5 mm.

- 4 m length with tin coating
- Three sizes: 25 × 5, 30 × 5 and 50 × 5
- Contact with galvanised steel in air; bars and earth bars
- For use above ground

Illustrative image.

Technical specifications

Product type	Flat tin-coated copper conductor in straight lengths (tinned copper busbar) for bars and bonding, above ground
Material	Copper with tin coating
Dimensions (width × thickness)	25 × 5, 30 × 5 and 50 × 5 mm
Cross-section	125, 150 and 250 mm²
Length	4 m
Order code	TBCB 255–505
Compatibility	With copper, tinned copper and brass; with galvanised structures only in air, below the galvanised part and with anti-corrosion coating over the joint; avoid connecting to aluminium wherever possible, and if it is unavoidable, make the joint above ground and fully covered

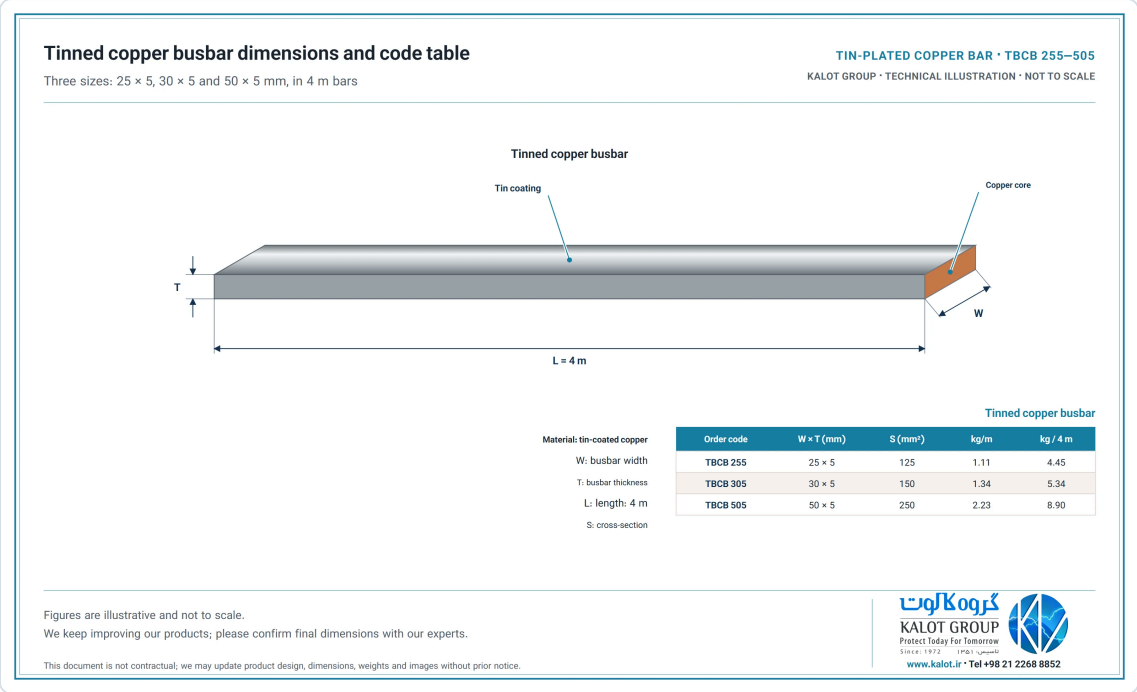
Dimensions are given as width × thickness; the trade also states the same size as thickness by width, so a 50 × 5 bar is called a "5 by 50 bar". Weight per metre is calculated from the dimensions: cross-section (square millimetres) × 8.9 ÷ 1000, using a copper density of 8.9 g per cubic centimetre; each 4 m length weighs four times that. We give tinned busbar the same weight as plain copper busbar, because the tin coating is a thin surface layer. All sizes are supplied in 4 m lengths. Our products are continually improved; please confirm final specifications with our specialists before ordering.

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

How tinned copper busbar is supplied

Tinned copper busbar is copper busbar with a layer of tin on its surfaces, supplied in 4 m lengths. It is not a copper and tin alloy: the core is copper, so cut ends and drilled holes show bare copper. For long runs we supply tinned copper tape in rolls.

Dimensions and code table



The full print-quality version of this drawing (PDF) can be downloaded from the product page at www.kalot.ir.

Applications of tinned copper busbar

- Contact with galvanised structures in air: a copper bar or link connected to a galvanised column, beam or structure; at least 250 mm above ground, with anti-corrosion coating over the joint, and below the galvanised part. To connect tape to a structure, see the tape-to-metal plate bonding clamp.
- Earth bars and bonding bars: earth bars in electrical rooms, substations and transformer rooms, especially in damp conditions; the tinned version of the earth bar without insulators is also made from 50 × 5 bar. For bonding, see Bonding and equipotential bonding.
- Connection with tinned cable lugs: the tin surface of the bar matches tinned copper cable lugs; to bond panel doors and moving parts, see the flexible copper bonding tape.

Installation notes

۱. Cut the busbar to the required length; the cut end and hole show bare copper and must be covered with an anti-corrosion coating where they touch galvanised steel or aluminium.
۲. Keep the bolt diameter to no more than one third of the busbar width (BS 7430) and do not scrape the tin coating at the contact point.
۳. Fasten the connection with a nut, bolt and wide flat washer, with each conductor on its own hole.
۴. Install tinned busbar above ground; in soil and concrete, use plain copper busbar or copper tape.

Tinned copper busbar price enquiry

To ask for a tinned copper busbar price, send our specialists the size, number of lengths and application, and they will give you the current price. The price depends on the day's copper price and the busbar's weight, and tinned busbar costs slightly more than plain busbar because of the tin coating.

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