

BRAIDED COPPER

[Amiable Impex](#) manufactures Braided Copper in India.

We manufacture and export Braided Copper. Our most economical standard Braided Copper are made from 0.20 diameter wire and are braided into a tube followed by a rolling process to flatten them.

Braided Copper is used as earthing straps and are also used in numerous electrical components. All types can be supplied in non-rolled form, as multiple tubes and for screening. Highly copper flexible pressed, Bare, Tin & Silver Coated.

Range	4 sq.mm and above
Wire Diameter	0.05mm(47swg) to 0.3mm(30swg)
Material	Electrolytic Copper
Finish	Bare Copper/Tinned/Silver

Technical Specifications (Same Sizes also available with 0.20 mm Diameter)

Nominal area mm	Dimension mm	Wire diameter mm	Current rating amps	Product Code
2.5	6 x 1.00	0.15	36	BO2-FB - 2.5-36
4	10 x 1.00	0.15	52	BO2-FB - 4-52
6	12 x 1.00	0.15	66	BO2-FB - 6-66
10	15 x 1.50	0.15	90	BO2-FB - 10-90
16	19 x 2.00	0.15	120	BO2-FB - 16-120
25	25 x 3.00	0.15	150	BO2-FB- 25 -150
35	25 x 3.50	0.15	200	BO2-FB- 35 -200
50	30 x 4.50	0.15	250	BO2-FB- 50 -250
70	32 x 5.00	0.15	300	BO2-FB- 70 -300
95	37 x 5.00	0.15	350	BO2-FB- 95 -350
120	45 x 5.00	0.15	400	BO2-FB- 120 -400
150	50 x 6.00	0.15	500	BO2-FB- 150- 500



We offer a wide choice of braid types (flat, round, rope and layered), strand sizes, finishes, termination options (crimped, pressed and swaged), insulation and identification. Our highly flexible earth connectors and earth leads are commonly used in switchgear, building services and a wide range of industries.

We offer competitive pricing and ex-stock or short lead time deliveries for Braided Copper. These can be made from electrolytic copper Cu-ETP (grade C101) or from oxygen free copper

Finish:

Our wide range of Braided Copper products is available in the following copper wire finishes:

- Bare copper / Plain copper / red copper
- Electro tin plated copper
- Electro nickel plated copper
- 99.99% pure Silver electro plated copper
- Enamel coated, which insulates each wire
- And other finishes on request.



Even though many of our products are standard items, we also make special tailor made products made exactly to the requirements of our customers. We use the finest quality material to ensure consistency of quality and performance, drawing on our supplier's decades of experience in drawing, stranding and braiding, as well as surface treatment.

Braided Copper Construction

The construction of Braided Copper is usually written as:

48 / 30 / 0.15, where:

48 = the number of carriers

30 = the number of wires per carrier

0.15 = the diameter of each wire in mm

The cross sectional area (CSA) of a Braided Copper can be calculated from this information:

$(\text{Carriers} \times \text{wires per carrier} \times \text{wire diameter}^2 \times 3.142) / 4$

So, for a Braided Copper with the specification: 48 / 30 / 0.15, this would be:

$48 \times 30 \times 0.15^2 \times 3.142 / 4 = 101.80$

$= 25.45 \text{ mm}^2$

Oxygen Free Copper

Oxygen-free high thermal conductivity (OFHC) copper is widely used in cryogenics. OFHC is produced by the direct conversion of selected refined cathodes and castings under carefully controlled conditions to prevent contamination of the pure oxygen-free metal during processing. The method of producing OFHC copper insures extra high grade of metal with a copper content of 99.99%.

With so small a content of extraneous elements, the inherent properties of elemental copper are brought forth to a high degree. Characteristics are high ductility, high electrical and thermal conductivity, high impact strength, good creep resistance, ease of welding, and low relative volatility under high vacuum. We supply a range of oxygen free copper for use in scientific, industrial and medical processes.

- Copper alloy 10100 oxygen free copper, also known in Europe as Cu-OF or CW008A to EN13601.
- Composition: Copper 99.99 %, Trillium 0.001 %
- Hardness: B30 - 40
- Conductivity: 101 %
- Tensile strength: 25 - 40 Ksi

In simple terms the thermal conductivity of pure copper is about 400 watts per meter. This means that a plate of copper with area A and thickness L whose faces are kept at a constant relative temperature difference of delta T will conduct heat at a rate of 400.

For more details or any queries in terms for Braided Copper please visit us at <http://www.amiableimpex.com> or mail us at info@amiableimpex.com

Our Other products

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1)	Braided Coppers
2)	Tin Braided Copper
3)	Copper Flexible Connectors
4)	Copper Stranded
5)	Braided Copper Bond Flexible
6)	Braided Coppered Flexible Straps
7)	Flexible Bare Braided Copper Round
8)	Flexible Bare Braided Copper Flat
9)	Copper Earth Tape / Bare Copper Earthing Tape
10)	Aluminium Earth Tape / Bare Aluminium Earthing Tape
11)	Pvc Coated Copper Tape / PVC Cover Copper Tape

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