

# Tinned Copper Bus Bars

[Amiable Impex](#) manufactures Tinned Copper Bus Bars

We manufacture and export Tinned Copper Bus Bars In electrical power distribution, a bus bar is a strip of copper or aluminium that conducts electricity within a switchboard, distribution board, substation or other electrical apparatus.

The size of the bus bar determines the maximum amount of current that can be safely carried. Bus bars can have a cross-sectional area of as little as 10 mm<sup>2</sup> but electrical substations may use metal tubes of 50 mm in diameter (1,963 mm<sup>2</sup>) or more as bus bars.

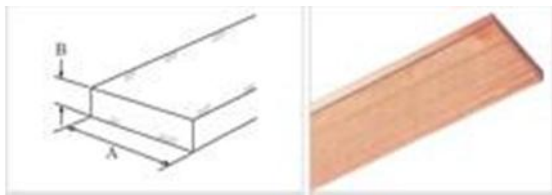
## Tinned Copper Bus Bars

Hard Drawn / Soft Drawn / Half Hard)

Material – High Conductivity Copper Bar

\* Lengths as per client's request.

\* Tinned Tinned Copper Bus Bars also available.



\* Add suffix „T“ to the product code for Tinned Tinned Copper Bus Bars

Conductor Size mm	Product Code
12 x 3	E12-CBB -123
20 x 3	E12-CBB -203
20 x 5	E12-CBB -205
25 x 3	E12-CBB -253
25 x 4	E12-CBB -254
25 x 5	E12-CBB -255
25 x 6	E12-CBB -256
30 x 5	E12-CBB -305
31 x 25	E12-CBB -3125
38 x 3	E12-CBB -383
38 x 4	E12-CBB -384
38 x 6	E12-CBB -386
40 x 3	E12-CBB -403
40 x 5	E12-CBB -405
40 x 6	E12-CBB -406
40 x 10	E12-CBB -4010
50 x 5	E12-CBB -505

Conductor Size mm	Product Code
50 x 6	E12-CBB -506
50 x 10	E12-CBB -5010
50 x 12	E12-CBB -5012
60 x 5	E12-CBB -605
60 x 8	E12-CBB -608
60 x 10	E12-CBB -6010
75 x 6	E12-CBB -756
75 x 10	E12-CBB -7510
75 x 12	E12-CBB -7512
80 x 5	E12-CBB -805
80 x 6	E12-CBB -806
80 x 10	E12-CBB -8010
80 x 12	E12-CBB -8012
100 x 5	E12-CBB -1005
100 x 6	E12-CBB -1006
100 x 10	E12-CBB -1010
100 x 20	E12-CBB -1020

For rigid electrical connections, Tinned Copper Bus Bars offer a very efficient solution. Resistivity in copper bars is very low, 25 in<sup>2</sup> bar 1 foot long is only 0.0000329 Ohms - roughly 8 Watts lost at 500 Amps.

**Where to use** Tinned Copper Bus Bars:

- Very rigid high power connections.
- Connection of Field/Armature on Motor Terminals

**Where not to use** Tinned Copper Bus Bars:

- Anywhere that needs flexible connections.
- Between battery terminals. (May cause undue stress to terminals.)

**Shape / Size:**

- Favour thin and wide.
- Cross sectional area should be same as equivalent wiring

(We also make different shape of Bus Bar as shown in the image on the right side)



Silver, tin or nickel plating for Tinned Copper Bus Bars is necessary in high temperature applications. At DC to 60Hz there is some controversy as to which plating is the best because while silver has the highest conductivity, it is also more noble than copper so it will actually accelerate corrosion wherever the plating gets scratched. Thus, you don't want to just use toothed lock washers, for example, in between a nut and the bus bar (i.e. - use a flat washer, too).

Tin plating is an excellent solution practically speaking, because it protects the copper, has reasonably low resistance (higher than silver or copper but lower than nickel) and can be easily applied yourself using "electro less" plating kits such as "TINNIT".

Tin (non-lead bearing) solder can work, but it may sweat at a higher temperature. Having someone with a hobby plating set-up will make it work better. Alternatively, buying a hobby plating transformer and some acid and cyanide will provide you the ability to do it at will. Nickel is the metal of choice. It is used to 'flash' the copper bar material, prior to plating with silver, and thus prevent corrosion by 'sealing the surface of the copper. Then fine silver is used to do the final plate, but the copper is a naturally oxidizing metal, that is why it is noted for its 'green patina' and why the planet Venus is considered the Goddess of Copper. If it is just straight plated with silver, it would be useless as the corrosion will start and the bar will blister with copper oxide and shed the silver. Nickel and silver don't melt like tin will at a temperature less than 1000 degrees. (Nickel = @1100 deg f, Silver = 1470 deg f)

If you have access to a good metal cutting blade and jig-saw or a scroll-saw with a metal cutting blade, buy a sheet in the desired thickness. It's cheaper and you can customize your needed 'bar'. You can then also use a propane torch to 'anneal the copper to work or bend it. A hand drill with some good sharp bits will always provide good puncturing capabilities for necessary holes.

If using it for battery terminals, make sure the batteries are well secured and the battery boxes are solid so that the batteries do not shift around or flex relative to each other during driving. Favour a bus bar that is fairly thin but wide (to get enough conductivity) and design them with "kinks" in the middle so that they can allow slight movement between the batteries.

[Amiable Impex](http://www.amiableimpex.com) supply Tinned Copper Bus Bars all over India mainly at Ahmadabad, Pune, Delhi, Mumbai, Bangalore, Chennai, Kolkata, Surat, Pune, Lucknow, Kanpur, Nagpur, Indore, Bhopal, Vadodara(Baroda) etc.

For more details or any queries in terms for Tinned Copper Bus Bars please visit us at <http://www.amiableimpex.com> or mail us at [info@amiableimpex.com](mailto:info@amiableimpex.com)

## Our Other products in Copper Conductors & Copper Products

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